

EXPERIENCE THE  
**ALLIANCE**  
**DIFFERENCE**

# Alliance Direct Heating Commercial Heat Pump Range

*ALLWH120R410 · ALLWH200R410*  
*ALLWH420R410 · ALLWH800R410*

- 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 by Fourways Group nationwide



**Alliance**

[www.allianceafrica.co.za](http://www.allianceafrica.co.za)

fourways 

# Alliance Direct Heating Commercial Heat Pump Range

ALLWH120R410 · ALLWH200R410 · ALLWH420R410

ALLWH800R410 models

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		ALLWH120R410	ALLWH200R410	ALLWH420R410	ALLWH800R410
Power Supply	V-ph-HZ	220V-1ph-50Hz	380V-3ph-50Hz	380V-3ph-50Hz	380V-3ph-50Hz
Capacity	Kw	11.8	20.4	39	80
Input	Kw	2.95	5.2	9.65	20
Rated Current	Amps	13.8	9.5	24	34
Max Input current	Kw	3.97	7.5	14.5	26
COP		4	4	4,04	4
Compressor Type		Scroll	Scroll	Scroll	Scroll
Brand		Copeland	Copeland	Copeland	Danfoss
Noise	dB(A)	59	61	66	68
Net Dimensions	mm	790 x 1100 x 810 mm	750 x 1100 x 750 mm	1015 x 1775 x 1026 mm	1995 x 1770 x 1025 mm
Net Weight	Kg	125	145	323	599
Gross Weight	Kg	145	152	343	627
Refridgerant Type		R410A	R410A	R410A	R410A
Refridgerant Quatity	Kg	1.5	2.8	4.5	4.5 Kg X 2
Ambient working range	°C	-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	m <sup>3</sup> /hr	0.25	0.52	0.85	1.7
Wire Controller		KJR-51	KJR-51	KJR-51	KJR-51
Max Temperature	°C	60	60	60	60
Set Temperature Range	°C	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 Discharge Type		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.

**Alliance**

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