

Alliance

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Alliance Direct Heating Commercial Heat Pump Range

ALLWH100R410 · ALLWH200R410 · ALLWH420R410

ALLWH800R410 models

- Electronically controlled Expansion Valve controls internal flow rate to ensure constant high water outlet temperature
- Max. water temperature 60°C
- Advanced pipe-in-pipe heat exchanger for maximum energy efficiency
- Scroll compressor type
- Backed nationwide by Alliance branches in all major metropolitan areas

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Alliance's Direct Heating Heat Pump range is the ideal economical hot water solution for hotels, guesthouses, B&B's, hostels, factories offices etc. An electronically-controlled Expansion Valve (EEV) ensures a constant supply of water at a pre-set temperature, with a settable range of 40°C – 60°C (factory default setting: 50°C). Intelligent control algorithms ensure that the internal flow rate of the refrigerant is optimised via the EEV to deliver unmatched efficiency and stable outlet temperature even in low winter ambient conditions. Water heating can take place any time of day or night (i.e. when electricity demand is low), as well as during cloudy or rainy weather. Backed by Alliance branches in all major metropolitan areas.



Model	ALLWH100R410	ALLWH200R410	ALLWH420R410	ALLWH800R410
Power Supply	220V-1ph-50Hz	380V-3ph-50Hz	380V-3ph-50Hz	380V-3ph-50Hz
Capacity	11.2 Kw	20.4 Kw	39 Kw	80 Kw
Input	2.85 Kw	5.2 Kw	9.65 Kw	20 Kw
Rated Current	13.8 Amps	9.5 Amps	24 Amps	34 Amps
Max Input current	3.97 Kw	7.5 Kw	14.5 Kw	26 Kw
COP	3,82	4	4,04	4
Compressor Type	Scroll	Scroll	Scroll	Scroll
Brand	Copeland	Copeland	Copeland	Danfoss
Noise	61 dB(A)	61 dB(A)	66 dB(A)	68 dB(A)
Net Dimensions	750 x 1100 x 750 mm	750 x 1100 x 750 mm	1015 x 1775 x 1026 mm	1995 x 1770 x 1025 mm
Net Weight	121 Kg	145 Kg	323 Kg	599 Kg
Gross Weight	129 Kg	152 Kg	343 Kg	627 Kg
Refridgerant Type	R410A	R410A	R410A	R410A
Refridgerant Quatity	1.5 Kg	2.8 Kg	4.5 Kg	4.5 Kg X 2
Ambient working range	-15°C to 46°C	-15°C to 46°C	-15°C to 46°C	-15°C to 46°C
Water Inlet Pipe	DN25	DN25	DN32	DN50 Flange
Water Outlet Pipe	DN25	DN25	DN32	DN50 Flange
Hot Water Yield	0.25 m3/hr	0.52 m3/hr	0.85 m3/hr	1.7 m3/hr
Wire Controller	KJR-51	KJR-51	KJR-51	KJR-51
Max Temperature	60°C	60°C	60°C	60°C
Set Temperature Range	40°C to 60°C	40°C to 60°C	40°C to 60°C	40°C to 60°C
Casing	Galvanized Metal	Galvanized Metal	Galvanized Metal	Galvanized Metal
Condenser	Tube in tube heat exchanger			
Air DischargeType	Vertical	Vertical	Vertical	Vertical
Fan Quantity	1	1	1	2

1. Test conditions: outdoor temp. 20/15°C (DB/WB), inlet water temp. 15°C, outlet water temp. 55°C.

2. Operational range:-15°C-43°C.

3. Specification may be changed due to product improvements. Please refer to the nameplate.

Alliance reserves the right to discontinue or change specifications at any time without notice and without incurring obligation. E&OE.

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