

ATHENA

All-in-one Hot Water Storage Air Source Heat Pump

The **Athena** all-in-one hot water storage heat pump integrates compressor, condenser, evaporator and hot water storage into one casing system, eliminating the need to have indoor and outdoor units, significantly reducing installation time and cost.

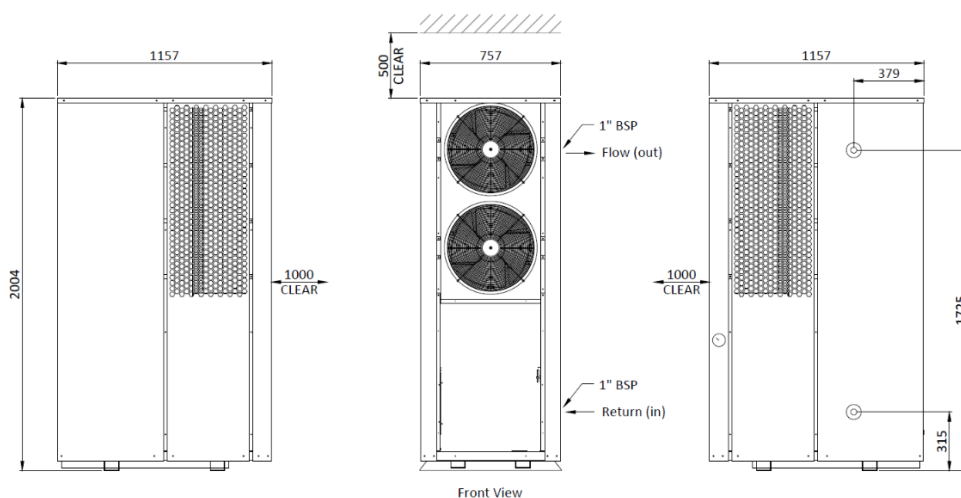
There are two models available; the 300 which features a 300 litre hot water tank capacity and the 500 with a 500 litre tank capacity.

Both units benefit from a COP of 4+ and have an outlet water temperature of 62°C without use of the immersion heater. Each model can be specified with a range of immersion heater options, to suit the customers power supply.



Key features:

- Heat Pump hot water stored at minimum 60°C
- COP up to 4.38 (Heat Pump mode only)
- Easy to access User Interface Panel.
- Mobile App Interface providing control and monitoring.
- Refrigerant R32 with GWP 675
- Ability to operate in Hybrid mode (heat pump plus immersion heater) to increase hot water production if required.
- Ability to heat stored water up to 82°C for a 1-hour period enabling pacification of the storage system.
- MODBUS open protocol interface port for direct BMS connection.
- Volt free contacts for Run and Fault status.
- Anti-freezing protection
- In-built multi fault protection
- Fault self-diagnosis



Technical specification:

Model	Athena 300	Athena 500
Model Number	KRS215-300V	KRS215-500V
Application	Hot Water	Hot Water
Hot water tank capacity (Li)	300	500
Maximum heat pump hot water stored temperature (°C)	62	62
Ambient operating temperatures (°C)	-7 - 43	-7 - 43
Rated heating capacity (kW)	7.5	10
Heat Pump only hot water production capacity (l/hr)	161	215
Rated input power (kW)	1.7	2.4
COP	4.38	4.17
Refrigerant		
Refrigerant type	R32	R32
Refrigerant GWP	675	675
Refrigerant Safety Classification	A2L	A2L
Toxicity Classification	A	A
Heating Data		
Operating pressure, safety valve (MPa)	0.8MPa	0.8MPa
Maximum Outlet Temperature (°C)	62	62
Maximum Inlet Temperature (°C)	<60	<60
Maximum temperature with immersion heater (°C)	82	82
Ventilation		
Air Volume Flow Rate l/s	60	60
Electrical Data		
Electrical Systems (V/Phase/Hz)	230/1/50	230/1/50
Max power immersion heater Optional sizes available (kW)	6, 9, 12	6, 9, 12
Heat Pump Only Maximum current (Amps)	30	30
Compressor number	1	1
Compressor control	DC Inverter	DC Inverter
Enclosure Class (IP)	IPX4	IPX4
Sound Data		
Noise level at 1 meter dB(A)	<54	<56
Pipe connections heating and hot water (inch)	3/4	3/4
Net weight (kg)	210	262
Dimensions (W x D x H)	1005 x 765 x 1955	1155 x 765 x 2005
Misc		
Mobile App Control	Yes	Yes
Certification	CE	CE
Colour	Grey	Grey