

Ducted Split System Air Conditioners

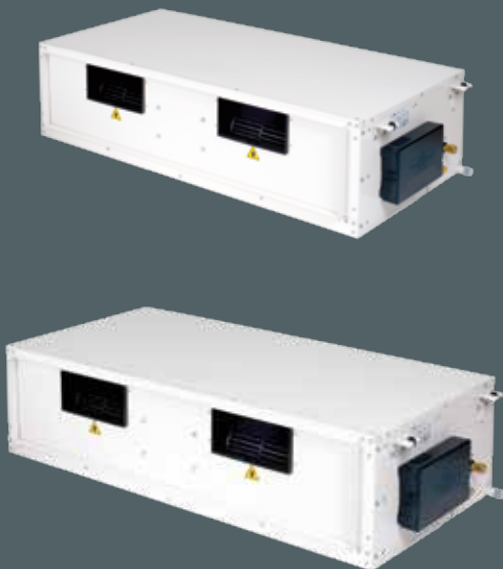
High Static & High Energy Efficiency
Capacity Range : 9.1 to 18.6 Kw.



Amena Gold III Series-R410A

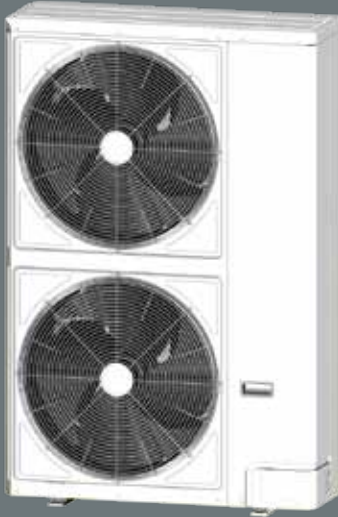
Amena's Gold II Series high static ducted splits with R410A have been well recognized and appreciated by all our customers for their high quality, reliability and energy efficiency beside their attractive and compact designs.

With the new Australian MEPS2012/2014 becoming effective on April 1,2012 Amena has completed development of Gold III series, a new generation of high static ducted splits with R410A refrigerant. This series is fully compliant with the latest MEPS that is mandatory for all air conditioning units from April 1, 2012. The range includes single phase products from 9.1 Kw to 15Kw and three-phase products from 10.9 to 25.4 Kw. Amena is also busy with development of larger capacities to satisfy the popular demand from the market place.



Indoor Units Features

- Five-speed fan motor for highly flexible selection of air flow volume.
- Wired remote control with either 2-zone,4-zone or 8-zone selections.
- The internal casing is insulated with 5-mm thick closed cell insulation for acoustic and thermal protection.
- Service-friendly construction with ease of access to the blower and fan assembly from the top or bottom.
- Drain tray is electrostatically powder-coated with epoxy paint and insulated with 10-mm thick closed cell insulation.
- Unit casing is made of high quality galvanized steel and electrostatically powder-coated with high quality epoxy paint and oven-baked .
- Evaporators are made of high quality copper tubes and pre-coated aluminium louvre fins for efficient heat exchanging and hydrophilic property.



Outdoor Units Features

- Pre-charged with R410A refrigerant for a 12-metre pipe run.
- Unit operating range is from -5°C to 43°C ambient temperature.
- Three-speed fan motor for efficient performance and low noise operation.
- Equipped with adequate safety devices for compressor and system protection.
- Casing being built of high grade galvanized steel sheet for added strength and durability.
- Completely re-designed for compactness, high efficiency, functionality and aesthetic appearance.
- Compressor and electrical box compartments are easy to disassemble for ease of service or maintenance.
- Pre-coated coil fins for highly efficient hydrophilic property and resistance against corrosive sea salt and chemical vapours.
- Electrostatically powder-coated and oven-baked with high quality epoxy paint for durability and resistance against wear and tear caused by harsh environment.



Zone Control Features

- All-damper off protection.
- Outdoor coil overheat protection.
- Control of dampers up to 4 zones.
- Reversing valve change protection.
- Automatic re-start after power failure.
- Compressor protection in heating mode.
- Automatic defrost cycling in heating mode.
- Fault diagnostic functions with LED indicator.
- Turbo, High, Medium, low and auto fan speeds.
- Delay timer to protect compressor against recycling.
- Anti-freeze protection for indoor coil in cooling mode.
- Watch dog circuit to reset MCU after power fluctuations.
- Automatic changeover from cooling to heating or vice versa.
- Two display units can be installed and the average temperature readings are taken.
- Pre-heat function in heating mode to prevent cold draft while the compressor is on.
- Post-heat function in heating mode to prevent cold draft while the compressor is off.
- Timer has 2, 5 and 7 day options –quite a great flexibility for residential and commercial applications.
- User-friendly wall touch pad with backlit display and possible additional wireless remote control as option.



