



improve your life

Air Conditioners 2006





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Argoclima S.p.A is an essential component of AER.FI. Group that, in only one decade has become one of the most important European structures for the production and the commercialization of air-conditioners for the residential and commercial markets.

Both the structures, productive and commercial, are placed in Italy, in Gallarate, around 40 km from Milano and can be easily reached by the Milano-Laghi A8 highway and by train.

Argoclima owns ARGO brand, with which promotes and trades in Italy a wide range of air conditioning, heating and air treatment products, granting high quality levels and service, with its around 500 certified Technical Assistant Centers and a spare parts centralized management on all the European territory.

Argoclima has been able to value ARGO brand and its history of success born at the end of 1920, transforming itself and dynamically managing the fast speed changing of the life and working environments and styles.

Today ARGO is a technological and reliable brand, but also a young, dynamic and friendly brand.

"Improve your life" is ARGO pay-off: our desire is to improve the quality of life by improving the comfort of people using our products.



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AIR CONDITIONER/WATER RADIATOR R410A

XFETTO – R410A



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Technical data

PRODUCT NAME	Units	XFETTO 245C	
		Cooling	Heating
Features			
Cooling capacity (Air-Conditioner mode)	kW	2,45	-
	BTU/h	8.360	-
	kcal/h	2.110	-
Heating capacity (Water Radiator mode)	kW		2,10
	ABCDEFG	A	-
Energy label class	(kW/kW)	2,62	-
E.E.R. / C.O.P.	m ³ /h		330-300-280
Air flowrate (h.m.l.)	l/h		1,2
Dehumidification	n°		3 + Auto
Fan speeds	dB(A)		45-43-41
Sound pressure in Air-Conditioner mode (h.m.l.)	dB(A)		42-39-32
Sound pressure in Water radiator mode (h.m.l.)	V/Ph/Hz		230/1/50
Power supply	kW	0,935	-
Running consumption in Air-Conditioner mode	kWh	468	
Annual energy cons.- A-C mode (500h) - Directive 2002/31/CE			0,027
Running consumption in Water radiator mode			R410A
Refrigerant type	mm		162
Ducts diameter	inch		1/2"
Hydraulic connection diameter on the heating plant (W.R.mode)			not requested
Condensate discharge	Kg		50
Net weight	mm		735x839x260-280
Net dimensions (H./W./D.)			

WITHOUT OUTDOOR UNIT



DUCTS AND GRILLS INCLUDED

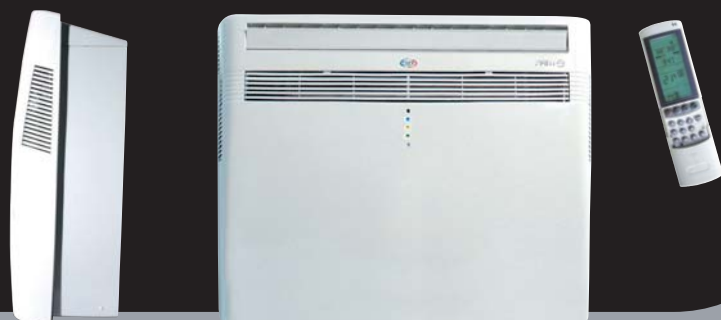


The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Packaged double-duct straight cooling air conditioner without outdoor unit
- Water radiator
- Air condensation by means of two ducts connected outside
- To be installed on a perimetral wall
- Infrared remote control with 4 digital timers to be set on the 24h and week-end
- Double temperature sensor (on the unit and inside the remote control); double temperature indication (set and room)
- "I Feel" feature
- Dry only feature
- Ventilation only feature
- "Sleep" function with night set-back capability
- Horizontal flap swinging or to be set to a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters
- Variable speed of the condensing fan to reduce at minimum the external noise
- Three-speed tangential fan with auto or speed manual selection
- "Cold Draft Prevention" device with water temperature less than 40°C in water radiator mode
- High precision thermostat with adjustment from 6°C to 40°C in water radiator mode
- Auto restart after a black out, saving all feature parameters set before the power failure
- Electronic protection against over-pressures
- HFC refrigerant R410A
- High efficiency rotary compressor
- Optional joint kit for hydraulic connection to the heating plant (necessary only in water radiator mode)
- Three-way bypass valve included in the water connection module
- Special optional support kit of two small feet for floor installations (glass walls, etc.)

XFETTO – R410A



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XFETTO 235H

Technical data

PRODUCT NAME		XFETTO 235H	
Features	Units	Cooling	Heating
Cooling/Heating capacity (Air-Conditioner mode)	kW	2,35	2,25
	BTU/h	8.020	7.700
	kcal/h	2.020	1.935
Heating capacity (Water Radiator mode)	kW	2,10	
Energy label class	ABCDEFGF	A	C
E.E.R. / C.O.P.	(kW/kW)	2,61	2,64
Air flowrate (h.m.l.)	m ³ /h	330-300-280	
Dehumidification	l/h	1,0	
Fan speeds	n°	3 + Auto	
Sound pressure in Air-Conditioner mode (h.m.l.)	dB(A)	45-43-41	
Sound pressure in Water radiator mode (h.m.l.)	dB(A)	42-39-32	
Power supply	V/Ph/Hz	230/1/50	
Running consumption in Air-Conditioner mode	kW	0,900	-
Annual energy cons.- A-C mode (500h) - Directive 2002/31/CE	kWh	450	-
Running consumption in Water radiator mode	kW	0,027	
Refrigerant type		R410A	
Ducts diameter	mm	162	
Hydraulic connection diameter on the heating plant (W.R.mode)	inch	1/2"	
Condensate discharge		by duct, outside or inside the room	
Net weight	Kg	52	
Net dimensions (H./W./D.)	mm	735x839x260-280	

WITHOUT OUTDOOR UNIT



DUCTS AND GRILLS INCLUDED



The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

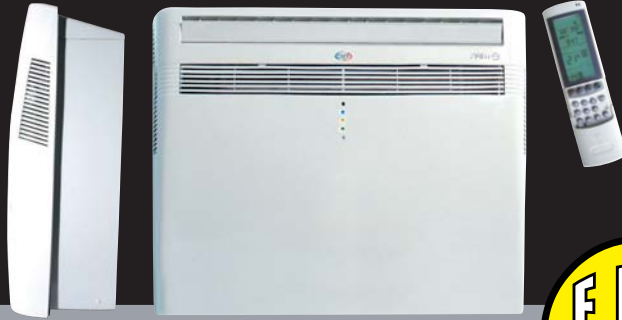
Features

- Packaged double-duct straight cooling and heat pump air conditioner without outdoor unit
- Water radiator
- Air condensation by means of two ducts connected outside
- To be installed on a perimetral wall
- Automatic change-over between cooling and heating modes
- Infrared remote control with 4 digital timers to be set on the 24h and week-end
- Double temperature sensor (on the unit and inside the remote control); double temperature indication (set and room)
- "I Feel" feature
- Dry only feature
- Ventilation only feature
- "Sleep" function with night set-back capability
- Horizontal flap swinging or to be set to a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters
- Variable speed of the condensing fan to reduce at minimum the external noise
- Three-speed tangential fan with auto or speed manual selection
- "Cold Draft Prevention" device with water temperature < 40°C in water radiator mode and with evaporator temperature < 40°C in heat pump mode
- High precision thermostat with adjustment from 6°C to 40°C in water radiator mode
- Heating function disabled during defrosting cycle
- Auto restart after a black out, saving all feature parameters set before the power failure
- Electronic protection against over-pressures
- HFC refrigerant R410A
- High efficiency rotary compressor
- Optional joint kit for hydraulic connection to the heating plant (necessary only in water radiator mode)
- Three-way bypass valve included in the water connection module
- Special optional support kit of two small feet for floor installations (glass walls, etc.)

XFETTO H₂O – R410A



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XFETTO 245SC H₂O – 235HP H₂O



Features

- Packaged double-duct straight cooling (Xfetto 245scH₂O) and heat pump (Xfetto 235hpH₂O) air conditioner without outdoor unit
- Water radiator
- Water-cooled air-conditioner (Xfetto 245scH₂O); Water/air heat pump (Xfetto 235hpH₂O) (according to standard EN14511)
- Water condensation with a water average consumption of about 1 cubic meter for a 8 hour operation
- To be freely installed, not necessarily on a perimetral wall, because no holes in the wall are requested
- Designed to operate with both town water and wellwater or groundwater; it can be used also as terminal unit of a closed circuit system (water loop) with water at 30°C, according to EN14511 standard specifications
- High efficiency spiral heat exchanger
- Solenoid valve to stop the town water flowrate when the compressor is off
- Anti-freeze protection on the condensation water circuit
- It's suggested the installation of a filter to be inspected on the entry of the town water (by the installer)
- Automatic change-over between cooling and heating modes (Xfetto 235hpH₂O)
- Infrared remote control with 4 digital timers to be set on the 24h and week-end
- Double temperature sensor (on the unit and inside the remote control)
- Double temperature indication (set and room)
- "I Feel" feature
- Dry only feature
- Ventilation only feature
- "Sleep" function with night set-back capability
- Horizontal flap swinging or to be set to a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters
- Three-speed tangential fan with auto or speed manual selection
- "Cold Draft Prevention" device with water temperature < 40°C in water radiator mode and with evaporator temperature < 40°C in heat pump mode (Xfetto 235hpH₂O)
- High precision thermostat with adjustment from 6°C to 40°C in water radiator mode
- Heating function disabled during defrosting cycle (Xfetto 235hpH₂O)
- Auto restart after a black out, saving all feature parameters set before the power failure
- Electronic protection against over-pressures
- HFC refrigerant R410A
- High efficiency rotary compressor
- Optional joint kit for hydraulic connection to the heating plant (necessary only in water radiator mode)
- Three-way bypass valve included in the water connection module
- Special optional support kit of two small feet for floor installations (glass walls, etc.)

XFETTO H₂O – R410A



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WITHOUT OUTDOOR UNIT



WITHOUT HOLES IN THE WALL



Technical data

PRODUCT NAME		XFETTO 245SCH ₂ O	
Operation		Town water	Water loop (*)
Features	Units	Cooling	Cooling
Cooling capacity (Air-Conditioner mode)	kW	2,83	2,7
	BTU/h	9.650	9.200
	kcal/h	2.430	2.320
Energy label class	ABCDEF	-	B
E.E.R. / C.O.P.	(kW/kW)	4,42	4,15
Air flowrate (h.m.l.)	m ³ /h	330-300-280	
Dehumidification	litri/h	1,2	1,2
Fan speeds	n°	3 + Auto	3 + Auto
Sound pressure in Air-Conditioner mode (h.m.l.)	dB(A)	44-42-41	44-42-41
Power supply	V/Ph/Hz	230/1/50	
Running consumption in Air-Conditioner mode	kW	0,640	0,650
Annual energy cons.- A-C mode (500h) - Directive 2002/31/EC	kWh	-	325
Water flowrate for the heat exchanger	m ³ /h	0,150	0,525
Pressure drops	KPa	2,9	38,0
Refrigerant type		R410A	R410A
Water connection diameter (in/out)	inch	1/2" (gas)	3/4" (gas)
Condensate drain connection diameter (inside or outside)	mm	18	18
Heat transferred to water	kW	3,47	3,35
Heat moved from water	kW	-	-
Heating capacity in Water Radiator mode	kW	-	2,1
Running consumption in Water radiator mode	kW	-	0,027
Water flowrate in Water Radiator mode	m ³ /h	-	0,19
Pressure drops in Water Radiator mode	kPa	-	2,9
Hydraulic connection diameter to the heating plant (W.R.mode)	inch	-	1/2"
Sound pressure in Water radiator mode (h.m.l.)	dB(A)	-	42-40-38
Net weight	Kg	-	46
Net dimensions (H./W./D.)	mm	-	735x839x260-280

water loop: standard conditions EN14511

Town water - Cooling - Room Temp. 27°C d.b. / 19°C w.b. - Water Temp.: inlet 18°C - outlet 36°C / Water radiator - Room Temp. 20°C - Water Temp.: inlet 70°C - outlet 60°C
Water loop - Cooling - Room Temp. 27°C d.b. / 19°C w.b. - Water Temp.: inlet 30°C - outlet 35°C / Water radiator - Room Temp. 20°C - Water Temp.: inlet 70°C - outlet 60°C

PRODUCT NAME		XFETTO 235HPH ₂ O			
Operation		Town water		Water loop (*)	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity (Air-Conditioner mode)	kW	2,95	3,15	3,00	3,56
	BTU/h	10.060	10.740	10.230	12.140
	kcal/h	2.540	2.710	2.580	3.060
Energy label class	ABCDEF	-	-	A	C
E.E.R. / C.O.P.	(kW/kW)	4,68	3,80	4,41	4,14
Air flowrate (h.m.l.)	m ³ /h	330-300-280		330-300-280	
Dehumidification	litri/h	1,3		1,3	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure in Air-Conditioner mode (h.m.l.)	dB(A)	44-42-41		44-42-41	
Power supply	V/Ph/Hz	230/1/50			
Running consumption in Air-Conditioner mode	kW	0,630	0,830	0,680	0,860
Annual energy cons.- A-C mode (500h) - Directive 2002/31/EC	kWh	-	-	340	-
Water flowrate for the heat exchanger	m ³ /h	0,150	-	0,525	-
Pressure drops	KPa	2,9	-	40,3	-
Refrigerant type		R410A		R410A	
Water connection diameter (in/out)	inch	1/2" (gas)		3/4" (gas)	
Condensate drain connection diameter (inside or outside)	mm	18		18	
Heat transferred to water	kW	3,58	-	3,68	-
Heat moved from water	kW	-	2,04	-	2,7
Heating capacity in Water Radiator mode	kW	-	2,1	-	-
Running consumption in Water radiator mode	kW	-	0,027	-	-
Water flowrate in Water Radiator mode	m ³ /h	-	0,19	-	-
Pressure drops in Water Radiator mode	kPa	-	2,9	-	-
Hydraulic connection diameter to the heating plant (W.R.mode)	inch	-	1/2"	-	-
Sound pressure in Water radiator mode (h.m.l.)	dB(A)	-	42-40-38	-	-
Net weight	Kg	-	48	-	-
Net dimensions (H./W./D.)	mm	-	735x839x260-280	-	-

Town water - Cooling: Room Temp. 27°C d.b. / 19°C w.b. - Water Temp.: inlet 18°C - outlet 36°C / Heat Pump : Room Temp. 20°C d.b. - Water Temp.: inlet 18°C - outlet 6°C
Water loop - Cooling: Room Temp. 27°C d.b. / 19°C w.b. - Water Temp.: inlet 30°C - outlet 35°C / Heat Pump : Room Temp. 20°C d.b. - Water Temp. 15°C
Water radiator - Room Temp. 20°C - Water Temp.: inlet 70°C - outlet 60°C

(*) Water loop (EN14511 Definition)

Closed circuit of water maintained within a temperature range on which the units in cooling mode reject heat and the units in heating mode take heat

XFETTO R410A – ACCESSORIES

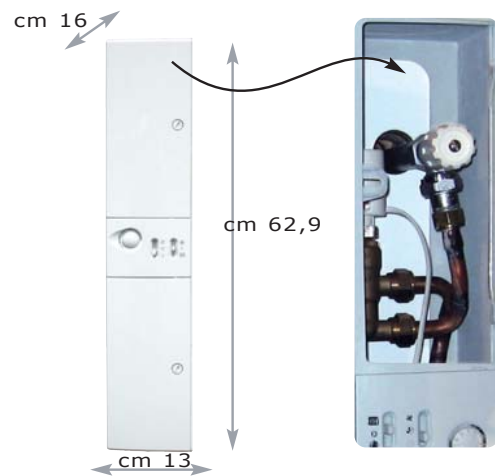


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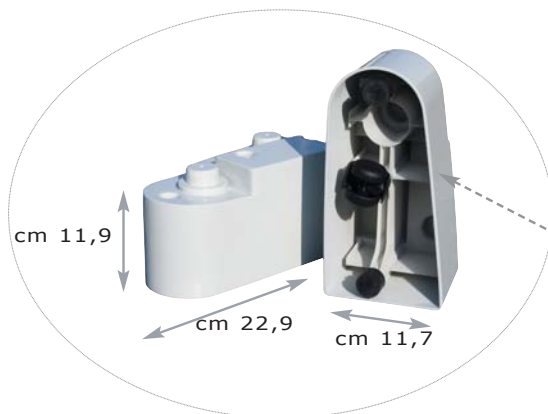


ACCESSORIES

The optional joint kit for hydraulic connection to the heating plant is necessary only to use Xfetto in water radiator mode. It's symmetric and can be installed on the right side as well as on the left side of the unit, without any change; it is composed of a plastic cover and of all the components (electronic and hydraulic) necessary to make the unit working as radiator (control panel with requested electrical wirings, three-way bypass valve). We suggest to make the necessary checks on the heating plant before installing the hydraulic connection.



Optional support kit (two small feet) for floor installations (glass walls, etc.)





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PORTABLE R410A

SINGLE-DUCT PORTABLE R410A



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Magico 9.2

Air conditioner or dehumidifier only, it is useful in all year seasons

Infrared remote control with 4 digital timers to be set on the 24h and week-end, night set back, start-up of air-conditioning or dehumidifying or three-speed ventilation only modes, temperature digital adjustment and room temperature control by a special sensor inside the remote control

Automatic condensate vaporization through the pipe for the elimination of the hot air; this function, operating at medium and maximum fan speeds, avoids stops due to tank filling, particularly annoying during the night

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Useful cable winding space on the rear



REMOTE CONTROL



Infrared remote control with temperature sensor inside

Technical data

PRODUCT NAME	Units	MAGICO 9.2
Features		Cooling
Cooling capacity (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	2,73 / 2,57
	BTU/h	9.300 / 8.800
	kcal/h	2.350 / 2.210
Energy label class	ABCDEFGF	A / A
E.E.R. (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	(kW/kW)	2,62 / 2,78
Air flowrate (h.m.l.)	m ³ /h	310-280-260
Dehumidification in Cooling (C) mode	l/h	1,25
Dehumidification in Dry (D) mode (30°C - 80% r.h.)	l/24h	51
Fan speeds (C) / (D)	n°	3 + Auto / 1
Sound pressure (h.l.)	dB(A)	44-41
Power supply	V/F/Hz	230/1/50
Running consumption (C) (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	1,040 / 0,925
Annual energy consumption (C) (500h)-Dir. 2002/31/CE	kWh	520 / 462
Refrigerant type		R410A
Hole in the window (diameter)	mm	138
Flexible exhaust tube (diameter)	mm	115
Flexible exhaust tube (extended length)	m	1
Net weight	Kg	34
Net dimension (H./W./D.)	mm	965x530x410

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

SINGLE-DUCT PORTABLE R410A



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Mythiko



Air conditioner or dehumidifier only, it is useful in all year seasons

Weekly programmable digital timer and electronic thermostat

Two-speed fan

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the pipe for the elimination of the hot air; this function, operating at maximum fan speed, avoids stops due to tank filling, particularly annoying during the night

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Useful cable winding space on the rear

Optional porthole kit for windows

DIGITAL TIMER



Weekly programmable digital timer

Technical data

MODELLO	Units	MYTHIKO
Features		Cooling
Cooling capacity (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	2,25 / 2,06
	BTU/h	7.680 / 7.030
	kcal/h	1.935 / 1.770
Energy label class	ABCDEFG	A / A
E.E.R. (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	(kW/kW)	2,81 / 2,94
Air flowrate (h.l.)	m ³ /h	310-260
Dehumidification in Cooling (C) mode	l/h	1,0
Dehumidification in Dry (D) mode (30°C - 80% r.h.)	l/24h	42
Fan speeds (C) / (D)	n°	2 / 1
Sound pressure (h.l.)	dB(A)	44-41
Power supply	V/F/Hz	230/1/50
Running consumption (C) (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	0,800 / 0,700
Annual energy consumption (C) (500h)-Dir. 2002/31/CE	kWh	400 / 350
Refrigerant type		R410A
Hole in the window (diameter)	mm	138
Flexible exhaust tube (diameter)	mm	115
Flexible exhaust tube (extended lenght)	m	1
Net weight	Kg	30
Net dimension (H./W./D.)	mm	860x482x376

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

SINGLE-DUCT PORTABLE R410A



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Oscar Chrome A



Air conditioner or dehumidifier only, it is useful in all year seasons

Weekly programmable digital timer and electronic thermostat

Two-speed fan

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the pipe for the elimination of the hot air; this function, operating at maximum fan speed, avoids stops due to tank filling, particularly annoying during the night

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Useful cable winding space on the rear

DIGITAL TIMER



Weekly programmable digital timer

Technical data

PRODUCT NAME	OSCAR CHROME A plus	
Features	Units	Cooling
Cooling capacity (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	2,20 / 2,10
	BTU/h	7.500 / 7.200
	kcal/h	1.890 / 1.810
Energy label class	ABCDEFGF	A / A
E.E.R. (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	(kW/kW)	2,75 / 3,00
Air flowrate (h.l.)	m ³ /h	310-260
Dehumidification in Cooling (C) mode	l/h	1,0
Dehumidification in Dry (D) mode (30°C - 80% r.h.)	l/24h	42
Fan speeds (C) / (D)	n°	2 / 1
Sound pressure (h.l.)	dB(A)	44-41
Power supply	V/F/Hz	230/1/50
Running consumption (C) (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	0,800 / 0,700
Annual energy consumption (C) (500h)-Dir. 2002/31/CE	kWh	400 / 350
Refrigerant type		R410A
Hole in the window (diameter)	mm	138
Flexible exhaust tube (diameter)	mm	115
Flexible exhaust tube (extended length)	m	1
Net weight	Kg	30
Net dimension (H./W./D.)	mm	870x450x363

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

SINGLE-DUCT PORTABLE R410A



improve your life

Oscar Super A



Air conditioner or dehumidifier only, it is useful in all year seasons

Weekly programmable digital timer and electronic thermostat

Two-speed fan

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the pipe for the elimination of the hot air; this function, operating at maximum fan speed, avoids stops due to tank filling, particularly annoying during the night

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Useful cable winding space on the rear

DIGITAL TIMER



Weekly programmable digital timer

Technical data

PRODUCT NAME	OSCAR SUPER A plus	
Features	Units	Cooling
	kW	2,20 / 2,10
Cooling capacity (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	BTU/h	7.500 / 7.200
	kcal/h	1.890 / 1.810
Energy label class	ABCDEFG	A / A
E.E.R. (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	(kW/kW)	2,75 / 3,00
Air flowrate (h.l.)	m ³ /h	310-260
Dehumidification in Cooling (C) mode	l/h	1,0
Dehumidification in Dry (D) mode (30°C - 80% r.h.)	l/24h	42
Fan speeds (C) / (D)	n°	2 / 1
Sound pressure (h.l.)	dB(A)	44-41
Power supply	V/F/Hz	230/1/50
Running consumption (C) (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	0,800 / 0,700
Annual energy consumption (C) (500h)-Dir. 2002/31/CE	kWh	400 / 350
Refrigerant type		R410A
Hole in the window (diameter)	mm	138
Flexible exhaust tube (diameter)	mm	115
Flexible exhaust tube (extended length)	m	1
Net weight	Kg	30
Net dimension (H./W./D.)	mm	870x450x363

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

SINGLE-DUCT PORTABLE R410A



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Oscar Junior



Portable air conditioner with frontal air-intake, making possible its placement even between two walls

Two-speed fan

High-capacity tank for condensate, easy to extract

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Useful cable winding space on the rear

Technical data

PRODUCT NAME	Units	OSCAR JUNIOR
Features		Cooling
	kW	1,88 / 1,80
Cooling capacity (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	BTU/h	6.400 / 6.200
	kcal/h	1.620 / 1.550
Energy label class	ABCDEFGF	C / B
E.E.R. (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	(kW/kW)	2,22 / 2,50
Air flowrate (h.l.)	m ³ /h	290-220
Dehumidification	l/h	0,45
Fan speeds	n°	2
Sound pressure (h.l.)	dB(A)	43-40
Power supply	V/F/Hz	230/1/50
Running consumption (35°C d.b.; 24°C w.b.) / (27°C d.b.; 19°C w.b.)	kW	0,845 / 0,720
Annual energy consumption (500h)-Dir. 2002/31/CE	kWh	422 / 360
Refrigerant type		R410A
Hole in the window (diameter)	mm	138
Flexible exhaust tube (diameter)	mm	115
Flexible exhaust tube (extended length)	m	1
Net weight	Kg	30
Net dimension (H./W./D.)	mm	961x455x356

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

SPLIT PORTABLE R410A



improve your life

Oscar Twin 9 A / 11 A / 14 A

Split portable air conditioner, with a small condensing case, specifically projected to be placed on balcony or window

Weekly programmable digital timer and electronic thermostat (Oscar Twin 9A)

Infrared remote control with 4 digital timers to be set on the 24h and week-end, night set back, start-up of air-conditioning or dehumidifying or ventilation only modes, temperature digital adjustment and room temperature control by a special sensor inside the remote control. Double temperature sensor (on remote control / on indoor unit) (Oscar Twin 11A/14A)

Two-speed fan (Oscar Twin 9A), three-speed fan (Oscar Twin 11A/14A)

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4m)



TIMER DIGITALE



Weekly programmable digital timer
(Oscar Twin 9A)

AEROQUIP



"Aeroquip"
quick connectors

TELECOMANDO



Infrared remote control with
temperature sensor
(Oscar Twin11A/14A)

Technical data

PRODUCT NAME		OSCAR TWIN 9A	OSCAR TWIN 11A	OSCAR TWIN 14A
Features	Units	Cooling	Cooling	Cooling
Cooling capacity	kW	2,65	2,91	4,01
	BTU/h	9.040	9.920	13.670
Energy label class	kcal/h	2.280	2.500	3.450
	ABCDEF	A	A	A
E.E.R.	(kW/kW)	3,23	3,26	3,21
Air flowrate (h.l.)	m ³ /h	420-300	420-300	460-350
Dehumidification	l/h	0,8	1,0	1,6
Fan speeds (Indoor / Outdoor)	n°	2/1	3 + Auto / 1	3 + Auto / 1
Sound pressure Indoor (h.l.)	dB(A)	38-31	39-32	40-33
Sound pressure Outdoor (h.)	dB(A)	47	47	45
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Running consumption	kW	0,820	0,890	1,250
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	410	445	625
Refrigerant type		R410A	R410A	R410A
Standard pipe lenght	m	2	2	2
Additional pipe lenght	m	2-4	2-4	2-4
Max. height between units (Outdoor on the top)	m	1,2	1,2	1,2
Max. height between units (Indoor on the top)	m	5,2	5,2	5,2
Net weight Indoor / Outdoor	Kg	39/8,5	40/9,5	41/13
Net dimension Indoor (H./W./D.)	mm	800x470x310	800x470x310	800x470x310
Net dimension Outdoor (H./W./D.)	mm	435x440x230	435x440x230	490x525x250

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

FLOOR SPLIT R410A



improve your life

Ulisse 10CL A

Floor split air conditioner realized in only 24 cm of depth, suitable for fixed or moveable installations

Small condensing case, specifically projected to be placed on balcony or window

Infrared remote control with 4 digital timers to be set on the 24h and week-end, night set back, start-up of air-conditioning or dehumidifying or ventilation only modes, temperature digital adjustment and room temperature control by a special sensor inside the remote control

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature

Dry function

Three-speed fan by remote control

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4m)



REMOTE CONTROL



Infrared remote control with temperature sensor

Technical data

PRODUCT NAME	ULISSE 10CLA	
Features	Units	Cooling
	kW	2,98
Cooling capacity	BTU/h	10.160
	kcal/h	2.560
Energy label class	ABCDEFGF	A
E.E.R.	(kW/kW)	3,22
Air flowrate (h.l.)	m ³ /h	370
Dehumidification	l/h	1,2
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1
Sound pressure Indoor (h.m.l.)	dB(A)	36-33-32
Sound pressure Outdoor (h.)	dB(A)	47
Power supply	V/Ph/Hz	230/1/50
Running consumption	kW	0,925
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	463
Refrigerant type		R410A
Standard pipe lenght	m	2
Additional pipe lenght	m	2-4
Max. height between units (Outdoor on the top)	m	1,2
Max. height between units (Indoor on the top)	m	5,2
Net weight Indoor / Outdoor	Kg	44/9,5
Net dimension Indoor (H./W./D.)	mm	790x580x245
Net dimension Outdoor (H./W./D.)	mm	435x440x230

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

FLOOR SPLIT R410A



improve your life

Ulisse 13 CL A

Floor split air conditioner realized in only 24 cm of depth, suitable for fixed or moveable installations

Small condensing case, specifically projected to be placed on balcony or window

Infrared remote control with 4 digital timers to be set on the 24h and week-end, night set back, start-up of air-conditioning or dehumidifying or ventilation only modes, temperature digital adjustment and room temperature control by a special sensor inside the remote control

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature

Dry function

Three-speed fan by remote control

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4m)



REMOTE CONTROL



Infrared remote control with temperature sensor

Technical data

PRODUCT NAME	ULISSE 13CLA	
Features	Units	Cooling
	kW	3,98
Cooling capacity	BTU/h	13.570
	kcal/h	3.420
Energy label class	ABCDEFG	A
E.E.R.	(kW/kW)	3,21
Air flowrate (h.l.)	m ³ /h	450
Dehumidification	l/h	1,5
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1
Sound pressure Indoor (h.m.l.)	dB(A)	37-34-33
Sound pressure Outdoor (h.)	dB(A)	45
Power supply	V/Ph/Hz	230/1/50
Running consumption	kW	1,240
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	620
Refrigerant type		R410A
Standard pipe lenght	m	2
Additional pipe lenght	m	2-4
Max. height between units (Outdoor on the top)	m	1,2
Max. height between units (Indoor on the top)	m	5,2
Net weight Indoor / Outdoor	Kg	44/15
Net dimension Indoor (H./W./D.)	mm	790x580x245
Net dimension Outdoor (H./W./D.)	mm	490x525x250

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

FLOOR SPLIT R410A



improve your life

Ulisse 10 HL A

Floor split straight cooling and heat pump air conditioner

Realized in only 24 cm of depth, suitable for fixed or moveable floor installations

Small condensing case, specifically projected to be placed on balcony or window

Infrared remote control with 4 digital timers to be set on the 24h and week-end, night set back, start-up of air-conditioning or dehumidifying or ventilation only modes, temperature digital adjustment and room temperature control by a special sensor inside the remote control

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature

Dry function

Three-speed fan by remote control

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4m)



REMOTE CONTROL



Infrared remote control with temperature sensor

Dati tecnici

PRODUCT NAME	ULISSE 10HLA		
	Units	Raffrescamento	Riscaldamento
Features	kW	2,98	3,34
Cooling capacity	BTU/h	10.160	11.390
	kcal/h	2.560	2.870
	Energy label class	ABCDEFG	A
E.E.R.	(kW/kW)	3,22	3,67
Air flowrate (h.l.)	m ³ /h		370
Dehumidification	l/h		1,2
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	36-33-32	
Sound pressure Outdoor (h.)	dB(A)	45	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,925	0,910
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	463	
Refrigerant type			R410A
Standard pipe lenght	m		2
Additional pipe lenght	m		2-4
Max. height between units (Outdoor on the top)	m		1,2
Max. height between units (Indoor on the top)	m		5,2
Net weight Indoor / Outdoor	Kg		44/15
Net dimension Indoor (H./W./D.)	mm		790x580x245
Net dimension Outdoor (H./W./D.)	mm		490x525x250

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC



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SPLIT ON-OFF R410A

HIGH WALL – ON/OFF R410A



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AW22 AC/ACL/AH

PRODUCT NAME		AW22AL		AW22AL		AW22AL	
Indoor unit		AE22AC		AE22ACL		AE22AH	
Outdoor unit		AE22AC		AE22ACL		AE22AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,32	-	2,32	-	2,32	2,44
	BTU/h	7.920	-	7.920	-	7.920	8.320
	kcal/h	2.000	-	2.000	-	2.000	2.095
Energy label class	ABCDEFGF	A	-	A	-	A	A
E.E.R. / C.O.P.	(kW/kW)	3,41	-	3,41	-	3,41	3,67
Air flowrate Indoor (h.m.l.)	m ³ /h	380-320-280		380-320-280		380-320-280	
Dehumidification	l/h	0,8		0,8		0,8	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1	
Sound pressure Indoor (h.m.l.)	dB(A)	36-32-30		36-32-30		36-32-30	
Sound pressure Outdoor (h.)	dB(A)	36		36		37	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,680	-	0,680	-	0,680	0,665
Annual energy cons. - cooling mode (500h) - Directive 2002/31/CE	kWh	340	-	340	-	340	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Max. pipe length with gas standard charge	m	7,5		7,5		7,5	
Max. pipe length with gas additional charge	m	15		15		15	
Gas additional charge	gr/m	15		15		15	
Max. height between units (Outdoor on top)	m	7		7		7	
Max. height between units (Indoor on top)	m	7		7		7	
Net weight Indoor / Outdoor	Kg	11/31		11/31		11/32	
Net dimension Indoor (H./W./D.)	mm	285x810x190		285x810x190		285x810x190	
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)

Automatic change-over between cooling and heating modes (AW22AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed tangential fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AW22AH)

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

HIGH WALL – ON/OFF R410A



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AW28 AC/ACL/AH

PRODUCT NAME		AW28AL		AW28AL		AW28AL		
Indoor unit		AE28AC		AE28ACL		AE28AH		
Outdoor unit		AE28AC		AE28ACL		AE28AH		
Features		Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,75	-	-	2,75	-	2,75	2,85
	BTU/h	9.380	-	-	9.380	-	9.380	9.720
	kcal/h	2.370	-	-	2.370	-	2.370	2.460
Energy label class	ABCDEFG	A	-	-	A	-	A	D
E.E.R. / C.O.P.	(kW/kW)	3,44	-	-	3,44	-	3,44	3,20
Air flowrate Indoor (h.m.l.)	m ³ /h	450-380-330		450-380-330		450-380-330		
Dehumidification	l/h	1,1		1,1		1,1		
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1		
Sound pressure Indoor (h.m.l.)	dB(A)	40-37-35		40-37-35		40-37-35		
Sound pressure Outdoor (h.)	dB(A)	38		38		40		
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50		
Running consumption	kW	0,800	-	-	0,800	-	0,880	0,890
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	400	-	-	400	-	400	-
Compressor type		Rotary		Rotary		Rotary		
Refrigerant type		R410A		R410A		R410A		
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")		
Gas pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")		
Max. pipe lenght with gas standard charge	m	7,5		7,5		7,5		
Max. pipe lenght with gas additional charge	m	15		15		15		
Gas additional charge	gr/m	10		10		10		
Max. height between units (Outdoor on top)	m	7		7		7		
Max. height between units (Indoor on top)	m	7		7		7		
Net weight Indoor / Outdoor	Kg	11/34		11/34		11/35		
Net dimension Indoor (H./W./D.)	mm	285x810x190		285x810x190		285x810x190		
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290		

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)
- Automatic change-over between cooling and heating modes (AW28AH)
- Infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed tangential fan by remote control
- Night set back capability
- Heating function disabled during defrosting cycle (AW28AH)
- Horizontal flap swinging or to be set to a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- High efficiency rotary compressor

HIGH WALL - ON/OFF R410A



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AW38 AC/ACL/AH

PRODUCT NAME		AW38AL		AW38AL		AW38AL		
Indoor unit		AE38AC		AE38ACL		AE38AH		
Outdoor unit		AE38AC		AE38ACL		AE38AH		
Features		Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	3,63	-	3,63	-	3,63	4,00	
	BTU/h	12.380	-	12.380	-	12.380	13.640	
Energy label class	kcal/h	3.120	-	3.120	-	3.120	3.440	
	ABCDEF	A	-	A	-	A	B	
E.E.R. / C.O.P.	(kW/kW)	3,26	-	3,26	-	3,26	3,51	
Air flowrate Indoor (h.m.l.)	m ³ /h	635-550-450		635-550-450		635-550-450		
Dehumidification	l/h	1,5		1,5		1,5		
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1		
Sound pressure Indoor (h.m.l.)	dB(A)	47-44-40		47-44-40		47-44-40		
Sound pressure Outdoor (h.)	dB(A)	42		42		44		
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50		
Running consumption	kW	1,115	-	1,115	-	1,115	1,140	
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	558	-	558	-	558	-	
Compressor type		Rotary		Rotary		Rotary		
Refrigerant type		R410A		R410A		R410A		
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")		
Gas pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")		
Max. pipe lenght with gas standard charge	m	7,5		7,5		7,5		
Max. pipe lenght with gas additional charge	m	15		15		15		
Gas additional charge	gr/m	12		12		12		
Max. height between units (Outdoor on top)	m	7		7		7		
Max. height between units (Indoor on top)	m	7		7		7		
Net weight Indoor / Outdoor	Kg	11/35		11/35		11/36		
Net dimension Indoor (H./W./D.)	mm	285x810x190		285x810x190		285x810x190		
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290		

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)

Automatic change-over between cooling and heating modes (AW38AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed tangential fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AW38AH)

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

HIGH WALL - ON/OFF R410A



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AW42 AC/ACL/AH

PRODUCT NAME		AW42AL		AW42AL		AW42AL	
Indoor unit		AE42AC		AE42ACL		AE42AH	
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	4,00	-	4,00	-	4,00	4,48
	BTU/h	13.640	-	13.640	-	13.640	15.280
Energy label class	kcal/h	3.440	-	3.440	-	3.440	3.850
	ABCDEF	B	-	B	-	B	C
E.E.R. / C.O.P.	(kW/kW)	3,01	-	3,01	-	3,01	3,21
Air flowrate Indoor (h.m.l.)	m ³ /h	660-550-475		660-550-475		660-550-475	
Dehumidification	l/h	1,5		1,5		1,5	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1	
Sound pressure Indoor (h.m.l.)	dB(A)	47-42-37		47-42-37		47-42-37	
Sound pressure Outdoor (h.)	dB(A)	43		43		44	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	1,330	-	1,330	-	1,330	1,395
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	665	-	665	-	665	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	7,5		7,5		7,5	
Max. pipe lenght with gas additional charge	m	15		15		15	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	7		7		7	
Max. height between units (Indoor on top)	m	7		7		7	
Net weight Indoor / Outdoor	Kg	11,5/41,5		11,5/41,5		11,5/42	
Net dimension Indoor (H./W./D.)	mm	285x810x190		285x810x190		285x810x190	
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)

Automatic change-over between cooling and heating modes (AW42AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed tangential fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AW42AH)

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

HIGH WALL – ON/OFF R410A



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AW52 AC/ACL/AH

PRODUCT NAME		AW52AL		AW52AL		AW52AL	
Indoor unit		AE52AC		AE52ACL		AE52AH	
Outdoor unit		AE52AC		AE52ACL		AE52AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,50	-	5,50	-	5,50	5,56
	BTU/h	18760	-	18760	-	18.760	18.960
	kcal/h	4.730	-	4.730	-	4.730	4.780
Energy label class	ABCDEFGF	A	-	A	-	A	B
E.E.R. / C.O.P.	(kW/kW)	3,22	-	3,22	-	3,22	3,46
Air flowrate Indoor (h.m.l.)	m ³ /h	930-840-750		930-840-750		930-840-750	
Dehumidification	l/h	1,8		1,8		1,8	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1	
Sound pressure Indoor (h.m.l.)	dB(A)	47-44-41		47-44-41		42-39-34	
Sound pressure Outdoor (h.)	dB(A)	48		48		48	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	1,690	-	1,690	-	1,690	1,600
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	845	-	845	-	845	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	10		10		10	
Max. pipe lenght with gas additional charge	m	25		25		25	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / Outdoor	Kg	14/56		14/56		14/56	
Net dimension Indoor (H./W./D.)	mm	295x1060x210		295x1060x210		295x1060x210	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)

