

Heat pump
FAIRLAND
Vertical



Step into warmth



CONVINCING ADVANTAGES THAT MAKE THE DIFFERENCE

HP-Booster technology

HP-Booster technology permits very precise regulation of the gas flow to adapt to fluctuations of the ambient temperature.

This technology also improves the COP by up to 20% and allows the compressor to run in optimal conditions thus extending its service life.

Defrosting by cycle inversion

This feature allows the heat pump to run efficiently at temperatures as low as 0°C.

Cycle inversion melts the ice that can build up on the evaporator much more quickly and efficiently than other defrosting techniques (stopping the compressor, etc.).

Silver welding and flow switch

All the copper tubing in Fairland heat pumps is silver welded.

This welding technique eliminates the risks associated with gas leaks.

Fairland heat pumps are fitted with magnetic flow switches.

Plastic coated cabinet

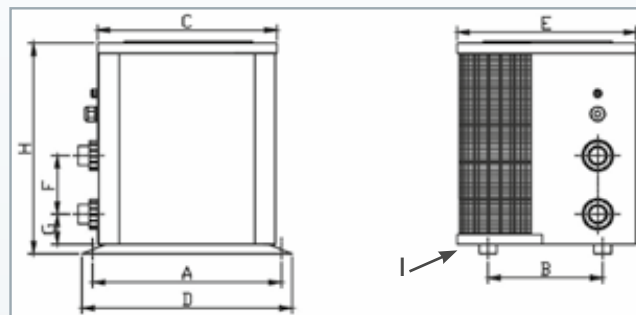
The cabinets housing Fairland's vertical heat pumps are made of plastic coated galvanised steel. This anti-corrosion protective coating is longer lasting and more effective than that usually used on heat exchanger cabinets.

Compressor and heat exchanger

The refrigerant used in Fairland vertical heat pumps is R-407C. Models up to PH45V are fitted with rotary compressors, while models PH60V and above come with a Scroll compressor.

Fairland vertical heat pumps are equipped with titanium coil heat exchangers covered by a 5 year guarantee.

Fairland heat pumps with vertical blowers are particularly recommended for situations where the machine must be installed near walls or some other obstacle that could hinder the expulsion of cold air and cause it to be recycled. Fairland's vertical heat pumps are also recommended if the air blown by the machine would be unpleasant for bathers or other people in the vicinity.



| Models/ Dimensions (in mm) | A | B | C | D | E | F | G | H | I |
|----------------------------------|-----|-----|-----|-----|-----|-----|----|-----|----|
| PH15V | 544 | 274 | 530 | 567 | 550 | 200 | 83 | 640 | 22 |
| PH20V | 544 | 274 | 530 | 567 | 550 | 200 | 83 | 640 | 22 |
| PH30V | 663 | 458 | 652 | 689 | 694 | 200 | 83 | 640 | 20 |
| PH45V | 663 | 458 | 652 | 689 | 694 | 280 | 83 | 740 | 20 |
| PH60V | 663 | 458 | 652 | 689 | 694 | 350 | 83 | 740 | 20 |

Note: According to Technical Directive no. 10 issued by the 'Fédération des Professionnels de la Piscine' and NF certification standards pertaining to heat pumps, manufacturers and importers of heat pumps must quote the power output of their machines at an ambient air temperature of 15°C.

Technical data

| Model | PH15V | PH20V | PH30V | PH45V | PH60V |
|--|-----------------------------|--------------------|--------------------|--------------------|--------------------|
| Power output at 15° C (kW) | 4.50 | 6.30 | 8.50 | 11.00 | 16.00 |
| Power output at 26° C (kW) | 6.50 | 9.00 | 12.00 | 16.00 | 23.00 |
| Power consumption (kW) | 0.93 | 1.40 | 1.80 | 2.40 | 3.80 |
| Coefficient of performance (COP) at 15° C | 4.80 | 4.50 | 4.70 | 4.60 | 4.30 |
| Power supply (V) | 230 Volts / 1 ph / 50 Hertz | | | | |
| Nominal current (A) | 4.6 | 6.4 | 8.2 | 10.9 | 17.3 |
| Power cable cross section (mm ²) for a cable ≤ 10 m | 3 x 2.5 | 3 x 2.5 | 3 x 4.0 | 3 x 4.0 | 3 x 6.0 |
| Residual current device (mA) | 30 | | | | |
| Differential circuit breaker (A) | 10 | 16 | 16 | 20 | 30 |
| Heat exchanger | Titanium (PVC body) | | | | |
| Compressor type | Rotary - R 407C | | | | Scroll - R 407C |
| Recommended water flow rate (m ³ /h) | 4 to 6 | 5 to 7 | 6.5 to 8.5 | 8 to 10 | 8 to 10 |
| Hydraulic connections (mm) | Ø 50 | | | | |
| Dimensions: Length (without hydraulic connections) x Width (overall) x Height (overall) | 550 x 544 x 640 | 550 x 544 x 640 | 694 x 663 x 640 | 694 x 663 x 740 | 694 x 663 x 740 |
| Net weight/ gross weight (Kg) | 45/50 | 52/55 | 66/70 | 85/93 | 127/137 |
| Recommended pool volume m ³ * | 29 | 41 | 55 | 71 | 103 |

* The values indicated are valid under the following conditions: Ambient air temperature - 15°C. Water temperature - 25°C. Pool covered at night with an isothermal cover. Filtration running at least 15 hours per day during the heating season.

Wiring

The junction box is easy to access. A remote installed control pad with a 10m cable is available as an option for all Fairland vertical heat pumps.



Accessories included

- Set of 4 vibration damping pads.
- Fairland vertical heat pumps come with a protective cover.



Guarantee

The titanium heat exchanger in Fairland heat pumps is covered by a 5 year guarantee, the compressor and other components by a 2 year guarantee. These guarantees cover repairs in the workshop.

Heat pump
2
YEAR
Workshop
Guarantee

Titanium
exchanger
5
YEAR
Workshop
Guarantee

Compressor
2
YEAR
Workshop
Guarantee

Dealer's stamp