

Alliance

Affordable quality · Proven reliability · Since 2006



Alliance Direct Heating Commercial Heat Pump Range

*ALLWH120R410 · 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

*Total
Comfort*

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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.



| Model | ALLWH120R410 | ALLWH200R410 | ALLWH420R410 | ALLWH800R410 |
|-----------------------|-----------------------------|---------------------|-----------------------|-----------------------|
| Power Supply | 220V-1ph-50Hz | 380V-3ph-50Hz | 380V-3ph-50Hz | 380V-3ph-50Hz |
| Capacity | 11.8 Kw | 20.4 Kw | 39 Kw | 80 Kw |
| Input | 2.95 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 | 4 | 4 | 4,04 | 4 |
| Compressor Type | Scroll | Scroll | Scroll | Scroll |
| Brand | Copeland | Copeland | Copeland | Danfoss |
| Noise | 59 dB(A) | 61 dB(A) | 66 dB(A) | 68 dB(A) |
| Net Dimensions | 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 | 125 Kg | 145 Kg | 323 Kg | 599 Kg |
| Gross Weight | 145 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.

Total Comfort

KZN: Tel: (032) 648 0037
Email: sales@totalcomfort.co.za

GAUTENG: Tel: (011) 795 3696
Email: gauteng@totalcomfort.co.za

www.totalcomfort.co.za

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