Automatic change-over between cooling and heating modes (AW52AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed tangential fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AW52AH)

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

HIGH WALL – ON/OFF R410A



improve your life

AW52 AC3/ACL3/AH3

PRODUCT NAME		AW52AL AE52AC3		AW52AL AE52ACL3		AW52AL AE52AH3	
Indoor unit							
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,50	-	5,50	-	5,50	5,56
	BTU/h	18760	-	18760	-	18.760	18.960
	kcal/h	4.730	-	4.730	-	4.730	4.780
Energy label class	ABCDEFGF	A	-	A	-	A	B
E.E.R. / C.O.P.	(kW/kW)	3,22	-	3,22	-	3,22	3,46
Air flowrate Indoor (h.m.l.)	m ³ /h	930-840-750		930-840-750		930-840-750	
Dehumidification	l/h	1,8		1,8		1,8	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1	
Sound pressure Indoor (h.m.l.)	dB(A)	47-44-41		47-44-41		47-44-41	
Sound pressure Outdoor (h.)	dB(A)	48		48		48	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	1,690	-	1,690	-	1,690	1,600
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	845	-	845	-	845	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	10		10		10	
Max. pipe lenght with gas additional charge	m	25		25		25	
Gas additional charge	qr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / Outdoor	Kg	14/56		14/56		14/56	
Net dimension Indoor (H./W./D.)	mm	295x1060x210		295x1060x210		295x1060x210	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)

Three phase power supply (400/3N/50)

Automatic change-over between cooling and heating modes (AW52AH3)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed tangential fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AW52AH3)

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

HIGH WALL – ON/OFF R410A



improve your life



AW64 AC/ACL/AH

PRODUCT NAME		AW64AL AE64AC		AW64AL AE64ACL		AW64AL AE64AH	
Indoor unit							
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	6,81	-	6,81	-	6,81	7,37
	BTU/h	23.220	-	23.220	-	23.220	25.130
	kcal/h	5.860	-	5.860	-	5.860	6.340
Energy label class	ABCDEFG	B	-	B	-	B	D
E.E.R. / C.O.P.	(kW/kW)	3,01	-	3,01	-	3,01	3,07
Air flowrate Indoor (h.m.l.)	m ³ /h	990-930-840		990-930-840		990-930-840	
Dehumidification	l/h	2,66		2,66		2,66	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1	
Sound pressure Indoor (h.m.l.)	dB(A)	49-46-44		49-46-44		49-46-44	
Sound pressure Outdoor (h.)	dB(A)	47		47		47	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	2,260	-	2,260	-	2,260	2,400
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1130	-	1130	-	1130	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")		15,88(5/8")	
Max. pipe lenght with gas standard charge	m	12,5		12,5		12,5	
Max. pipe lenght with gas additional charge	m	20		20		20	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / Outdoor	Kg	15/74		15/74		15/74	
Net dimension Indoor (H./W./D.)	mm	295x1060x210		295x1060x210		295x1060x210	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)

Automatic change-over between cooling and heating modes (AW64AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed tangential fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AW64AH)

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

HIGH WALL – ON/OFF R410A



improve your life

AW64 AC3/ACL3/AH3

PRODUCT NAME		AW64AL AE64AC3		AW64AL AE64ACL3		AW64AL AE64AH3	
Indoor unit							
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	6,81	-	6,81	-	6,81	7,37
	BTU/h	23.220	-	23.220	-	23.220	25.130
	kcal/h	5.860	-	5.860	-	5.860	6.340
Energy label class	ABCDEFGF	B	-	B	-	B	D
E.E.R. / C.O.P.	(kW/kW)	3,01	-	3,01	-	3,01	3,07
Air flowrate Indoor (h.m.l.)	m ³ /h	990-930-840		990-930-840		990-930-840	
Dehumidification	l/h	2,66		2,66		2,66	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1		3 + Auto/1		3 + Auto/1	
Sound pressure Indoor (h.m.l.)	dB(A)	49-46-44		49-46-44		49-46-44	
Sound pressure Outdoor (h.)	dB(A)	47		47		47	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	2,260	-	2,260	-	2,260	2,400
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1130	-	1130	-	1130	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")		15,88(5/8")	
Max. pipe lenght with gas standard charge	m	12,5		12,5		12,5	
Max. pipe lenght with gas additional charge	m	20		20		20	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / Outdoor	Kg	15/74		15/74		15/74	
Net dimension Indoor (H./W./D.)	mm	295x1060x210		295x1060x210		295x1060x210	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Straight cooling and heat pump air conditioner, available in standard and low ambient mode (up to -10°C)

Three phase power supply (400/3N/50)

Automatic change-over between cooling and heating modes (AW64AH3)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed tangential fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AW64AH3)

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

CASSETTE – ON/OFF R410A



improve your life



AS28 AC/ACL/AH

PRODUCT NAME		AS28AL		AS28AL		AS28AL		
Indoor unit		AE28AC		AE28ACL		AE28AH		
Outdoor unit		AE28AC		AE28ACL		AE28AH		
Features		Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,68	-	2,68	-	2,68	3,22	
	BTU/h	9.140	-	9.140	-	9.140	10.980	
Energy label class	kcal/h	2.300	-	2.300	-	2.300	2.770	
	ABCDEFG	A	-	A	-	A	B	
E.E.R. / C.O.P.	(kW/kW)	3,21	-	3,21	-	3,21	3,54	
Air flowrate Indoor (h.m.l.)	m ³ /h	700-600-500		700-600-500		700-600-500		
Dehumidification	l/h	0,5		0,5		0,5		
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1		
Sound pressure Indoor (h.m.l.)	dB(A)	43-39-36		43-39-36		43-39-36		
Sound pressure Outdoor (h.)	dB(A)	38		38		40		
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50		
Running consumption	kW	0,835	-	0,835	-	0,835	0,910	
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	418	-	418	-	418	-	
Compressor type		Rotary		Rotary		Rotary		
Refrigerant type		R410A		R410A		R410A		
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")		
Gas pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")		
Max. pipe lenght with gas standard charge	m	7,5		7,5		7,5		
Max. pipe lenght with gas additional charge	m	15		15		15		
Gas additional charge	gr/m	10		10		10		
Max. height between units (Outdoor on top)	m	7		7		7		
Max. height between units (Indoor on top)	m	7		7		7		
Net weight Indoor / grille / Outdoor	Kg	16,5/2,5/35		16,5/2,5/35		16,5/2,5/35		
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575		273x575x575		
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730		64x730x730		
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290		

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Cassette straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)

Automatic change-over between cooling and heating modes (AS28AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AS28AH)

Four horizontal flaps swinging by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Auto restart after a power supply black out

Electronic protection against over-pressures

Single duct capability to move air conditioned in a near room

High efficiency rotary compressor

CASSETTE- ON/OFF R410A



improve your life

AS38 AC/ACL/AH

PRODUCT NAME		AS38AL		AS38AL		AS38AL	
Indoor unit		AE38AC		AE38ACL		AE38AH	
Outdoor unit		AE38AC		AE38ACL		AE38AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	3,50	-	3,50	-	3,50	3,89
	BTU/h	11.940	-	11.940	-	11.940	13.270
	kcal/h	3.010	-	3.010	-	3.010	3.345
Energy label class	ABCDEFGF	B	-	B	-	B	D
E.E.R. / C.O.P.	(kW/kW)	3,07	-	3,07	-	3,07	3,11
Air flowrate Indoor (h.m.l.)	m ³ /h	700-600-500		700-600-500		700-600-500	
Dehumidification	l/h	1,0		1,0		1,0	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	43-39-36		43-39-36		43-39-36	
Sound pressure Outdoor (h.)	dB(A)	42		42		44	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	1,140	-	1,140	-	1,140	1,250
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	570	-	570	-	570	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Max. pipe lenght with gas standard charge	m	7,5		7,5		7,5	
Max. pipe lenght with gas additional charge	m	15		15		15	
Gas additional charge	gr/m	12		12		12	
Max. height between units (Outdoor on top)	m	7		7		7	
Max. height between units (Indoor on top)	m	7		7		7	
Net weight Indoor / grille / Outdoor	Kg	16,5/2,5/35		16,5/2,5/35		16,5/2,5/36	
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575		273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730		64x730x730	
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Cassette straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)

Automatic change-over between cooling and heating modes (AS38AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AS38AH)

Four horizontal flaps swinging by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Auto restart after a power supply black out

Electronic protection against over-pressures

Single duct capability to move air conditioned in a near room

High efficiency rotary compressor

CASSETTE – ON/OFF R410A



improve your life



AS52 AC/ACL/AH

PRODUCT NAME		AS52AL		AS52AL		AS52AL	
Indoor unit		AE52AC		AE52ACL		AE52AH	
Outdoor unit		AE52AC		AE52ACL		AE52AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,50	-	5,50	-	5,50	5,90
	BTU/h	18.760	-	18.760	-	18.760	20.120
	kcal/h	4.730	-	4.730	-	4.730	5.075
Energy label class	ABCDEF	A	-	A	-	A	C
E.E.R. / C.O.P.	(kW/kW)	3,24	-	3,24	-	3,24	3,28
Air flowrate Indoor (h.m.l.)	m ³ /h	750-630-550		750-630-550		750-630-530	
Dehumidification	l/h	2,3		2,3		2,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	44-39-36		44-39-36		44-39-36	
Sound pressure Outdoor (h.)	dB(A)	48		48		48	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	1,700	-	1,700	-	1,700	1,800
Annual energy cons. - cooling mode (500h) - Directive 2002/31/CE	kWh	850	-	850	-	850	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe length with gas standard charge	m	10		10		10	
Max. pipe length with gas additional charge	m	25		25		25	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / grille / Outdoor	Kg	18/2,5/56		18/2,5/56		18/2,5/56	
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575		273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730		64x730x730	
Net dimension Outdoor (H./W./D.)	mm	690x846x302		690x846x302		690x846x302	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Cassette straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)

Automatic change-over between cooling and heating modes (AS52AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AS52AH)

Four horizontal flaps swinging by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Auto restart after a power supply black out

Electronic protection against over-pressures

Single duct capability to move air conditioned in a near room

High efficiency rotary compressor

CASSETTE- ON/OFF R410A



improve your life

AS52 AC3/ACL3/AH3

PRODUCT NAME		AS52AL		AS52AL		AS52AL	
Indoor unit		AE52AC3		AE52ACL3		AE52AH3	
Outdoor unit		AE52AC3		AE52ACL3		AE52AH3	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,50	-	5,50	-	5,50	5,90
	BTU/h	18.760	-	18.760	-	18.760	20.120
	kcal/h	4.730	-	4.730	-	4.730	5.075
Energy label class	ABCDEFG	A	-	A	-	A	C
E.E.R. / C.O.P.	(kW/kW)	3,24	-	3,24	-	3,24	3,28
Air flowrate Indoor (h.m.l.)	m ³ /h	750-630-550		750-630-550		750-630-530	
Dehumidification	l/h	2,3		2,3		2,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	44-39-36		44-39-36		44-39-36	
Sound pressure Outdoor (h.)	dB(A)	48		48		48	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	1,700	-	1,700	-	1,700	1,800
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	850	-	850	-	850	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	10		10		10	
Max. pipe lenght with gas additional charge	m	25		25		25	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / grille / Outdoor	Kg	18/2,5/56		18/2,5/56		18/2,5/56	
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575		273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730		64x730x730	
Net dimension Outdoor (H./W./D.)	mm	690x846x302		690x846x302		690x846x302	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Cassette straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)

Three phase power supply (400/3N/50)

Automatic change-over between cooling and heating modes (AS52AH3)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control

Night set back capability

Heating function disabled during defrosting cycle (AS52AH3)

Four horizontal flaps swinging by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Auto restart after a power supply black out

Electronic protection against over-pressures

Single duct capability to move air conditioned in a near room

High efficiency rotary compressor

SPLIT FLOOR – ON/OFF R410A



improve your life



AF28 AC/ACL/AH

PRODUCT NAME		AF28AL		AF28AL		AF28AL	
Indoor unit		AE28AC		AE28ACL		AE28AH	
Outdoor unit		AE28AC		AE28ACL		AE28AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,66	-	2,66	-	2,66	3,04
	BTU/h	9,070	-	9,070	-	9,070	10,370
	kcal/h	2,290	-	2,290	-	2,290	2,615
Energy label class	ABCDEFG	A	-	A	-	A	C
E.E.R. / C.O.P.	(kW/kW)	3,37	-	3,37	-	3,37	3,34
Air flowrate Indoor (h.m.l.)	m ³ /h	400-360-300	-	400-360-300	-	400-360-300	-
Dehumidification	l/h	1,0	-	1,0	-	1,0	-
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/1	-	3 + Auto/1	-	3 + Auto/1	-
Sound pressure Indoor (h.m.l.)	dB(A)	43-40-34	-	43-40-34	-	43-40-34	-
Sound pressure Outdoor (h.)	dB(A)	38	-	38	-	40	-
Power supply	V/Ph/Hz	230/1/50	-	230/1/50	-	230/1/50	-
Running consumption	kW	0,790	-	0,790	-	0,790	0,910
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	395	-	395	-	395	-
Compressor type		Rotary	-	Rotary	-	Rotary	-
Refrigerant type		R410A	-	R410A	-	R410A	-
Liquid pipe diameter	mm(inch")	6,35(1/4")	-	6,35(1/4")	-	6,35(1/4")	-
Gas pipe diameter	mm(inch")	9,52(3/8")	-	9,52(3/8")	-	9,52(3/8")	-
Max. pipe lenght with gas standard charge	m	7,5	-	7,5	-	7,5	-
Max. pipe lenght with gas additional charge	m	15	-	15	-	15	-
Gas additional charge	gr/m	10	-	10	-	10	-
Max. height between units (Outdoor on top)	m	7	-	7	-	7	-
Max. height between units (Indoor on top)	m	7	-	7	-	7	-
Net weight Indoor / Outdoor	Kg	18,6/35	-	18,6/35	-	18,6/35	-
Net dimension Indoor (H./W./D.)	mm	700x560x200	-	700x560x200	-	700x560x200	-
Net dimension Outdoor (H./W./D.)	mm	610x795x290	-	610x795x290	-	610x795x290	-

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Floor straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)
- Automatic change-over between cooling and heating modes (AF28AH)
- Infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed tangential fan by remote control
- Horizontal and vertical flap by manual control
- Night set back capability
- Heating function disabled during defrosting cycle (AF28AH)
- Anti-mould and anti-bacteria washable filters
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- High efficiency rotary compressor

FLOOR/CEILING – ON/OFF R410A



improve your life

FC38 AC/ACL/AH

PRODUCT NAME		FC38AL		FC38AL		FC38AL	
Indoor unit		AE38AC		AE38ACL		AE38AH	
Outdoor unit		AE38AC		AE38ACL		AE38AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	3,60	-	3,60	-	3,60	4,00
	BTU/h	12.280	-	12.280	-	12.280	13.640
	kcal/h	3.096	-	3.096	-	3.096	3.440
Energy label class	ABCDEFGF	A	-	A	-	A	C
E.E.R. / C.O.P.	(kW/kW)	3,21	-	3,21	-	3,21	3,23
Air flowrate Indoor (h.m.l.)	m ³ /h	700-590-500	-	700-590-500	-	700-590-500	-
Dehumidification	l/h	1,3	-	1,3	-	1,3	-
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1	-	3 + Auto / 1	-	3 + Auto / 1	-
Sound pressure Indoor (h.m.l.)	dB(A)	47-43-38	-	47-43-38	-	47-43-38	-
Sound pressure Outdoor (h.)	dB(A)	42	-	42	-	44	-
Power supply	V/Ph/Hz	230/1/50	-	230/1/50	-	230/1/50	-
Running consumption	kW	1,120	-	1,120	-	1,120	1,240
Annual energy cons.- cooling mode (500h) - Directive 2002/3	kWh	560	-	560	-	560	-
Compressor type		Rotary	-	Rotary	-	Rotary	-
Refrigerant type		R410A	-	R410A	-	R410A	-
Liquid pipe diameter	mm(inch")	6,35(1/4")	-	6,35(1/4")	-	6,35(1/4")	-
Gas pipe diameter	mm(inch")	9,52(3/8")	-	9,52(3/8")	-	9,52(3/8")	-
Max. pipe lenght with gas standard charge	m	7,5	-	7,5	-	7,5	-
Max. pipe lenght with gas additional charge	m	15	-	15	-	15	-
Gas additional charge	gr/m	12	-	12	-	12	-
Max. height between units (Outdoor on top)	m	7	-	7	-	7	-
Max. height between units (Indoor on top)	m	7	-	7	-	7	-
Net weight Indoor / Outdoor	Kg	23,5/36	-	23,5/36	-	23,5/36	-
Net dimension Indoor (H./W./D.)	mm	680x900x190	-	680x900x190	-	680x900x190	-
Net dimension Outdoor (H./W./D.)	mm	610x795x290	-	610x795x290	-	610x795x290	-

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Floor/Ceiling straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)

Automatic change-over between cooling and heating modes (FC38AH)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control

Horizontal flap swinging by remote control

Vertical flap by manual control

Night set back capability

Heating function disabled during defrosting cycle (FC38AH)

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

FLOOR/CEILING – ON/OFF R410A



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FC52 AC/ACL/AH

PRODUCT NAME		FC52AL		FC52AL		FC52AL	
Indoor unit		AE52AC		AE52ACL		AE52AH	
Outdoor unit		AE52AC		AE52ACL		AE52AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,65	-	5,65	-	5,65	6,00
	BTU/h	19.270	-	19.270	-	19.270	20.460
	kcal/h	4.860	-	4.860	-	4.860	5.160
Energy label class	ABCDEFGF	A	-	A	-	A	C
E.E.R. / C.O.P.	(kW/kW)	3,32	-	3,32	-	3,32	3,35
Air flowrate Indoor (h.m.l.)	m ³ /h	800-700-590		800-700-590		800-700-590	
Dehumidification	l/h	2,3		2,3		2,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	51-47-43		51-47-43		51-47-43	
Sound pressure Outdoor (h.)	dB(A)	48		48		48	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	1,700	-	1,700	-	1,700	1,790
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	850	-	850	-	850	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	10		10		10	
Max. pipe lenght with gas additional charge	m	25		25		25	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / Outdoor	Kg	23,5/56		23,5/56		23,5/56	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190		680x900x190	
Net dimension Outdoor (H./W./D.)	mm	690x846x302		690x846x302		690x846x302	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Floor/Ceiling straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)
- Automatic change-over between cooling and heating modes (FC52AH)
- Infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed centrifugal fan by remote control
- Horizontal flap swinging by remote control
- Vertical flap by manual control
- Night set back capability
- Heating function disabled during defrosting cycle (FC52AH)
- Anti-mould and anti-bacteria washable filters
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- High efficiency rotary compressor

FLOOR/CEILING – ON/OFF R410A



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FC52 AC3/ACL3/AH3

PRODUCT NAME		FC52AL		FC52AL		FC52AL	
Indoor unit		AE52AC3		AE52ACL3		AE52AH3	
Outdoor unit		AE52AC3		AE52ACL3		AE52AH3	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
	kW	5,65	-	5,65	-	5,65	6,00
	BTU/h	19.270	-	19.270	-	19.270	20.460
	kcal/h	4.860	-	4.860	-	4.860	5.160
Cooling/Heating capacity							
Energy label class	ABCDEF	A	-	A	-	A	C
E.E.R. / C.O.P.	(kW/kW)	3,32	-	3,32	-	3,32	3,35
Air flowrate Indoor (h.m.l.)	m ³ /h	800-700-590		800-700-590		800-700-590	
Dehumidification	l/h	2,3		2,3		2,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	51-47-43		51-47-43		51-47-43	
Sound pressure Outdoor (h.)	dB(A)	48		48		48	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	1,700	-	1,700	-	1,700	1,790
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	850	-	850	-	850	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	10		10		10	
Max. pipe lenght with gas additional charge	m	25		25		25	
Gas additional charge	qr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / Outdoor	Kg	23,5/56		23,5/56		23,5/56	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190		680x900x190	
Net dimension Outdoor (H./W./D.)	mm	690x846x302		690x846x302		690x846x302	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Floor/Ceiling straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)

Three phase power supply (400/3N/50)

Automatic change-over between cooling and heating modes (FC52AH3)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control

Horizontal flap swinging by remote control

Vertical flap by manual control

Night set back capability

Heating function disabled during defrosting cycle (FC52AH3)

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

FLOOR/CEILING – ON/OFF R410A



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FC64 AC/ACL/AH

PRODUCT NAME		FC64AL		FC64AL		FC64AL	
Indoor unit		AE64AC		AE64ACL		AE64AH	
Outdoor unit		AE64AC		AE64ACL		AE64AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	6,80	-	6,80	-	6,80	7,30
	BTU/h	23.190	-	23.190	-	23.190	24.900
	kcal/h	5.850	-	5.850	-	5.850	6.280
Energy label class	ABCDEF	B	-	B	-	B	D
E.E.R. / C.O.P.	(kW/kW)	3,02	-	3,02	-	3,02	3,04
Air flowrate Indoor (h.m.l.)	m ³ /h	840-770-670		840-770-670		840-770-670	
Dehumidification	l/h	3,3		3,3		3,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	52-49-46		52-49-46		52-49-46	
Sound pressure Outdoor (h.)	dB(A)	47		47		47	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	2,250	-	2,250	-	2,250	2,400
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1125	-	1125	-	1125	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")		15,88(5/8")	
Max. pipe lenght with gas standard charge	m	12,5		12,5		12,5	
Max. pipe lenght with gas additional charge	m	20		20		20	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Net weight Indoor / Outdoor	Kg	23,5/74		23,5/74		23,5/74	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190		680x900x190	
Net dimension Outdoor (H./W./D.)	mm	680x900x340		680x900x340		680x900x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Floor/Ceiling straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)
- Automatic change-over between cooling and heating modes (FC64AH)
- Infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed centrifugal fan by remote control
- Horizontal flap swinging by remote control
- Vertical flap by manual control
- Night set back capability
- Heating function disabled during defrosting cycle (FC64AH)
- Anti-mould and anti-bacteria washable filters
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- High efficiency rotary compressor

FLOOR/CEILING – ON/OFF R410A



improve your life

FC64 AC3/ACL3/AH3

PRODUCT NAME		FC64AL		FC64AL		FC64AL	
Indoor unit		AE64AC3		AE64ACL3		AE64AH3	
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
	kW	6,80	-	6,80	-	6,80	7,30
	BTU/h	23.190	-	23.190	-	23.190	24.900
	kcal/h	5.850	-	5.850	-	5.850	6.280
Cooling/Heating capacity							
Energy label class	ABCDEF	B	-	B	-	B	D
E.E.R. / C.O.P.	(kW/kW)	3,02	-	3,02	-	3,02	3,04
Air flowrate Indoor (h.m.l.)	m ³ /h	840-770-670	-	840-770-670	-	840-770-670	-
Dehumidification	l/h	3,3	-	3,3	-	3,3	-
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1	-	3 + Auto / 1	-	3 + Auto / 1	-
Sound pressure Indoor (h.m.l.)	dB(A)	52-49-46	-	52-49-46	-	52-49-46	-
Sound pressure Outdoor (h.)	dB(A)	47	-	47	-	47	-
Power supply	V/Ph/Hz	400/3/50	-	400/3/50	-	400/3/50	-
Running consumption	kW	2,250	-	2,250	-	2,250	2,400
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1125	-	1125	-	1125	-
Compressor type		Rotary	-	Rotary	-	Rotary	-
Refrigerant type		R410A	-	R410A	-	R410A	-
Liquid pipe diameter	mm(inch")	9,52(3/8")	-	9,52(3/8")	-	9,52(3/8")	-
Gas pipe diameter	mm(inch")	15,88(5/8")	-	15,88(5/8")	-	15,88(5/8")	-
Max. pipe lenght with gas standard charge	m	12,5	-	12,5	-	12,5	-
Max. pipe lenght with gas additional charge	m	20	-	20	-	20	-
Gas additional charge	qr/m	20	-	20	-	20	-
Max. height between units (Outdoor on top)	m	15	-	15	-	15	-
Max. height between units (Indoor on top)	m	15	-	15	-	15	-
Net weight Indoor / Outdoor	Kg	23,5/74	-	23,5/74	-	23,5/74	-
Net dimension Indoor (H./W./D.)	mm	680x900x190	-	680x900x190	-	680x900x190	-
Net dimension Outdoor (H./W./D.)	mm	680x900x340	-	680x900x340	-	680x900x340	-

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Floor/Ceiling straight cooling and heat pump air conditioner, available in standard and low ambient mode (-10°C)

Three phase power supply (400/3N/50)

Automatic change-over between cooling and heating modes (FC64AH3)

Infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control

Horizontal flap swinging by remote control

Vertical flap by manual control

Night set back capability

Heating function disabled during defrosting cycle (FC64AH3)

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

DUCTED - ON/OFF R410A



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AD28 AC/ACL/AH

PRODUCT NAME		AD28AL		AD28AL		AD28AL	
Indoor unit		AE28AC		AE28ACL		AE28AH	
Outdoor unit		AE28AC		AE28ACL		AE28AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,68	-	2,68	-	2,68	3,35
	BTU/h	9.140	-	9.140	-	9.140	11.420
	kcal/h	2.300	-	2.300	-	2.300	2.880
Energy label class	ABCDEFG	B	-	B	-	B	A
E.E.R. / C.O.P.	(kW/kW)	3,05	-	3,05	-	3,05	3,76
Air flowrate (h.m.l.)	m ³ /h	600-510-440		600-510-440		600-510-440	
Dehumidification	l/h	0,8		0,8		0,8	
External static pressure (min-max)	mm W.G.	5-7		5-7		5-7	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49		54-52-49		54-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40		45-43-40		45-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	38		38		40	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,880	-	0,880	-	0,880	0,890
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	440	-	440	-	440	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Max. pipe lenght with gas standard charge	m	7,5		7,5		7,5	
Max. pipe lenght with gas additional charge	m	15		15		15	
Gas additional charge	gr/m	10		10		10	
Max. height between units (Outdoor on top)	m	7		7		7	
Max. height between units (Indoor on top)	m	7		7		7	
Duct diameter of the 2-way discharge plenum (optional)	mm	200		200		200	
Net weight Indoor / Indoor with plenum / Outdoor	Kg	30/36/35		30/36/35		30/36/35	
Net dimension Indoor (H./W./D.)	mm	266x926x571		266x926x571		266x926x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x926x771		266x926x771		266x926x771	
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Ducted straight cooling and heat pump air conditioner with optional discharge Plenum
- Available in standard and low ambient mode (-10°C)
- Automatic change-over between cooling and heating modes (AD28AH)
- Special wireless infrared receiver and infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)
- Night set back capability
- Heating function disabled during defrosting cycle (AD28AH)
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Two-way duct discharge plenum (optional)
- High efficiency rotary compressor

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AD28 AC/ACL/AH

PRODUCT NAME		AD28AL		AD28AL		AD28AL	
		AE28AC		AE28ACL		AE28AH	
Indoor unit							
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,68	-	2,68	-	2,68	3,35
	BTU/h	9.140	-	9.140	-	9.140	11.420
	kcal/h	2.300	-	2.300	-	2.300	2.880
Energy label class	ABCDEFG	B	-	B	-	B	A
E.E.R. / C.O.P.	(kW/kW)	3,05	-	3,05	-	3,05	3,76
Air flowrate (h.m.l.)	m ³ /h	600-510-440		600-510-440		600-510-440	
Dehumidification	l/h	0,8		0,8		0,8	
External static pressure (min-max)	mm W.G.	5-7		5-7		5-7	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49		54-52-49		54-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40		45-43-40		45-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	38		38		40	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,880	-	0,880	-	0,880	0,890
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	440	-	440	-	440	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Max. pipe lenght with gas standard charge	m	7,5		7,5		7,5	
Max. pipe lenght with gas additional charge	m	15		15		15	
Gas additional charge	gr/m	10		10		10	
Max. height between units (Outdoor on top)	m	7		7		7	
Max. height between units (Indoor on top)	m	7		7		7	
Duct diameter of the 2-way discharge plenum (optional)	mm	200		200		200	
Net weight Indoor / Indoor with plenum / Outdoor	Kg	30/36/35		30/36/35		30/36/35	
Net dimension Indoor (H./W./D.)	mm	266x926x571		266x926x571		266x926x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x926x771		266x926x771		266x926x771	
Net dimension Outdoor (H./W./D.)	mm	610x795x290		610x795x290		610x795x290	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Ducted straight cooling and heat pump air conditioner with optional discharge Plenum

Available in standard and low ambient mode (-10°C)

Automatic change-over between cooling and heating modes (AD28AH)

Special wireless infrared receiver and infrared remote control with 4 digital timers to be set on the 24h and week-end management

Double temperature sensor (on remote control / on indoor unit)

"I Feel" feature, granting the best comfort conditions

Dry function

Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)

Night set back capability

Heating function disabled during defrosting cycle (AD28AH)

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Auto restart after a power supply black out

Electronic protection against over-pressures

Two-way duct discharge plenum (optional)

High efficiency rotary compressor

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AD52 AC/ACL/AH

PRODUCT NAME		AD52AL		AD52AL		AD52AL	
Indoor unit		AE52AC		AE52ACL		AE52AH	
Outdoor unit		AE52AC		AE52ACL		AE52AH	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,80	-	5,80	-	5,80	6,25
	BTU/h	19.780	-	19.780	-	19.780	21.310
	kcal/h	4.990	-	4.990	-	4.990	5.375
Energy label class	ABCDEF	A	-	A	-	A	B
E.E.R. / C.O.P.	(kW/kW)	3,22	-	3,22	-	3,22	3,42
Air flowrate (h.m.l.)	m ³ /h	875-600-400		875-600-400		875-600-400	
Dehumidification	l/h	2,3		2,3		2,3	
External static pressure (min-max)	mm W.G.	5-7		5-7		5-7	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound power Indoor (h.m.l.)	dB(A)	54-47-42		54-47-42		54-47-42	
Sound pressure Indoor (h.m.l.) at discharge plenum cc	dB(A)	45-38-33		45-38-33		45-38-33	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	48		48		48	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	1,800	-	1,800	-	1,800	1,830
Annual energy cons. - cooling mode (500h) - Directive 2002/31/CE	kWh	900	-	900	-	900	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe length with gas standard charge	m	10		10		10	
Max. pipe length with gas additional charge	m	25		25		25	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Duct diameter of the 3-way discharge plenum (optional)	mm	200		200		200	
Net weight Indoor / Indoor with plenum / Outdoor	Kg	35/42,5/56		35/42,5/56		35/42,5/56	
Net dimension Indoor (H./W./D.)	mm	266x1132x571		266x1132x571		266x1132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1132x771		266x1132x771		266x1132x771	
Net dimension Outdoor (H./W./D.)	mm	690x846x302		690x846x302		690x846x302	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Ducted straight cooling and heat pump air conditioner with optional discharge Plenum
- Available in standard and low ambient mode (-10°C)
- Automatic change-over between cooling and heating modes (AD52AH)
- Special wireless infrared receiver and infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)
- Night set back capability
- Heating function disabled during defrosting cycle (AD52AH)
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Three-way duct discharge plenum (optional)
- High efficiency rotary compressor

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AD52 AC3/ACL3/AH3

PRODUCT NAME		AD52AL AE52AC3		AD52AL AE52ACL3		AD52AL AE52AH3	
Indoor unit							
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,80	-	5,80	-	5,80	6,25
	BTU/h	19.780	-	19.780	-	19.780	21.310
	kcal/h	4.990	-	4.990	-	4.990	5.375
Energy label class	ABCDEF	A	-	A	-	A	B
E.E.R. / C.O.P.	(kW/kW)	3,22	-	3,22	-	3,22	3,42
Air flowrate (h.m.l.)	m ³ /h	875-600-400		875-600-400		875-600-400	
Dehumidification	l/h	2,3		2,3		2,3	
External static pressure (min-max)	mm W.G.	5-7		5-7		5-7	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound power Indoor (h.m.l.)	dB(A)	54-47-42		54-47-42		54-47-42	
Sound pressure Indoor (h.m.l.) at discharge plenum cc	dB(A)	45-38-33		45-38-33		45-38-33	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	48		48		47	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	1,800	-	1,800	-	1,800	1,830
Annual energy cons. - cooling mode (500h) - Directive 2002/31/CE	kWh	900	-	900	-	900	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	10		10		10	
Max. pipe lenght with gas additional charge	m	25		25		25	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Duct diameter of the 3-way discharge plenum (optional)	mm	200		200		200	
Net weight Indoor / Indoor with plenum / Outdoor	Kg	35/42,5/56		35/42,5/56		35/42,5/56	
Net dimension Indoor (H./W./D.)	mm	266x1132x571		266x1132x571		266x1132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1132x771		266x1132x771		266x1132x771	
Net dimension Outdoor (H./W./D.)	mm	690x846x302		690x846x302		690x846x302	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Ducted straight cooling and heat pump air conditioner with optional discharge Plenum
- Available in standard and low ambient mode (-10°C)
- Three phase power supply (400/3N/50)
- Automatic change-over between cooling and heating modes (AD52AH3)
- Special wireless infrared receiver and infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)
- Night set back capability
- Heating function disabled during defrosting cycle (AD52AH3)
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Three-way duct discharge plenum (optional)
- High efficiency rotary compressor

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AD64 AC/ACL/AH

PRODUCT NAME		AD64AL	AD64AL	AD64AL			
Indoor unit		AE64AC	AE64ACL	AE64AH			
Outdoor unit		AE64AC	AE64ACL	AE64AH			
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	7,00	-	7,00	-	7,00	7,55
	BTU/h	23.870	-	23.870	-	23.870	25.750
	kcal/h	6.020	-	6.020	-	6.020	6.495
Energy label class	ABCDEFG	C	-	C	-	C	D
E.E.R. / C.O.P.	(kW/kW)	2,98	-	2,98	-	2,98	3,02
Air flowrate (h.m.l.)	m ³ /h	1000-700-600		1000-700-600		1000-700-600	
Dehumidification	l/h	2,6		2,6		2,6	
External static pressure (min-max)	mm W.G.	5-7		5-7		5-7	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound power Indoor (h.m.l.)	dB(A)	57-49-46		57-49-46		57-49-46	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	48-40-37		48-40-37		48-40-37	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	47		47		47	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	2,350	-	2,350	-	2,350	2,500
Annual energy cons. - cooling mode (500h) - Directive 2002/31/CE	kWh	1175	-	1175	-	1175	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")		15,88(5/8")	
Max. pipe lenght with gas standard charge	m	12,5		12,5		12,5	
Max. pipe lenght with gas additional charge	m	20		20		20	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Duct diameter of the 3-way discharge plenum(optional)	mm	200		200		200	
Net weight Indoor / Indoor with plenum / Outdoor	Kg	35/42,5/74		35/42,5/74		35/42,5/74	
Net dimension Indoor (H./W./D.)	mm	266x1132x571		266x1132x571		266x1132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1132x771		266x1132x771		266x1132x771	
Net dimension Outdoor (H./W./D.)	mm	680x900x340		680x900x340		680x900x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Ducted straight cooling and heat pump air conditioner with optional discharge Plenum
- Available in standard and low ambient mode (-10°C)
- Automatic change-over between cooling and heating modes (AD64AH)
- Special wireless infrared receiver and infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)
- Night set back capability
- Heating function disabled during defrosting cycle (AD64AH)
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Three-way duct discharge plenum (optional)
- High efficiency rotary compressor

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AD64 AC3/ACL3/AH3

PRODUCT NAME		AD64AL AE64AC3		AD64AL AE64ACL3		AD64AL AE64AH3	
Indoor unit							
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	7,00	-	7,00	-	7,00	7,55
	BTU/h	23.870	-	23.870	-	23.870	25.750
	kcal/h	6.020	-	6.020	-	6.020	6.495
Energy label class	ABCDEF	C	-	C	-	C	D
E.E.R. / C.O.P.	(kW/kW)	2,98	-	2,98	-	2,98	3,02
Air flowrate (h.m.l.)	m ³ /h	1000-700-600		1000-700-600		1000-700-600	
Dehumidification	l/h	2,6		2,6		2,6	
External static pressure (min-max)	mm W.G.	5-7		5-7		5-7	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		3 + Auto / 1	
Sound power Indoor (h.m.l.)	dB(A)	57-49-46		57-49-46		57-49-46	
Sound pressure Indoor(h.m.l.)at discharge plenum connection	dB(A)	48-40-37		48-40-37		48-40-37	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	47		47		47	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	2,350	-	2,350	-	2,350	2,500
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1175	-	1175	-	1175	-
Compressor type		Rotary		Rotary		Rotary	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")		15,88(5/8")	
Max. pipe lenght with gas standard charge	m	12,5		12,5		12,5	
Max. pipe lenght with gas additional charge	m	20		20		20	
Gas additional charge	gr/m	20		20		20	
Max. height between units (Outdoor on top)	m	15		15		15	
Max. height between units (Indoor on top)	m	15		15		15	
Duct diameter of the 3-way discharge plenum(optional)	mm	200		200		200	
Net weight Indoor / Indoor with plenum / Outdoor	Kg	35/42,5/74		35/42,5/74		35/42,5/74	
Net dimension Indoor (H./W./D.)	mm	266x1132x571		266x1132x571		266x1132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1132x771		266x1132x771		266x1132x771	
Net dimension Outdoor (H./W./D.)	mm	680x900x340		680x900x340		680x900x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Ducted straight cooling and heat pump air conditioner with optional discharge Plenum
- Available in standard and low ambient mode (-10°C)
- Three phase power supply (400/3N/50)
- Automatic change-over between cooling and heating modes (AD64AH3)
- Special wireless infrared receiver and infrared remote control with 4 digital timers to be set on the 24h and week-end management
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)
- Night set back capability
- Heating function disabled during defrosting cycle (AD64AH3)
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Three-way duct discharge plenum (optional)
- High efficiency rotary compressor

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AWI25

PRODUCT NAME		AWI25AHL	
Indoor unit		AWI25AHL	
Outdoor unit		AEI25AH	
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	2,65(0,90-3,20)	3,60(0,90-5,00)
	BTU/h	9.100	12.300
	kcal/h	2.280	3.100
Energy label class	ABCDEF	A	A
E.E.R. / C.O.P.	(kW/kW)	3,51	3,62
Air flowrate Indoor (h.m.l.)	m ³ /h	530-480-450	
Dehumidification	l/h	1,6	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/ 2 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	34-31-28	
Sound pressure Outdoor (h.)	dB(A)	47	
Power supply	V/Ph/Hz	230/1/50	
Running consumption - nominal (min-max)	kW	0,755 (0,250-1,150)	0,995(0,250-1,340)
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	378	-
Compressor type		Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	9,52(3/8")	
Max. pipe length with gas standard charge	m	7,5	
Max. pipe length with gas additional charge	m	10	
Gas additional charge	gr/m	15	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Indoor / Outdoor	Kg	10/29	
Net dimension Indoor (H./W./D.)	mm	285x825x189	
Net dimension Outdoor (H./W./D.)	mm	548x720x265	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Straight cooling and heat pump air conditioner
- DC Inverter technology - R410A
- Automatic change-over between cooling and heating modes
- Infrared remote control with 24h digital timer
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed tangential fan by remote control
- Night set back capability
- Heating function disabled during defrosting cycle
- Horizontal flap swinging or to be set on a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters; active carbon filters
- Natural Ionizer Tape with negative ions emission
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Double way (right and left) to discharge the condensate
- High efficiency rotary compressor