Specifications			Single Phase/R410A				Three Phase/R410A		
Model	Indoor Unit		DNH30 LNVH-EVZ	DNH36 LNVH-EVZ	DNH45 LNVH-EYZ	DNH48 LNVH-EYZ	DNH36 LNVH-EYZ	DNH48 LNVH-EYZ	DNH60 LNVH-EYZ
	Outdoor Unit		KM30 RSVH-ECZ	KM36 RSVH-ECZ	KM45 CSVH-ECZ	KM48 CSVH-ECZ	KM36 RSYH-ECZ	KM48 CSYH-ECZ	KM60 CSYH-ECZ
Total Rated Cooling Capacity*	kW		9.1	11.0	13.4	15.0	10.9	15.0	18.6
Rated Sensible Cooling Capacity	kW		7.3	9.6	11.7	12.4	9.4	12.5	15.0
Rated Dehumidifying Effect	kW		1.8	1.4	1.7	2.6	1.5	2.5	3.6
Moisture removal	L/hr		2.60	2.08	2.40	3.80	2.17	3.67	5.34
Rated AEER	W/W		3.13	3.16	3.14	3.11	3.20	3.11	3.12
Total Rated Heating Capacity**	kW		8.8	11.2	13.4	14.9	10.9	14.6	18.4
Rated ACOP	W/W		3.19	3.58	3.56	3.44	3.56	3.64	3.53
Power supply	V/Ph/Hz		220-240/1/50				380-415/3/50		
Running current	Cooling	A	12.60	15.20	20.50	22.50	5.35	7.65	9.25
	Heating	A	12.00	13.90	18.40	21.00	4.90	6.45	8.30
Power consumption	Cooling	W	2,900	3,470	4,260	4,820	3,400	4,820	5,950
	Heating	W	2,750	3,120	3,750	4,320	3,050	4,000	5,200
Piping connection	Type (Liq./Gas)		Flare/Flare						
	Liq./Gas/Drain	mm	Ø9.5/15.9/ID.26.6			Ø12.7/19.0/ID.26.6			
	Max. Length	m	30						
	Max. Height	m	+/- 15						
Indoor			DNH30 LNVH-EVZ	DNH36 LNVH-EVZ	DNH45 LNVH-EYZ	DNH48 LNVH-EYZ	DNH36 LNVH-EYZ	DNH48 LNVH-EYZ	DNH60 LNVH-EYZ
Evaporator Coil	Row		3						
	Tube		Ø7-Grooved						
Blower	Type		Double Inlet Centrifugal Fan						
	No.		2						
Fan motor	Type		Permanent Split Capacitor						
	Power supply	V/Ph/Hz	220-240/1/50						
	No.		1						
	Full Load Current	A	2.10			3.50			
Nominal Output	W	311			527				
Nominal air flow rate	l/s	660/565/450	760/635/535			930/890/815		1040/915/750	
External static pressure	Min-Max	Pa	25-120	25-150					
Sound pressure level at 1 m.		dB(A)	48/45/44		51/49/47		48/46/44	51/49/47	
Unit Dimensions	H x W x D	mm	300x1180x600	360x1400x660	360x1400x660			440x1400x850	
Packing Dimensions	H x W x D	mm	335x1270x685	410x1490x745	410x1490x745			485x1490x935	
Net weight		Kg	45	62	73		62	73	80
Gross weight		Kg	50	68	79		68	79	88
Outdoor			KM30 RSVH-ECZ	KM36 RSVH-ECZ	KM45 CSVH-ECZ	KM48 CSVH-ECZ	KM36 RSYH-ECZ	KM60 CSYH-ECZ	KM60 CSYH-ECZ
Condenser coil	Row		3			2		3	
	Tube		Ø7-Grooved						
Fan	Type		Propeller Direct Drive						
	No.		1	2		1	2		
Fan motor	Type		Permanent Split Capacitor						
	Power supply	V/Ph/Hz	220-240/1/50						
	No.		1	2		1	2		
	Full Load Current	A	1.10			1.10x2		1.10	1.10x2
Nominal Output	W	139			139x2		139	139x2	
Compressor	Type		Rotary		Scroll		Rotary	Scroll	
	Power supply	V/Ph/Hz	220-240/1/50				380-415/3/50		
Refrigerant	Type		R-410A						
	Charging weight at 12m Pipe Length	Kg	3.35	3.75	4.65	5.55	3.95	4.85	5.95
Additional Charge	g/m	50						100	
Nominal air flow rate at Highest Speed	l/s	1200	1400	2000		1400	2000		
Sound pressure level at 1 m.		dB(A)	59/55/49	60/56/51	61/58/55		60/56/51	61/58/55	
Unit Dimensions	H x W x D	mm	760x1008x390	965x970x390	1320x970x390		965x970x390	1320x970x390	1470x970x390
Packing Dimensions	H x W x D	mm	832x1050x455	1035x1050x455	1390x1050x455		1035x1050x455	1390x1050x455	1545x1050x455
Net weight		Kg	80	90	102	106	78	106	130
Gross weight		Kg	84	94	107	111	82	111	135

Note : * Cooling capacity and electric characteristics are based on 27 °C DB, 19 °C WB indoor temp. and 35 °C outdoor temp. at highest speed Power Supply 240V/1PH/50Hz Operative up to 43 °C outdoor Temp., Refrigerant pipe length 7.5 m.

** Heating capacity and electric characteristics are based on 20 °C DB indoor temp. and 7 °C DB, 6 °C WB outdoor temp. at highest speed Power Supply 240V/1PH/50Hz Operative down to -10 °C outdoor temp., Refrigerant pipe length 7.5 m.

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