

**VARIABLE SPEED AIR TO WATER HEAT PUMP**

**THE SMARTEST, MOST VERSATILE AND EASIEST TO INSTALL  
ALL IN ONE AIR TO WATER HEAT PUMP**

The requirement for a high capacity, efficient Air Source Heat Pump has been made a reality with 'The Ambient'. This Australian designed and manufactured multi-purpose heat pump can form the center of your heating, cooling and DHW systems. The Ambient uses state of the art technology enclosed in a solution designed for easy setup and maintenance.



**Features**

- Heating Only 23kW
- Heating / Cooling / DHW 23kW
- Ideal for Hydronic Heating systems
- Ducted Chilled & Heated FCU
- Chilled Water applications
- Pool Heating 28kW @ 35°C
- Domestic & Commercial Hot Water
- Reverse Cycle

**Optional Extras**

- 3 phase option
- Domestic Hot Water
- Buffer Tank option

**Warranty**

Domestic Installation

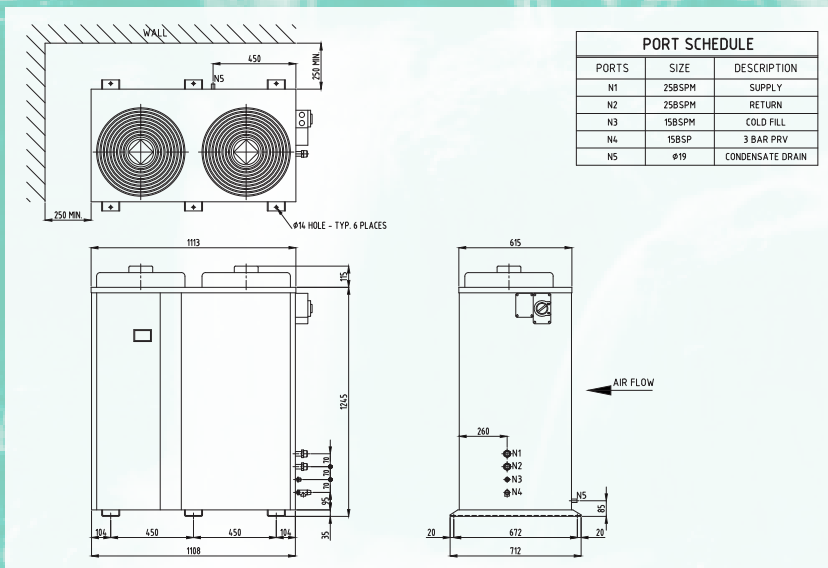
- 5 Year Parts
- 1 Year Labour

Commercial Installation

- 2 Year Parts
- 1 Year Labour

**Components**

- Copeland Scroll™ Variable Speed Compressor
- Carel Inverter for dc Compressors
- Alfa Laval Heat Exchanger (WaterMarked)
- EBM Fans



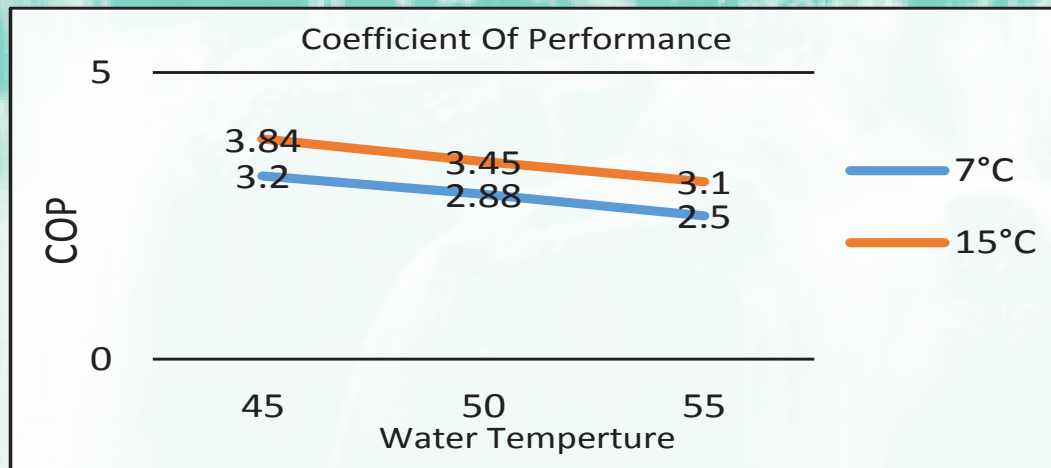


Variable Speed Air Sourced Heat Pumps™

**KEY FEATURES:**

	HEATING	COOLING
Air Discharge Platform (Fan)	2 Fans Top Exhaust	2 Fans Top Exhaust
Fan Type	EBM AC Fan with Speed Control	EBM AC Fan with Speed Control
Noise Level / Night Mode	64 dB(A) / 52 dB(A)	64 dB(A) / 52 dB(A)
Maximum Water Temperature	55°C (Hydronic) @ 7°C ambient	7°C (Cooling) @ 35°C ambient
Ambient Temperature Range	-5°C to 20°C	20°C - 45°C
Min Ambient Operating Temperature	- 5°C	45°C
Pump Type	Wilco 25/6 Plastic	Wilco 25/6 Plastic
Max Water Pressure Rating	3 bar	3 bar
Heating Output / Power Input	5kW - 23kW	5kW – 21.8kW
Coefficient of Performance (COP) @ 45°C	3.2 @ 7°C / 23kW Output	3.2 @ 35°C / 21.8kW Output
Input Voltage / Frequency / Phase	240V / 50Hz / 1ph	240V / 50Hz / 1ph
Max Rated Input Power	7kW @ 32amp	7kW @ 32Amp
<b>Input Voltage / Frequency / Phase</b>	<b>415V / 50Hz / 1x240V</b>	<b>415V / 50Hz / 1x240V</b>
<b>Max Rated Input Power</b>	<b>2.3kW @ 16amp</b>	<b>7kW @ 16Amp</b>
Starting Current	4amp	4amp
Electrical Protection	40amp CB / 20amp @ 3x415V	40amp CB / 20amp @ 3x415V
Heat Pump Unit Dimensions *(LxWxH)	1200mm x 600mm x 1200mm	1200mm x 600mm x 1200mm
Packaging Dimensions *(LxWxH)	1200mm x 700mm x 1500mm	1200mm x 700mm x 1500mm
Gross Weight	150kg	150kg
Outlet Fitting Size	DN25 BSP 1" Male	DN25 BSP 1" Male
Refrigerant / Charge	R410a / 3.4kgs	R410a / 3.4kgs
Refrigerant Expansion	EEV	EEV
IP Rating	IP55	IP55
Water Heat Exchanger Type / Material	ALFA LAVAL Brass Plated	ALFA LAVAL Brass Plated
Compressor Type / Brand	COPELAND DC Scroll	COPELAND DC Scroll
Controller	CAREL Inverter	CAREL Inverter

# Includes; Auto Fill Valve, Expansion Tank, Circulating Pump & Auto Air Bleed #



All information contained in this datasheet is correct at the time of publication. Information is subject to change without prior notice. Contact Australian Hydronics Supplies in order to get the most up-to-date datasheets.