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AWI35



PRODUCT NAME		AWI35AHL	
Indoor unit		AWI35AHL	
Outdoor unit		AEI35AH	
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	3,50(0,90-3,80)	4,20(0,90-5,80)
	BTU/h	11.900	14.300
	kcal/h	3.010	3.610
Energy label class	ABCDEFGF	A	A
E.E.R. / C.O.P.	(kW/kW)	3,21	3,61
Air flowrate Indoor (h.m.l.)	m ³ /h	540-490-460	
Dehumidification	l/h	2,0	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/ 2 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	36-33-29	
Sound pressure Outdoor (h.)	dB(A)	49	
Power supply	V/Ph/Hz	230/1/50	
Running consumption - nominal (min-max)	kW	1,090(0,250-1,300)	1,165(0,250-1,500)
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	545	-
Compressor type		Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	9,52(3/8")	
Max. pipe lenght with gas standard charge	m	7,5	
Max. pipe lenght with gas additional charge	m	15	
Gas additional charge	gr/m	15	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Indoor / Outdoor	Kg	10/30	
Net dimension Indoor (H./W./D.)	mm	285x825x189	
Net dimension Outdoor (H./W./D.)	mm	548x720x265	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Straight cooling and heat pump air conditioner
- DC Inverter technology - R410A
- Automatic change-over between cooling and heating modes
- Infrared remote control with 24h digital timer
- Double temperature sensor (on remote control / on indoor unit)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed tangential fan by remote control
- Night set back capability
- Heating function disabled during defrosting cycle
- Horizontal flap swinging or to be set on a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters; active carbon filters
- Natural Ionizer Tape with negative ions emission
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Double way (right and left) to discharge the condensate
- High efficiency rotary compressor

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SPLIT DC INVERTER R410A



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AWI55

PRODUCT NAME		AWI55AHL	
Indoor unit		AWI55AHL	
Outdoor unit		AEI55AH	
Features		Units	Cooling Heating
Cooling/Heating capacity - nominal (min-max)		kW	5,15 (1,2-5,5) 6,00 (1,3-6,4)
		BTU/h	17.560 20.460
		kcal/h	4.430 5.160
Energy label class		ABCDEF	A A
E.E.R. / C.O.P.		(kW/kW)	3,43 3,81
Air flowrate Indoor (h.m.l.)		m ³ /h	890 920
Dehumidification		l/h	2,30
Fan speeds (Indoor / Outdoor)		n°	3 + Auto/ 1 (Alta)
Sound pressure Indoor (h.m.l.)		dB(A)	42-35-28
Sound pressure Outdoor (h.)		dB(A)	52
Power supply		V/Ph/Hz	230/1/50
Running consumption - nominal (min-max)		kW	1,5 (0,25-1,8) 1,575 (0,27-1,93)
Annual energy cons.- cooling mode (500h) - Dir. 2002/31/CE		kWh	2.575 -
Compressor type		Rotary (DC Inverter)	
Refrigerant type		R410A	
Liquid pipe diameter		mm(inch")	6,35(1/4")
Gas pipe diameter		mm(inch")	12,7(1/2")
Max. pipe length with gas standard charge		m	10
Max. pipe length with gas additional charge		m	30
Gas additional charge		gr/m	25
Max. height between units (Outdoor on top)		m	15
Max. height between units (Indoor on top)		m	15
Net weight Indoor / Outdoor		Kg	12/44
Net dimension Indoor (H./W./D.)		mm	298x1065x233
Net dimension Outdoor (H./W./D.)		mm	670x880x285

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Straight cooling and heat pump air conditioner
- DC Inverter technology - R410A
- Automatic change-over between cooling and heating modes
- Infrared remote control with 24h digital timer
- Double temperature sensor (on the unit and inside the remote control)
- "I Feel" feature, granting the best comfort conditions
- Dry function
- Three-speed tangential fan by remote control
- Night set back capability
- Heating function disabled during defrosting cycle
- Horizontal flap swinging or to be set to a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters; active carbon filters
- Natural Ionizer Tape with negative ions emission
- Auto restart after a power supply black out
- Electronic protection against over-pressures
- Double way (right and left) to discharge the condensate
- High efficiency rotary compressor

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DC INVERTER-MONO R410A



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AWI70

PRODUCT NAME		AWI70AHL	
Indoor unit		AWI70AHL	
Outdoor unit		AEI70AH	
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	7,10 (1,2-8,0)	8,50 (1,3-9,5)
	BTU/h	24.210	28.990
	kcal/h	6.110	7.310
Energy label class	ABCDEFG	B	B
E.E.R. / C.O.P.	(kW/kW)	3,01	3,41
Air flowrate Indoor (h.m.l.)	m ³ /h	1020	920
Dehumidification	l/h		3,3
Fan speeds (Indoor / Outdoor)	n°	3 + Auto/ 1 (High)	
Sound pressure Indoor (h.m.l.)	dB(A)	45-38-30	
Sound pressure Outdoor (h.)	dB(A)	55	
Power supply	V/Ph/Hz	230/1/50	
Running consumption - nominal (min-max)	kW	2,355 (0,28-2,845)	2,49 (0,29-3,15)
Annual energy cons.- cooling mode (500h) - Dir. 2002/31/CE	kWh	1.178	-
Compressor type		Rotary (DC Inverter)	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe length with gas standard charge	m	10	
Max. pipe length with gas additional charge	m	30	
Gas additional charge	gr/m	25	
Max. height between units (Outdoor on top)	m	15	
Max. height between units (Indoor on top)	m	15	
Net weight Indoor / Outdoor	Kg	12/59	
Net dimension Indoor (H./W./D.)	mm	298x1065x233	
Net dimension Outdoor (H./W./D.)	mm	670x880x285	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

- Straight cooling and heat pump air conditioner
- DC Inverter technology - R410A
- Automatic change-over between cooling and heating modes
- Infrared remote control with 24h digital timer
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MULTISPLIT DC INVERTER R410A



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DUAL AE2MI56

Cooling: 5,6 kW

Heating: 7,3 kW

TRIAL AE3MI70

Cooling: 6,8 kW

Heating: 8,6 kW

QUADRI AE4MI91

Cooling: 9 kW

Heating: 10 kW



TECHNICAL DATA

PRODUCT NAME		AE2MI56AH		AE3MI70AH		AE4MI91AH	
Outdoor unit							
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Connectable indoor units	n°	2		3		4	
Minimum number of connected indoor units	n°	2		2		2	
Cooling/Heating capacity - nominal (min-max)	kW	5,60	7,30	6,80	8,60	9,00	10,00
	BTU/h	(1,40-6,50)	(1,70-8,40)	(1,40-8,10)	(1,70-9,00)	(1,20-10,50)	(1,70-10,80)
	kcal/h	19.100	24.900	23.200	29.300	30.700	34.100
Energy label class	ABCDEF	B	B	A	A	A	A
E.E.R. / C.O.P.	(kW/kW)	3,13	3,46	3,33	3,81	4,64	4,61
Air flowrate Outdoor (h.)	m³/h	2.400		2.400		2.800	
Fan speeds Outdoor	n°	2 (Auto)		2 (Auto)		2 (Auto)	
Sound pressure Outdoor (h.)	dB(A)	48	49	48	49	53	54
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	1,790	2,110	2,040	2,260	1,940	2,170
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	895	-	1.020	-	970	-
Compressor type		Twin Rotary (DC inverter)		Twin Rotary (DC inverter)		Twin Rotary (DC inverter)	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4") x 2		6,35(1/4") x 3		6,35(1/4") x 4	
Gas pipe diameter	mm(inch")	9,52(3/8") x 2		9,52(3/8") x 3		9,52(3/8")x3 - 12,7(1/2")x1	
Max. pipe lenght (per indoor unit)	m	25		25		30	
Max. total pipe lenght	m	35		50		70	
Gas additional charge	gr/m	not required		not required		not required	
Max. height between units (Outdoor on top)	m	10		10		10	
Max. height between units (Indoor on top)	m	10		10		10	
Net weight Outdoor	Kg	69		70		90	
Net dimension Outdoor (H./W./D.)	mm	730x940x340		730x940x340		880x940x340	

MULTISPLIT DC INVERTER R410A



Indoor unit capacity 2,8 kW



Indoor unit capacity 3,6 kW / 5 kW



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Features

Multisplit cooling and heat pump air conditioner for cooling, dehumidification and heating modes

DC Inverter technology - R410A

Two refrigerant valves (ae2mi56ah), three refrigerant valves (ae3mi70ah), four refrigerant valves (ae4mi91ah) controlled by an electronic microprocessor system

Fully mixed matching possibility of the indoor units (high-wall, cassette, ducted, floor and floor/ceiling): for more information on the indoor units and their possible matchings see the following pages

With a proper connection of the cassette or ducted indoor units it is possible to manage up to two groups of two rooms each or one single room with four air sendout points (ae2mi56ah); two groups of three rooms each or one single room with six air sendout points (ae3mi70ah); two groups of four rooms each or one single room with eight air sendout points (ae4mi91ah)

Each indoor unit is managed by its own remote control

In case more indoor units are installed in the same room, it is possible to address each remote control to its own indoor unit only, so that to avoid any interference

It works with at least two indoor units connected

Single-phase power supply 230/1/50

Auto restart after a power supply black out

Electronic protection against over-pressures

Double rotary DC inverter compressor

Plug kit for condensate drain holes (on outdoor unit base) optional



Indoor unit capacity 7 kW



Cassette indoor units



Ducted indoor units



Floor/Ceiling indoor units



Floor indoor units

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INDOOR UNITS MATCHING TABLE

OUTDOOR UNIT MODEL			AE2MI56AH									
Performance			Cooling				Heating				Total capacity kW	
			Indoor capacity (kW)				Indoor capacity (kW)					
			A	B	C	D	Total capacity kW	A	B	C	D	
Connectable Indoor units	1 unit	28	2,80	-	-	-	2,80	4,00	-	-	-	4,00
		36	3,60	-	-	-	3,60	4,80	-	-	-	4,80
		50	5,00	-	-	-	5,00	7,10	-	-	-	7,10
	2 units	28+28	2,80	2,80	-	-	5,60	3,65	3,65	-	-	7,30
		28+36	2,45	3,15	-	-	5,60	3,30	4,00	-	-	7,30
		28+50	2,00	3,60	-	-	5,60	2,65	4,65	-	-	7,30
		36+36	2,80	2,80	-	-	5,60	3,65	3,65	-	-	7,30
		36+50	2,35	3,25	-	-	5,60	2,95	4,35	-	-	7,30

OUTDOOR UNIT MODEL			AE3MI70AH									
Performance			Cooling				Heating				Total capacity kW	
			Indoor capacity (kW)				Indoor capacity (kW)					
			A	B	C	D	Total capacity kW	A	B	C	D	
Connectable Indoor units	1 unit	28	2,80	-	-	-	2,80	4,00	-	-	-	4,00
		36	3,60	-	-	-	3,60	4,80	-	-	-	4,80
		50	5,00	-	-	-	5,00	7,10	-	-	-	7,10
	2 units	28+28	2,80	2,80	-	-	5,60	4,00	4,00	-	-	8,00
		28+36	2,80	3,60	-	-	6,40	3,90	4,70	-	-	8,60
		28+50	2,45	4,35	-	-	6,80	3,10	5,50	-	-	8,60
		36+36	3,40	3,40	-	-	6,80	4,30	4,30	-	-	8,60
		36+50	2,85	3,95	-	-	6,80	3,45	5,15	-	-	8,60
		28+28+28	2,26	2,26	2,26	-	6,80	2,86	2,86	2,86	-	8,60
	3 units	28+28+36	2,07	2,07	2,65	-	6,80	2,70	2,70	3,20	-	8,60
		28+28+50	1,80	1,80	3,20	-	6,80	2,30	2,30	4,00	-	8,60
		28+36+36	1,90	2,45	2,45	-	6,80	2,50	3,05	3,05	-	8,60
		28+36+50	1,65	2,15	3,00	-	6,80	2,15	2,60	3,85	-	8,60
		36+36+36	2,26	2,26	2,26	-	6,80	2,86	2,86	2,86	-	8,60

OUTDOOR UNIT MODEL			AE4MI91AH									
Performance			Cooling				Heating				Total capacity kW	
			Indoor capacity (kW)				Indoor capacity (kW)					
			A	B	C	D	Total capacity kW	A	B	C	D	
Connectable Indoor units	1 unit	28	2,80	-	-	-	2,80	4,00	-	-	-	4,00
		36	3,60	-	-	-	3,60	4,80	-	-	-	4,80
		50	5,00	-	-	-	5,00	7,10	-	-	-	7,10
		70	7,00	-	-	-	7,00	8,00	-	-	-	8,00
	2 units	28+28	2,80	2,80	-	-	5,60	4,00	4,00	-	-	8,00
		28+36	2,80	3,60	-	-	6,40	4,00	4,80	-	-	8,80
		36+36	3,60	3,60	-	-	7,20	4,80	4,80	-	-	9,60
		28+50	2,80	5,00	-	-	7,80	3,60	6,40	-	-	10,00
		36+50	3,60	5,00	-	-	8,60	4,00	6,00	-	-	10,00
		28+70	2,55	6,45	-	-	9,00	3,35	6,65	-	-	10,00
	3 units	28+28+28	2,80	2,80	2,80	-	8,40	3,33	3,33	3,33	-	10,00
		28+28+36	2,75	2,75	3,50	-	9,00	3,10	3,10	3,80	-	10,00
		28+28+50	2,40	2,40	4,20	-	9,00	2,65	2,65	4,70	-	10,00
		28+28+70	2,00	2,00	5,00	-	9,00	2,50	2,50	5,00	-	10,00
		28+36+36	2,50	3,25	3,25	-	9,00	2,90	3,55	3,55	-	10,00
		28+36+50	2,20	2,85	3,95	-	9,00	2,50	3,00	4,50	-	10,00
		36+36+36	3,00	3,00	3,00	-	9,00	3,33	3,33	3,33	-	10,00
		36+36+50	2,65	2,65	3,70	-	9,00	2,85	2,85	4,30	-	10,00
		28+28+28+28	2,25	2,25	2,25	2,25	9,00	2,50	2,50	2,50	2,50	10,00
		28+28+28+36	2,10	2,10	2,10	2,70	9,00	2,40	2,40	2,40	2,80	10,00
	4 units	28+28+28+50	1,90	1,90	1,90	3,30	9,00	2,10	2,10	2,10	3,70	10,00
		28+28+28+70	1,65	1,65	1,65	4,05	9,00	2,00	2,00	2,00	4,00	10,00
		28+28+36+36	2,00	2,00	2,50	2,50	9,00	2,25	2,25	2,75	2,75	10,00
		28+28+36+50	1,75	1,75	2,30	3,20	9,00	2,00	2,00	2,40	3,60	10,00
		28+36+36+36	1,80	2,40	2,40	2,40	9,00	2,20	2,60	2,60	2,60	10,00
		28+36+36+50	1,70	2,15	2,15	3,00	9,00	1,95	2,30	2,30	3,45	10,00
		36+36+36+36	2,25	2,25	2,25	2,25	9,00	2,50	2,50	2,50	2,50	10,00

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INDOOR UNITS TABLE

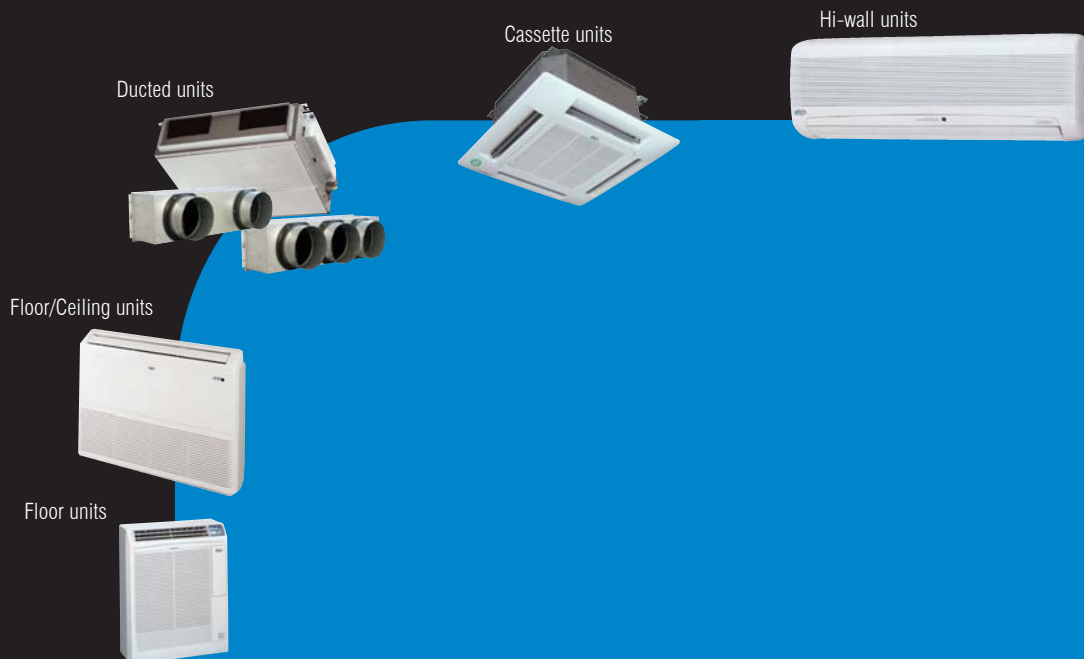
Hi-wall units						
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)	Dimension (HxWxD)	Net weight
AWMI28AHL	m ³ /h 620-510-370	l/h 1,6	3 + Auto	dB(A) 41-38-33	mm 275x805x178	kg 8,5
AWMI36AHL	m ³ /h 580-450-400	l/h 2,0	3 + Auto	dB(A) 46-39-33	mm 285x805x219	kg 9,5
AWMI50AHL	m ³ /h 680-620-530	l/h 2,8	3 + Auto	dB(A) 49-44-38	mm 285x805x219	kg 9,5
AWMI70AHL	m ³ /h 1100-1000-920	l/h 3,4	3 + Auto	dB(A) 47-43-38	mm 330x1.140x228	kg 18

Cassette units						
ASMI28HG	m ³ /h 700-600-500	l/h 0,5	3 + Auto	dB(A) 43-39-36	mm 296x575x575	kg 16,5
ASMI36HG	m ³ /h 700-600-501	l/h 1,0	3 + Auto	dB(A) 43-39-36	mm 296x575x575	kg 16,5
ASMI50HG	m ³ /h 750-630-530	l/h 2,3	3 + Auto	dB(A) 44-39-36	mm 296x575x575	kg 18
ASGMI28HG (grille)					mm 64x730x730	kg 2,5

Ducted units						
ADMI28HG	m ³ /h 600-510-440	l/h 0,8	3 + Auto	dB(A) 45-43-40	mm 266x926x571	kg 30
ADMI36HG	m ³ /h 600-510-440	l/h 1,5	3 + Auto	dB(A) 45-43-40	mm 266x926x571	kg 30
2-way duct (200 mm each) Plenum					mm 266x926x200	kg 6
ADMI50HG	m ³ /h 760-630-550	l/h 2,3	3 + Auto	dB(A) 45-38-33	mm 266x1132x571	kg 35
ADMI70HG	m ³ /h 1000-700-600	l/h 2,6	3 + Auto	dB(A) 48-40-37	mm 266x1132x571	kg 35
3-way duct (200 mm each) Plenum					mm 266x1132x200	kg 7,5

Floor & Floor/ceiling units						
AFMI28HG	m ³ /h 400-360-300	l/h 1,0	3 + Auto	dB(A) 43-40-34	mm 700x560x200	kg 18,6
FCMI36HG	m ³ /h 700-590-500	l/h 1,3	3 + Auto	dB(A) 47-43-38	mm 680x900x190	kg 23,5
FCMI50HG	m ³ /h 800-700-590	l/h 2,3	3 + Auto	dB(A) 51-47-43	mm 680x900x190	kg 23,5
FCMI70HG	m ³ /h 840-770-670	l/h 3,3	3 + Auto	dB(A) 52-49-46	mm 680x900x190	kg 23,5

NB: For the indoor units capacity see the matching table.



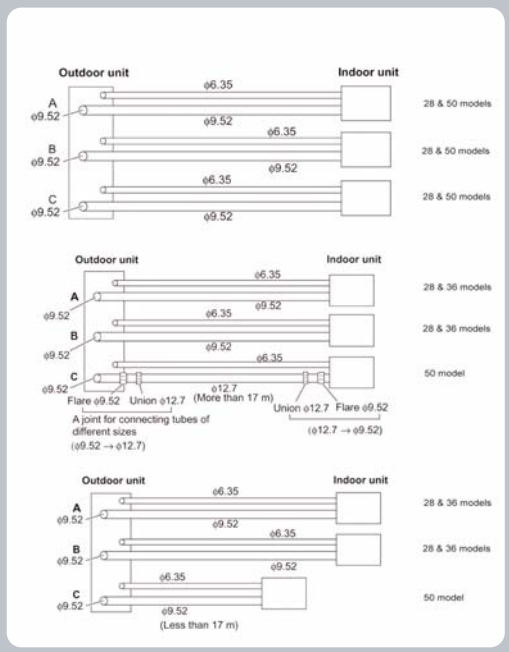
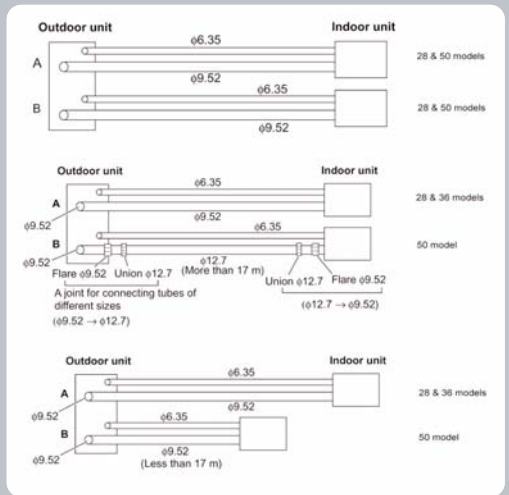
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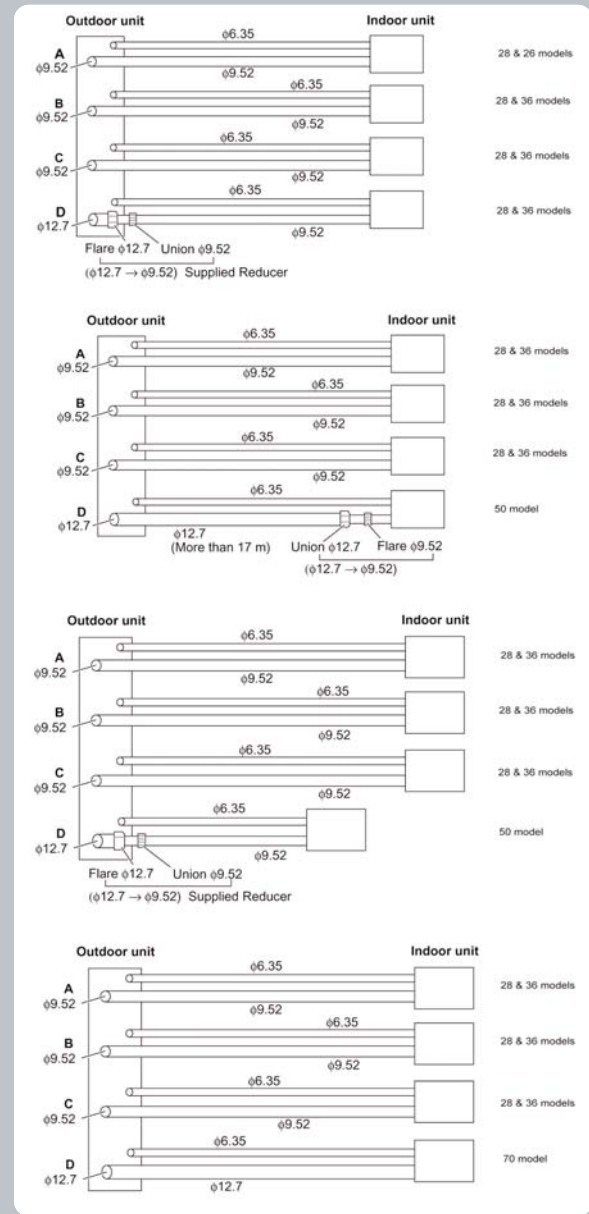


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DUAL/TRIPL SPLIT PIPE LINE TABLES



QUADRI SPLIT PIPE LINE TABLE



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PACKAGE/MULTIPACKAGE DC INVERTER R410A

PACKAGE WALL DC INVERTER R410A



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AWS71

PRODUCT NAME		AWS71PH	
Indoor unit		AES71PIH	
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	7,10 (2,2-8,0)	8,00 (2,2-9,0)
	BTU/h	24.000	27.000
	kcal/h	6.100	6.880
Energy label class	ABCDEFG	B	B
E.E.R. / C.O.P.	(kW/kW)	3,01	3,54
Air flowrate Indoor (h.m.l.)	m ³ /h	1.140-1.020-840	
Dehumidification	l/h	4,0	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	41-37-34	
Sound pressure Outdoor (h.)	dB(A)	49	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,36	2,26
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.180	-
Compressor type		DCInverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor / Outdoor	Kg	21/58	
Net dimension Indoor (H./W./D.)	mm	330x1.140x228	
Net dimension Outdoor (H./W./D.)	mm	780x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

High wall straight cooling and heat pump air conditioner

PAM DC Inverter technology

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

New three-speed tangential fan by remote control, granting a better and low noise air diffusion

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE CASSETTE DC INVERTER R410A



improve your life

ASS71

PRODUCT NAME		ASS71PH	
Indoor unit		AES71PIH	
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,10 (2,2-8,0)	8,00 (2,2-9,0)
	BTU/h	24.000	27.000
	kcal/h	6.100	6.880
Energy label class	ABCDEFGH	A	A
E.E.R. / C.O.P.	(kW/kW)	3,33	3,86
Air flowrate Indoor (h.m.l.)	m ³ /h	1.140-1.020-840	
Dehumidification	l/h	3,6	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	47-45-41	
Sound pressure Outdoor (h.)	dB(A)	49	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,13	2,07
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.065	-
Compressor type		DCInverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor (with grille) / Outdoor	Kg	28/58	
Net dimension Indoor (with grille) (H./W./D.)	mm	338x860x860	
Net dimension Outdoor (H./W./D.)	mm	780x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Cassette straight cooling and heat pump air conditioner

PAM DC Inverter technology

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Special system to avoid condensate dripping from air outlet ribs

Four horizontal flaps swinging or to be set on a fixed position by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Possibility to have a connection for fresh air intake

Double-way of air duct in adjacent rooms through pre-drilled holes

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE CASSETTE DC INVERTER R410A



improve your life



ASS100

PRODUCT NAME		ASS100PH	
Indoor unit		AES100PIH	
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	10,00 (2,2-11,2)	11,20 (2,2-12,50)
	BTU/h	34.000	38.000
	kcal/h	8.600	9.630
Energy label class	ABCDEFGF	A	A
E.E.R. / C.O.P.	(kW/kW)	3,21	3,78
Air flowrate Indoor (h.m.l.)	m ³ /h	1.920-1.680-1.320	
Dehumidification	l/h	4,6	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	53-50-46	
Sound pressure Outdoor (h.)	dB(A)	52	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	3,12	2,96
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.560	-
Compressor type		DCInverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe length with gas standard charge	m	30	
Max. pipe length with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor (with grille) / Outdoor	Kg	35/65	
Net dimension Indoor (with grille) (H./W./D.)	mm	338x1.150x860	
Net dimension Outdoor (H./W./D.)	mm	780x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Cassette straight cooling and heat pump air conditioner

PAM DC Inverter technology

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Special system to avoid condensate dripping from air outlet ribs

Four horizontal flaps swinging or to be set on a fixed position by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Possibility to have a connection for fresh air intake

Double-way of air duct in adjacent rooms through pre-drilled holes

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE CASSETTE DC INVERTER R410A



improve your life

ASS125

PRODUCT NAME		ASS125PH	
Indoor unit		AES125PIH	
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	12,50 (2,7-14,0)	14,00 (2,7-16,00)
	BTU/h	42.500	48.000
	kcal/h	10.750	12.040
Energy label class	ABCDEF	A	A
E.E.R. / C.O.P.	(kW/kW)	3,24	3,66
Air flowrate Indoor (h.m.l.)	m ³ /h	1.920-1.680-1.320	
Dehumidification	l/h	6,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	53-50-46	
Sound pressure Outdoor (h.)	dB(A)	53	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	3,86	3,83
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.930	-
Compressor type		DCInverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor (with grille) / Outdoor	Kg	35/100	
Net dimension Indoor (with grille) (H./W./D.)	mm	338x1.150x860	
Net dimension Outdoor (H./W./D.)	mm	1.230x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Cassette straight cooling and heat pump air conditioner

PAM DC Inverter technology

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Special system to avoid condensate dripping from air outlet ribs

Four horizontal flaps swinging or to be set on a fixed position by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Possibility to have a connection for fresh air intake

Double-way of air duct in adjacent rooms through pre-drilled holes

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE DUCTED DC INVERTER R410A



improve your life



ADS71

PRODUCT NAME		ADS71PH	
Indoor unit		ADS71PH	
Outdoor unit		AES71PIH	
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	7,10 (2,2-8,0)	8,00 (2,2-9,0)
	BTU/h	24.000	27.000
	kcal/h	6.100	6.880
Energy label class	ABCDEF	C	C
E.E.R. / C.O.P.	(kW/kW)	2,83	3,35
Air flowrate (h.m.l.)	m ³ /h	1.080-900-780	
Dehumidification	l/h	3,5	
External static pressure (min-max)	mm W.G.	5-10	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound power Indoor (h.m.l.)	dB(A)	43-39-36	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	34-30-37	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Sound pressure Outdoor (h.)	dB(A)	49	
Power supply	V/Ph/Hz	230/1/50	
Running consumption - nominal (min-max)	kW	2,51	2,39
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.255	-
Compressor type		DC Inverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe length with gas standard charge	m	30	
Max. pipe length with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Ducts diameter	mm	200	
Net weight Indoor / Outdoor	Kg	32/58	
Net dimension Indoor (H./W./D.)	mm	310x1.000x630	
Net dimension Outdoor (H./W./D.)	mm	780x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Ducted straight cooling and heat pump air conditioner

PAM DC Inverter technology

Three-way duct connection

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

New centrifugal fan, with double static pressure, three speeds by remote control, granting a better and low noise air diffusion

Possibility to increase the Static Pressure

Connection for fresh air intake by optional kit with anti-mould and anti-bacteria filter; this kit makes possible the direct access to the internal components for maintenance activities

Integrated pump for condensate discharge

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE DUCTED DC INVERTER R410A



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ADS100

PRODUCT NAME		ADS100PH	
Indoor unit		AES100PIH	
Outdoor unit		AES100PIH	
Features		Units	
Cooling/Heating capacity - nominal (min-max)	kW	10,00 (2,2-11,2)	11,20 (2,2-12,50)
	BTU/h	34.000	38.000
	kcal/h	8.600	9.630
Energy label class	ABCDEF	C	C
E.E.R. / C.O.P.	(kW/kW)	2,82	3,39
Air flowrate (h.m.l.)	m ³ /h	1.800-1.560-1.260	
Dehumidification	l/h	4,2	
External static pressure (min-max)	mm W.G.	5-10	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound power Indoor (h.m.l.)	dB(A)	47-42-40	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	38-33-31	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Sound pressure Outdoor (h.)	dB(A)	52	
Power supply	V/Ph/Hz	230/1/50	
Running consumption - nominal (min-max)	kW	3,55	3,30
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1,775	-
Compressor type		DCInverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Ducts diameter	mm	200	
Net weight Indoor / Outdoor	Kg	47/65	
Net dimension Indoor (H./W./D.)	mm	310x1.480x630	
Net dimension Outdoor (H./W./D.)	mm	780x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Ducted straight cooling and heat pump air conditioner

PAM DC Inverter technology

Four-way duct connection

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

New centrifugal fan, with double static pressure, three speeds by remote control, granting a better and low noise air diffusion

Possibility to increase the Static Pressure

Connection for fresh air intake by optional kit with anti-mould and anti-bacteria filter; this kit makes possible the direct access to the internal components for maintenance activities

Integrated pump for condensate discharge

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE DUCTED DC INVERTER R410A



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ADS125

PRODUCT NAME		ADS125PH	
Indoor unit		AES125PIH	
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	12,50 (2,7-14,0)	14,00 (2,7-16,00)
	BTU/h	42.500	48.000
	kcal/h	10.750	12.040
Energy label class	ABCDEF	C	C
E.E.R. / C.O.P.	(kW/kW)	2,87	3,26
Air flowrate (h.m.l.)	m ³ /h	1.980-1.560-1.320	
Dehumidification	l/h	6,6	
External static pressure (min-max)	mm W.G.	5-10	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound power Indoor (h.m.l.)	dB(A)	49-46-42	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	40-37-33	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Sound pressure Outdoor (h.)	dB(A)	53	
Power supply	V/Ph/Hz	230/1/50	
Running consumption - nominal (min-max)	kW	4,36	4,29
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	2.180	-
Compressor type		DCinverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Ducts diameter	mm	200	
Net weight Indoor / Outdoor	Kg	47/100	
Net dimension Indoor (H./W./D.)	mm	310x1.480x630	
Net dimension Outdoor (H./W./D.)	mm	1.230x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Ducted straight cooling and heat pump air conditioner

PAM DC Inverter technology

Four-way duct connection

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

New centrifugal fan, with double static pressure, three speeds by remote control, granting a better and low noise air diffusion

Possibility to increase the Static Pressure

Connection for fresh air intake by optional kit with anti-mould and anti-bacteria filter; this kit makes possible the direct access to the internal components for maintenance activities

Integrated pump for condensate discharge

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE CEILING DC INVERTER R410A



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ACS71

PRODUCT NAME		ACS71PH	
Indoor unit		ACS71PH	
Outdoor unit		AES71PIH	
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	7,10 (2,2-8,0)	8,00 (2,2-9,0)
	BTU/h	24.000	27.000
	kcal/h	6.100	6.880
Energy label class	ABCDEFG	B	B
E.E.R. / C.O.P.	(kW/kW)	3,02	3,56
Air flowrate Indoor (h.m.l.)	m ³ /h	1.098-900-840	
Dehumidification	l/h	3,0	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	38-36-33	
Sound pressure Outdoor (h.)	dB(A)	49	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,35	2,25
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.175	-
Compressor type		DCInverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor / Outdoor	Kg	25/58	
Net dimension Indoor (H./W./D.)	mm	210x1.180x680	
Net dimension Outdoor (H./W./D.)	mm	780x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Ceiling straight cooling and heat pump air conditioner

PAM DC Inverter technology

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

Three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Horizontal flap swinging or to be set on a fixed position by remote control, with automatic positioning according to selected mode (cooling or heating)

Anti-mould and anti-bacteria washable filters

Possibility to have a connection for fresh air intake

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE CEILING DC INVERTER R410A



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ACS100

PRODUCT NAME		ACS100PH AES100PIH	
Indoor unit			
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	10,00 (2,2-11,2)	11,20 (2,2-12,50)
	BTU/h	34.000	38.000
	kcal/h	8.600	9.630
Energy label class	ABCDEF	B	A
E.E.R. / C.O.P.	(kW/kW)	3,04	3,67
Air flowrate Indoor (h.m.l.)	m ³ /h	1.650-1.380-1.200	
Dehumidification	l/h	3,9	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	41-38-35	
Sound pressure Outdoor (h.)	dB(A)	52	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	3,29	3,67
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1,645	-
Compressor type		DC Inverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor / Outdoor	Kg	33/65	
Net dimension Indoor (H./W./D.)	mm	210x1.595x680	
Net dimension Outdoor (H./W./D.)	mm	780x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Ceiling straight cooling and heat pump air conditioner

PAM DC Inverter technology

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

Three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Horizontal flap swinging or to be set on a fixed position by remote control, with automatic positioning according to selected mode (cooling or heating)

Anti-mould and anti-bacteria washable filters

Possibility to have a connection for fresh air intake

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

PACKAGE CEILING DC INVERTER R410A



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ACS125

PRODUCT NAME		ACS125PH AES125PIH	
Indoor unit			
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity - nominal (min-max)	kW	12,50 (2,7-14,0)	14,00 (2,7-16,00)
	BTU/h	42.500	48.000
	kcal/h	10.750	12.040
Energy label class	ABCDEF	B	B
E.E.R. / C.O.P.	(kW/kW)	3,03	3,44
Air flowrate Indoor (h.m.l.)	m ³ /h	1.800-1.560-1.320	
Dehumidification	l/h	5,6	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	43-40-37	
Sound pressure Outdoor (h.)	dB(A)	53	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	4,12	4,07
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	2.060	-
Compressor type		DCinverter Twin Rotary	
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	40	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor / Outdoor	Kg	35/100	
Net dimension Indoor (H./W./D.)	mm	210x1.595x680	
Net dimension Outdoor (H./W./D.)	mm	1.230x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

Features

Ceiling straight cooling and heat pump air conditioner

PAM DC Inverter technology

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Among controls available for this kind of indoor unit (all optional):

- the infrared remote control, equipped with a 24h digital timer and a temperature sensor granting automatically the the best comfort conditions ("I Feel" feature);
- a special wired controller with configuration, diagnostic and weekly timer capabilities

Night set back capability

Dry function

Three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Horizontal flap swinging or to be set on a fixed position by remote control, with automatic positioning according to selected mode (cooling or heating)

Anti-mould and anti-bacteria washable filters

Possibility to have a connection for fresh air intake

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

Double rotary compressor

MULTIPACKAGE DC INVERTER R410A



improve your life

AES71PH

Cooling: 7,1 kW

Heating: 8 kW

AES100PH

Cooling: 10 kW

Heating: 11,2 kW



AES125PH

Cooling: 12,5 kW

Heating: 14 kW

INDOOR UNITS MATCHING TABLE

OUTDOOR UNIT MODEL -->				AES71PIH									
Indoor unit models		Type	Cooling					Heating					
			Indoor capacity (kW)				Total capacity kW	Indoor capacity (kW)				Total capacity kW	
			A	B	C	D		A	B	C	D		
Connectable Indoor units	1 unit	AWS71PH	High-wall	7,10	-	-	-	7,1 (2,2-8,0)	8,00	-	-	-	8,0 (2,2-9,0)
		ASS71PH	Cassette	7,10	-	-	-	7,1 (2,2-8,0)	8,00	-	-	-	8,0 (2,2-9,0)
		ACS71PH	Underceiling	7,10	-	-	-	7,1 (2,2-8,0)	8,00	-	-	-	8,0 (2,2-9,0)
	2 units also mixed	ADS71PH	Ducted	7,10	-	-	-	7,1 (2,2-8,0)	8,00	-	-	-	8,0 (2,2-9,0)
		AWS36PH	High-wall	3,55	3,55	-	-	7,1 (2,2-8,0)	4,00	4,00	-	-	8,0 (2,2-9,0)
		ASS36PH	Cassette	3,55	3,55	-	-	7,1 (2,2-8,0)	4,00	4,00	-	-	8,0 (2,2-9,0)
		ADS36PH	Ducted	3,55	3,55	-	-	7,1 (2,2-8,0)	4,00	4,00	-	-	8,0 (2,2-9,0)
		FC36PHG	Floor/Ceiling	3,55	3,55	-	-	7,1 (2,2-8,0)	4,00	4,00	-	-	8,0 (2,2-9,0)

OUTDOOR UNIT MODEL -->				AES100PIH									
Indoor unit models		Type	Cooling					Heating					
			Indoor capacity (kW)				Total capacity kW	Indoor capacity (kW)				Total capacity kW	
			A	B	C	D		A	B	C	D		
Connectable Indoor units	1 unit	ASS100PH	Cassette	10,00	-	-	-	10,0 (2,2-11,2)	11,20	-	-	-	11,2 (2,2-12,5)
		ACS100PH	Underceiling	10,00	-	-	-	10,0 (2,2-11,2)	11,20	-	-	-	11,2 (2,2-12,5)
		ADS100PH	Ducted	10,00	-	-	-	10,0 (2,2-11,2)	11,20	-	-	-	11,2 (2,2-12,5)
	2 units also mixed	AWS56PH	High-wall	5,00	5,00	-	-	10,0 (2,2-11,2)	5,60	5,60	-	-	11,2 (2,2-12,5)
		ASS56PH	Cassette	5,00	5,00	-	-	10,0 (2,2-11,2)	5,60	5,60	-	-	11,2 (2,2-12,5)
		ADS56PH	Ducted	5,00	5,00	-	-	10,0 (2,2-11,2)	5,60	5,60	-	-	11,2 (2,2-12,5)
		FC56PHG	Floor/Ceiling	5,00	5,00	-	-	10,0 (2,2-11,2)	5,60	5,60	-	-	11,2 (2,2-12,5)

OUTDOOR UNIT MODEL -->				AES125PIH									
Indoor unit models		Type	Cooling					Heating					
			Indoor capacity (kW)				Total capacity kW	Indoor capacity (kW)				Total capacity kW	
			A	B	C	D		A	B	C	D		
Connectable Indoor units	1 unit	ASS125PH	Cassette	12,50	-	-	-	12,5 (2,7-14,0)	14,00	-	-	-	14,0 (2,7-16,0)
		ACS125PH	Underceiling	12,50	-	-	-	12,5 (2,7-14,0)	14,00	-	-	-	14,0 (2,7-16,0)
		ADS125PH	Ducted	12,50	-	-	-	12,5 (2,7-14,0)	14,00	-	-	-	14,0 (2,7-16,0)
	2 units also mixed	AWS71PH	High-wall	6,25	6,25	-	-	12,5 (2,7-14,0)	7,00	7,00	-	-	14,0 (2,7-16,0)
		ASS71PH	Cassette	6,25	6,25	-	-	12,5 (2,7-14,0)	7,00	7,00	-	-	14,0 (2,7-16,0)
		ACS71PH	Underceiling	6,25	6,25	-	-	12,5 (2,7-14,0)	7,00	7,00	-	-	14,0 (2,7-16,0)
	3 units	ADS71PH	Ducted	6,25	6,25	-	-	12,5 (2,7-14,0)	7,00	7,00	-	-	14,0 (2,7-16,0)
		AWS45PH	High-wall	4,16	4,16	4,16	-	12,5 (2,7-14,0)	4,66	4,66	4,66	-	14,0 (2,7-16,0)
		ASS45PH	Cassette	4,16	4,16	4,16	-	12,5 (2,7-14,0)	4,66	4,66	4,66	-	14,0 (2,7-16,0)
	4 units also mixed	ADS45PH	Ducted	4,16	4,16	4,16	-	12,5 (2,7-14,0)	4,66	4,66	4,66	-	14,0 (2,7-16,0)
		FC45PHG	Floor/Ceiling	4,16	4,16	4,16	-	12,5 (2,7-14,0)	4,66	4,66	4,66	-	14,0 (2,7-16,0)
		AWS36PH	High-wall	3,12	3,12	3,12	3,12	12,5 (2,7-14,0)	3,50	3,50	3,50	3,50	14,0 (2,7-16,0)
		ASS36PH	Cassette	3,12	3,12	3,12	3,12	12,5 (2,7-14,0)	3,50	3,50	3,50	3,50	14,0 (2,7-16,0)
		ADS36PH	Ducted	3,12	3,12	3,12	3,12	12,5 (2,7-14,0)	3,50	3,50	3,50	3,50	14,0 (2,7-16,0)
		FC36PHG	Floor/Ceiling	3,12	3,12	3,12	3,12	12,5 (2,7-14,0)	3,50	3,50	3,50	3,50	14,0 (2,7-16,0)

- Note n.1 Indoor units names contain one number identifying their nominal capacity in kW (i.e.: 71=7,1kW=25000 BTU/h)
- Note n.2 The Indoor units here indicated have the same characteristics as the Indoor units used with the MultiSet DCInverter systems described in the following pages; the only difference is the type of pcb installed.
- Note n.3 The control systems (wireless, wired, weekly timer, system controller, etc...) are equal to those used for the MultiSet DCInverter systems described in the following pages.

