

APOLLO 4

Exhaust Air All-in-One Heat Pump for Heating, Hot Water storage and cooled water

The Apollo 4 exhaust air heating and hot water heat pump is a 3-pipe integrated unit providing heating, cooled water and hot water storage. The exhaust air heat pump is interlinked with the existing MVHR design enabling the exhaust air to pass through the heat pump to the external environment when the heat pump is operational.

Once the heat pump stops operating, via our integrated ventilation and control system, the exhaust air continues to operate via the installed MVHR unit, ensuring continuous apartment ventilation is maintained.

R-513A refrigerant is a non-ozone depleting (ODP), low global warming potential (GWP) of 573. It also carries a "non-dangerous" safety classification of A1 - low toxicity, and Class 1 - No Flame Propagation.



Key features:

- 3-pipe system providing, heating, cooled water and hot water storage
- Water outlet temperature - maximum 75°C
- 4kW Low Temperature Hot Water heating
- 2kW Cooled Water
- 170 litre hot water storage tank, stored at minimum 65°C
- 30 litre buffer tank, maintained at 65°C
- Cooled water for cooling functionality if required
- COP 4.6 Ambient - 7°C water outlet 35°C
- A+++ Rated
- DC Inverter controlled
- Refrigerant R513A with a GWP 573, ODP of 0 and Class 1 Flammability (No flame propagation)
- Easy to access User Interface Panel.
- Wi-Fi connected & Mobile App Interface providing control and monitoring
- MODBUS open protocol interface port for direct BMS connection
- Volt free contacts for Run and Fault status
- System control, based on hot water priority
- Anti-freezing protection
- In-built multi fault protection
- Fault self-diagnosis
- A1 Safety Classification
- EU/UK CE Compliant

Model	Apollo 4
Application	Heating and Hot Water
Efficiency average heating average 35 / 55°C	A+++ / A++
Hot water efficiency	A+ / L
Output Data (EN14825)	
Nominal heating output (kW)	4
Nominal cooled water output (kW)	2
SCOP average heating 35°C / 55°C	4.6/3.6
Refrigerant	
Refrigerant type	R-513A
Refrigerant GWP / ODP	573 / 0
Refrigerant quantity (kg)	1.6
Refrigerant Safety Classification	A1 / Class 1
Heating Data	
Operating pressure, safety valve (MPa / Bar)	0.3 / 3
Maximum Outlet Temperature (°C)	75
Maximum Inlet Temperature (°C)	<70
Cooled Water Data	
Maximum Outlet Temperature (°C)	12
Maximum Inlet Temperature (°C)	20
Accumulator Data	
Accumulator tank volume (L)	175
Hot Water Data	
Hot water capacity (Li)	170
Buffer tank capacity (Li)	30
Heat Pump hot water stored temperature (°C)	65
Ventilation Data	
Recommended air flow (l/s)	50
Operational temperature range exhaust air (°C)	15-35
Electrical Data	
Electrical Systems (V/Phase/Hz)	230/1/50
Max power immersion heater (kW)	5
Recommended fuse (Amps)	16
Compressor number	1
Compressor control	DC Inverter
Enclosure Class (IP)	21
Sound Data	
Noise level at 1 meter dB(A)	<40
Connections	
Pipe connections heating and hot water (mm)	22
Ventilation duct (mm)	125
Weight & Dimensions	
Weight dry / operational (kg)	160 / 335
Dimensions (W x D x H)	747x 721 x 2119
Required minimum ceiling floor to ceiling height (mm)	2200
Misc	
Certification	CE
Colour	White