MULTIPACKAGE DC INVERTER R410A



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Features

Straight cooling and heat pump air conditioners series Package DC Inverter R410A can be set with two, three or four indoor units operating simultaneously; this type of installation is the best for big shops, open space offices, restaurants,...

The installation of more indoor units in one only big room allows a better diffusion of the conditioned air

The MultiPackage DC Inverter R410A control systems allow a sophisticated control of single and multi-package configurations by zones, with a maximum of 256 indoor units being managed by one only intelligent controller

In addition to single-Package DC Inverter R410A features, change-over functionality and Cluster control, both in cooling and heating modes

Two-unit matchings (duo) are realized with a 2-way distribution joint kit

Three-unit matchings (trio) are realized with a 3-way distribution joint kit

Four-unit matchings (quartet) are realized with 3 distribution joint kits (2-way), in tree configuration (1 > 2 > 4)

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

"I Feel" feature, granting the best comfort conditions

Night set back capability

All MultiPackage DC Inverter R410A systems may be controlled by infrared remote control with digital 24h timer and temperature sensor inside or by a special wired controller with configuration, diagnostic and weekly timer capabilities; in the following pages are shown all the MultiPackage DC Inverter R410A control systems

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

Auto restart after a power supply black out

Electronic protection against over-pressures

Wide operating range with outdoor air temperatures up to -15°C in both cooling and heating modes

Single-phase (230/1/50) power supply thanks to DC Inverter technology low consumption

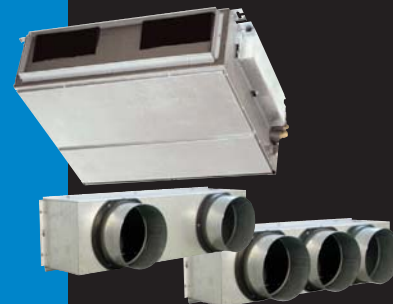
Double rotary compressor



Hi-wall units



Cassette units



Ducted units



Ceiling units



Floor/Ceiling units

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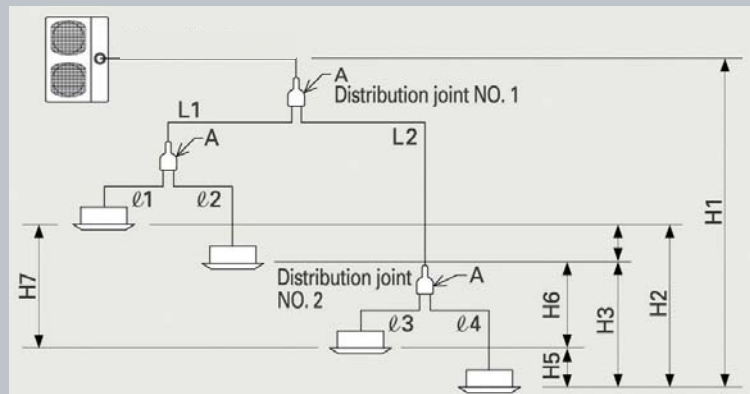
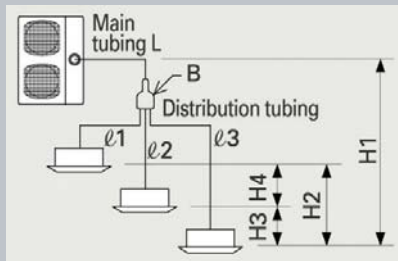
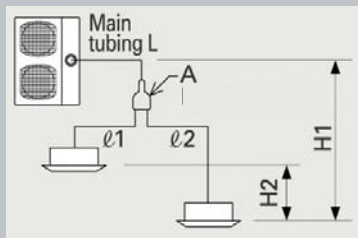
MULTIPACKAGE DC INVERTER R410A



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PIPES

MAX PIPES LENGHT AND MAX HEIGHT DIFFERENCE BETWEEN UNITS (in duo, trio and quartet configuration)



Description	Duo	Trio	Quartet	Lenght (m)
Pipes lenght from the Outdoor unit to the farthest Indoor unit	L+I1 L+I2	L+I1, L+I2 L+I3	L+L1+I1, L+L1+I2 L+L2+I3, L+L2+I4	50
Pipes lenght after the first distribution	l1, l2	l1, l2, l3	L1+I1, L1+I2 L2+I3, L2+I4	15
Difference between maximum and minimum pipes lenght , after the first distribution	l1>l2	l1>l2>l3	Max: L2+I4	10
	l1-l2	l1-l2 l1-l3 l2-l3	Min: L1+I1 (L2+I4)-(L1+I1)	
Max. pipes lenght difference at distribution joint no. 1	-	-	L2>L1 L2-L1	10
Max. pipes lenght difference at distribution joint no. 2	-	-	l2>l1 l4>l3 l2-l1 l4-l3	10
Max. height difference between units (Outdoor on top)		H1		30
Max. height difference between units (Indoor on top)		H1		15
Max. height difference between Indoor units	H2	H2, H3, H4	H2, H3, H4, H5, H6, H7	0,5

PIPES DIAMETER

Type capacity of indoor units -->		36	45	56	71	100	125
Liquid pipe diameter	mm(inch")	6,35(1/4")	6,35(1/4")	6,35(1/4")	9,52(3/8")	9,52(3/8")	9,52(3/8")
Gas pipe diameter	mm(inch")	12,7(1/2")	12,7(1/2")	12,7(1/2")	15,88(5/8")	15,88(5/8")	15,88(5/8")

MULTIPACKAGE DC INVERTER R410A



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INDOOR UNITS TABLE

	Hi-wall units					Dimension (HxWxD)	Net weight
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)			
AWS36PH	m ³ /h 720-600-420	l/h 1,9	3 + Auto	dB(A) 35-31-27		mm 285x995x203	kg 12
AWS45PH	m ³ /h 720-600-420	l/h 1,9	3 + Auto	dB(A) 35-31-27		mm 285x995x203	kg 12
AWS56PH	m ³ /h 780-660-480	l/h 2,1	3 + Auto	dB(A) 38-34-30		mm 285x995x203	kg 12
AWS71PH	m ³ /h 1140-1020-840	l/h 4,0	3 + Auto	dB(A) 41-37-34		mm 330x1.140x228	kg 21

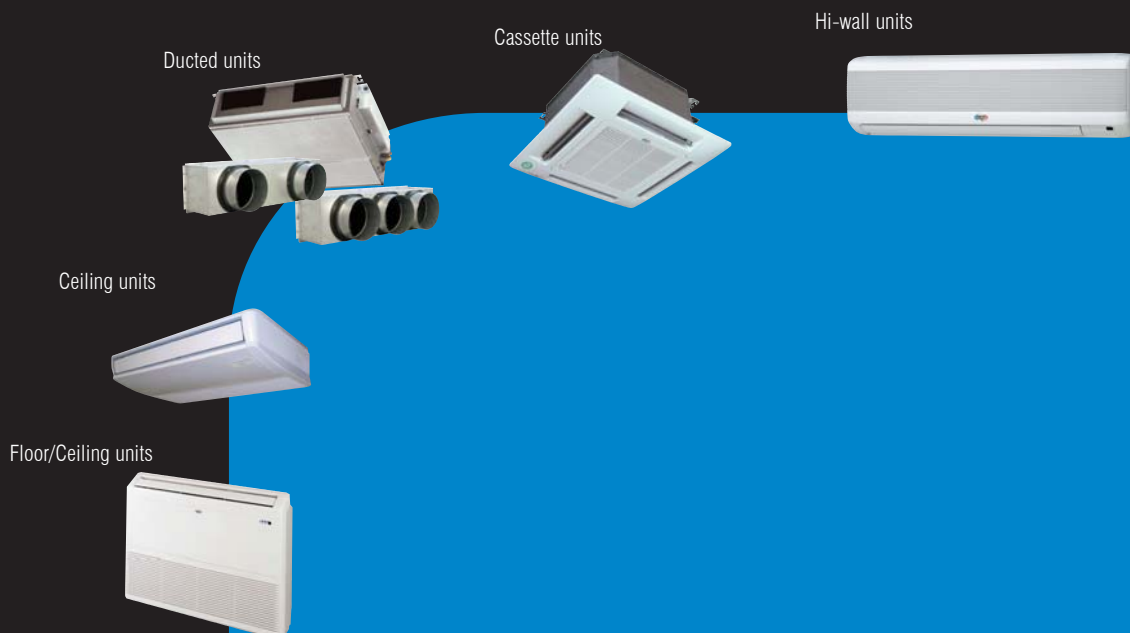
Cassette units							
ASS36PH	m ³ /h 700-600-500	l/h 1,2	3 + Auto	dB(A) 43-39-36		mm 273x575x575	kg 16
ASS45PH	m ³ /h 750-630-530	l/h 2,3	3 + Auto	dB(A) 44-39-36		mm 273x575x575	kg 18
ASS56PH	m ³ /h 750-630-530	l/h 2,3	3 + Auto	dB(A) 44-39-36		mm 273x575x575	kg 18
ASGM0918 (grille)	-	-	-	-		mm 64x730x730	kg 2,5
ASS71PH (with grille)	m ³ /h 1140-1020-840	l/h 3,6	3 + Auto	dB(A) 47-45-41		mm 338x860x860	kg 22
ASG0025E (grille)	-	-	-	-		mm30x860x860	kg 6
ASS100PH (with grille)	m ³ /h 1920-1680-1320	l/h 4,6	3 + Auto	dB(A) 53-50-46		mm 338x1150x860	kg 27
ASS125PH (with grille)	m ³ /h 1920-1680-1320	l/h 6,3	3 + Auto	dB(A) 53-50-46		mm 338x1150x860	kg 27
ASG3648E (grille)	-	-	-	-		mm 30x1150x860	kg 8

Ducted units							
ADS36PH	m ³ /h 600-510-440	l/h 1,5	3 + Auto	dB(A) 45-43-40		mm 266x926x571	kg 30
2-way duct (200 mm each) Plenum	-	-	-	-		mm 266x926x200	kg 6
ADS45PH	m ³ /h 875-600-400	l/h 2,3	3 + Auto	dB(A) 45-43-40		mm 266x1132x571	kg 35
ADS56PH	m ³ /h 875-600-400	l/h 2,3	3 + Auto	dB(A) 45-43-40		mm 266x1132x571	kg 35
3-way duct (200 mm each) Plenum	-	-	-	-		mm 266x1132x200	kg 7,5
ADS71PH	m ³ /h 1080-900-780	l/h 3,5	3 + Auto	dB(A) 34-30-27		mm 310x1000x630	kg 32
ADS100PH	m ³ /h 1800-1560-1260	l/h 4,2	3 + Auto	dB(A) 38-33-31		mm 310x1480x630	kg 47
ADS125PH	m ³ /h 1980-1560-1320	l/h 6,6	3 + Auto	dB(A) 40-37-33		mm 310x1480x630	kg 47

Floor/ceiling units							
FC36PHG	m ³ /h 630-540-450	l/h 1,3	3 + Auto	dB(A) 49- -		mm 680x900x190	kg 23,5
FC45PHG	m ³ /h 720-650-580	l/h 2,3	3 + Auto	dB(A) 51- -		mm 680x900x190	kg 23,5
FC56PHG	m ³ /h 720-650-580	l/h 3,3	3 + Auto	dB(A) 51- -		mm 680x900x190	kg 23,5

Ceiling units							
ACS71PH	m ³ /h 1098-900-840	l/h 3,0	3 + Auto	dB(A)38-36-33		mm 210x1180x680	kg 25
ACS100PH	m ³ /h 1650-1380-1200	l/h 3,9	3 + Auto	dB(A) 41-38-35		mm 210x1595x680	kg 33
ACS125PH	m ³ /h 1800-1560-1320	l/h 5,6	3 + Auto	dB(A) 43-40-37		mm 210x1595x680	kg 35

NB: For the indoor units capacity see the matching table.



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PACKAGE-MULTIPACKAGE DC INVERTER



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CONTROLS & ACCESSORIES

Infrared remote controller to be used with high-wall indoor units



Standard wired remote controller with full features control, self-diagnostic and centralized programming capabilities



Infrared remote controller to be used with cassette and floor/ceiling indoor units



Simplified wired remote controller to be used with the full range of indoor units; it controls all the main features



Infrared remote controller to be used with underceiling indoor units



Remote sensor to be used with the full range of indoor units to detect the room temperature when no remote controller sensor or body sensor is used; suggested for air-conditioner systems without remote controller



Infrared remote controller to be used, in matching with a special infrared receiver, with the full range of indoor units; it shows the operation status of the air-conditioner



Schedule timer able to manage up to 64 indoor units with customized programming of all features, on/off cycles, etc.



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ER R410A – CONTROLS & ACCESSORIES



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OPTIONAL DISTRIBUTION JOINT KITS (for indoor units)

DDVI16

capacity after distribution joint is 16.0 kW or less

DTVP

capacity after distribution joint is 28.0 kW or less

INDOOR UNIT CONNECTION PIPING (ø1, ø2, ø3, ø4)

Units : mm (in.)

Indoor unit	type 36	type 45	type 56	type 71	type 100	type 125
Gas pipe		12.7 (1/2)			15.88 (5/8)	
Liquid pipe		6.53 (1/4)			9.52 (3/8)	

DDVI16

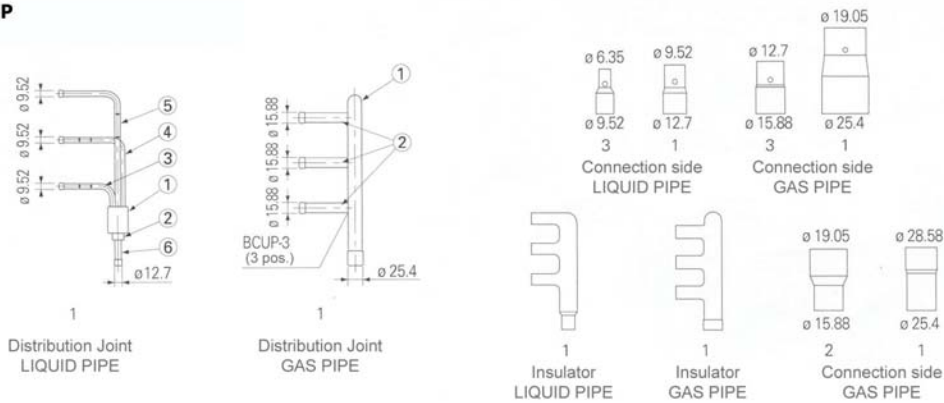


CONNECTION DIMENSIONS OF THE PARTS (pipes inner diameter)

Units : mm (in.)

Position	Part A	Part B	Part C	Part D	Part E	Part F	Part G
Dimension	ø 28.58	ø 25.4	ø 19.05	ø 15.88	ø 12.7	ø 9.52	ø 6.35

DTVP



MULTISET V.R.F. DC INVERTER R410A



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MINI MULTISSET V.R.F. DCI R410A

AES04MMIH	Cooling:	11,2 kW
	Heating:	12,5 kW
AES05MMIH	Cooling:	14 kW
	Heating:	16 kW
AES06MMIH	Cooling:	15,5 kW
	Heating:	17,6 kW



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Available during the second part of 2006

Features

The Mini Multiset V.R.F. DC Inverter System is the new frontier of technologie, specifically thought for residential and light commercial applications

High efficiency DC Inverter Compressor, circuit DCI PAM (Dc Inverter Pulse Amplitude modulation), maximum of 9 indoor units connectable to 1 outdoor unit (model AES06MMIH). DC Inverter Fan

Variable Refrigerant Flow: continuous regulation of the refrigerant flowrate in the circuit of an air conditioning system able to give the best in term of comfort, with very high efficiency levels (E.E.R. up to 4,06 - model AES04MMIH)

The most ecological and efficient refrigerant available for air conditioning systems of this level of thermal capacity

Reduced dimensions of the outdoor unit

Three sizes available: 4-5-6 HP

Single-phase (230/1/50) power supply

Refrigerant circuit of a maximum length of 150 m, to be realized with a big save of time thanks to the reduced pipe dimension and to the simple tree structure that makes widenings easy, not requiring any installation of expensive concentrator apparatus

LAN (Local Area Network) for the interconnection of all the indoor/outdoor units and the system controls, realized with two wiring cables without polarization; the intelligent controllers are able to autosest all the units, simplifying and reducing to minimum the time-to-start

Low sound levels thanks to the special fans and to the careful study of the air movements in suction

The wide range of outdoor air temperature supported allows the operation even in extreme conditions:
- from -10°C to +43°C in cooling mode; from -20°C to +15,5°C in heating mode

Indoor units, controllers (all optional) and accessories are the same as those of 2-way Multiset V.R.F.DCI

DCI

V.R.F.

R410A

COMPACT

WIDE RANGE

230 VOLT

150 m

LAN

SILENCE

WIDE LIMITS

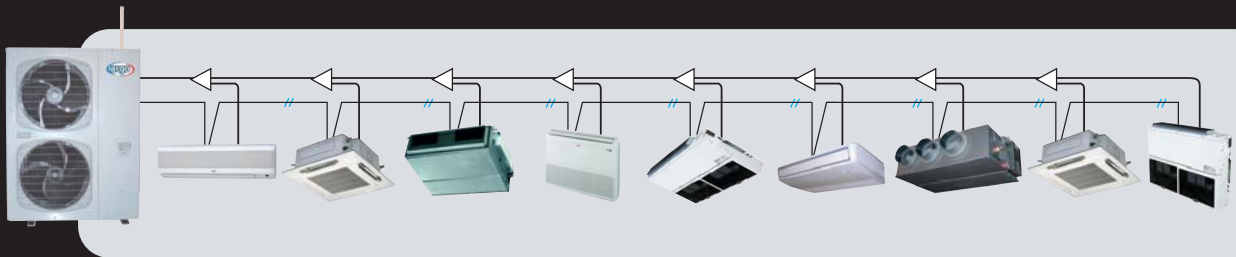
MATCHING & CONTROLS

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MINI MULTISPLIT V.R.F. DCI R410A



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"Inverter" outdoor units

Features	units	AES04MMIH		AES05MMIH		AES06MMIH	
		Cooling	Heating	Cooling	Heating	Cooling	Heating
HP		4		5		6	
kW		11,2	12,5	14,0	16,0	15,5	17,6
BTU/h		38.200	42.700	47.800	54.600	52.900	60.000
kcal/h		9.630	10.750	12.040	13.760	13.330	15.140
E.E.R. / C.O.P.	(kW/kW)	4,06	4,34	3,66	4,1	3,39	3,84
Air flowrate (h.)	m ³ /h	6.000		6.000		6.000	
Sound pressure (normal/silent mode)	dB(A)	51/48		51/48		52/49	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	2,76	2,88	3,83	3,90	4,57	4,58
Compressor type		DC Inverter		DC Inverter		DC Inverter	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")		19,05 (3/4")	
Max. number of connectable indoor units	no.	6		8		9	
Max. pipe length	m	150		150		150	
Gas standard charge	Kg	3,5		3,5		3,5	
Max. distance between indoor units	m	15		15		15	
Max. height between units (Outdoor on top)	m	50		50		50	
Max. height between units (Indoor on top)	m	40		40		40	
Net weight Outdoor	Kg	104		104		104	
Net dimension Outdoor (H./W./D.)	mm	1.200x940x340		1.200x940x340		1.200x940x341	

■ Limitation of refrigerant piping length

Item	365	485	605
Capacity ratio of indoor unit to outdoor unit	50 - 130%		
Max. number of connectable indoor units	6	8	9
Max. actual piping length	150		
Max. total piping length	200		
Allowable elevation difference	When outdoor unit is installed higher than indoor unit		
	When outdoor unit is installed lower than indoor unit		
Max. difference between indoor units	15		

■ Main piping size after distribution

Total capacity after distribution	less than kW	7.1	16
	kW and up	—	7.1
Piping size	Gas pipe (mm)	12.7	15.88
	Liquid pipe (mm)	9.52	9.52

■ Indoor unit connection piping

Indoor unit	Type	22	28	36	45	56	73	106	140
	HP		0.8	1	1.3	1.6	2	2.5	4
Piping size	Gas pipe	12.7			15.88			19.05	
	Liquid pipe	9.52							

MULTISET V.R.F, DC INVERTER R410A



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DC Inverter Compressor + Scroll AC Compressor, the perfect matching for a high efficiency system with capacity up to 48HP, automatically modulated by the DCI PAM (Dc Inverter Pulse Amplitude modulation) circuit on a maximum of 40 indoor units connected

Variable Refrigerant Flow: continuous regulation of the refrigerant flowrate in the circuit of an air conditioning system able to give the best in term of comfort, with very high efficiency levels (COP up to 4,09)

The most ecological and efficient refrigerant available for air conditioning systems of this level of thermal capacity

Two-way system with possibility of condensing and indoor units increase thanks to the simple tree refrigerant circuit

New three-way solution with heat recovery, giving the possibility of a simultaneous independent operation in cooling and/or heating modes of each indoor unit

Reduction of the total refrigerant volume of about 21% in comparison with the previous systems

Refrigerant circuit of a maximum lenght of 300 m, to be realized with a big save of time thanks to the reduced pipe dimension and to the simple tree structure that makes widenings easy, not requiring any installation of expensive concentrator apparatus

LAN (Local Area Network) for the interconnection of all the indoor/outdoor units and the system controls, realized with two wiring cables without polarization; the intelligent controllers are able to autosest all the units, simplifying and reducing to minimum the time-to-start

A special electronic system controls the operating cycles of the compressors, distributing the load and extending the efficiency in the time

The system is able to activate the automatic back-up of the condensing units in error or stopped; the sophisticated control system compensates the bad operation of the blocked outdoor unit, distributing the thermal power to the other outdoor units of the multiple configuration system

For the first time the sound levels are lower than 52 dB; thanks to the special fans and to the careful study of the air movements in suction, the sound levels have been reduced of more than 4 dB in comparison with the previous models

The wide range of outdoor air temperature supported allows the operation even in extreme conditions:

Two-way Systems: from -5°C to +43°C in cooling mode ; from -20°C to +15,5°C in heating mode

Three-way Systems: from -10°C to +43°C in cooling mode ; from -20°C to +15,5°C in heating mode

The condensing units in multiple configuration can be installed at a distance of only 10 cm or very far one from the other, even on different stages of the building; this feature makes the system more adaptable to the various circumstances

DCI + SAC

V.R.F.

R410A

TWO WAY

THREE WAY

HFC= - 21%

300 m

LAN

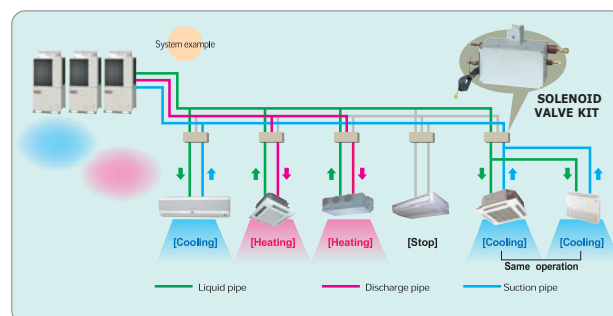
LONG LIFE

BACK UP

SILENCE

WIDE RANGE

FREE PLACE



Three way system sample with heat recover. Simultaneous independent operation in cooling and/or heating modes of each indoor unit.

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MULTISET V.R.F, DC INVERTER R410A



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2 WAY DC INVERTER O.U.

2 WAY C.S. O.U.

3 WAY DC INVERTER O.U.



SYSTEM CONFIGURATION

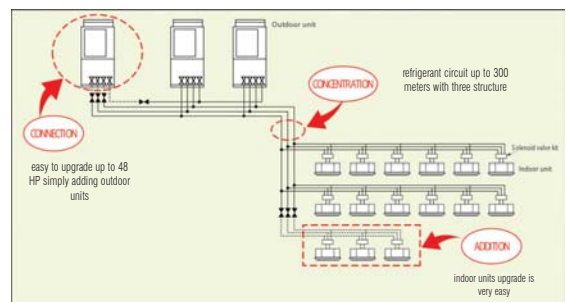
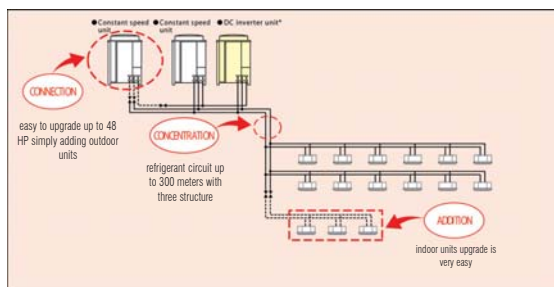
MULTISET V.R.F. DC INVERTER R410A - TWO-WAY SYSTEM CAPACITY TABLE

Capacity class in heating	Max. connectable I.U.	O.U. n° 1 DC Inverter 2-way Circuit	O.U. n° 2 Constant Speed 2-way Circuit	O.U. n° 3 Constant Speed 2-way Circuit	O.U. n° 4 Constant Speed 2-way Circuit	Cooling (kW)			Heating (kW)		
						Total capacity 1+2+3+4	Power input kW	E.E.R.	Total capacity 1+2+3+4	Power input kW	C.O.P.
6	9	AES06MI2H	-	-	-	16,0	4,6	3,51	18,0	4,8	3,75
8	13	AES08MI2H	-	-	-	22,4	6,7	3,34	25,0	6,9	3,65
10	16	AES10MI2H	-	-	-	28,0	8,7	3,21	31,5	8,9	3,53
12	19	AES12MI2H	-	-	-	33,5	10,9	3,07	37,5	11,4	3,29
14	23	AES06MI2H	AES08M2H	-	-	40,0	12,5	3,20	45,0	12,9	3,49
16	26	AES08MI2H	AES08M2H	-	-	45,0	13,9	3,24	50,0	14,1	3,55
18	29	AES10MI2H	AES08M2H	-	-	50,4	15,9	3,17	56,5	16,1	3,51
20	33	AES10MI2H	AES10M2H	-	-	56,0	17,9	3,13	63,0	18,3	3,44
22	36	AES12MI2H	AES10M2H	-	-	61,5	20,2	3,04	69,0	20,7	3,33
24	40	AES12MI2H	AES12M2H	-	-	68,0	22,7	3,00	76,5	23,6	3,24
26	40	AES10MI2H	AES08M2H	AES08M2H	-	73,0	23,2	3,15	81,5	23,3	3,50
28	40	AES10MI2H	AES10M2H	AES08M2H	-	78,5	25,1	3,13	88,0	25,5	3,45
30	40	AES10MI2H	AES10M2H	AES10M2H	-	85,0	27,6	3,08	95,0	27,9	3,41
32	40	AES12MI2H	AES10M2H	AES10M2H	-	90,0	29,6	3,04	100,5	30,1	3,34
34	40	AES12MI2H	AES12M2H	AES10M2H	-	96,0	31,9	3,01	108,0	33,0	3,27
36	40	AES12MI2H	AES12M2H	AES12M2H	-	101,0	33,8	2,99	113,0	34,7	3,26
38	40	AES10MI2H	AES10M2H	AES10M2H	AES08M2H	106,5	34,4	3,10	119,5	34,9	3,42
40	40	AES10MI2H	AES10M2H	AES10M2H	AES10M2H	113,0	36,8	3,07	126,5	37,4	3,38
42	40	AES12MI2H	AES10M2H	AES10M2H	AES10M2H	118,0	38,8	3,04	132,0	39,5	3,34
44	40	AES12MI2H	AES12M2H	AES10M2H	AES10M2H	123,5	40,9	3,02	138,0	41,7	3,31
46	40	AES12MI2H	AES12M2H	AES12M2H	AES10M2H	130,0	43,5	2,99	145,0	44,3	3,27
48	40	AES12MI2H	AES12M2H	AES12M2H	AES12M2H	135,0	45,3	2,98	150,0	46,2	3,25

MULTISET V.R.F. DC INVERTER R410A - THREE-WAY SYSTEM CAPACITY TABLE WITH HEAT RECOVERY

Capacity class in heating	Max. connectable I.U.	O.U. n° 1 DC Inverter 3-way Circuit	O.U. n° 2 DC Inverter 3-way Circuit	O.U. n° 3 DC Inverter 3-way Circuit	O.U. n° 4 DC Inverter 3-way Circuit	Cooling (kW)			Heating (kW)		
						Total capacity 1+2+3+4	Power input kW	E.E.R.	Total capacity 1+2+3+4	Power input kW	C.O.P.
8	13	AES08MI3H	-	-	-	22,4	5,93	3,78	25,0	6,11	4,09
10	16	AES10MI3H	-	-	-	28,0	8,12	3,45	31,5	7,97	3,95
12	19	AES12MI3H	-	-	-	33,5	9,82	3,41	37,5	9,84	3,81
14	23	AES14MI3H	-	-	-	40,0	11,6	3,45	45,0	11,5	3,91
16	26	AES16MI3H	-	-	-	45,0	13,3	3,38	50,0	13,2	3,79
18	29	AES08MI3H	AES10MI3H	-	-	50,4	14,1	3,57	56,5	14,1	4,01
20	33	AES10MI3H	AES10MI3H	-	-	56,0	16,2	3,46	63,0	15,9	3,96
22	36	AES10MI3H	AES12MI3H	-	-	61,5	17,9	3,44	69,0	17,8	3,88
24	40	AES12MI3H	AES12MI3H	-	-	68,0	19,7	3,45	76,5	19,5	3,92
26	40	AES10MI3H	AES16MI3H	-	-	73,0	21,4	3,41	81,5	21,2	3,84
28	40	AES12MI3H	AES16MI3H	-	-	78,5	23,1	3,40	87,5	23,0	3,80
30	40	AES14MI3H	AES16MI3H	-	-	85,0	24,9	3,41	95,0	24,7	3,85
32	40	AES16MI3H	AES16MI3H	-	-	90,0	26,6	3,38	100,0	26,4	3,79
34	40	AES10MI3H	AES10MI3H	AES14MI3H	-	96,0	27,8	3,45	108,0	27,5	3,93
36	40	AES10MI3H	AES10MI3H	AES16MI3H	-	101,0	29,6	3,41	113,0	29,1	3,88
38	40	AES10MI3H	AES12MI3H	AES16MI3H	-	107,0	31,3	3,42	119,0	31,0	3,84
40	40	AES10MI3H	AES14MI3H	AES16MI3H	-	113,0	33,0	3,42	127,0	32,7	3,88
42	40	AES10MI3H	AES16MI3H	AES16MI3H	-	118,0	34,7	3,40	132,0	34,4	3,84
44	40	AES12MI3H	AES16MI3H	AES16MI3H	-	124,0	36,4	3,41	138,0	36,2	3,81
46	40	AES14MI3H	AES16MI3H	AES16MI3H	-	130,0	38,2	3,40	145,0	37,9	3,83
48	40	AES16MI3H	AES16MI3H	AES16MI3H	-	135,0	39,9	3,38	150,0	39,6	3,79

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MULTISET V.R.F, DC INVERTER R410A

HI-WALL



22/28/36/56/73

DUCTED



22/28/36/45/56/64
73/106/140

FLOOR/CEILING



22/28/36/45/56/64



improve your life

CASSETTE



22/28/36/45/56/73
106/140

CEILING



73/106/140

SLIM DUCTED



22/28/36/45/56/64

INDOOR UNITS FOR MINI & MULTISET SYSTEMS

Hi-wall units						
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)	Dimension (HxWxD)	Net weight
AWS22MH	m ³ /h 600-480-360	l/h 1,3	3 + Auto	dB(A) 36-32-28	mm 285x995x203	kg 14
AWS28MH	m ³ /h 600-480-360	l/h 1,6	3 + Auto	dB(A) 36-32-28	mm 285x995x203	kg 14
AWS36MH	m ³ /h 600-480-360	l/h 2,0	3 + Auto	dB(A) 36-32-28	mm 285x995x203	kg 14
AWS56MH	m ³ /h 720-600-480	l/h 2,3	3 + Auto	dB(A) 36-32-28	mm 285x995x203	kg 14
AWS73MH	m ³ /h 960-840-600	l/h 4,0	3 + Auto	dB(A) 42-38-35	mm 330x1.140x228	kg 21

Cassette units						
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)	Dimension (HxWxD)	Net weight
ASS22MH	m ³ /h 700-600-500	l/h 0,9	3 + Auto	dB(A) 43-39-36	mm 273x575x575	kg 16
ASS28MH	m ³ /h 700-600-500	l/h 1,0	3 + Auto	dB(A) 43-39-36	mm 273x575x575	kg 16
ASS36MH	m ³ /h 700-600-500	l/h 1,2	3 + Auto	dB(A) 43-39-36	mm 273x575x575	kg 16
ASS45MH	m ³ /h 750-630-530	l/h 2,3	3 + Auto	dB(A) 44-39-36	mm 273x575x575	kg 18
ASS56MH	m ³ /h 750-630-530	l/h 2,3	3 + Auto	dB(A) 44-39-36	mm 273x575x575	kg 18
ASGM0918 (grille)	-	-	-	-	mm 64x730x730	kg 2,5
ASS73MH (with grille)	m ³ /h 1140-1020-840	l/h 3,6	3 + Auto	dB(A) 47-45-41	mm 338x860x860	kg 22
ASG0025E (grille)	-	-	-	-	mm 30x860x860	kg 6
ASS106MH (with grille)	m ³ /h 1920-1680-1320	l/h 4,6	3 + Auto	dB(A) 53-50-46	mm 338x1150x860	kg 27
ASS140MH (with grille)	m ³ /h 1920-1680-1320	l/h 6,3	3 + Auto	dB(A) 53-50-46	mm 338x1150x860	kg 27
ASG3648E (grille)	-	-	-	-	mm 30x1150x860	kg 8

Ducted units						
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)	Dimension (HxWxD)	Net weight
ADS22MH	m ³ /h 600-510-440	l/h 0,8	3 + Auto	dB(A) 45-43-40	mm 266x926x571	kg 30
ADS28MH	m ³ /h 600-510-440	l/h 0,8	3 + Auto	dB(A) 45-43-40	mm 266x926x571	kg 30
ADS36MH	m ³ /h 600-510-440	l/h 1,5	3 + Auto	dB(A) 45-43-40	mm 266x926x571	kg 30
2-way duct (200 mm each) Plenum	-	-	-	-	mm 266x926x200	kg 6
AD45MHG	m ³ /h 875-600-400	l/h 2,3	3 + Auto	dB(A) 45-43-40	mm 266x1132x571	kg 35
ADS56MH	m ³ /h 875-600-400	l/h 2,3	3 + Auto	dB(A) 45-43-40	mm 266x1132x571	kg 35
AD64MHG	m ³ /h 1000-700-600	l/h 2,6	3 + Auto	dB(A) 48-46-43	mm 266x1132x571	kg 35
3-way duct (200 mm each) Plenum	-	-	-	-	mm 266x1132x200	kg 7,5
ADS73MH	m ³ /h 1080-900-780	l/h 3,5	3 + Auto	dB(A) 34-30-27	mm 310x1000x630	kg 32
ADS106MH	m ³ /h 1800-1560-1260	l/h 4,2	3 + Auto	dB(A) 38-33-31	mm 310x1480x630	kg 47
ADS140MH	m ³ /h 1980-1560-1320	l/h 6,6	3 + Auto	dB(A) 40-37-33	mm 310x1480x630	kg 47

Floor/ceiling units						
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)	Dimension (HxWxD)	Net weight
FC22MHG	m ³ /h 630-540-450	l/h 1,0	3 + Auto	dB(A) 49-43-38	mm 680x900x190	kg 23,5
FC28MHG	m ³ /h 630-540-450	l/h 1,2	3 + Auto	dB(A) 49-43-38	mm 680x900x190	kg 23,5
FC36MHG	m ³ /h 630-540-450	l/h 1,3	3 + Auto	dB(A) 49-43-38	mm 680x900x190	kg 23,5
FC45MHG	m ³ /h 720-650-580	l/h 2,3	3 + Auto	dB(A) 51- 47-43	mm 680x900x190	kg 23,5
FC56MHG	m ³ /h 720-650-580	l/h 2,3	3 + Auto	dB(A) 51- 47-43	mm 680x900x190	kg 23,5
FC64MHG	m ³ /h900--	l/h 3,3	3 + Auto	dB(A) 52- 49-46	mm 680x900x190	kg 23,5

Ceiling units						
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)	Dimension (HxWxD)	Net weight
ACS73MH	m ³ /h 1098-900-840	l/h 3,0	3 + Auto	dB(A)38-36-33	mm 210x1180x680	kg 25
ACS106MH	m ³ /h 1650-1380-1200	l/h 3,9	3 + Auto	dB(A) 41-38-35	mm 210x1595x680	kg 33
ACS140MH	m ³ /h 1800-1560-1320	l/h 5,6	3 + Auto	dB(A) 43-40-37	mm 210x1595x680	kg 33

Slim ducted units						
	Air flowrate (h.m.l.)	Dry	Fan speeds	Sound pressure(h.m.l.)	Dimension (HxWxD)	Net weight
SD22MHG	m ³ /h 470-380-340	l/h 1,0	3 + Auto	dB(A) 37-30-26	mm 585x890x190	kg 25
SD28MHG	m ³ /h 470-380-340	l/h 1,2	3 + Auto	dB(A) 37-30-26	mm 585x890x190	kg 25
SD36MHG	m ³ /h 470-380-340	l/h 1,3	3 + Auto	dB(A) 37-30-26	mm 585x890x190	kg 25
SD45MHG	m ³ /h 620-540-450	l/h 2,3	3 + Auto	dB(A) 45-41-33	mm 585x890x190	kg 25
SD56MHG	m ³ /h 620-540-451	l/h 2,3	3 + Auto	dB(A) 45-41-33	mm 585x890x190	kg 25
SD64MHG	m ³ /h 680-600-520	l/h 3,3	3 + Auto	dB(A) 49-45-40	mm 585x890x190	kg 25

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MULTISET V.R.F, DC INVERTER R410A



improve your life

Primary outdoor units – Inverter 2-way systems



Features

DC Inverter outdoor units for two-way Multiset V.R.F. systems

To be installed as primary units and to be matched with secondary Constant-Speed units

R410A HFC refrigerant

Twin Rotary DC Inverter compressor, highly efficient at low rotation frequencies

Fan with direct current motor that allows a consumption reduction of about 50% and a speed modulation up to 16 steps in spite of the usual 4 steps of the alternate current motors; this performance increases the efficiency of the thermodynamic system which is able to best adapt to the variations of temperature and thermal load of the rooms

The use of a special oil sensor allows, for the first time in the world, to keep under control the lubrication of the mechanical parts of the compressor

Special air intakes and Double Chamber construction technology allowed to unify the dimensions of the units, making easier the closing up for multiple installations in which two units can be placed at a distance of only 10 cm one from the other, the smaller distance available

A special fan made of resin allows to reduce the sound level of the outdoor units (all models except only for AES06MI2H9)

A special resin grille has been designed and used for these units in order to minimize air pressure drops and consequently reduce the outdoor sound level of 4 dB

New high efficiency Cross-Arranged heat exchanger with three-way suction, divided in two sections with double control of defrosting cycle

Pressure control automatic and by software on PC

Pipe connection inside the unit frame through a special space to be closed back when the installation is finished

Equipped with Fault-Tolerant system granting in multiple installations the operation of the air conditioning system also in case of total stop of one condensing unit

Support to Long-Life system that, in multiple installations, allows a cyclic use of the condensing units, granting a balance of the compressors activity

Wide range of outdoor air temperature: from -5°C to +43°C in cooling mode and from -20°C to +15,5°C in heating mode

Maximum length of the refrigerant circuit extended to 300 m

The refrigerant circuit doesn't require distribution apparatus downstream of the unit as it can be realized with a tree structure using only the special distributor accessories; this feature facilitates any type of system widening, by adding both outdoor and indoor units

Three-phase autosense power supply 380-415/3N/50Hz

MULTISET V.R.F, DC INVERTER R410A



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Technical data

Primary outdoor units "Inverter"	Features	units	AES06MI2H		AES08MI2H	
			Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW		16,00	18,00	22,40	25,00
	BTU/h		54.600	61.400	76.400	85.300
	kcal/h		13.760	15.480	19.270	21.500
E.E.R. / C.O.P.	(kW/kW)		3,51	3,75	3,34	3,65
Air flowrate (h.)	m ³ /h		4.800		9.000	
Sound pressure (normal/silent mode)	dB(A)		53/48		55/50	
Power supply	V/Ph/Hz		400/3N/50		400/3N/50	
Running consumption	kW		4,6	4,8	6,7	6,9
Compressor type			Twin Rotary DC Inverter		Twin Rotary DC Inv.+Scroll CS	
Refrigerant type			R410A		R410A	
Liquid pipe diameter	mm(inch")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")		19,05(3/4")		19,05(3/4")	
Max. pipe lenght	m		300		300	
Gas standard charge	Kg		7,5		10	
Gas additional charge	gr/m		56		56	
Max. height between units (Outdoor on top)	m		50		50	
Max. height between units (Indoor on top)	m		40		40	
Net weight Outdoor	Kg		198		278	
Net dimension Outdoor (H./W./D.)	mm		1.580x750(+73)x890		1.580x890(+75)x890	

Primary outdoor units "Inverter"	Features	units	AES10MI2H		AES12MI2H	
			Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW		28,00	31,50	33,50	37,50
	BTU/h		95.500	107.500	114.300	128.000
	kcal/h		24.080	27.090	28.810	32.250
E.E.R. / C.O.P.	(kW/kW)		3,21	3,53	3,07	3,29
Air flowrate (h.)	m ³ /h		9.000		9.000	
Sound pressure (normal/silent mode)	dB(A)		55/50		56/51	
Power supply	V/Ph/Hz		400/3N/50		400/3N/50	
Running consumption	kW		8,7	8,9	10,9	11,4
Compressor type			Twin Rotary DC I + Scroll CS		Twin Rotary DC I + Scroll CS	
Refrigerant type			R410A		R410A	
Liquid pipe diameter	mm(inch")		9,52(3/8")		12,70(1/2")	
Gas pipe diameter	mm(inch")		22,22(7/8")		25,40(1")	
Max. pipe lenght	m		300		300	
Gas standard charge	Kg		10		10	
Gas additional charge	gr/m		56		128	
Max. height between units (Outdoor on top)	m		50		50	
Max. height between units (Indoor on top)	m		40		40	
Net weight Outdoor	Kg		280		280	
Net dimension Outdoor (H./W./D.)	mm		1.580x890(+75)x890		1.580x890(+75)x890	

MULTISET V.R.F, DC INVERTER R410A



improve your life

Secondary outdoor units “Constant speed” 2-way systems



Features

Constant-Speed outdoor units for two-way Multiset V.R.F. systems

To be installed as secondary units and to be matched with primary DC Inverter units

R410A HFC refrigerant

High efficiency Scroll compressor

Fan with direct current motor that allows a consumption reduction of about 50% and a speed modulation up to 16 steps in spite of the usual 4 steps of the alternate current motors; this performance increases the efficiency of the thermodynamic system which is able to best adapt to the variations of temperature and thermal load of the rooms

The use of a special oil sensor allows, for the first time in the world, to keep under control the lubrication of the mechanical parts of the compressor

Special air intakes and Double Chamber construction technology allowed to unify the dimensions of the units, making easier the closing up for multiple installations in which two units can be placed at a distance of only 10 cm one from the other, the smaller distance available

A special fan made of resin allows to reduce the sound level of the outdoor units

A special resin grille has been designed and used for these units in order to minimize air pressure drops and consequently reduce the outdoor sound level of 4 dB

New high efficiency Cross-Arranged heat exchanger with three-way suction, divided in two sections with double control of defrosting cycle

Pressure control automatic and by software on PC

Pipe connection inside the unit frame through a special space to be closed back when the installation is finished

Equipped with Fault-Tolerant system granting in multiple installations the operation of the air conditioning system also in case of total stop of one condensing unit

Support to Long-Life system that, in multiple installations, allows a cyclic use of the condensing units, granting a balance of the compressors activity

Wide range of outdoor air temperature: from +5°C to +43°C in cooling mode and from -20°C to +15,5°C in heating mode

Maximum length of the refrigerant circuit extended to 300 m

The refrigerant circuit doesn't require distribution apparatus downstream of the unit as it can be realized with a tree structure using only the special distributor accessories; this feature facilitates any type of system widening, by adding both outdoor and indoor units

Three-phase autosense power supply 380-415/3N/50Hz

MULTISET V.R.F, DC INVERTER R410A



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Technical data

Secondary outdoor units "Constant Speed"		AES08M2H	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	22,40	25,00
	BTU/h	76.400	85.300
	kcal/h	19.270	21.500
	(kW/kW)	3,11	3,47
E.E.R. / C.O.P.			9,000
Air flowrate (h.)	m ³ /h		54,5/49,5
Sound pressure (normal/silent mode)	dB(A)		400/3N/50
Power supply	V/Ph/Hz		
Running consumption	kW	7,2	7,2
Compressor type			Scroll CS
Refrigerant type			R410A
Liquid pipe diameter	mm(inch")		9,52(3/8")
Gas pipe diameter	mm(inch")		19,05(3/4")
Max. pipe length	m		300
Gas standard charge	Kg		10
Gas additional charge	gr/m		56
Max. height between units (Outdoor on top)	m		50
Max. height between units (Indoor on top)	m		40
Net weight Outdoor	Kg		276
Net dimension Outdoor (H./W./D.)	mm		1.580x890(+75)x890

Secondary outdoor units "Constant Speed"		AES10M2H	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	28,00	31,50
	BTU/h	95.500	107.500
	kcal/h	24.080	27.090
	(kW/kW)	3,03	3,35
E.E.R. / C.O.P.			9,000
Air flowrate (h.)	m ³ /h		55/50
Sound pressure (normal/silent mode)	dB(A)		400/3N/50
Power supply	V/Ph/Hz		
Running consumption	kW	9,2	9,4
Compressor type			Scroll CS
Refrigerant type			R410A
Liquid pipe diameter	mm(inch")		9,52(3/8")
Gas pipe diameter	mm(inch")		22,22(7/8")
Max. pipe length	m		300
Gas standard charge	Kg		10
Gas additional charge	gr/m		56
Max. height between units (Outdoor on top)	m		50
Max. height between units (Indoor on top)	m		40
Net weight Outdoor	Kg		280
Net dimension Outdoor (H./W./D.)	mm		1.580x890(+75)x890

Secondary outdoor units "Constant Speed"		AES12M2H	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	33,50	37,50
	BTU/h	114.300	128.000
	kcal/h	28.810	32.250
	(kW/kW)	2,96	3,23
E.E.R. / C.O.P.			9,000
Air flowrate (h.)	m ³ /h		55,5/50,5
Sound pressure (normal/silent mode)	dB(A)		400/3N/50
Power supply	V/Ph/Hz		
Running consumption	kW	11,3	11,6
Compressor type			Scroll CS
Refrigerant type			R410A
Liquid pipe diameter	mm(inch")		12,70(1/2")
Gas pipe diameter	mm(inch")		25,40(1")
Max. pipe length	m		300
Gas standard charge	Kg		10
Gas additional charge	gr/m		128
Max. height between units (Outdoor on top)	m		50
Max. height between units (Indoor on top)	m		40
Net weight Outdoor	Kg		276
Net dimension Outdoor (H./W./D.)	mm		1.580x890(+75)x890

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MULTISET V.R.F, DC INVERTER R410A



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Outdoor units – Inverter with heat recovery units 3-way systems



Features

DC Inverter outdoor units for three-way Multiset V.R.F. systems

Automatic change-over between cooling and heating modes for each indoor unit; this feature, based on the three-way technology with heat recovery, allows a fully independent operation of each indoor unit

R410A HFC refrigerant

Twin Rotary DC Inverter compressor, highly efficient at low rotation frequencies, matching with a Scroll Constant-Speed compressor

Fan with direct current motor that allows a consumption reduction of about 50% and a speed modulation up to 16 steps in spite of the usual 4 steps of the alternate current motors; this performance increases the efficiency of the thermodynamic system which is able to best adapt to the variations of temperature and thermal load of the rooms

The use of a special oil sensor allows, for the first time in the world, to keep under control the lubrication of the mechanical parts of the compressor

Special air intakes and Double Chamber construction technology allowed to unify the dimensions of the units, making easy the closing up for multiple installations in which two units can be placed at a distance of only 10 cm one from the other, the smaller distance available

Low sound level thanks to a special fan made of resin and a particular resin grille, designed and used for these units in order to minimize air pressure drops

A special resin grille has been designed and used for these units in order to minimize air pressure drops and consequently reduce the outdoor sound level of 4 dB

New high efficiency Cross-Arranged heat exchanger with three-way suction, divided in two sections with double control of defrosting cycle

Pressure control automatic and by software on PC

Pipe connection inside the unit frame through a special space to be closed back when the installation is finished

Equipped with Fault-Tolerant system granting in multiple installations the operation of the air conditioning system also in case of total stop of one condensing unit

Support to Long-Life system that, in multiple installations, allows a cyclic use of the condensing units, granting a balance of the compressors activity

"On Demand" feature allows to best use the characteristics of DC Inverter technology, setting three different levels of electric power on which are automatically based the control microprocessors so that to achieve the maximum performances with reduction of electric consumption

Extra range of outdoor air temperature: from -10°C to +43°C in cooling mode and from -20°C to +15,5°C in heating mode

Maximum length of the refrigerant circuit extended to 300 m

The refrigerant circuit doesn't require distribution apparatus downstream of the unit as it can be realized with a tree structure using only the special distributor accessories; this feature facilitates any type of system widening, by adding both outdoor and indoor units

Three-phase autosense power supply 380-415/3N/50Hz

MULTISET V.R.F, DC INVERTER R410A



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Technical data

3-way outdoor units "Inverter"		AES08MI3H		AES10MI3H		AES12MI3H	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	22,40	25,00	28,00	31,50	33,50	37,50
	BTU/h	76.400	85.300	95.500	107.500	114.300	128.000
	kcal/h	19.270	21.500	24.080	27.090	28.810	32.250
E.E.R. / C.O.P.	(kW/kW)	3,78	4,09	3,45	3,95	3,41	3,81
Air flowrate (h.)	m ³ /h	9.000		9.600		10.800	
Sound pressure (normal/silent mode)	dB(A)	54,5/51,5		55/52		56/53	
Power supply	V/Ph/Hz	400/3N/50		400/3N/50		400/3N/50	
Running consumption	kW	5,93	6,11	8,12	7,97	9,82	9,84
Compressor type		Twin Rotary DCI+Scroll CS		Twin Rotary DCI+Scroll CS		Twin Rotary DCI + Scroll CS	
Refrigerant type		R410A		R410A		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		12,70(1/2")	
Gas pipe diameter (suction)	mm(inch")	19,05(3/4")		22,22(7/8")		25,40(1")	
Gas pipe diameter (discharge)	mm(inch")	15,88(5/8")		19,05(3/4")		19,05(3/4")	
Max. pipe length	m	300		300		300	
Gas standard charge	Kg	12		12		12	
Gas additional charge	qr/m	56		56		128	
Max. height between units (Outdoor on top)	m	50		50		50	
Max. height between units (Indoor on top)	m	40		40		40	
Net weight Outdoor	Kg	290		290		290	
Net dimension Outdoor (H./W./D.)	mm	1.887x890x890(+60)		1.887x890x890(+60)		1.887x890x890(+60)	

3-way outdoor units "Inverter"		AES14MI3H		AES16MI3H	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	40,00	45,00	45,00	50,00
	BTU/h	136.500	153.600	153.600	170.600
	kcal/h	34.400	38.700	38.700	43.000
E.E.R. / C.O.P.	(kW/kW)	3,45	3,91	3,38	3,79
Air flowrate (h.)	m ³ /h	12.000		13.200	
Sound pressure (normal/silent mode)	dB(A)	60/57		61/58	
Power supply	V/Ph/Hz	400/3N/50		400/3N/50	
Running consumption	kW	11,6	11,5	13,3	13,2
Compressor type		Twin Rotary DC I+Scroll CS		Twin Rotary DC I+Scroll CS	
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	12,70(1/2")		12,70(1/2")	
Gas pipe diameter (suction)	mm(inch")	25,40(1")		28,58(1-1/8")	
Gas pipe diameter (discharge)	mm(inch")	22,22(7/8")		22,22(7/8")	
Max. pipe length	m	300		300	
Gas standard charge	Kg	15		15	
Gas additional charge	qr/m	128		128	
Max. height between units (Outdoor on top)	m	50		50	
Max. height between units (Indoor on top)	m	40		40	
Net weight Outdoor	Kg	350		350	
Net dimension Outdoor (H./W./D.)	mm	1.887x890x890(+60)		1.887x890x890(+60)	

MULTISET V.R.F, DC INVERTER R410A

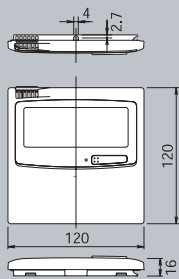


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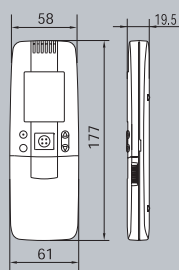
CONTROL SYSTEM DIMENSIONS

● Standard wired remote controller

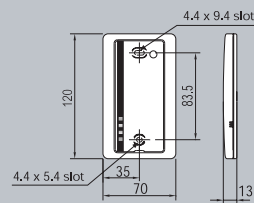
● Schedule timer



● Wireless remote controller

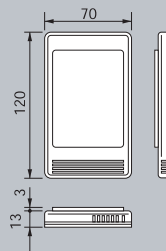


● Separate receiver for wireless remote controller

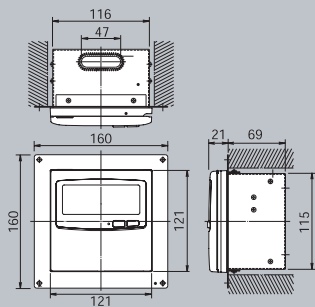


● Simplified remote controller

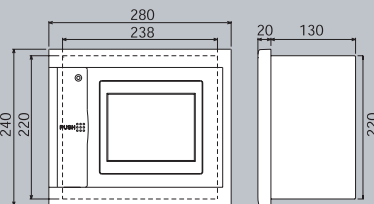
● Remote sensor



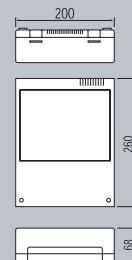
● System controller



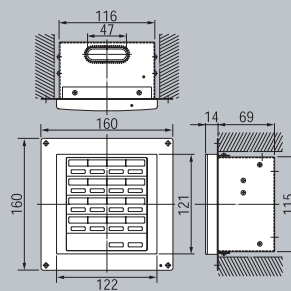
● Intelligent controller



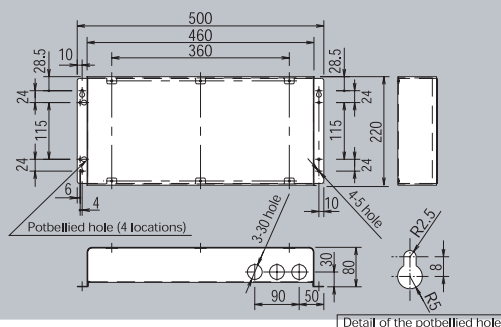
● Communication adapter



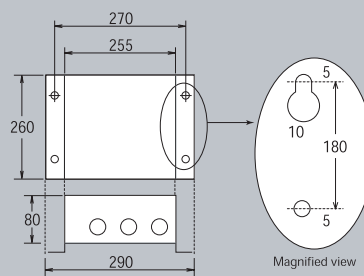
16 ON/OFF controller



● LonWorks interface



PLC INTERFACE for outdoor unit



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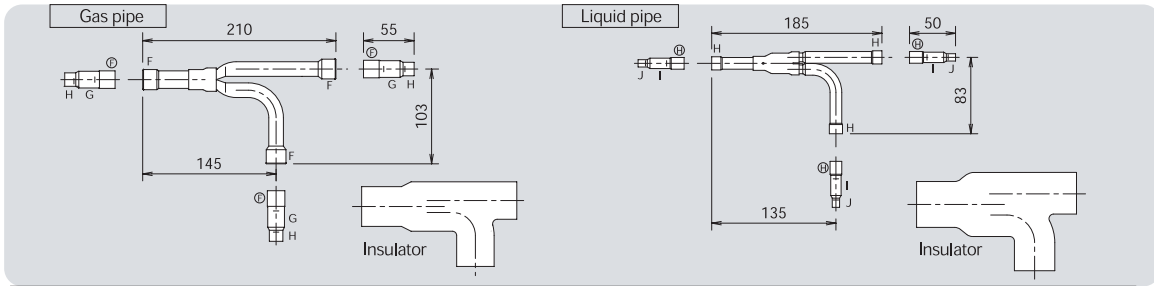


OPTIONAL DISTRIBUTION JOINT KITS FOR 2-WAY SYSTEMS

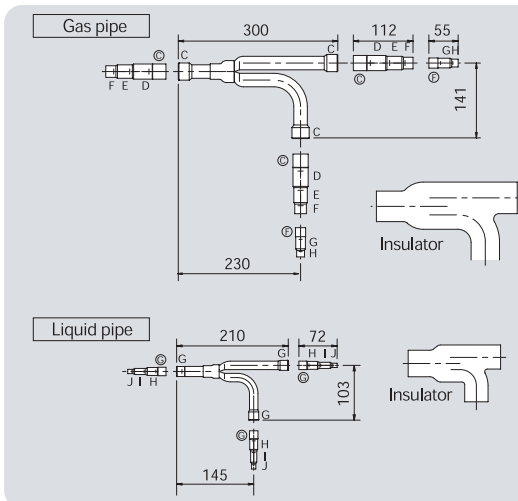
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Position	Part A	Part B	Part C	Part D	Part E	Part F	Part G	Part H	Part I	Part J
Dimension	38.1(1-1/2")	31.75(1-1/4")	28.58(1-1/8")	25.4(1")	22.22(7/8")	19.05(3/4")	15.88(5/8")	12.7(1/2")	9.52(3/8")	6.35(1/4")

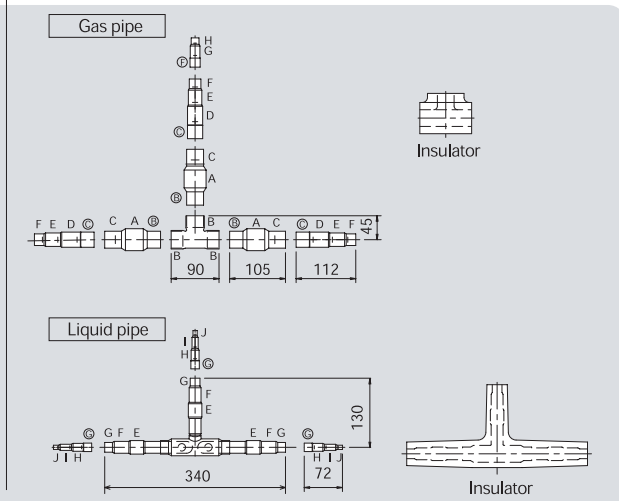
●DDVI16 (for indoor units) (less than 16.0 kW)



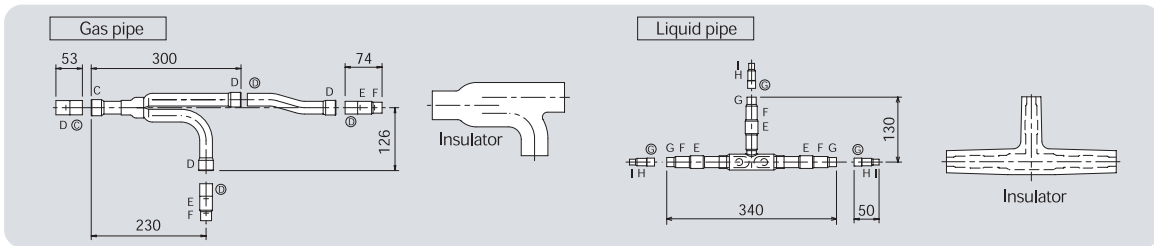
●DDVI68 (for indoor units) (from 16.0 kW to 68.0 kW after joint kit)



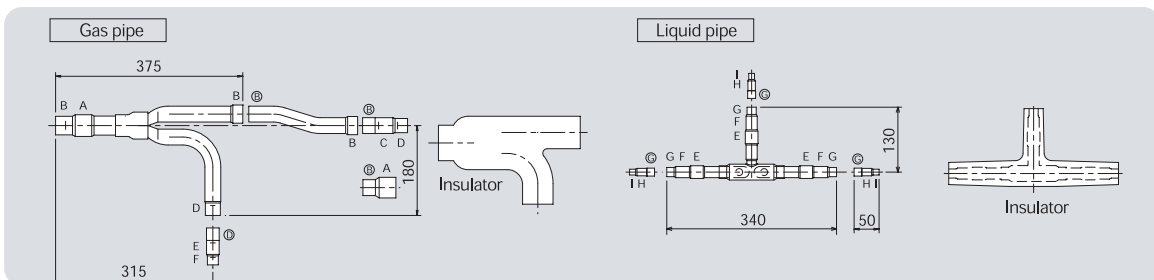
●DDVI135 (for indoor units) (from 68.0 kW to 135.0 kW after joint kit)



●DDVE68 (for outdoor units) (less than 68.0 kW after joint kit)



●DDVE135 (for outdoor units) (from 68.0 kW to 135.0 kW after joint kit)



LEGENDA: (F) letter in circle = female side - F letter not in circle = male side

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SOLENOID VALVE KIT FOR 3-WAY SYSTEMS

Solenoid valve kit

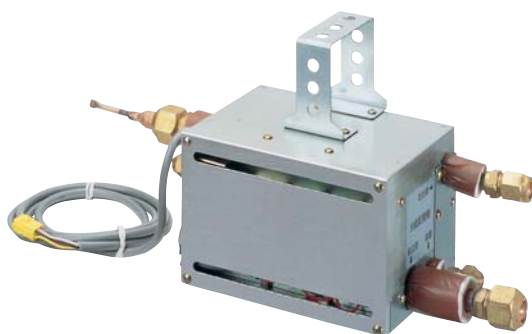
M3 EW 22-56 (for 22-56 types of indoor units)

It is possible to connect 1 only solenoid valve kit controlling a group of indoor units, with a total capacity up to 5,6 kW. All the indoor units of the group will operate in the same mode (cooling or heating)

M3 EW 73-140 (for 73-140 types of indoor units)

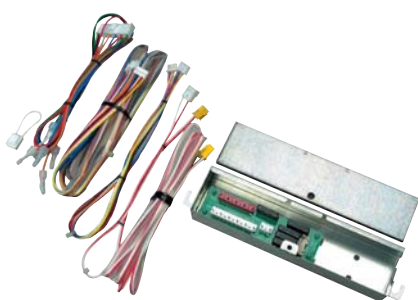
It is possible to connect 1 only solenoid valve kit controlling a group of indoor units, with a total capacity up to 14 kW. All the indoor units of the group will operate in the same mode (cooling or heating)

In case 1 only solenoid valve kit is used to control a group of indoor units, only 1 control must be used for the whole group.



M3 EW C

Solenoid valve controller



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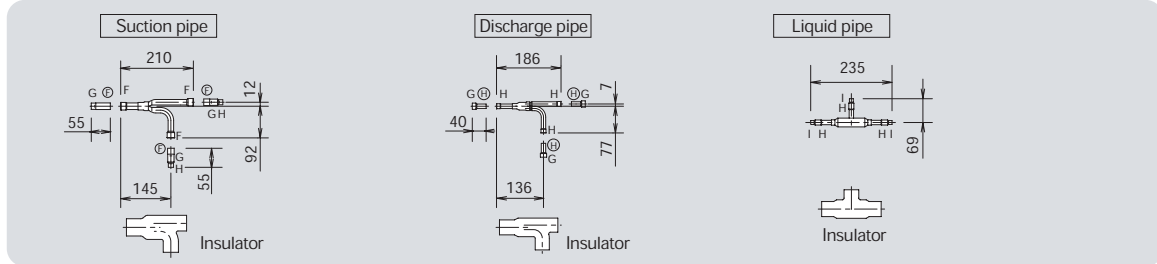


OPTIONAL DISTRIBUTION JOINT KITS FOR 3-WAY SYSTEMS

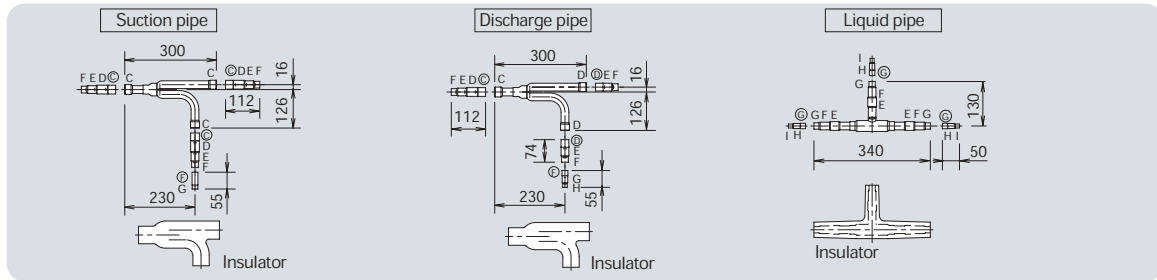
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Position	Part A	Part B	Part C	Part D	Part E	Part F	Part G	Part H	Part I	Part J
Dimension	38.1	31.75	28.58	25.4	22.22	19.05	15.88	12.7	9.52	6.35

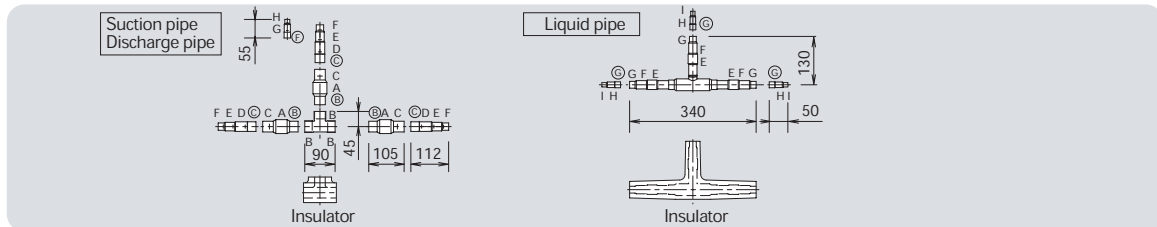
●M3DDV22 (for indoor units) (Capacity after distribution joint is 22.4 kW or less.)



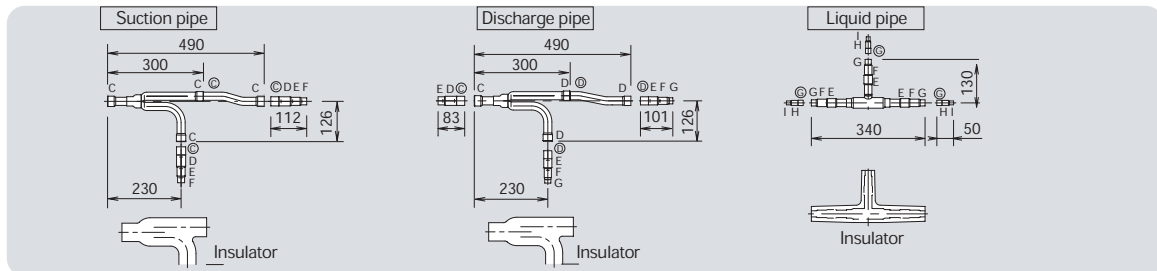
●M3DDV68 (for indoor units) (Capacity after distribution joint is greater than 22.4 kW and no more than 68.0 kW))



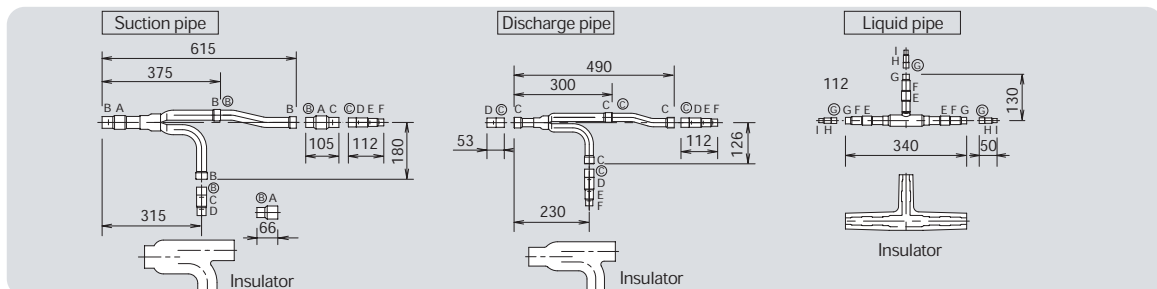
●M3DDV135 (for indoor units) (Capacity after distribution joint is greater than 68.0 kW and no more than 135.0 kW))



●M3DDVE68 (for outdoor units) (Capacity after distribution joint is 68.0 kW or less.)



●M3DDVE135 (for outdoor units) (Capacity after distribution joint is greater than 68.0 kW and no more than 135.0 kW))



LEGENDA: (F) letter in circle = female side - F letter not in circle = male side

MULTISET V.R.F, DC INVERTER R410A



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V.R.F. Indoor Units

AWS 22-28-36-56-73

Features

High wall indoor unit for Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

New three-speed tangential fan by remote control, granting a better and low noise air diffusion

Horizontal flap swinging or to be set to a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filter

Three-way condensate discharge (right, central and left)

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME		AWS22MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	2,20	2,50
	BTU/h	7.500	8.520
	kcal/h	1.890	2.150
Air flowrate Indoor (h.m.l.)	m ³ /h	600-480-360	
Dehumidification	l/h	1,3	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	36-32-28	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,033	0,033
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")	
Net weight Indoor	Kg	14	
Net dimension Indoor (H./W./D.)	mm	285x995x203	

PRODUCT NAME		AWS28MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	2,80	3,20
	BTU/h	9.550	10.920
	kcal/h	2.410	2.750
Air flowrate Indoor (h.m.l.)	m ³ /h	600-480-360	
Dehumidification	l/h	1,6	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	36-32-28	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,033	0,033
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")	
Net weight Indoor	Kg	14	
Net dimension Indoor (H./W./D.)	mm	285x995x203	

PRODUCT NAME		AWS36MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	3,60	4,20
	BTU/h	12.280	14.320
	kcal/h	3.100	3.610
Air flowrate Indoor (h.m.l.)	m ³ /h	600-480-360	
Dehumidification	l/h	2,0	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	36-32-28	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,033	0,033
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")	
Net weight Indoor	Kg	14	
Net dimension Indoor (H./W./D.)	mm	285x995x203	

PRODUCT NAME		AWS56MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	5,60	6,30
	BTU/h	19.100	21.480
	kcal/h	4.820	5.420
Air flowrate Indoor (h.m.l.)	m ³ /h	720-600-480	
Dehumidification	l/h	2,3	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	36-32-28	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,033	0,033
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")	
Net weight Indoor	Kg	14	
Net dimension Indoor (H./W./D.)	mm	285x995x203	

PRODUCT NAME		AWS73MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,00
	BTU/h	24.890	27.280
	kcal/h	6.280	6.880
Air flowrate Indoor (h.m.l.)	m ³ /h	960-840-600	
Dehumidification	l/h	4,0	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	42-38-35	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,052	0,052
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Net weight Indoor	Kg	21	
Net dimension Indoor (H./W./D.)	mm	330x1.140x228	

MULTISET V.R.F, DC INVERTER R410A



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V.R.F. Indoor Units

ASS 22-28-36-45-56

Features

Four-way cassette indoor unit to be matched with Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Horizontal flaps swinging or to be set on a fixed position by remote control

Anti-mould and anti-bacteria washable filter

Integrated pump for condensate discharge

Possibility to have a connection for fresh air intake

Double-way of air duct in adjacent rooms through pre-drilled holes

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME	Units	ASS22MH		ASS28MH	
		Cooling	Heating	Cooling	Heating
Features					
Cooling/Heating capacity	kW	2,20	2,50	2,80	3,20
	BTU/h	7.500	8.520	9.550	10.920
	kcal/h	1.890	2.150	2.410	2.750
Air flowrate Indoor (h.m.l.)	m ³ /h	700-600-500		700-600-500	
Dehumidification	l/h	0,9		1,0	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	43-39-36		43-39-36	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,087	0,087	0,087	0,087
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")		12,70(1/2")	
Net weight Indoor / grille	Kg	16/2,5		16/2,5	
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730	

PRODUCT NAME	Units	ASS36MH		ASS45MH	
		Cooling	Heating	Cooling	Heating
Features					
Cooling/Heating capacity	kW	3,60	4,20	4,70	5,20
	BTU/h	12.280	14.320	16.020	17.740
	kcal/h	3.100	3.610	4.040	4.470
Air flowrate Indoor (h.m.l.)	m ³ /h	700-600-500		750-630-530	
Dehumidification	l/h	1,2		2,3	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	43-39-36		44-39-36	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,087	0,087	0,087	0,087
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")		12,70(1/2")	
Net weight Indoor / grille	Kg	16/2,5		18/2,5	
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730	

PRODUCT NAME	Units	ASS56MH	
		Cooling	Heating
Features			
Cooling/Heating capacity	kW	5,60	6,30
	BTU/h	19.100	21.480
	kcal/h	4.820	5.420
Air flowrate Indoor (h.m.l.)	m ³ /h	750-630-530	
Dehumidification	l/h	2,3	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	44-39-36	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,087	0,087
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")	
Net weight Indoor / grille	Kg	18/2,5	
Net dimension Indoor (H./W./D.)	mm	273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730	

MULTISET V.R.F, DC INVERTER R410A



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model ASS73MH



models ASS106/140MH

V.R.F. Indoor Units

ASS 73-106-140

Features

Four-way cassette indoor unit to be matched with Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Horizontal flaps swinging or to be set on a fixed position by remote control

Special system to avoid condensate dripping from air outlet ribs

Anti-mould and anti-bacteria washable filter

Integrated pump for condensate discharge

Possibility to have a connection for fresh air intake

Double-way of air duct in adjacent rooms through pre-drilled holes

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME		ASS73MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,00
	BTU/h	24.890	27.280
	kcal/h	6.280	6.880
Air flowrate Indoor (h.m.l.)	m ³ /h	1.140-1.020-840	
Dehumidification	l/h	3,6	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	47-45-41	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,175	0,120
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Net weight Indoor / grille	Kg	22/6	
Net dimension Indoor (H./W./D.)	mm	338x860x860	
Net dimension grille (H./W./D.)	mm	30x860x860	

PRODUCT NAME		ASS106MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	10,60	11,40
	BTU/h	36.150	38.880
	kcal/h	9.120	9.800
Air flowrate Indoor (h.m.l.)	m ³ /h	1.920-1.680-1.320	
Dehumidification	l/h	4,6	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	53-50-46	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,210	0,150
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Net weight Indoor / grille	Kg	27/8	
Net dimension Indoor (H./W./D.)	mm	338x1.150x860	
Net dimension grille (H./W./D.)	mm	30x1.150x860	

PRODUCT NAME		ASS140MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	14,00	16,00
	BTU/h	47.740	54.560
	kcal/h	12.040	13.760
Air flowrate Indoor (h.m.l.)	m ³ /h	1.920-1.680-1.320	
Dehumidification	l/h	6,3	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	53-50-46	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,210	0,150
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Net weight Indoor / grille	Kg	27/8	
Net dimension Indoor (H./W./D.)	mm	338x1.150x860	
Net dimension grille (H./W./D.)	mm	30x1.150x860	

MULTISET V.R.F, DC INVERTER R410A



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V.R.F. Indoor Units

ADS 22-28-36

Features

Ducted indoor unit with optional two-way discharge plenum, to be matched with Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm W.G.)

Anti-mould and anti-bacteria washable filter

Integrated pump for condensate discharge

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME		ADS22MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	2,20	2,50
	BTU/h	7.500	8.520
	kcal/h	1.890	2.150
Air flowrate Indoor (h.m.l.)	m ³ /h	600-510-440	
Dehumidification	l/h	0,8	
External static pressure (min-max)	mm W.G.	5-7	
Fan speeds	n°	3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,110	0,110
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")	
Duct diameter of the 2-way discharge plenum (optional)	mm	200	
Net weight Indoor	kg	30	
Net dimension Indoor (H./W./D.)	mm	266x926x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x926x771	

PRODUCT NAME		ADS28MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	2,80	3,20
	BTU/h	9.550	10.920
	kcal/h	2.410	2.750
Air flowrate Indoor (h.m.l.)	m ³ /h	600-510-440	
Dehumidification	l/h	0,8	
External static pressure (min-max)	mm W.G.	5-7	
Fan speeds	n°	3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,110	0,110
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")	
Duct diameter of the 2-way discharge plenum (optional)	mm	200	
Net weight Indoor	kg	30	
Net dimension Indoor (H./W./D.)	mm	266x926x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x926x771	

PRODUCT NAME		ADS36MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	3,60	4,20
	BTU/h	12.280	14.320
	kcal/h	3.100	3.610
Air flowrate Indoor (h.m.l.)	m ³ /h	600-510-440	
Dehumidification	l/h	1,5	
External static pressure (min-max)	mm W.G.	5-7	
Fan speeds	n°	3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,110	0,110
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")	
Duct diameter of the 2-way discharge plenum (optional)	mm	200	
Net weight Indoor	kg	30	
Net dimension Indoor (H./W./D.)	mm	266x926x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x926x771	

MULTISET V.R.F, DC INVERTER R410A



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V.R.F. Indoor Units

ADS 45-56-64

Features

Ducted indoor unit with optional three-way discharge plenum, to be matched with Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm W.G.)

Anti-mould and anti-bacteria washable filter

Integrated pump for condensate discharge

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME		AD45MHG	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	4,70	5,20
	BTU/h	16.020	17.740
	kcal/h	4.040	4.470
Air flowrate Indoor (h.m.l.)	m ³ /h	875-600-400	
Dehumidification	l/h	2,3	
External static pressure (min-max)	mm W.G.	5-7	
Fan speeds	n°	3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,138	0,138
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")	
Duct diameter of the 3-way discharge plenum (optional)	mm	200	
Net weight Indoor	kg	35	
Net dimension Indoor (H./W./D.)	mm	266x1.132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1.132x871	

PRODUCT NAME		ADS56MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	5,60	6,30
	BTU/h	19.100	21.480
	kcal/h	4.820	5.420
Air flowrate Indoor (h.m.l.)	m ³ /h	875-600-400	
Dehumidification	l/h	2,3	
External static pressure (min-max)	mm W.G.	5-7	
Fan speeds	n°	3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,138	0,138
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")	
Duct diameter of the 3-way discharge plenum (optional)	mm	200	
Net weight Indoor	kg	35	
Net dimension Indoor (H./W./D.)	mm	266x1.132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1.132x871	

PRODUCT NAME		AD64MHG	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	6,40	7,00
	BTU/h	21.850	23.870
	kcal/h	5.500	6.020
Air flowrate Indoor (h.m.l.)	m ³ /h	1000-700-600	
Dehumidification	l/h	2,6	
External static pressure (min-max)	mm W.G.	5-7	
Fan speeds	n°	3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	57-55-52	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	48-46-43	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,136	0,136
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Duct diameter of the 3-way discharge plenum (optional)	mm	200	
Net weight Indoor	kg	35	
Net dimension Indoor (H./W./D.)	mm	266x1.132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1.132x871	

MULTISET V.R.F, DC INVERTER R410A



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ADS 106/140

ADS 73

V.R.F. Indoor Units

ADS 73-106-140

Features

Three/four-way ducted indoor unit to be matched with Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

Three-speed centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 10 mm W.G.)

Integrated pump for condensate discharge

Connection for fresh air intake by optional kit with anti-mould and anti-bacteria filter; this kit makes possible the direct access to the internal components for maintenance activities

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

Three-way ducted indoor unit

PRODUCT NAME		ADS73MH	
Features	Units	Cooling	Heating
	kW	7,3	8,0
Cooling/Heating capacity	BTU/h	24.890	27.280
	kcal/h	6.280	6.880
	m ³ /h	1.080-900-780	
Air flowrate Indoor (h.m.l.)	l/h	3,5	
Dehumidification	mm W.G.	5-10	
External static pressure (min-max)	n°	3 + Auto	
Fan speeds	dB(A)	43-39-36	
Sound power Indoor (h.m.l.)	dB(A)	34-30-27	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	< 20	
Sound pressure Indoor at ducts exit	V/Ph/Hz	230/1/50	
Power supply	kW	0,195	0,183
Running consumption		R410A	
Refrigerant type	mm(inch")	9,52(3/8")	
Liquid pipe diameter	mm(inch")	15,88(5/8")	
Gas pipe diameter	mm	200	
Ducts diameter	kg	32	
Net weight Indoor	mm	310x1.000x630	
Net dimension Indoor (H./W./D.)			

Four-way ducted indoor unit

PRODUCT NAME		ADS106MH	
Features	Units	Cooling	Heating
	kW	10,6	11,4
Cooling/Heating capacity	BTU/h	36.140	38.880
	kcal/h	9.120	9.800
	m ³ /h	1.800-1.560-1.260	
Air flowrate Indoor (h.m.l.)	l/h	4,2	
Dehumidification	mm W.G.	5-10	
External static pressure (min-max)	n°	3 + Auto	
Fan speeds	dB(A)	47-42-40	
Sound power Indoor (h.m.l.)	dB(A)	38-33-31	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	< 20	
Sound pressure Indoor at ducts exit	V/Ph/Hz	230/1/50	
Power supply	kW	0,327	0,315
Running consumption		R410A	
Refrigerant type	mm(inch")	9,52(3/8")	
Liquid pipe diameter	mm(inch")	15,88(5/8")	
Gas pipe diameter	mm	200	
Ducts diameter	Kg	47	
Net weight Indoor	mm	310x1.480x630	
Net dimension Indoor (H./W./D.)			

Four-way ducted indoor unit

PRODUCT NAME		ADS140MH	
Features	Units	Cooling	Heating
	kW	14,00	16,00
Cooling/Heating capacity	BTU/h	47.740	54.560
	kcal/h	12.040	13.760
	m ³ /h	1.980-1.560-1.320	
Air flowrate Indoor (h.m.l.)	l/h	6,6	
Dehumidification	mm W.G.	5-10	
External static pressure (min-max)	n°	3 + Auto	
Fan speeds	dB(A)	49-46-42	
Sound power Indoor (h.m.l.)	dB(A)	40-37-33	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	< 20	
Sound pressure Indoor at ducts exit	V/Ph/Hz	230/1/50	
Power supply	kW	0,325	0,313
Running consumption		R410A	
Refrigerant type	mm(inch")	9,52(3/8")	
Liquid pipe diameter	mm(inch")	15,88(5/8")	
Gas pipe diameter	mm	200	
Ducts diameter	Kg	47	
Net weight Indoor	mm	310x1.480x630	
Net dimension Indoor (H./W./D.)			

MULTISET V.R.F, DC INVERTER R410A



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V.R.F. Indoor Units

ACS 73-106-140

Features

Underceiling indoor unit for Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Horizontal flap swinging or to be set on a fixed position by remote control

Vertical flap by manual control

Possibility to have a connection for fresh air intake

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME		ACS73MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,3	8,0
	BTU/h	24.890	27.280
	kcal/h	6.280	6.880
Air flowrate Indoor (h.m.l.)	m ³ /h	1.098-900-840	
Dehumidification	l/h	3,0	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	38-36-33	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,043	0,042
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Net weight Indoor	Kg	25,0	
Net dimension Indoor (H./W./D.)	mm	210x1.180x680	

PRODUCT NAME		ACS106MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	10,6	11,4
	BTU/h	36.140	38.880
	kcal/h	9.120	9.800
Air flowrate Indoor (h.m.l.)	m ³ /h	1.650-1.380-1.200	
Dehumidification	l/h	3,9	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	41-38-35	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,074	0,073
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Net weight Indoor	Kg	33,0	
Net dimension Indoor (H./W./D.)	mm	210x1.595x680	

PRODUCT NAME		ACS140MH	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	14,00	16,00
	BTU/h	47.740	54.560
	kcal/h	12.040	13.760
Air flowrate Indoor (h.m.l.)	m ³ /h	1.800-1.560-1.320	
Dehumidification	l/h	5,6	
Fan speeds	n°	3 + Auto	
Sound pressure Indoor (h.m.l.)	dB(A)	43-40-37	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	0,086	0,085
Refrigerant type		R410A	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Net weight Indoor	Kg	33,0	
Net dimension Indoor (H./W./D.)	mm	210x1.595x680	

MULTISET V.R.F, DC INVERTER R410A



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V.R.F. Indoor Units

FC 22-28-36-45-56-64

Features

Floor/ceiling indoor unit for Multiset V.R.F. DC Inverter systems

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Horizontal flap swinging or to be set on a fixed position by remote control

Vertical flap by manual control

Anti-mould and anti-bacteria washable filters; optional active carbon filters

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME		FC22MHG		FC28MHG	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,20	2,50	2,80	3,20
	BTU/h	7.500	8.520	9.550	10.920
	kcal/h	1.890	2.150	2.410	2.750
Air flowrate Indoor (h.m.l.)	m ³ /h	630-540-450		630-540-450	
Dehumidification	l/h	1,0		1,2	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.)	dB(A)	49-43-38		49-43-38	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,065	0,065	0,065	0,065
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")		12,70(1/2")	
Net weight Indoor	Kg	23,5		23,5	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190	

PRODUCT NAME		FC36MHG		FC45MHG	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	3,60	4,20	4,70	5,20
	BTU/h	12.280	14.320	16.020	17.740
	kcal/h	3.100	3.610	4.040	4.470
Air flowrate Indoor (h.m.l.)	m ³ /h	630-540-450		720-650-580	
Dehumidification	l/h	1,3		2,3	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.)	dB(A)	49-43-38		51-47-43	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,065	0,065	0,075	0,075
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")		12,70(1/2")	
Net weight Indoor	Kg	23,5		23,5	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190	

PRODUCT NAME		FC56MHG		FC64MHG	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,60	6,30	6,40	7,00
	BTU/h	19.100	21.480	21.850	23.870
	kcal/h	4.820	5.420	5.500	6.020
Air flowrate Indoor (h.m.l.)	m ³ /h	720-650-580		900	
Dehumidification	l/h	2,3		3,3	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.)	dB(A)	51-47-43		52-49-46	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,075	0,075	0,088	0,088
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		9,52(3/8")	
Gas pipe diameter	mm(inch")	12,70(1/2")		15,88(5/8")	
Net weight Indoor	Kg	23,5		23,5	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190	

MULTISET V.R.F, DC INVERTER R410A



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V.R.F. Indoor Units

SD 22-28-36-45-56-64

Features

Slim ducted indoor unit, available for floor or wall or ceiling installation, to be matched with Multiset V.R.F. DC Inverter systems

Especially projected for hotel applications

Automatic change-over between cooling and heating modes

Special function during heat pump start-up and defrosting cycle to avoid cool air emission in the room

Night set back capability

To be managed by the wired and wireless controllers of the Multiset V.R.F. DC Inverter systems (all optional)

"I Feel" feature and temperature sensor inside the remote control

Dry function

New three-speed centrifugal fan by remote control, granting a better and low noise air diffusion

Anti-mould and anti-bacteria washable filter

Optional active carbon filters

Dynamic refrigerant control by DC Inverter compressor and circuit, electronic valve and fuzzy logic managed by a powerful microprocessor

MULTISET V.R.F, DC INVERTER R410A



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Technical data

PRODUCT NAME		SD22MHG		SD28MHG	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,20	2,50	2,80	3,20
	BTU/h	7.500	8.520	9.550	10.920
	kcal/h	1.890	2.150	2.410	2.750
Air flowrate Indoor (h.m.l.)	m ³ /h	470/380/340		470/380/340	
Dehumidification	l/h	1,0		1,2	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.)	dB(A)	37-30-26		37-30-26	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,037	0,037	0,037	0,037
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")		12,70(1/2")	
Net weight Indoor	Kg	25		25	
Net dimension Indoor (H./W./D.)	mm	585x890x190		585x890x190	

PRODUCT NAME		SD36MHG		SD45MHG	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	3,60	4,20	4,70	5,20
	BTU/h	12.280	14.320	16.020	17.740
	kcal/h	3.100	3.610	4.040	4.470
Air flowrate Indoor (h.m.l.)	m ³ /h	470/380/340		620/540/450	
Dehumidification	l/h	1,3		2,3	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.)	dB(A)	37-30-26		45-41-33	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,037	0,037	0,065	0,065
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,70(1/2")		12,70(1/2")	
Net weight Indoor	Kg	25		25	
Net dimension Indoor (H./W./D.)	mm	585x890x190		585x890x190	

PRODUCT NAME		SD56MHG		SD64MHG	
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,60	6,30	6,40	7,00
	BTU/h	19.100	21.480	21.850	23.870
	kcal/h	4.820	5.420	5.500	6.020
Air flowrate Indoor (h.m.l.)	m ³ /h	620/540/450		680/600/520	
Dehumidification	l/h	2,3		3,3	
Fan speeds	n°	3 + Auto		3 + Auto	
Sound pressure Indoor (h.)	dB(A)	45-41-33		49-45-40	
Power supply	V/Ph/Hz	230/1/50		230/1/50	
Running consumption	kW	0,065	0,065	0,088	0,088
Refrigerant type		R410A		R410A	
Liquid pipe diameter	mm(inch")	6,35(1/4")		9,52(3/8")	
Gas pipe diameter	mm(inch")	12,70(1/2")		15,88(5/8")	
Net weight Indoor	Kg	25		25	
Net dimension Indoor (H./W./D.)	mm	585x890x190		585x890x190	

MULTISET V.R.F, DC INVERTER R410



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CONTROLS AND ACCESSORIES

Infrared remote controller to be used with high-wall indoor units



Schedule timer able to manage up to 64 indoor units with customized programming of all features, on/off cycles, etc.



Infrared remote controller to be used with cassette and floor/ceiling indoor units



System controller to be used to manage only on/off cycles for a system up to 16 groups / 64 indoor units, to be used in matching with other controllers (remote controllers, system controllers, etc.)



Infrared remote controller to be used with underceiling indoor units



System controller to be used to manage and program a system up to 64 indoor units, also without wired controllers; it can be matched with schedule timer and intelligent controller



Infrared remote controller to be used, in matching with a special infrared receiver, with the full range of indoor units; it shows the operation status of the air-conditioner



System Intelligent Controller to be used to manage and program a system up to 256 indoor units, organized in 4 groups of 64 units each, also without wired controllers; it can be matched with the schedule timer and in case of three/four-group installations it must be connected with the communication adapter



Standard wired remote controller with full features control, self-diagnostic and centralized programming capabilities



Interface for LonWorks system: this interface is a communication converter for connecting LonWorks to the air-conditioner unit control network. This unit can control and monitor the status up to 16 groups of indoor units (max 64 indoor units)



Simplified wired remote controller to be used with the full range of indoor units; it controls all the main features



Interface PLC for outdoor units: can control up to 4 outdoor units. Required for "Demand" control, typical of 3-way systems



Remote sensor to be used with the full range of indoor units to detect the room temperature when no remote controller sensor or body sensor is used: suggested for air-conditioner systems without remote controller



10A – CONTROLS & ACCESSORIES



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ENGINEERING OF REFRIGERANT CIRCUIT, CALCULATION METHODS AND ACCESSORIES

Multiset DC Inverter systems demand the respect of precise rules in the engineering of a refrigerant circuit

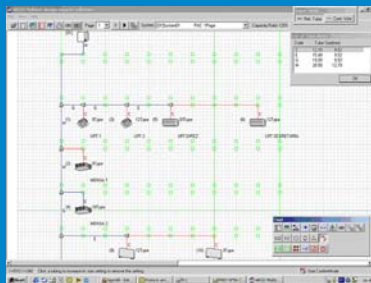
Argoclima gives to system engineers all support and accessories necessary for a correct implementation of an air conditioned system.

- Engineering and design software
- Distribution kits
- Expansion valves with electronic control
- Accessories to change the air with outside
- Filters as spare parts for indoor units

The description of calculation methods for the refrigerant circuit and the accessories is out of the scope of this catalogue; for a correct implementation of a system it's necessary and easy to ask for the complete Multiset V.R.F. DC Inverter technical documentation, directly to our agent or through our Web site at the address

www.argoclima.com

Our organization of Argo technicians and engineers is at Your disposal for the development of projects, the realization of CAD designs, the test/start of the system and the after-sale technical service.



4. Parametri e condizioni

Introduzione in Italiano | **English instructions**

Selezionare il numero di ambienti richiesti: | Select your room number

Inserire i dati riguardanti i menu a tendina del programma di calcolo. | Input data using the menus on the program

Cliccare sul comando "Riscaldamento" all'interno del menu | Click on "Heating" button on Heat Gain and/or Heat Loss menu

Apposto di Calore ed Dispersione di Calore | Click on "Heat" button below this page, for the product's characteristics

Cliccare sul pulsante "Riscaldamento" a fondo pagina, per essere in condizione del prodotto. | Click on "Heat" button below this page, for the product's characteristics

Dati generali | **Dati strutturali** | **Spettico** | **Apposto di calore** | **Dispersione di calore**

Language selection: Italiano | Calcolo | Substrato

Condizioni di calcolo

Temperat. int. estiva (21°C + 30°C) | Temperat. int. invern. (15°C + 20°C)

Temperat. max. estiva (25°C + 45°C) | Temperat. min. invern. (10°C + 10°C)

Mese: luglio | Ora: 17:00 | Temperatura esterna: 34°C

Altre condizioni

Ambiente esterno: atmosferica fredda | Carichi interni (W)

Uso del locale: abitazione | Ricambio naturale

Numero persone: 1 | Ventilazione forzata (portata m³/h)

Result - Result

HEAT RECOVERY UNITS



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HEAT RECOVERY UNITS



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REC 400/850 – REC 600/1150

Features

To grant the best comfort conditions, the rules in health matters impose to change continuously the air inside the room; this air reciprocation can be assured by a heat recovery unit thanks to its forced ventilation process

The air blown out must be replaced with an equal quantity of new air. The air which enters the room has however a different temperature than the air inside it: the heat recovery unit is placed where the air in escape meets with the air in entrance with the precise scope of blowing out the spoiled air and cooling or heating the air in entrance so that reduce energy consumption to keep the desired room conditions

The main features of a heat recovery unit are:

- the air flowrate (that is the volume of air treated) adequate to the room
- the compact dimension of the unit
- the thermal efficiency
- the filtration efficiency

The heat recovery units Argo are available for residential and commercial applications, giving the maximum room comfort together with a sure energy saving

If matched with a heating and/or air conditioning system for which a change of the air is necessary, it allows to dimension the equipments for lower levels of thermal power, granting management savings

Suitable to operate in both summer and winter seasons, these units give always excellent degrees of air quality and comfort

These units may be integrated with traditional straight cooling/heat pump air conditioning systems, realized with direct expansion or hydronic technologies, or with traditional heating equipments

Using aluminium static heat recovery units, Argo saves more than 50% of the energy that normally would be lost due to spoiled air discharge

The thermal exchange chamber is realized with a special aluminium able to efficiently exchange heat between air in entrance and air in escape

One fan only is in fixed position while the other fan and the outlet/aspiration air intakes can be moved to the sides of the unit; in this way the system can be easily adapted to every installation context

A special connection allows to discharge the condensate which might be produced during the thermal exchange process inside the chamber

The heat recovery units Argo are equipped with anti-mould and anti-bacteria filters (optional kit are available as spare parts); a special system allows an easy access to the internal components for maintenance and control activities

HEAT RECOVERY UNITS



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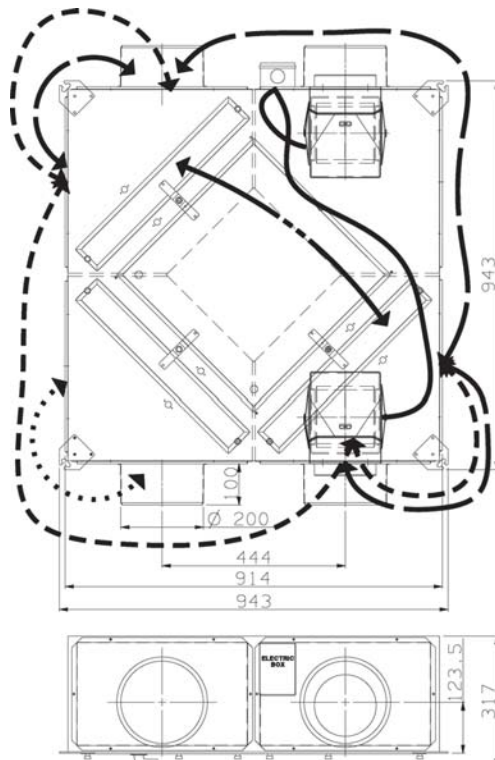


REC 400/850 – REC 600/1150

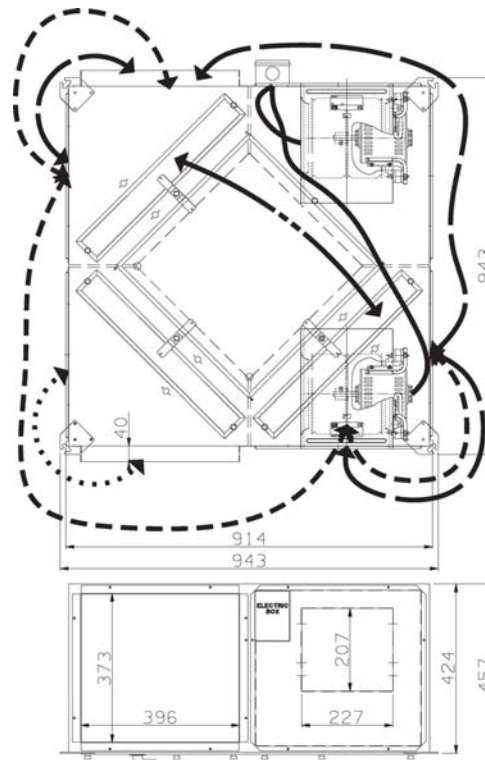
Technical Data

PRODUCT NAME	Units	REC 400/850	REC 600/1150
Features			
Nominal air capacity	m ³ /h	900	1200
Max. air flow	m ³ /h	856	1160
Static Pressure	Pa	50	50
Max. total absorption	A	2,6	2,46
Max. total consumption	W	598	562
Sound power	dB(A)	53	53
Poles	n°	2	4
Fan speeds	n°	4	3
Protection grade	IP	20	20
Isolation grade	-	F	B
Power supply	V/Ph/Hz	230/1/50	230/1/50
Thermal efficiency	%	54	54,6
Max. recuperated thermal power	kW	2,73	4,71
Renewal air outlet temperature	°C	8,5	8,6
Filtration efficiency	EN779	G4	G4
Filters dimension	mm	500x230x48	500x370x48
Active carbon filters	-	optional	optional
Width	mm	950	950
Depth	mm	950	950
Height	mm	310	450
Net weight	Kg	50	70
Ducts diameter	mm	200	-
Outlet air intakes dimension	mm	-	230x205
Aspiration air intakes dimension	mm	-	390x370

REC 400/850



REC 600/1150



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OPERATING LIMITS – R410A



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Single-duct Portable

	Temperature	Indoor Air Intake Temperature
Cooling	Maximum	35°C D.B. / 24°C W.B.
	Minimum	16°C (Magico9.2), 15°C (Mythiko/O.SuperA/Chrome)/19°C(O.Junior) D.B. 14°C (Magico9.2), 12°C (Mythiko/O.SuperA/Chrome)/14°C(O.Junior) W.B.
Deshumidification	Maximum	35°C D.B. / 28°C W.B.
	Minimum	16°C (Magico9.2), 10°C (Mythiko/O.SuperA/Chrome)/19°C(O.Junior) D.B. 14°C (Magico9.2), 6.5°C (Mythiko/O.SuperA/Chrome)/14°C(O.Junior) W.B.

Split / Floor Portable – Split DC Inverter

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C D.B. / 23°C W.B.	46°C D.B.(Portable)/ 43°C D.B.(Split DCI)
	Minimum	19°C D.B. / 14°C W.B.	19°C D.B.
Heating	Maximum	27°C D.B.	24°C D.B. / 18°C W.B.
	Minimum	16°C D.B.	-8°C D.B. / -9°C W.B.

SPLIT on/off

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C D.B. / 23°C W.B.	46°C D.B.
	Minimum	21°C D.B. / 15°C W.B.	10°C D.B. / -10°C W.B.(*)
Heating	Maximum	27°C D.B.	24°C D.B. / 18°C W.B.
	Minimum	-	-9°C D.B. / -10°C W.B.

(*) only for ACL (low ambient) models

Package DC Inverter

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C D.B. / 23°C W.B.	43°C D.B.
	Minimum	18°C D.B. / 14°C W.B.	-15°C D.B.
Heating	Maximum	30°C D.B.	15°C W.B.
	Minimum		-15°C W.B.

Mini Multiset / 3-way Multiset V.R.F. DC Inverter

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	25°C W.B.	43°C D.B.
	Minimum	14°C W.B.	-10°C D.B.
Heating	Maximum	30°C D.B.	15°C W.B.
	Minimum	15°C D.B.	-20°C W.B.

2-way Multiset V.R.F. DC Inverter

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	25°C W.B.	43°C D.B.
	Minimum	14°C W.B.	+5°C D.B. / -5°C D.B.(**)
Heating	Maximum	30°C D.B.	15°C W.B.
	Minimum	15°C D.B.	-20°C W.B.

(**) + 5°C: Inverter and Constant speed Outdoor units matched / -5°C only Inverter Outdoor units

OPERATION SOUND

The sound pressure levels indicated in the catalogue are measured in anechoic chamber, considering a distance of 2 meters from the portable or the indoor unit (split/package/multiset) in closed room, 4 meters from the outdoor unit.

PORTABLE R407C



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SPLIT PORTABLE R407C



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OSCAR TWIN 9

Split portable air conditioner, with a small condensing case, specifically projected to be placed on balcony or window

Weekly programmable digital timer and electronic thermostat

Two-speed fan

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

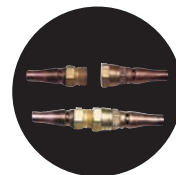
Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4m)



AeroQuip quick connectors



Digital Timer

PRODUCT NAME		OSCAR TWIN 9
Features	Units	Cooling
	kW	2,48
Cooling capacity	BTU/h	8.500
	kcal/h	2.130
Energy label class	ABCDEFG	D
E.E.R.	(kW/kW)	2,67
Air flowrate (h.l.)	m ³ /h	420-300
Dehumidification	l/h	0,8
Fan speeds (Indoor / Outdoor)	n°	2/1
Sound pressure Indoor (h.l.)	dB(A)	38-31
Sound pressure Outdoor (h.l.)	dB(A)	47
Power supply	V/Ph/Hz	230/1/50
Running consumption	kW	0,930
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	465
Refrigerant type		R407C
Standard pipe lenght	m	2
Additional pipe lenght	m	2-4
Max. height between units (Outdoor on the top)	m	1,2
Max. height between units (Indoor on the top)	m	5,2
Net weight Indoor / Outdoor	Kg	39/8,5
Net dimension Indoor (H./W./D.)	mm	800x470x310
Net dimension Outdoor (H./W./D.)	mm	435x440x230

SPLIT PORTABLE R407C



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OSCAR TWIN 11

Split portable air conditioner, with a small condensing case, specifically projected to be placed on balcony or window

Equipped with weekly programmable digital timer and electronic thermostat

Two-speed fan

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

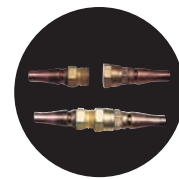
Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4m)



AeroQuip quick connectors



Digital timer

PRODUCT NAME		OSCAR TWIN 11
Features	Units	Cooling
	kW	2,90
Cooling capacity	BTU/h	9.900
	kcal/h	2.490
Energy label class	ABCDEFG	C
E.E.R.	(kW/kW)	2,82
Air flowrate (h.l.)	m ³ /h	420-300
Dehumidification	l/h	1,0
Fan speeds (Indoor / Outdoor)	n°	2/1
Sound pressure Indoor (h.l.)	dB(A)	39-32
Sound pressure Outdoor (h.)	dB(A)	47
Power supply	V/Ph/Hz	230/1/50
Running consumption	kW	1,030
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	515
Refrigerant type		R407C
Standard pipe lenght	m	2
Additional pipe lenght	m	2-4
Max. height between units (Outdoor on the top)	m	1,2
Max. height between units (Indoor on the top)	m	5,2
Net weight Indoor / Outdoor	Kg	40/9,5
Net dimension Indoor (H./W./D.)	mm	800x470x310
Net dimension Outdoor (H./W./D.)	mm	435x440x230

SPLIT PORTABLE R407C



improve your life

OSCAR TWIN 14



Split portable air conditioner, with a small condensing case, specifically projected to be placed on balcony or window

Equipped with weekly programmable digital timer and electronic thermostat

Two-speed fan

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

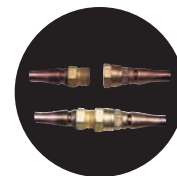
Electronic protection against over-pressures

High efficiency rotary compressor

Easy to move thanks to its comfortable handles and special multidirectional wheels

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4m)



AeroQuip quick connectors



Digital timer

PRODUCT NAME		OSCAR TWIN 14
Features	Units	Cooling
	kW	3,70
Cooling capacity	BTU/h	12.700
	kcal/h	3.180
Energy label class	ABCDEFG	C
E.E.R.	(kW/kW)	2,85
Air flowrate (h.l.)	m ³ /h	460-350
Dehumidification	l/h	1,6
Fan speeds (Indoor / Outdoor)	n°	2/1
Sound pressure Indoor (h.l.)	dB(A)	40-33
Sound pressure Outdoor (h.)	dB(A)	45
Power supply	V/Ph/Hz	230/1/50
Running consumption	kW	1,300
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	650
Refrigerant type		R407C
Standard pipe lenght	m	2
Additional pipe lenght	m	2-4
Max. height between units (Outdoor on the top)	m	1,2
Max. height between units (Indoor on the top)	m	5,2
Net weight Indoor / Outdoor	Kg	41/13
Net dimension Indoor (H./W./D.)	mm	800x470x310
Net dimension Outdoor (H./W./D.)	mm	490x525x250

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FLOOR SPLIT R407C



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ULISSE 10/13 CL

Floor split air conditioner realized in only 24 cm of depth, suitable for fixed or moveable installations

Small condensing case, specifically projected to be placed on balcony or window

Infrared remote control with digital 24h timer, night set back, start-up of air-conditioning or dehumidifying or ventilation only modes, temperature digital adjustment and room temperature control by a special sensor inside the remote control

"I Feel" feature

Dry function

Three-speed fan by remote control

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4 m)



Infrared remote control with temperature sensor

PRODUCT NAME		ULISSE 10 CL	ULISSE 13 CL
Features	Units	Cooling	Cooling
	kW	2,65	3,67
Cooling capacity	BTU/h	9.100	12.500
	kcal/h	2.280	3.160
Energy label class	ABCDEFG	D	C
E.E.R.	(kW/kW)	2,62	2,82
Air flowrate (h.l.)	m ³ /h	370	450
Dehumidification	l/h	1,2	1,5
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1	3 + Auto / 1
Sound pressure Indoor (h.m.l.)	dB(A)	36-33-32	37-34-33
Sound pressure Outdoor (h.)	dB(A)	47	45
Power supply	V/Ph/Hz	230/1/50	230/1/50
Running consumption	kW	1,010	1,300
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	505	650
Refrigerant type		R407C	R407C
Standard pipe lenght	m	2	2
Additional pipe lenght	m	2-4	2-4
Max. height between units (Outdoor on the top)	m	1,2	1,2
Max. height between units (Indoor on the top)	m	5,2	5,2
Net weight Indoor / Outdoor	Kg	44/9,5	44/15
Net dimension Indoor (H./W./D.)	mm	790x580x245	790x580x245
Net dimension Outdoor (H./W./D.)	mm	435x440x230	490x525x250

FLOOR SPLIT R407C



improve your life

ULISSE 10 HL

Floor split straight cooling and heat pump air conditioner

Realized in only 24 cm of depth, suitable for fixed or moveable floor installations

Small condensing case, specifically projected to be placed on balcony or window

Infrared remote control with digital 24h timer, night set back, start-up of air-conditioning or dehumidifying or ventilation only modes, temperature digital adjustment and room temperature control by a special sensor inside the remote control

"I Feel" feature

Dry function

Three-speed fan by remote control

Frontal air-intake, making possible its placement even between two walls

Automatic condensate vaporization through the case

AeroQuip quick connectors to easily disconnect and re-connect the outdoor unit for a fixed installation

Adjustable air louver, granting the best fresh air diffusion

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Electronic protection against over-pressures

High efficiency rotary compressor

Accessories for the outside fixed installation of the case supplied with the unit

Optional pipe-extension kits connecting Indoor and Outdoor units (2 and 4 m)



Infrared remote control with temperature sensor

PRODUCT NAME		ULISSE 10 HL	
Features	Units	Cooling	Heating
Cooling capacity	kW	2,80	3,14
	BTU/h	9.600	10.700
	kcal/h	2.410	2.700
Energy label class	ABCDEF	D	C
E.E.R.	(kW/kW)	2,64	3,31
Air flowrate (h.l.)	m ³ /h		370
Dehumidification	l/h		1,2
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	36-33-32	
Sound pressure Outdoor (h.)	dB(A)	45	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	1,060	0,950
Annual energy consumption-cooling mode(500h)-Dir. 2002/31/CE	kWh	530	
Refrigerant type		R407C	
Standard pipe lenght	m	2	
Additional pipe lenght	m	2-4	
Max. height between units (Outdoor on the top)	m	1,2	
Max. height between units (Indoor on the top)	m	5,2	
Net weight Indoor / Outdoor	Kg	44/15	
Net dimension Indoor (H./W./D.)	mm	790x580x245	
Net dimension Outdoor (H./W./D.)	mm	490x525x250	

SPLIT/MULTISPLIT ON/OFF R407C



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WALL - ON/OFF R407C



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AWR 515 HL

- High wall straight cooling and heat pump air conditioner
- Automatic change-over between cooling and heating mode
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Dry function
- Tree speeds tangential fan by remote control
- Night set back capability
- Heating function disable during defrosting cycle
- Horizontal flap swinging or to be set on a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters
- Active carbon filters
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Double way (right and left) to discharge the condensate
- High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		AWR515HL	
Indoor unit		AWR518HL	
Outdoor unit		AER515SH	
Features		Units	Cooling Heating
Cooling/Heating capacity	kW	4,10	5,60
	BTU/h	14.000	19.100
	kcal/h	3.600	4.900
Energy label class	ABCDEFGF	F	E
E.E.R. / C.O.P.	(kW/kW)	2,21	2,75
Air flowrate Indoor (h.m.l.)	m ³ /h	760-630-550	
Dehumidification	l/h	2,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	46-41-39	
Sound pressure Outdoor (h.)	dB(A)	45	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	1,85	2,04
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	925	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")	
Max. pipe lenght with gas standard charge	m	7,5	
Max. pipe lenght with gas additional charge	m	20	
Gas additional charge	gr/m	25	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Indoor / Outdoor	Kg	12/50	
Net dimension Indoor (H./W./D.)	mm	285x995x206	
Net dimension Outdoor (H./W./D.)	mm	630x830x305	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

WALL – ON/OFF R407C



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AWR 518 HL/HL3

- High wall straight cooling and heat pump air conditioner
- Single phase (230/1/50) and three phase (400/3N/50) available versions
- Automatic change-over between cooling and heating mode
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- “Auto I Feel” feature, give you the best comfort conditions
- Dry function
- Tree speeds tangential fan by remote control
- Night set back capability
- Heating function disable during defrosting cycle
- Horizontal flap swinging or to be set on a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters
- Active carbon filters
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Double way (right and left) to discharge the condensate
- High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		AWR518HL		AWR518HL		
Indoor unit		AER518SHB		AER518SH3B		
Outdoor unit		AER518SHB		AER518SH3B		
Features		Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity		kW	4,80	6,60	4,70	6,40
		BTU/h	16.400	22.500	16.100	21.900
		kcal/h	4.200	5.700	4.100	5.500
Energy label class	ABCDEF	G	E	F	D	
E.E.R. / C.O.P.	(kW/kW)	2,09	2,72	2,22	2,91	
Air flowrate Indoor (h.m.l.)	m ³ /h	760-630-550		760-630-550		
Dehumidification	l/h	2,3		2,3		
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		
Sound pressure Indoor (h.m.l.)	dB(A)	46-41-39		46-41-39		
Sound pressure Outdoor (h.)	dB(A)	45		46		
Power supply	V/Ph/Hz	230/1/50		400/3/50		
Running consumption	kW	2,30	2,43	2,12	2,20	
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.150	-	1.060	-	
Compressor type		Rotary		Rotary		
Refrigerant type		R407C		R407C		
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		
Max. pipe length with gas standard charge	m	7,5		7,5		
Max. pipe length with gas additional charge	m	20		20		
Gas additional charge	gr/m	25		25		
Max. height between units (Outdoor on top)	m	7		7		
Max. height between units (Indoor on top)	m	7		7		
Net weight Indoor / Outdoor	Kg	12/59		12/59		
Net dimension Indoor (H./W./D.)	mm	285x995x206		285x995x206		
Net dimension Outdoor (H./W./D.)	mm	630x830x305		630x830x305		

WALL – ON/OFF R407C



improve your life

AWR 522 HL/HL3

- High wall straight cooling and heat pump air conditioner
- Single phase (230/1/50) and three phase (400/3N/50) available versions
- Automatic change-over between cooling and heating mode
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- “Auto I Feel” feature, give you the best comfort conditions
- Dry function
- Tree speeds tangential fan by remote control
- Night set back capability
- Heating function disable during defrosting cycle
- Horizontal flap swinging or to be set on a fixed position by remote control
- Vertical flap by manual control
- Anti-mould and anti-bacteria washable filters
- Active carbon filters
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Double way (right and left) to discharge the condensate
- High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		AWR522HL		AWR522HL		
Indoor unit		AER522SH		AER522SH3		
Outdoor unit		AER522SH		AER522SH3		
Features		Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,85	7,00	5,60	7,40	7,40
	BTU/h	20.000	23.900	19.100	25.300	25.300
	kcal/h	5.100	6.100	4.900	6.400	6.400
Energy label class	ABCDEFG	E	E	G	F	F
E.E.R. / C.O.P.	(kW/kW)	2,44	2,75	2,07	2,47	2,47
Air flowrate Indoor (h.m.l.)	m ³ /h	830-720-630		830-720-630		
Dehumidification	l/h	3,3		3,3		
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		
Sound pressure Indoor (h.m.l.)	dB(A)	49-45-42		49-45-42		
Sound pressure Outdoor (h.)	dB(A)	48		48		
Power supply	V/Ph/Hz	230/1/50		400/3/50		
Running consumption	kW	2,40	2,55	2,70	3,00	3,00
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.200	-	1.350	-	-
Compressor type		Rotary		Rotary		
Refrigerant type		R407C		R407C		
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")		
Max. pipe length with gas standard charge	m	7,5		7,5		
Max. pipe length with gas additional charge	m	30		30		
Gas additional charge	gr/m	25		25		
Max. height between units (Outdoor on top)	m	7		7		
Max. height between units (Indoor on top)	m	7		7		
Net weight Indoor / Outdoor	Kg	12/70		12/70		
Net dimension Indoor (H./W./D.)	mm	285x995x206		285x995x206		
Net dimension Outdoor (H./W./D.)	mm	835x850x305		835x850x305		

CASSETTE ON/OFF R407C



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ASR 518 HL/HL3

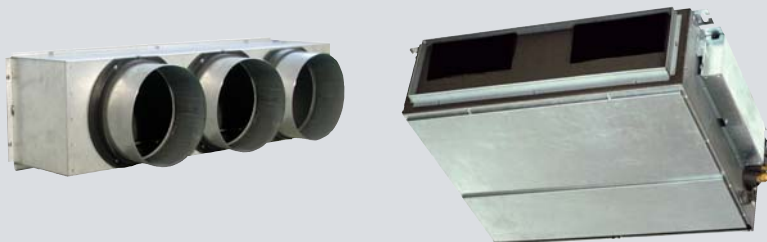
- Cassette straight cooling and heat pump air conditioner
- Single phase (230/1/50) and three phase (400/3N/50) available versions
- Automatic change-over between cooling and heating mode
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Dry function
- Tree speeds centrifugal fan by remote control
- Night set back capability
- Four horizontal flap swinging or to be set on a fixed position by remote control
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Single duct capability to move air conditioned in a near room
- High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		ASR518HL AER518SHB		ASR518HL AER518SH3B	
Indoor unit					
Outdoor unit					
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	4,80	6,60	4,70	6,40
	BTU/h	16.400	22.500	16.100	21.900
	kcal/h	4.150	5.700	4.050	5.500
Energy label class	ABCDEFG	G	E	F	D
E.E.R. / C.O.P.	(kW/kW)	2,09	2,72	2,22	2,91
Air flowrate Indoor (h.m.l.)	m ³ /h	750-630-530		750-630-530	
Dehumidification	l/h	2,3		2,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	44-39-36		44-39-36	
Sound pressure Outdoor (h.)	dB(A)	45		45	
Power supply	V/Ph/Hz	230/1/50		400/3/50	
Running consumption	kW	2,30	2,43	2,12	2,20
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.150	-	1.060	-
Compressor type		Rotary		Rotary	
Refrigerant type		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge	m	7,5		7,5	
Max. pipe lenght with gas additional charge	m	20		20	
Gas additional charge	gr/m	25		25	
Max. height between units (Outdoor on top)	m	7		7	
Max. height between units (Indoor on top)	m	7		7	
Net weight Indoor / grille / Outdoor	Kg	18/2,5/52		18/2,5/52	
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730	
Net dimension Outdoor (H./W./D.)	mm	630x830x305		630x830x305	

DUCTED ON/OFF R407C



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ADR518 HL/HL3

- Ducted straight cooling and heat pump air conditioner with optional three ways air channel
- Single phase (230/1/50) and three phase (400/3N/50) available versions
- Automatic change-over between cooling and heating mode
- Special infrared receiver and remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Dry function
- Tree speeds centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)
- Night set back capability
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		ADR518HL		ADR518HL		
Indoor unit		ADR518HL		ADR518HL		
Outdoor unit		AER518SHB		AER518SH3B		
Features		Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	4,80	6,60	4,7	6,4	
	BTU/h	16.400	22.500	16.100	21.900	
	kcal/h	4.150	5.700	4.050	5.500	
Energy label class	ABCDEFG	G	E	F	D	
E.E.R. / C.O.P.	(kW/kW)	2,09	2,72	2,22	2,91	
Air flowrate (h.m.l.)	m ³ /h	760-630-550		760-630-550		
Dehumidification	l/h	2,3		2,3		
External static pressure (min-max)	mm W.G.	5-7		5-7		
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1		
Sound power Indoor (h.m.l.)	dB(A)	54-47-42		54-47-42		
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-38-33		45-38-33		
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		
Sound pressure Outdoor (h.)	dB(A)	45		46		
Power supply	V/Ph/Hz	230/1/50		400/3/50		
Running consumption	kW	2,300	2,430	2,120	2,200	
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.150	-	1.060	-	
Compressor type		Rotary		Rotary		
Refrigerant type		R407C		R407C		
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")		
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		
Max. pipe length with gas standard charge	m	7,5		7,5		
Max. pipe length with gas additional charge	m	20		20		
Gas additional charge	gr/m	25		25		
Max. height between units (Outdoor on top)	m	7		7		
Max. height between units (Indoor on top)	m	7		7		
Duct diameter of the 3-way discharge plenum (optional)	mm	200		200		
Net weight Indoor / Indoor with plenum / Outdoor	Kg	35/42,5/59		35/42,5/59		
Net dimension Indoor (H./W./D.)	mm	266x1.132x571		266x1.132x571		
Net dimension Indoor with plenum (H./W./D.)	mm	266x1.132x771		266x1.132x771		
Net dimension Outdoor (H./W./D.)	mm	630x830x305		630x830x305		

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

DUCTED ON/OFF R407C



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ADR 522 HL/HL3

- Ducted straight cooling and heat pump air conditioner with optional three ways air channel
- Single phase (230/1/50) and three phase (400/3N/50) available versions
- Automatic change-over between cooling and heating mode
- Special infrared receiver and remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Dry function
- Tree speeds centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)
- Night set back capability
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		ADR522HL AER522SH		ADR522HL AER522SH3	
Indoor unit					
Outdoor unit					
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity					
	kW	6,00	7,10	6,50	8,00
	BTU/h	20.500	24.200	22.200	2.800
	kcal/h	5.160	6.110	5.590	6.880
Energy label class	ABCDEFG	E	D	F	D
E.E.R. / C.O.P.	(kW/kW)	2,50	2,96	2,36	2,81
Air flowrate (h.m.l.)	m ³ /h	1000-700-600		1000-700-600	
Dehumidification	l/h	2,6		3,0	
External static pressure (min-max)	mm W.G.	5-7		5-7	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1	
Sound power Indoor (h.m.l.)	dB(A)	57-49-46		57-49-46	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	48-40-37		48-40-37	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	48		48	
Power supply	V/Ph/Hz	230/1/50		400/3/50	
Running consumption	kW	2,400	2,400	2,750	2,850
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.200	-	1.375	-
Compressor type		Rotary		Rotary	
Refrigerant type		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")	
Max. pipe lenght with gas standard charge	m	7,5		7,5	
Max. pipe lenght with gas additional charge	m	30		30	
Gas additional charge	gr/m	25		25	
Max. height between units (Outdoor on top)	m	7		7	
Max. height between units (Indoor on top)	m	7		7	
Duct diameter of the 3-way discharge plenum (optional)	mm	200		200	
Net weight Indoor / Indoor with plenum / Outdoor	Kg	35/42,5/70		35/42,5/70	
Net dimension Indoor (H./W./D.)	mm	266x1.132x571		266x1.132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x1.132x771		266x1.132x771	
Net dimension Outdoor (H./W./D.)	mm	835x850x305		835x850x305	

FLOOR-CEILING ON/OFF R407C



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FCR 518 HL/HL3

- Floor/Ceiling straight cooling and heat pump air conditioner
- Single phase (230/1/50) and three phase (400/3N/50) available versions
- Automatic change-over between cooling and heating mode
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Dry function
- Tree speeds centrifugal fan by remote control
- Night set back capability
- Anti-mould and anti-bacteria washable filters
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		FCR518HL AER518SHB		FCR518HL AER518SH3B		
Indoor unit						
Outdoor unit						
Features		Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity		kW	4,80	6,60	4,70	6,40
		BTU/h	16.400	22.500	16.100	21.900
		kcal/h	4.130	5.680	4.040	5.500
Energy label class		ABCDEF	G	E	F	D
E.E.R. / C.O.P.		(kW/kW)	2,09	2,72	2,22	2,91
Air flowrate Indoor (h.m.l.)		m ³ /h	800-700-590		800-700-590	
Dehumidification		l/h	2,3		2,3	
Fan speeds (Indoor / Outdoor)		n°	3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)		dB(A)	51-47-43		51-47-43	
Sound pressure Outdoor (h.)		dB(A)	45		45	
Power supply		V/Ph/Hz	230/1/50		400/3/50	
Running consumption		kW	2,30	2,43	2,12	2,20
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE		kWh	1.150	-	1.060	-
Compressor type			Rotary		Rotary	
Refrigerant type			R407C		R407C	
Liquid pipe diameter		mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter		mm(inch")	12,7(1/2")		12,7(1/2")	
Max. pipe lenght with gas standard charge		m	7,5		7,5	
Max. pipe lenght with gas additional charge		m	20		20	
Gas additional charge		gr/m	25		25	
Max. height between units (Outdoor on top)		m	7		7	
Max. height between units (Indoor on top)		m	7		7	
Net weight Indoor / Outdoor		Kg	23,5/59		23,5/59	
Net dimension Indoor (H./W./D.)		mm	680x900x190		680x900x190	
Net dimension Outdoor (H./W./D.)		mm	630x830x305		630x830x305	

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FLOOR-CEILING ON/OFF R407C



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FCR 522 HL/HL3

Floor/Ceiling straight cooling and heat pump air conditioner

Single phase (230/1/50) and three phase (400/3N/50) available versions

Automatic change-over between cooling and heating mode

Infrared remote control with 24h digital timer and full features control

Temperature sensor inside the remote control

"Auto I Feel" feature, give you the best comfort conditions

Dry function

Tree speeds centrifugal fan by remote control

Night set back capability

Anti-mould and anti-bacteria washable filters

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

High efficiency rotary compressor

REMOTE CONTROL



PRODUCT NAME		FCR522HL AER522SH		FCR522HL AER522SH3	
Indoor unit					
Outdoor unit					
Features	Units	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	5,85	7,00	5,60	7,40
	BTU/h	20.000	23.900	19.100	25.300
	kcal/h	5.030	6.020	4.820	6.370
Energy label class	ABCDEFG	E	E	G	F
E.E.R. / C.O.P.	(kW/kW)	2,44	2,75	2,07	2,47
Air flowrate Indoor (h.m.l.)	m ³ /h	840-770-670		840-770-670	
Dehumidification	l/h	3,3		3,3	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 1		3 + Auto / 1	
Sound pressure Indoor (h.m.l.)	dB(A)	52-49-46		52-49-46	
Sound pressure Outdoor (h.)	dB(A)	48		48	
Power supply	V/Ph/Hz	230/1/50		400/3/50	
Running consumption	kW	2,40	2,55	2,70	3,00
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.200	-	1.350	-
Compressor type		Rotary		Rotary	
Refrigerant type		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		6,35(1/4")	
Gas pipe diameter	mm(inch")	15,88(5/8")		15,88(5/8")	
Max. pipe lenght with gas standard charge	m	7,5		7,5	
Max. pipe lenght with gas additional charge	m	30		30	
Gas additional charge	gr/m	25		25	
Max. height between units (Outdoor on top)	m	7		7	
Max. height between units (Indoor on top)	m	7		7	
Net weight Indoor / Outdoor	Kg	23,5/70		23,5/70	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190	
Net dimension Outdoor (H./W./D.)	mm	835x850x305		835x850x305	

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MULTISPLIT ON/OFF R407C



INDOOR UNITS MATCHING TABLE			
Hi-wall	Cassette	Ducted	Floor-ceiling
AWR609CL	ASR609CL	ADR609CL	AFR609CL



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AER 518 DC

Dual Split air conditioner for cooling and dehumidification (DRY) mode

System with two independent refrigerant circuits

Maximum cooling capacity : 5,3 kW, divided into two parts 2,65 kW each

Fully mixed matching possibility

With a proper connection of the cassette or ducted indoor units it is possible to manage up to two groups of two rooms each or one single room with four air sendout points.

Each Indoor unit is managed by its own remote control

In case more indoor units are installed in the same room, it is possible to address every remote control to its own indoor unit only, so that to avoid any interference

Single-phase power supply

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

Double rotary compressor

Indoor units are the same used for single-split systems



REMOTE CONTROL



PRODUCT NAME		AER518DC	
Outdoor unit		Cooling	Heating
Features	Units		
Connectable indoor units	n°	2	
Max capacity of connected/operating indoor units	kW	5,30	
Cooling/Heating capacity	kW	5,30	-
	BTU/h	18.100	-
	kcal/h	4.600	-
Energy label class	ABCDEFG	E	-
E.E.R. / C.O.P.	(kW/kW)	2,47	-
Air flowrate Outdoor (h.)	m³/h	940	
Fan speeds Outdoor	n°	1	
Sound pressure Outdoor (h.)	dB(A)	45	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,15	-
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.025	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4") x 2	
Gas pipe diameter	mm(inch")	9,52(3/8") x 2	
Max. pipe lenght (per indoor unit)	m	7,5	
Max. pipe lenght with gas additional charge	m	15	
Gas additional charge	qr/m	15	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Outdoor	Kg	59	
Net dimension Outdoor (H./W./D.)	mm	630x830x305	

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INDOOR UNITS MATCHING TABLE

Hi-wall	Casette	Ducted	Floor-ceiling
AWR609CL	ASR609CL	ADR609CL	AFR609CL
AWR612CL	ASR612CL	ADR612CL	FCR612CL

AER 524 DC



Dual Split air conditioner for cooling and dehumidification (DRY) mode

Maximum cooling capacity 6,7 kW, divided into:- 2,6 kW for each x9xx unit- 3,35 kW for each x12xx unit

System with two independent refrigerant circuits

Fully mixed matching possibility

With a proper connection of the cassette or ducted indoor units it is possible to manage up to two groups of two rooms each or one single room with four air sendout points.

Each Indoor unit is managed by its own remote control

In case more indoor units are installed in the same room, it is possible to address every remote control to its own indoor unit only, so that to avoid any interference

Single-phase power supply

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

Double rotary compressor

Indoor units are the same used for single-split systems

REMOTE CONTROL



PRODUCT NAME	AER524DC		
	Outdoor unit	Cooling	Heating
Features	Units	2	2
Connectable indoor units	n°	2	2
Max. capacity of connected/operating indoor units	kW	6,70	6,70
Cooling/Heating capacity	kW	6,70	-
	BTU/h	22.900	-
	kcal/h	5.760	-
Energy label class	ABCDEFG	E	-
E.E.R. / C.O.P.	(kW/kW)	2,53	-
Air flowrate Outdoor (h.)	m³/h	980	-
Fan speeds Outdoor	n°	2 (Auto)	-
Sound pressure Outdoor (h.)	dB(A)	47	-
Power supply	V/Ph/Hz	230/1/50	-
Running consumption	kW	2,65	-
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.325	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4") x 2	
Gas pipe diameter	mm(inch")	12,7(1/2") x 2	
Max. pipe lenght (per indoor unit)	m	7,5	
Max. pipe lenght with gas additional charge	m	20	
Gas additional charge	qr/m	25	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Outdoor	Kg	67,5	
Net dimension Outdoor (H./W./D.)	mm	835x850x305	

MULTISPLIT ON/OFF R407C



INDOOR UNITS MATCHING TABLE			
Hi-wall	Cassette	Ducted	Floor-ceiling
AWR509DHL	ASR509DHL	ADR509DHL	AFR509DHL



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AER 518 DH

Dual-split cooling and heat pump air conditioner for cooling, dehumidification and heating mode.

System with two independent refrigerant circuits

6,3 kW maximum heating capacity

Fully mixed matching possibility

With a proper connection of the cassette or ducted indoor units it is possible to manage up to two groups of two rooms each or one single room with four air sendout points.

Each Indoor unit is managed by its own remote control

In case more indoor units are installed in the same room, it is possible to address every remote control to its own indoor unit only, so that to avoid any interference

Single-phase power supply

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

Double rotary compressor



REMOTE CONTROL



PRODUCT NAME	AER518DH		
	Outdoor unit	Cooling	Heating
Features	Units		
Connectable indoor units	n°	2	
Max capacity of connected/operating indoor units	kW	4,70	6,30
	kW	4,70	6,30
Cooling/Heating capacity	BTU/h	16.100	21.500
	kcal/h	4.040	5.420
		G	C
Energy label class	ABCDEF	G	C
E.E.R. / C.O.P.	(kW/kW)	2,16	3,23
Air flowrate Outdoor (h.)	m³/h	940	
Fan speeds Outdoor	n°	1	
Sound pressure Outdoor (h.)	dB(A)	45	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,18	1,95
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.090	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4") x 2	
Gas pipe diameter	mm(inch")	9,52(3/8") x 2	
Max. pipe lenght (per indoor unit)	m	7,5	
Max. pipe lenght with gas additional charge	m	15	
Gas additional charge	qr/m	15	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Outdoor	Kg	61	
Net dimension Outdoor (H./W./D.)	mm	630x830x305	

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INDOOR UNITS MATCHING TABLE

Hi-wall	Cassette	Ducted	Floor-ceiling
AWR609CL	ASR609CL	ADR609CL	AFR609CL

AER 522 QC

Three and Four split air conditioner for cooling and dehumidification (DRY) mode

System with two independent refrigerant circuits, of which one is splitted on two indoor units

Maximum cooling capacity 5,5 kW, divided into:- 2,5 kW on the first circuit- 1,5 kW on the first branch of the second circuit- 1,5 kW on the second branch of the second circuit

To be matched to DKR5555C kit to get four-split systems

Fully mixed matching possibility

With a proper connection of the cassette or ducted indoor units it is possible to manage up to two groups of three rooms each or one single room with six air sendout points.

Each Indoor unit is managed by its own remote control

In case more indoor units are installed in the same room, it is possible to address every remote control to its own indoor unit only, so that to avoid any interference

Single-phase power supply

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

Double rotary compressor

Indoor units are the same used for single-split systems



REMOTE CONTROL



PRODUCT NAME	AER522QC		
Outdoor unit			
Features	Units	Cooling	Heating
Connectable indoor units	n°	3	
Max. capacity of connected/operating indoor units	kW	5,50	
Cooling/Heating capacity	kW	5,50	-
	BTU/h	18.800	-
	kcal/h	4.730	-
Energy label class	ABCDEFG	D	-
E.E.R. / C.O.P.	(kW/kW)	2,75	-
Air flowrate Outdoor (h.)	m ³ /h	1.410	
Fan speeds Outdoor	n°	1	
Sound pressure Outdoor (h.)	dB(A)	47	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,00	-
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.000	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4") x 3	
Gas pipe diameter	mm(inch")	9,52(3/8") x 3	
Max. pipe lenght (per indoor unit)	m	7,5	
Max. pipe lenght with gas additional charge	m	20 su A+B e 15 su C	
Gas additional charge	gr/m	15	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Outdoor	Kg	61	
Net dimension Outdoor (H./W./D.)	mm	630x830x305	

MULTISPLIT ON/OFF R407C



INDOOR UNITS MATCHING TABLE

Hi-wall	Cassette	Ducted	Floor-ceiling
AWR609CL	ASR609CL	ADR609CL	AFR609CL
AWR612CL	ASR612CL	ADR612CL	AFR612CL
AWR518CL	ASR518CL	ADR518CL	AFR518CL



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AER 534 QC

Three and Four split air conditioner for cooling and dehumidification (DRY) mode

System with two independent refrigerant circuits, of which one is splitted on two indoor units

Maximum cooling capacity 9,8 kW divided into:- 4,3 kW on the first circuit- 2,75 kW

on the second circuit- 2,75 kW on the third circuit

It can become a Four-split system by the kit DKR8585C

Fully mixed matching possibilita

With a proper connection of the cassette or ducted indoor units it is possible to manage up to two groups of four rooms each or one single room with eight air sendout points.

Each Indoor unit is managed by its own remote control

In case more indoor units are installed in the same room, it is possible to address every remote control to its own indoor unit only, so that to avoid any interference

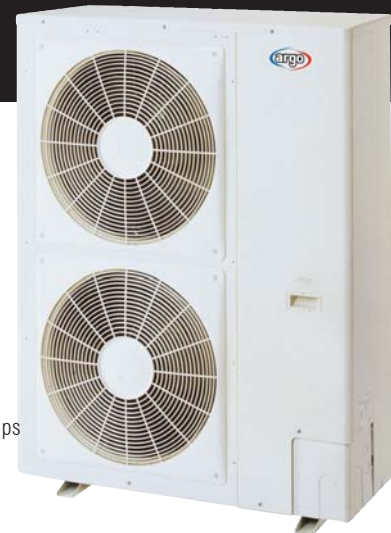
Single-phase power supply

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

Double rotary compressor

Indoor units are the same used for single-split systems



REMOTE CONTROL



PRODUCT NAME		AER534QC	
Outdoor unit			
Features	Units	Cooling	Heating
Connectable indoor units	n°	3 (4 with additional kit)	
Max. capacity of connected/operating indoor units	kW	9,80	
Cooling/Heating capacity	kW	9,80	-
	BTU/h	33.500	-
	kcal/h	8.430	-
Energy label class	ABCDEFG	E	-
E.E.R. / C.O.P.	(kW/kW)	2,42	-
Air flowrate Outdoor (h.)	m ³ /h	1.700	
Fan speeds Outdoor	n°	2 (Auto)	
Sound pressure Outdoor (h.)	dB(A)	47	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	4,05	-
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	2.025	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4") x 3	
Gas pipe diameter	mm(inch")	9,52(3/8") x 2 + 12,7(1/2")	
Max. pipe lenght (per indoor unit)	m	7,5	
Max. pipe lenght with gas additional charge	m	20 su A+B e 15 su C	
Gas additional charge	gr/m	15	
Max. height between units (Outdoor on top)	m	7	
Max. height between units (Indoor on top)	m	7	
Net weight Outdoor	Kg	108	
Net dimension Outdoor (H./W./D.)	mm	1.235x940x340	

PACKAGE/MULTIPACKAGE R407C



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PACKAGE CASSETTE – ON/OFF R407C



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ASR 425 HG

- Cassette straight cooling and heat pump air conditioner
- Automatic change-over between cooling and heating mode
- Special function during heat pump start-up and defrosting cycle to avoid cool air in environment
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Night set back capability
- This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities
- Dry function
- Tree speeds centrifugal fan by remote control
- Special system to avoid condensate dripping from air outlet ribs
- Four horizontal flap swinging or to be set on a fixed position by remote control
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Possibility to have a connection for fresh air intake
- Double ways of air ducts in adjacent rooms through pre-drilled holes
- Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Wide range of operations: - cooling from -5°C to +45°C- heating from -15°C to +21°C
- High efficiency rotary compressor

Wireless control



Wired control



Weekly Timer



PRODUCT NAME		ASR425HG	
Indoor unit		ASR425HG	
Outdoor unit		AER425SHLE	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,00
	BTU/h	25.000	27.000
	kcal/h	6.280	6.880
Energy label class	ABCDEF G	E	F
E.E.R. / C.O.P.	(kW/kW)	2,46	2,52
Air flowrate Indoor (h.m.l.)	m ³ /h	1.140-1.020-840	
Dehumidification	l/h	3,6	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	47-45-41	
Sound pressure Outdoor (h.)	dB(A)	48	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,97	3,17
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.485	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	45	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor (with grille) / Outdoor	Kg	27/71	
Net dimension Indoor (with grille) (H./W./D.)	mm	338x860x860	
Net dimension Outdoor (H./W./D.)	mm	735x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

PACKAGE CASSETTE – ON/OFF R407C



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ASR 425 HG3

- Cassette straight cooling and heat pump air conditioner
- Automatic change-over between cooling and heating mode
- Special function during heat pump start-up and defrosting cycle to avoid cool air in environment
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- “Auto I Feel” feature, give you the best comfort conditions
- Night set back capability
- This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities
- Dry function
- Tree speeds centrifugal fan by remote control
- Special system to avoid condensate dripping from air outlet ribs
- Four horizontal flap swinging or to be set on a fixed position by remote control
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Possibility to have a connection for fresh air intake
- Double ways of air ducts in adjacent rooms through pre-drilled holes
- Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Wide range of operations:- cooling from -5°C to +45°C- heating from -15°C to +21°C
- Three phase power supply 400/3N/50
- High efficiency rotary compressor

Wireless control



Wired control



Weekly Timer



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PRODUCT NAME		ASR425HG	
Indoor unit		ASR425HG	
Outdoor unit		AER425SHL3E	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,00
	BTU/h	25.000	27.000
	kcal/h	6.280	6.880
Energy label class	ABCDEF G	E	E
E.E.R. / C.O.P.	(kW/kW)	2,58	2,61
Air flowrate Indoor (h.m.l.)	m ³ /h	1.140-1.020-840	
Dehumidification	l/h	3,6	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	47-45-41	
Sound pressure Outdoor (h.)	dB(A)	48	
Power supply	V/Ph/Hz	400/3/50	
Running consumption	kW	2,83	3,06
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.415	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	45	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor (with grille) / Outdoor	Kg	27/71	
Net dimension Indoor (with grille) (H./W./D.)	mm	338x860x860	
Net dimension Outdoor (H./W./D.)	mm	735x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

PACKAGE CASSETTE – ON/OFF R407C



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ASR 436 HG3

- Cassette straight cooling and heat pump air conditioner
- Automatic change-over between cooling and heating mode
- Special function during heat pump start-up and defrosting cycle to avoid cool air in environment
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Night set back capability
- This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities
- Dry function
- Tree speeds centrifugal fan by remote control
- Special system to avoid condensate dripping from air outlet ribs
- Four horizontal flap swinging or to be set on a fixed position by remote control
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Possibility to have a connection for fresh air intake
- Double ways of air ducts in adjacent rooms through pre-drilled holes
- Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Wide range of operations:- cooling from -5°C to +45°C- heating from -15°C to +21°C
- Three phase power supply 400/3N/50
- High efficiency rotary compressor

Wireless control



Wired control



Weekly Timer



PRODUCT NAME		ASR436HG	
Indoor unit		ASR436HG	
Outdoor unit		AER436SHL3E	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	10,60	11,40
	BTU/h	36.000	39.000
	kcal/h	9.120	9.800
Energy label class	ABCDEFHG	D	E
E.E.R. / C.O.P.	(kW/kW)	2,67	2,65
Air flowrate Indoor (h.m.l.)	m ³ /h	1.920-1.680-1.320	
Dehumidification	l/h	3,6	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	53-50-46	
Sound pressure Outdoor (h.)	dB(A)	49	
Power supply	V/Ph/Hz	400/3/50	
Running consumption	kW	3,97	4,30
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.985	-
Compressor type		Scroll	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	9,52(3/8")	
Gas pipe diameter	mm(inch")	19,05(3/4")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	50	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor (with grille) / Outdoor	Kg	34/106	
Net dimension Indoor (with grille) (H./W./D.)	mm	368x1.150x860	
Net dimension Outdoor (H./W./D.)	mm	1.235x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

PACKAGE CASSETTE – ON/OFF R407C



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ASR 448 HG3

- Cassette straight cooling and heat pump air conditioner
- Automatic change-over between cooling and heating mode
- Special function during heat pump start-up and defrosting cycle to avoid cool air in environment
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- “Auto I Feel” feature, give you the best comfort conditions
- Night set back capability
- This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities
- Dry function
- Three speeds centrifugal fan by remote control
- Special system to avoid condensate dripping from air outlet ribs
- Four horizontal flap swinging or to be set on a fixed position by remote control
- Anti-mould and anti-bacteria washable filters
- Integrated pump for condensate discharge
- Possibility to have a connection for fresh air intake
- Double ways of air ducts in adjacent rooms through pre-drilled holes
- Dynamic refrigerant control by microprocessor, electronic valve and fuzzy logic
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Wide range of operations:- cooling from -5°C to +45°C- heating from -15°C to +21°C
- Three phase power supply 400/3N/50
- High efficiency rotary compressor

Wireless control



Wired control



Weekly Timer



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PRODUCT NAME			
Indoor unit		ASR448HG	
Outdoor unit		AER448SHL3E	
Features	Units	Cooling	Heating
	kW	12,60	15,30
	BTU/h	43.000	52.200
	kcal/h	10.840	13.160
Cooling/Heating capacity			
	ABCDEF	-	-
Energy label class	(kW/kW)	2,87	2,90
E.E.R. / C.O.P.	m ³ /h	1.920-1.680-1.320	
Air flowrate Indoor (h.m.l.)	l/h	6,3	
Dehumidification	n°	3 + Auto / 3 (Auto)	
Fan speeds (Indoor / Outdoor)	dB(A)	53-50-46	
Sound pressure Indoor (h.m.l.)	dB(A)	50	
Sound pressure Outdoor (h.)	V/Ph/Hz	400/3/50	
Power supply	kW	4,39	5,27
Running consumption	kWh	-	-
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE			Scroll
Compressor type			R407C
Refrigerant type	mm(inch")	9,52(3/8")	
Liquid pipe diameter	mm(inch")	19,05(3/4")	
Gas pipe diameter	m	30	
Max. pipe length with gas standard charge	m	50	
Max. pipe length with gas additional charge	qr/m	50	
Gas additional charge	m	50	
Max. height between units (Outdoor on top)	m	30	
Max. height between units (Indoor on top)	Kg	34/106	
Net weight Indoor (with grille) / Outdoor	mm	368x1.150x860	
Net dimension Indoor (with grille) (H./W./D.)	mm	1.235x940x340	
Net dimension Outdoor (H./W./D.)			

PACKAGE DUCTED – ON/OFF R407C



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ADR 425 HL

Ducted straight cooling and heat pump air conditioner

Three-way duct connection

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Temperature sensor inside the remote control

"Auto I Feel" feature, give you the best comfort conditions

Night set back capability

Dry function

Tree speeds centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 10 mm c.a.)

Integrated pump for condensate discharge

Connection for fresh air intake by optional kit with anti-mould / anti-bacteria filter and the facility to access directly to the internal components for maintenance activities

Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

Wide range of operations:- cooling from -5°C to +45°C- heating from -15°C to +21°C

High efficiency rotary compressor

Wired control



Weekly Timer



PRODUCT NAME		ADR425H	
Indoor unit		ADR425H	
Outdoor unit		AER425SHLE	
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,60
	BTU/h	25.000	29.300
	kcal/h	6.280	7.410
Energy label class	ABCDEFGF	E	E
E.E.R. / C.O.P.	(kW/kW)	2,48	2,70
Air flowrate (h.m.l.)	m ³ /h	1.080-900-780	
Dehumidification	l/h	3,5	
External static pressure (min-max)	mm W.G.	5,1-9,4	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound power Indoor (h.m.l.)	dB(A)	56-52-49	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	47-43-40	
Sound pressure Indoor at ducts exit	dB(A)	< 20	
Sound pressure Outdoor (h.)	dB(A)	48	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,940	3,190
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.470	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	45	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Ducts diameter	mm	200	
Net weight Indoor / Outdoor	Kg	32/71	
Net dimension Indoor (H./W./D.)	mm	310x1.000x630	
Net dimension Outdoor (H./W./D.)	mm	735x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

PACKAGE DUCTED – ON/OFF R407C



improve your life



ADR 425/436/448 HL3

Ducted straight cooling and heat pump air conditioner

Three/four-way duct connection

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Temperature sensor inside the remote control

“Auto I Feel” feature, give you the best comfort conditions

Night set back capability

Dry function

Tree speeds centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 10 mm c.a.)

Integrated pump for condensate discharge

Connection for fresh air intake by optional kit with anti-mould / anti-bacteria filter and the facility to access directly to the internal components for maintenance activities

Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic

Auto restart after a power supply black out

Over-pressure electronic protection of the compressor

Wide range of operations:- cooling from -5°C to +45°C- heating from -15°C to +21°C

Three phase power supply 400/3N/50

High efficiency rotary compressor

Wired control



Weekly Timer



PRODUCT NAME		ADR425H		ADR436H		ADR448H	
Indoor unit		AER425SHL3E		AER436SHL3E		AER448SHL3E	
Outdoor unit		AER425SHL3E		AER436SHL3E		AER448SHL3E	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,60	10,60	12,50	12,60	15,30
	BTU/h	25.000	29.300	36.000	42.700	43.000	52.200
	kcal/h	6.280	7.410	9.120	10.750	10.840	13.160
Energy label class	ABCDEFG	D	E	E	E	-	-
E.E.R. / C.O.P.	(kW/kW)	2,61	2,76	2,59	2,80	2,65	2,75
Air flowrate (h.m.l.)	m ³ /h	1.080-900-780		1.800-1.560-1.260		1.980-1.800-1.500	
Dehumidification	l/h	3,5		4,2		5,4	
External static pressure (min-max)	mm W.G.	5,1-9,4		8,1-12,4		8-11,5	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)		3 + Auto / 3 (Auto)		3 + Auto / 3 (Auto)	
Sound power Indoor (h.m.l.)	dB(A)	56-52-49		60-55-53		62-59-55	
Sound pressure Indoor (h.m.l.) at plenum connectic	dB(A)	47-43-40		51-46-44		53-50-46	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Sound pressure Outdoor (h.)	dB(A)	48		49		50	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	2,800	3,120	4,090	4,470	4,760	5,570
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.400	-	2.045	-	-	-
Compressor type		Rotary		Scroll		Scroll	
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		19,05(3/4")		19,05(3/4")	
Max. pipe lenght with gas standard charge	m	30		30		30	
Max. pipe lenght with gas additional charge	m	50		50		50	
Gas additional charge	gr/m	45		50		50	
Max. height between units (Outdoor on top)	m	50		50		50	
Max. height between units (Indoor on top)	m	30		30		30	
Ducts diameter	mm	200		200		200	
Net weight Indoor / Outdoor	Kg	32/71		47/106		47/108	
Net dimension Indoor (H./W./D.)	mm	310x1.000x630		310x1.480x630		310x1.480x630	
Net dimension Outdoor (H./W./D.)	mm	735x940x340		1.235x940x340		1.235x940x340	

The technical data here indicated are in compliance with the European standard EN14511 - Directive 2002/31/EC

PACKAGE CEILING – ON/OFF R407C



improve your life

ACR 425 HL

- Ceiling straight cooling and heat pump air conditioner
- Automatic change-over between cooling and heating mode
- Special function during heat pump start-up and defrosting cycle to avoid cool air in environment
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Night set back capability
- This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities
- Dry function
- Tree speeds centrifugal fan by remote control
- Horizontal flap swinging or to be set on a fixed position by remote control
- Anti-mould and anti-bacteria washable filters
- Possibility to have a connection for fresh air intake
- Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Wide range of operations:- cooling from -5°C to +45°C- heating from -15°C to +21°C
- High efficiency scroll compressor

Wireless control



Wired control



Weekly Timer



PRODUCT NAME		ACR425H	
Indoor unit		AER425SHLE	
Outdoor unit			
Features	Units	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,60
	BTU/h	25.000	29.300
	kcal/h	6.280	7.410
Energy label class	ABCDEFG	E	E
E.E.R. / C.O.P.	(kW/kW)	2,57	2,78
Air flowrate Indoor (h.m.l.)	m ³ /h	1.080-960-840	
Dehumidification	l/h	3,5	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	48-46-43	
Sound pressure Outdoor (h.)	dB(A)	48	
Power supply	V/Ph/Hz	230/1/50	
Running consumption	kW	2,840	3,090
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.420	-
Compressor type		Rotary	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")	
Gas pipe diameter	mm(inch")	15,88(5/8")	
Max. pipe lenght with gas standard charge	m	30	
Max. pipe lenght with gas additional charge	m	50	
Gas additional charge	gr/m	45	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight Indoor / Outdoor	Kg	26/71	
Net dimension Indoor (H./W./D.)	mm	190x1.300x670	
Net dimension Outdoor (H./W./D.)	mm	735x940x340	

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PACKAGE CEILING – ON/OFF R407C



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ACR 425/436/448 HL3

- Ceiling straight cooling and heat pump air conditioner
- Automatic change-over between cooling and heating mode
- Special function during heat pump start-up and defrosting cycle to avoid cool air in environment
- Infrared remote control with 24h digital timer and full features control
- Temperature sensor inside the remote control
- "Auto I Feel" feature, give you the best comfort conditions
- Night set back capability
- This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities
- Dry function
- Tree speeds centrifugal fan by remote control
- Horizontal flap swinging or to be set on a fixed position by remote control
- Anti-mould and anti-bacteria washable filters
- Possibility to have a connection for fresh air intake
- Dynamic refrigerant control by microprocessor, electronic valve and fuzzy logic
- Auto restart after a power supply black out
- Over-pressure electronic protection of the compressor
- Wide range of operations:- cooling from -5°C to +45°C- heating from -15°C to +21°C
- Three phase power supply 400/3N/50
- High efficiency scroll compressor

Wireless control



Wired control



Weekly Timer



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PRODUCT NAME		ACR425H		ACR436H		ACR448H	
Indoor unit		AER425SHL3E		AER436SHL3E		AER448SHL3E	
Outdoor unit		AER425SHL3E		AER436SHL3E		AER448SHL3E	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,60	10,60	12,50	12,60	15,30
	BTU/h	25.000	29.300	36.000	42.700	43.000	52.200
	kcal/h	6.280	7.410	9.120	10.750	10.840	13.160
Energy label class	ABCDEFG	D	D	D	D	-	-
E.E.R. / C.O.P.	(kW/kW)	2,70	2,85	2,67	2,88	2,72	2,81
Air flowrate Indoor (h.m.l.)	m ³ /h	1.080-960-840		1.800-1.560-1.200		1.920-1.680-1.320	
Dehumidification	l/h	3,5		4,7		5,9	
Fan speeds (Indoor / Outdoor)	n°	3 + Auto / 3 (Auto)		3 + Auto / 3 (Auto)		3 + Auto / 3 (Auto)	
Sound pressure Indoor (h.m.l.)	dB(A)	48-46-43		52-50-45		53-50-46	
Sound pressure Outdoor (h.)	dB(A)	48		49		50	
Power supply	V/Ph/Hz	400/3/50		400/3/50		400/3/50	
Running consumption	kW	2,700	3,020	3,970	4,340	4,640	5,450
Annual energy cons.- cooling mode (500h) - Directive 2002/31/CE	kWh	1.350	-	1.985	-	-	-
Compressor type		Rotary R407C		Scroll R407C		Scroll R407C	
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		19,05(3/4")		19,05(3/4")	
Max. pipe length with gas standard charge	m	30		30		30	
Max. pipe length with gas additional charge	m	50		50		50	
Gas additional charge	gr/m	45		50		50	
Max. height between units (Outdoor on top)	m	50		50		50	
Max. height between units (Indoor on top)	m	30		30		30	
Net weight Indoor / Outdoor	Kg	26/71		38/106		38/108	
Net dimension Indoor (H./W./D.)	mm	190x1.300x670		240x1.575x670		240x1.575x670	
Net dimension Outdoor (H./W./D.)	mm	735x940x340		1.235x940x340		1.235x940x340	

MULTIPACKAGE – ON/OFF R407C



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MULTIPACKAGE E.R.F.



(AW serie)



(AS serie)



(AD serie)



(FC serie)



(AC serie)

Cooling and heat pump air conditioners with dehumidification mode available (DRY function), for open space solutions

Size: from 7 to 14 kW

Outdoor unit able to be matched with two, three and four indoor units

Operated by wired remote controls which can be matched with weekly timer control and system control (SYS), or with infrared remote controls (AS/AC/FC)

Possibility to connect the wired remote control with one single master control

E.R.F (Electronic Refrigerant Flow) control for a continuous regulation of the refrigerant flowrate to the indoor units. It is based on an electronic valve and fuzzy logic microprocessor in any single indoor unit

Indoor units type:- Underceiling (AC)- Floor/Ceiling (FC)- Cassette (AS)- Two, three and four ducts ducted type (AD)- Wall (AW)

Automatic cooling/heating changeover.

Wide range of outdoor air temperature (from -15°C to +43°C)

Single-phase (7kW size) or three-phase (all sizes) power supply.

Compressor protection against overpressure and automatic restart after power supply interruption

Great maximum distances and height differences between outdoor and indoor units for easy installation.

Scroll and rotary compressors



Wireless control



Wired control



Weekly Timer



Cluster controller

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MULTIPACKAGE – ON/OFF R407C



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MULTIPACKAGE E.R.F.

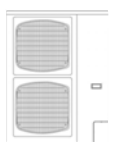
Indoor units matching according to following rules:

- 1) Total cooling nominal capacity of the indoor units must be comprehended between 93% and 107% of the outdoor unit capacity
- 2) When the total nominal capacity of the indoor units exceeds 100% of the outdoor unit capacity, the actual cooling and heating capacity is anyway the one given by the outdoor unit
- 3) MultiPackage system controls allow the simultaneous operation only. MultiPackage systems are designed for Open Space solutions, i.e. hotel halls, conference rooms, big shops or offices, etc.)
- 4) Remote controls can be wired or wireless. Wireless systems allow up to 3 different addresses
- 5) Refrigerant circuit by dedicated copper distribution joint kits.

N.B. Check the accessory list at section multiset VRF R407C



Outdoor units	System combinations	Indoor units	no. units
AER425SHLE AER425SHL3E	Single type	ASR425H-ASR425HG/ACR425H/ADR425H	x 1
	Tw in type	ASR412VHG - FCR412VHG - ADR412VHG-AWR412VH	x 2



AER436SHL3E	Single type	ASR436H-ASR436HG/ACR436H/ADR436H	x 1
	Tw in type	ASR418VHG - FCR418VHG - ADR418VHG-AWR418VH	x 2
	Triple type	ASR412VHG - FCR412VHG - ADR412VHG-AWR412VH (ASR/FCR/ADR418VHG - AWR418VH x 1) + (ASR409VHG - FCR409VHG - ADR409VHG-AWR409VH x 2)	x 3 (1x18+2x9)
	Quartet type	ASR409VHG - FCR409VHG - ADR409VHG - AWR409VH	x 4

AER448SHL3E	Single type	ASR448H-ASR448HG/ACR448H/ADR448H	x 1
	Tw in type	ASR425H-ASR425HG/ACR425H/ADR425H (ASR436H-ASR436HG/ACR436H/ADR436H x 1)+ASR/FCR/ADR412VHG-AWR412VH x 1)	x 2 (1x36 + 1x12)
	Triple type	(ASR/-FCR/ADR418VHG - AWR418VH x 2) + (ASR409VHG - FCR409VHG - ADR409VHG-AWR409VH x 1)	(2x18+1x9)
		(ASR/-FCR/ADR418VHG - AWR418VH x 2) + (ASR412VHG - FCR412VHG - ADR412VHG-AWR412VH x 1) ASR425HG-ASR425H/ ACR425H / ADR425H-ADR425HG x 1) + (ASR/FCR/ADR412VHG - AWR412VH x 2)	(2x18+1x12) (1x25+2x12)
	Quartet type	ASR412VHG - FCR412VHG - ADR412VHG-AWR412VH (ASR/-FCR/ADR418VHG - AWR418VH x 1) + (ASR409VHG - FCR409VHG - ADR409VHG-AWR409VH x 3)	x 4 (1x18+3x9)



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MULTISET V.R.F. R407C

MULTISET V.R.F. – R407C



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MULTISET

Multiset is a variable refrigerant flow (VRF) which complies with European regulations and uses.

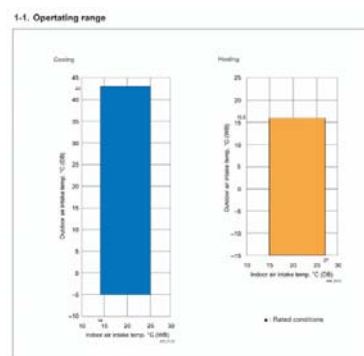
The range of condensing units is made by three heat pump models from 14 up to 31,5 kW (5,8 to 10 HP).

Multiset controls the flowrate of the refrigerant sent into the circuit by an exclusive compressor control technology which gets same performance and results of inverters' one, but without using inverter systems.

The operating range allows application with outdoor temperatures starting from -5°C (cooling mode), and -15°C (heating mode).

The indoor units which can be matched (from 6 up to 13 according to the outdoor unit) are able to satisfy all the applications' need. Cassette, ducted, wall and ceiling and ceiling and floor-ceiling models are available.

The data network connections between indoor and outdoor units is based on a simple and easy to install "two shielded wiring cable" without polarization. By this local area network the building manager, installer and/or field engineering support, may take from a single access point the control of diagnostics data, select and setting any indoor and outdoor parameter.



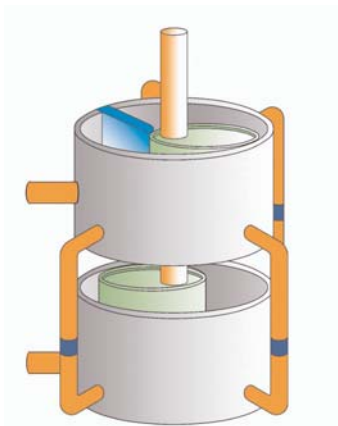
MULTISET V.R.F. – R407C



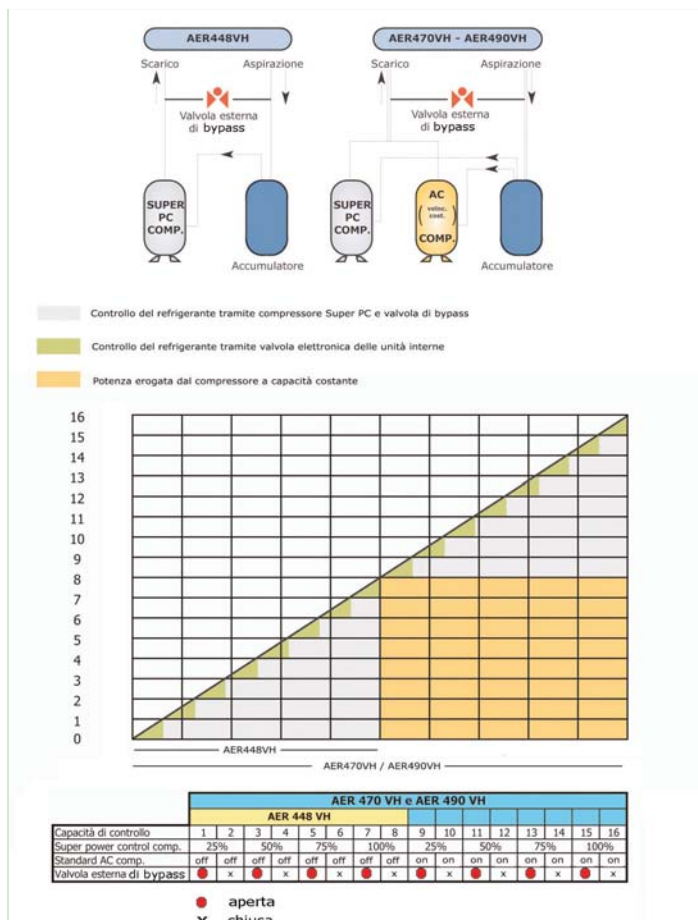
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MULTISET

The control of the performance is ensured by the contemporary action of the Power Controlled Compressor, refrigerant flow electronic valves installed in each indoor unit and external bypass valve. The AER 448 VH model uses one PCC compressor only, while the models AER 470 VH and AER 490 VH use one PCC compressor and one standard compressor.



The Power Controlled Compressor is made by two cylinders which are connected one to each other by three by-pass, through which the refrigerant flowrate is controlled by three valves. Every single by-pass reduces 25% the maximum capacity when it is open. There are therefore 4 power steps available: 25% - 50% - 75% and 100% (when all the by-pass valves are closed).



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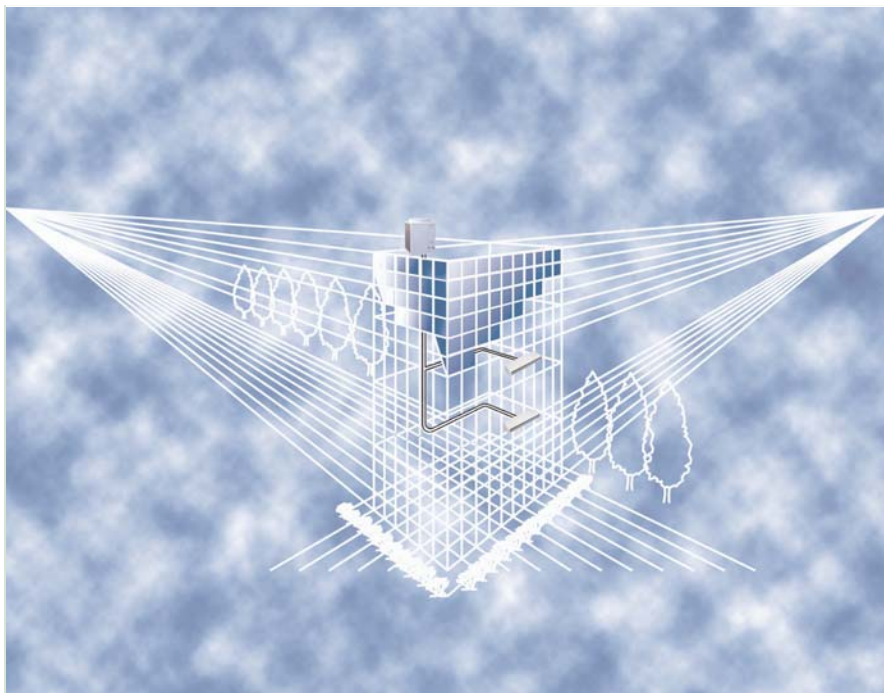


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One of the typical features of the Argo VRF system is the maximum length of the piping in the refrigerant circuit and the height difference between outdoor and indoor units. The refrigerant circuits can reach maximum lengths up to 100 linear meters (125 equivalent meters) while the height difference between outdoor and indoor units can arrive up to 50m.

	Max distances (m)	AER448VH	AER470VH	AER490VH
Max height difference	Outdoor unit on the top	40	50	50
	Indoor unit on the top	30	30	30
	between indoor units	15	15	15
	Max. tubing lenght	70	100	100



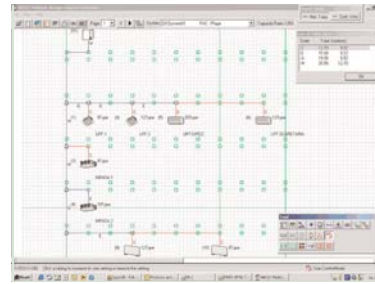
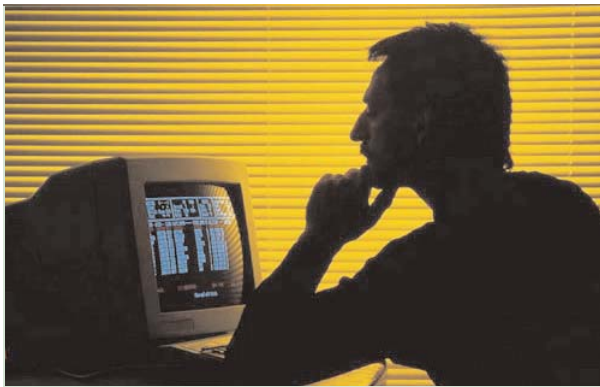
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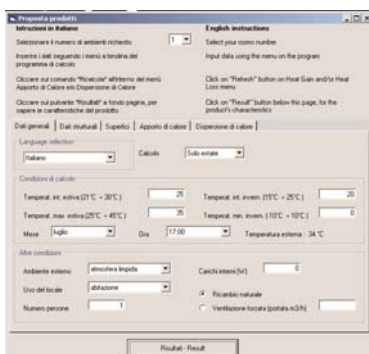
MULTISET



VRF Multiset is provided with a powerful design software (on Windows - 32 bit).

The CAD module include a full features and characteristics of indoor / outdoor units, local and remote controller, accessories, refrigerant distributors....

Project design in one single operation system is made much easier and can issue a PDF standard document.



The thermal design system is available also on Argo website (www.argoclima.com),

both for download to use on a personal computer and for on-line usage.

This design system allows a correct and precise evaluation of the thermal load of a room, calculated taking into account all the different parameters.

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MULTISET V.R.F. – R407C

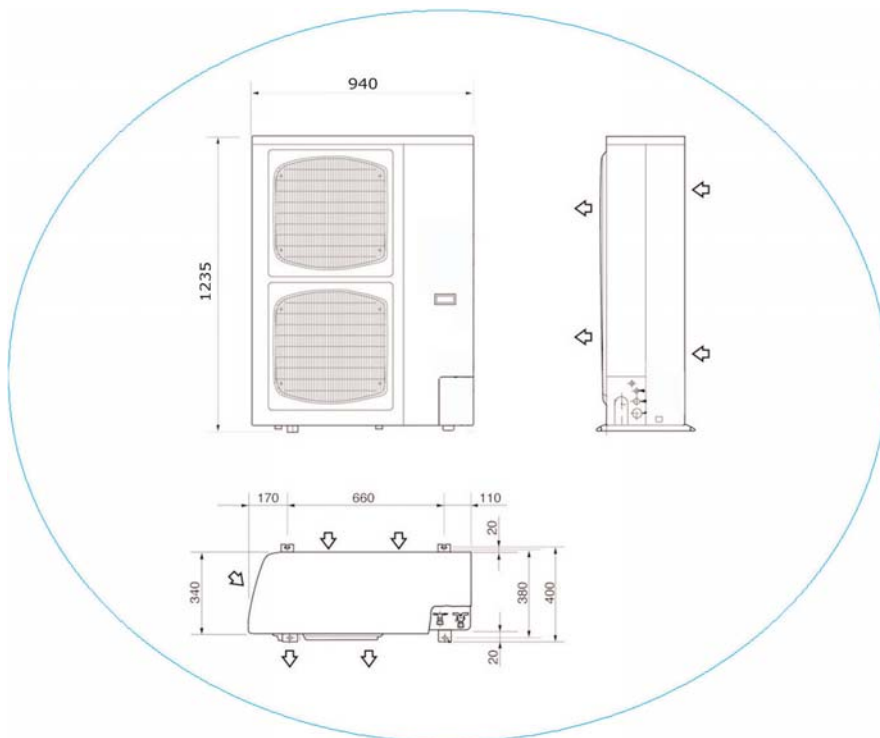


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AER 448 VH



PRODUCT NAME	AER448VH			
	Units	Cooling	Heating	
Features	kW	14,00	16,00	
Cooling/Heating capacity	BTU/h	47.800	54.500	
	kcal/h	12.040	13.760	
	(kW/kW)	2,50	3,04	
E.E.R. / C.O.P.			5,040	
Air flowrate (h.)	m ³ /h	49		
Sound pressure (h.)	dB(A)	400/3N/50		
Power supply	V/Ph/Hz	5,61		
Running consumption	kW	5,27		
Compressor type		Rotary (hermetic)-Power Control		
Refrigerant type		R407C		
Liquid pipe diameter	mm(inch")	9,52(3/8")		
Gas pipe diameter	mm(inch")	19,05(3/4")		
Max. pipe lenght with gas standard charge	m	70		
Gas standard charge	Kg	3,6		
Gas additional charge	gr/m	75		
Max. height between units (Outdoor on top)	m	40		
Max. height between units (Indoor on top)	m	30		
Net weight	Kg	120		
Net dimension (H./W./D.)	mm	1.235x940x340		



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MULTISET V.R.F. – R407C

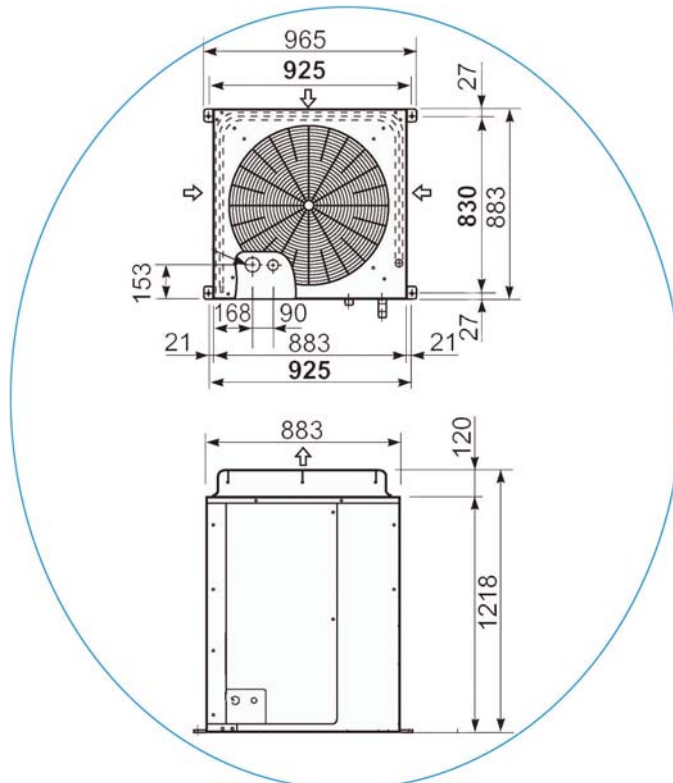


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AER 470 VH



PRODUCT NAME		AER470VH	
Features	Units	Cooling	Heating
	kW	22,40	25,00
Cooling/Heating capacity	BTU/h	76.400	85.300
	kcal/h	19.270	21.500
E.E.R. / C.O.P.	(kW/kW)	2,36	2,92
Air flowrate (h.)	m ³ /h	9,300	
Sound pressure (h.)	dB(A)	52	
Power supply	V/Ph/Hz	400/3N/50	
Running consumption	kW	9,50	8,57
Compressor type		Double rotary (hermetic) - Super Power Control	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	12,7(1/2")	
Gas pipe diameter	mm(inch")	25,4(1")	
Max. pipe lenght with gas standard charge	m	100	
Gas standard charge	Kg	9,5	
Gas additional charge	gr/m	125	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight	Kg	231	
Net dimension (H./W./D.)	mm	1.218x883x883	



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MULTISET V.R.F. – R407C

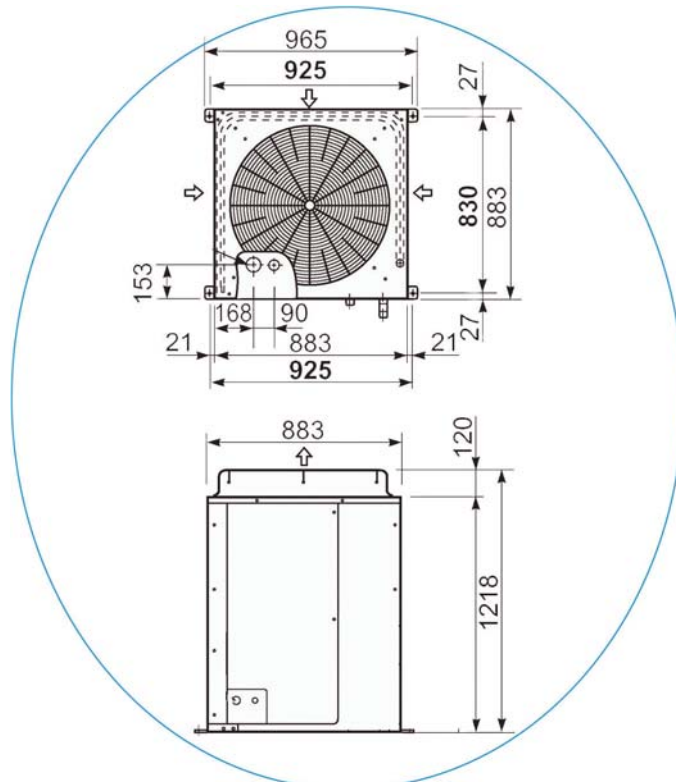


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AER 490 VH



PRODUCT NAME		AER490VH	
Features	Units	Cooling	Heating
	kW	28,00	31,50
Cooling/Heating capacity	BTU/h	95.500	107.500
	kcal/h	24.080	27.090
E.E.R. / C.O.P.	(kW/kW)	2,46	2,97
Air flowrate (h.)	m ³ /h	9.000	
Sound pressure (h.)	dB(A)	52	
Power supply	V/Ph/Hz	400/3N/50	
Running consumption	kW	11,40	10,60
Compressor type		Double rotary (hermetic) - Super Power Control	
Refrigerant type		R407C	
Liquid pipe diameter	mm(inch")	12,7(1/2")	
Gas pipe diameter	mm(inch")	28,58(1-1/8")	
Max. pipe lenght with gas standard charge	m	100	
Gas standard charge	Kg	11	
Gas additional charge	gr/m	125	
Max. height between units (Outdoor on top)	m	50	
Max. height between units (Indoor on top)	m	30	
Net weight	Kg	243	
Net dimension (H./W./D.)	mm	1.218x883x883	



MULTISET V.R.F. – R407C



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ASR 409-412-418 VHG

Cassette straight cooling and heat pump air conditioner

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

Infrared remote control with 24h digital timer and full features control

Temperature sensor inside the remote control

"Auto I Feel" feature, give you the best comfort conditions

Night set back capability

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Dry function

Tree speeds centrifugal fan by remote control

Four horizontal flap swinging or to be set on a fixed position by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Possibility to have a connection for fresh air intake

Double ways of air ducts in adjacent rooms through pre-drilled holes

Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic

PRODUCT NAME		ASR409VHG		ASR412VHG		ASR418VHG	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,80	3,20	3,60	4,20	5,60	6,30
	BTU/h	9.600	11.000	12.300	14.300	19.100	21.500
	kcal/h	2.410	2.760	3.100	3.610	4.820	5.420
Air flowrate Indoor (h.m.l.)	m ³ /h	700-600-500		700-600-500		750-630-530	
Dehumidification	l/h	0,5		1		2,3	
Sound pressure Indoor (h.m.l.)	dB(A)	43-39-36		43-39-36		44-39-36	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,087		0,087		0,087	
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		15,88(5/8")	
Net weight Indoor / grille	Kg	16,5/2,5		16,5/2,5		18/2,5	
Net dimension Indoor (H./W./D.)	mm	273x575x575		273x575x575		273x575x575	
Net dimension grille (H./W./D.)	mm	64x730x730		64x730x730		64x730x730	

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ASR 425-436-448 HG

Cassette straight cooling and heat pump air conditioner

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

Infrared remote control with 24h digital timer and full features control

Temperature sensor inside the remote control

"Auto I Feel" feature, give you the best comfort conditions

Night set back capability

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Dry function

Three speeds centrifugal fan by remote control

Special system to avoid condensate dripping from air outlet ribs

Four horizontal flap swinging or to be set on a fixed position by remote control

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Possibility to have a connection for fresh air intake

Double ways of air ducts in adjacent rooms through pre-drilled holes

Dynamic refrigerant control by microprocessor, electronic valve and fuzzy logic

PRODUCT NAME	Units	ASR425HG		ASR436HG		ASR448HG	
		Cooling	Heating	Cooling	Heating	Cooling	Heating
Features							
Cooling/Heating capacity	kW	7,30	8,00	10,60	11,40	14,00	16,00
	BTU/h	25.000	27.000	36.000	39.000	47.800	54.600
	kcal/h	6.280	6.880	9.120	9.800	9.120	9.800
Air flowrate Indoor (h.m.l.)	m ³ /h	1.140-1.020-840		1.920-1.680-1.320		1.920-1.680-1.320	
Dehumidification	l/h	3,6		4,6		6,3	
Sound pressure Indoor (h.m.l.)	dB(A)	47-45-41		53-50-46		53-50-46	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,14	0,09	0,21	0,15	0,21	0,15
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		19,05(3/4")		19,05(3/4")	
Net weight Indoor with grille	Kg	27		34		34	
Net dimension Indoor (with grille) (H./W./D.)	mm	338x860x860		368x1.150x860		368x1.150x860	
Net dimension grille (H./W./D.)	mm	30x860x860		30x1.150x860		30x1.150x860	

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ACR 425-436-448 H

Ceiling straight cooling and heat pump air conditioner

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

Infrared remote control with 24h digital timer and full features control

Temperature sensor inside the remote control

“Auto I Feel” feature, give you the best comfort conditions

Night set back capability

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Dry function

Three speeds centrifugal fan by remote control

Horizontal flap swinging or to be set on a fixed position by remote control

Anti-mould and anti-bacteria washable filters

Possibility to have a connection for fresh air intake

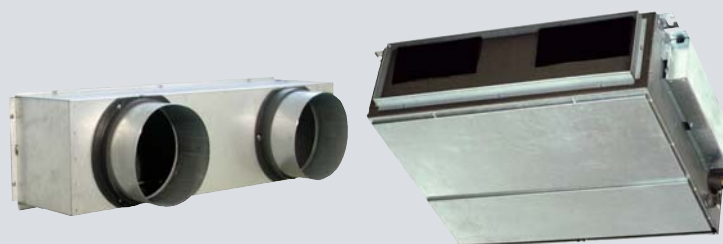
Dynamic refrigerant control by microprocessor, electronic valve and fuzzy logic

PRODUCT NAME	Units	ACR425H		ACR436H		ACR448H	
		Cooling	Heating	Cooling	Heating	Cooling	Heating
Features							
Cooling/Heating capacity	kW	7,30	8,00	10,60	11,40	14,00	16,00
	BTU/h	25.000	27.000	36.000	39.000	47.800	54.600
	kcal/h	6.280	6.880	9.120	9.800	12.040	13.760
Air flowrate Indoor (h.m.l.)	m ³ /h	1.080-960-840		1.800-1.560-1.200		1.920-1.680-1.320	
Dehumidification	l/h	3,5		4,7		7	
Sound pressure Indoor (h.m.l.)	dB(A)	48-46-43		52-50-45		53-50-46	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,095	0,075	0,210	0,190	0,210	0,190
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		19,05(3/4")		19,05(3/4")	
Net weight Indoor	Kg	26		38		38	
Net dimension Indoor (H./W./D.)	mm	190x1.300x670		240x1.575x670		240x1.575x670	

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ADR 409-412-418 VHG

Ducted straight cooling and heat pump air conditioner with optional two ways air channel

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Temperature sensor inside the remote control

“Auto I Feel” feature, give you the best comfort conditions

Night set back capability

Dry function

Tree speeds centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 7 mm c.a.)

Anti-mould and anti-bacteria washable filters

Integrated pump for condensate discharge

Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic

PRODUCT NAME		ADR409VHG		ADR412VHG		ADR418VHG	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,80	3,20	3,60	4,20	5,60	6,30
	BTU/h	9.600	11.000	12.300	14.400	19.100	21.500
	kcal/h	2.410	2.760	3.100	3.610	4.820	5.420
Air flowrate (h.m.l.)	m ³ /h	600-510-440		600-510-440		875-600-400	
Dehumidification	l/h	1		1,8		2,3	
External static pressure (min-max)	mm W.G.	5-7		5-7		5-7	
Fan speeds	n°	3 + Auto		3 + Auto		3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	54-52-49		54-52-49		54-47-42	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	45-43-40		45-43-40		45-38-33	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,125	0,109	0,125	0,109	0,138	0,138
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		15,88(5/8")	
Duct diameter of the 2-way discharge plenum (optional)	mm	200		200		200	
Net weight Indoor / Indoor with plenum	Kg	30/36		30/36		35/42,5	
Net dimension Indoor (H./W./D.)	mm	266x926x571		266x926x571		266x1.132x571	
Net dimension Indoor with plenum (H./W./D.)	mm	266x926x771		266x926x771		266x1.132x871	

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ADR 425-436-448 H

Ducted straight cooling and heat pump air conditioner

Four-way duct connection

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Temperature sensor inside the remote control

“Auto I Feel” feature, give you the best comfort conditions

Night set back capability

Dry function

Three speeds centrifugal fan by remote control and feature to increase speed/pressure (from 5 to 10 mm c.a.)

Integrated pump for condensate discharge

Connection for fresh air intake by optional kit with anti-mould / anti-bacteria filter and the facility to access directly to the internal components for maintenance activities

Dinamic refrigerant control by microprocessor, electronic valve and fuzzy logic

PRODUCT NAME		ADR425H		ADR436H		ADR448H	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	7,30	8,00	10,60	11,40	14,00	16,00
	BTU/h	25.000	27.000	36.000	39.000	47.800	54.600
	kcal/h	6.280	6.880	9.120	9.800	12.040	13.760
Air flowrate (h.m.l.)	m ³ /h	1.080-900-780		1.800-1.560-1.260		1.980-1.800-1.500	
Dehumidification	l/h	3,5		4,2		6,6	
External static pressure (min-max)	mm W.G.	5-10		7-12		7-12	
Fan speeds	n°	3 + Auto		3 + Auto		3 + Auto	
Sound power Indoor (h.m.l.)	dB(A)	56-52-49		60-55-53		62-59-55	
Sound pressure Indoor (h.m.l.) at discharge plenum connection	dB(A)	47-43-40		51-46-44		53-50-46	
Sound pressure Indoor at ducts exit	dB(A)	< 20		< 20		< 20	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,195	0,183	0,327	0,315	0,325	0,313
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	6,35(1/4")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	15,88(5/8")		19,05(3/4")		19,05(3/4")	
Ducts diameter	mm	200		200		200	
Net weight Indoor	Kg	32		47		47	
Net dimension Indoor (H./W./D.)	mm	310x1.000x630		310x1.480x630		310x1.480x630	

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FCR 409-412-418 VHG

Floor/Ceiling straight cooling and heat pump air conditioner

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

Infrared remote control with 24h digital timer and full features control

Temperature sensor inside the remote control

“Auto I Feel” feature, give you the best comfort conditions

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Dry function

Three speeds centrifugal fan by remote control

Horizontal flap swinging or to be set on a fixed position by remote control

Night set back capability

Anti-mould and anti-bacteria washable filters

Dynamic refrigerant control by microprocessor, electronic valve and fuzzy logic

PRODUCT NAME		FCR409VHG		FCR412VHG		FCR418VHG	
Features	Units	Cooling	Heating	Cooling	Heating	Cooling	Heating
Cooling/Heating capacity	kW	2,80	3,20	3,60	4,20	5,60	6,30
	BTU/h	9.600	11.000	12.300	14.400	19.100	21.500
	kcal/h	2.410	2.760	3.100	3.610	4.820	5.420
Air flowrate Indoor (h.m.l.)	m ³ /h	630-540-450		630-540-450		720-650-580	
Dehumidification	l/h	1		1,5		2,3	
Sound pressure Indoor (h.m.l.)	dB(A)	47-43-38		47-43-38		51-47-43	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,06		0,06		0,07	
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		15,88(5/8")	
Net weight Indoor	Kg	23,5		23,5		23,5	
Net dimension Indoor (H./W./D.)	mm	680x900x190		680x900x190		680x900x190	

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AWR 409-412-418 VH

High wall straight cooling and heat pump air conditioner

Automatic change-over between cooling and heating mode

Special function during heat pump start-up and defrosting cycle to avoid cool air in environment

Temperature sensor inside the remote control

“Auto I Feel” feature, give you the best comfort conditions

This air conditioner may be controlled by remote wired controller with configuration, diagnostic and weekly timer capabilities

Dry function

Tangential fan by automatic control

Horizontal flap swinging or to be set on a fixed position by remote control

Night set back capability

Anti-mould and anti-bacteria washable filters

Dynamic refrigerant control by microprocessor, electronic valve and fuzzy logic

PRODUCT NAME	Units	AWR409VH		AWR412VH		AWR418VH	
		Cooling	Heating	Cooling	Heating	Cooling	Heating
Features							
Cooling/Heating capacity	kW	2,80	3,20	3,60	4,20	5,00	6,00
	BTU/h	9.600	11.000	12.300	14.400	17.000	20.000
	kcal/h	2.410	2.760	3.100	3.610	4.300	5.160
Air flowrate Indoor (h.m.l.)	m ³ /h	450-390-340		630-490-430		800-660-520	
Dehumidification	l/h	1,3		1,6		2,5	
Sound pressure Indoor (h.m.l.)	dB(A)	40-36-33		42-39-36		49-45-40	
Power supply	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Running consumption	kW	0,05		0,054		0,08	
Refrigerant type		R407C		R407C		R407C	
Liquid pipe diameter	mm(inch")	9,52(3/8")		9,52(3/8")		9,52(3/8")	
Gas pipe diameter	mm(inch")	12,7(1/2")		12,7(1/2")		15,88(5/8")	
Net weight Indoor	Kg	15		15		15	
Net dimension Indoor (H./W./D.)	mm	360x1.000x205		360x1.000x205		360x1.000x205	

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CONTROLS

REM-HLA

Infrared remote control for cassette, floor/ceiling and ceiling indoor units



REM-HWS

Simplified wired remote control which to be used with the full range of indoor units



REM-HWA

Full features wired remote control to be used with the full range of indoor units



REM-SYS-HW

System controller



WEEKLY TIMER

Digital timer to setup days and week cycles; to be connected with wired remote control



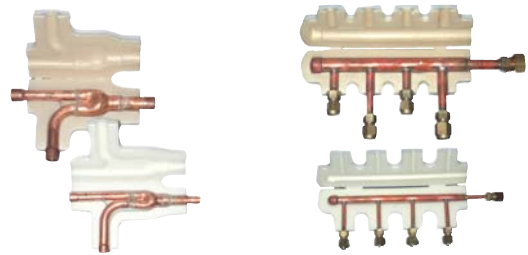
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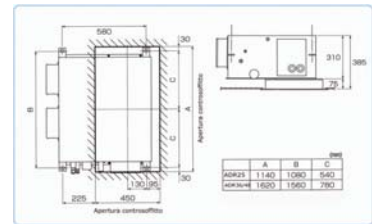
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ACCESSORIES

Distribution kit two/more ways



Air intake kit & filter for ducted series ADR425, ADR436, ADR448



Air distributor two ways for ducted series ADRxx9, ADRxx12



Air distributor three ways for ducted series ADRxx18, ADRxx22



Refrigerant electronic valve for installation outside of the indoor unit





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RULES FOR THE APPLICATION OF THE ENERGY LABEL

Our air conditioners are fully compliant to the most recent European regulations concerning the reduction of the energy consumption and the lessening of the atmosphere pollution.

The energy labels, indicating the energy efficiency class, have been introduced by the European Directive 2002/31/EC, which makes reference to the standard EN14511 for the determination of the energy class.

The energy labels must be applied on products (air-conditioners air-to-air up to 12 kW of cooling capacity) in exposition on the points of sale, with the objective of giving information on the energy efficiency of the air-conditioners to the final user.

The energy label is divided in two parts: one is coloured and generic, the other, adhesive and black and white, contains the technical and efficiency data of each product or combination of indoor/outdoor units and must be stucked on the one, in the empty space.

Our company supplies both parts of the energy label: the one, coloured, is delivered directly to the points of sale (responsible for the application of the energy label on the products in exposition), the other (black and white) with technical and efficiency data is put directly inside the product carton box at the end of the production process (to make easier for the seller the application of the right label).

If the black & white part of the energy label is lost, each point of sale can immediately download it from the dedicated section in our Web Site, or ask for it to our Marketing Department.

Example of Energy label:

1) generic part - coloured

2) specific part - black & white

The energy label shows the belonging class: "A" class is the best one and it is assigned on the basis of specific tables that put in relation the thermal capacity and the energy consumption for each product.

The ratios used to assign the energy class are the following:

E.E.R. = Energy Efficiency Ratio, is the relation between the cooling capacity (kW) and the power consumption in cooling mode (kW)

C.O.P. = Coefficient Of Performance, is the relation between the heating capacity (kW) and the power consumption in heating mode (kW)

Air-conditioner

Energy

Manufacturer
Outside unit
Inside unit

More efficient

Less efficient

Annual energy consumption kWh in cooling mode	
<small>(Actual consumption will depend on how the appliance is used and climate)</small>	
Cooling output kW	
Energy efficiency ratio (EER) <small>At full load (The higher the better)</small>	
Size	
Cooling only	---
Cooling/heating	---
Air cooled	---
Water cooled	---
Heat output kW	
Heating performance:	
A: more efficient	G: less efficient
Noise <small>[dB(A) re 1 pW]</small>	
Further information is contained in product brochures	
<small>Norm EN 14511 Air-conditioner Energy label Directive 2002/31/EC</small>	

ARGO 235H XFETTO

450

2.35
2.61

←
←

2.25

AB **C** DEFG



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