

ADV65W–ADV110W Air Source Heat Pumps

65–110 kW Monobloc ASHP for Commercial DHW



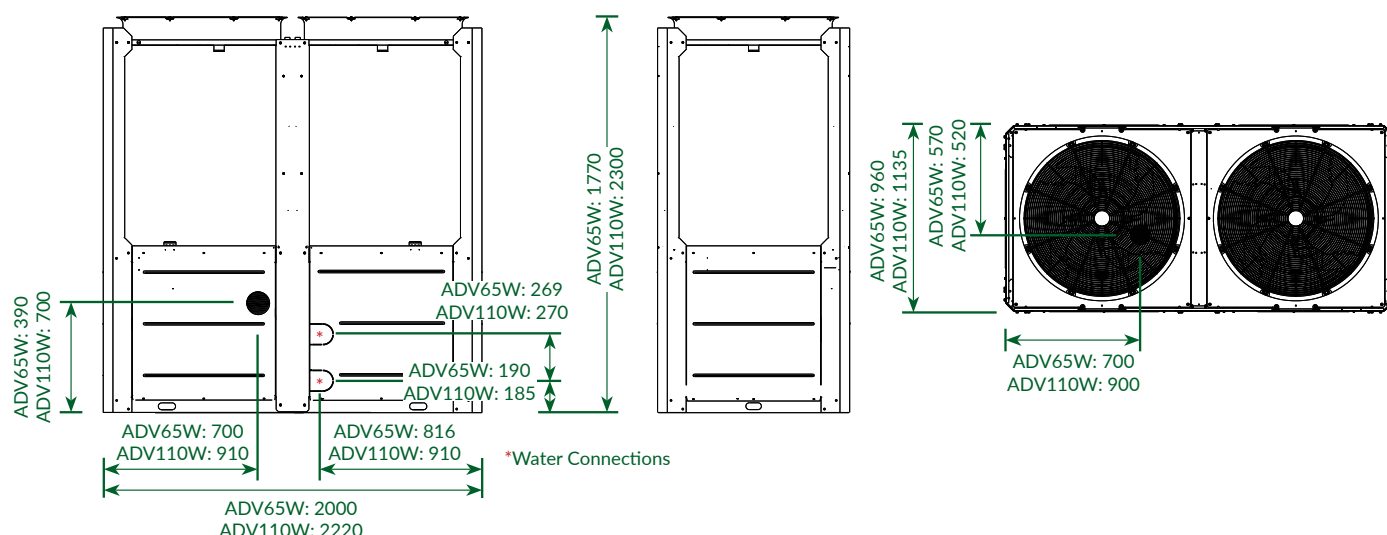
The ADV air to water heat pump range includes high capacity models ranging from 65 to 110 kW, bringing quality and efficiency to large scale commercial heating and hot water systems.

Designed to extract heat from the ambient air using an environmentally friendly R32 refrigerant circuit, the air source heat pumps provide low carbon heat to a building and its hot water system through an integrated plate heat exchanger and pump, all contained within a modern and simple to install external monobloc unit.

Effective with ambient air temperatures as low as -20°C , the ASHP is capable of providing hot water at up to 65°C throughout the year while significantly reducing building emissions. The heat pump is ideal for installation as part of a hybrid hot water system, ensuring the highest degree of efficiency without compromise to overall performance or reliability.

FEATURES

- Single external monobloc unit design
- Low GWP R32 refrigerant reduces environmental impact
- Low noise impact with multiple silent operation modes
- Maximum flow temperature of 65°C achievable down to -10°C ambient temperatures
- Ideal for domestic hot water, space heating, or cooling applications
- Designed for UK climate conditions, maintaining year-round high efficiency
- Includes low voltage enable and fault signals, MODBUS support, built-in external pump and cascade controls, and a remote digital control interface as standard
- Cascade control for up to 16 units from a single controller with Modbus support



Technical Specifications		ADV65W	ADV110W
Heating Performance Water outlet temperature: 35°C Ambient temperature: 7°C	Heating capacity (kW)	64.65	113.14
	Rated input (kW)	16.37	28.52
	COP	3.95	3.97
	SCOP	4.47	4.23
	Average climate conditions		
Heating Performance Water outlet temperature: 55°C Ambient temperature: 7°C	Heating capacity (kW)	64.15	106.32
	Rated input (kW)	21.68	35.85
	COP	2.96	2.97
	SCOP	3.36	3.23
	Average climate conditions		
Power Supply	V / Ph / Hz	380-415 / 3 / 50	
	Full Load Amps (A)	54	106
Dimensions	Appliance (mm)	2000 x 1770 x 960	2220 x 2300 x 1135
	Packaging (mm)	2085 x 1890 x 1030	2250 x 2445 x 1180
Refrigerant	Type	R32	
	Charged Volume (kg)	9.0	15.5
	Throttle Type	Electronic Expansion Valve	
Water Temperature Output Range	Heating (°C)	25 to 65	25 to 65
	Cooling (°C)	0 to 20	0 to 20
Ambient Air Temperature Range	Heating (°C)	-25 to 43	-25 to 43
	Cooling (°C)	-15 to 48	-15 to 48
Noise Data	Sound Power Level @ A7W45 (dB)	83	83
	Sound Pressure @1m A7W45 (dB(A))	64	64
	Sound Power Level @ A7W45 Silent Mode (dB)	77	75
	Sound Power Level @ A7W45 Super Silent Mode (dB)	74	72
Compressor	Type	DC Inverter	
	Rated Load Amps (A)	34.09	34.09
Fan	Type	2x DC Motor	
	Power (kW)	0.39	0.68
	Full Load Amps (A)	1.4	1.7
	Airflow Rate (m³/h)	22000	32500
Water Side Plate Heat Exchanger	Volume (l)	5.17	11.1
	Delivery Head (m)	23.0	18.0
	Rated Water Flow Rate (Heating) (m³/h)	11.2	18.9
	Water Flow Range (m³/h)	3-14	5-26
Pump	Power Supply (V / Ph / Hz)	380V ±10% / 3 / 50-60	
	Rated Power (kW)	1.78	0.93
	Rated Current (A)	3.25	1.83
	Rated Pump Head (m)	27.1	15.0
	Rated Speed (rpm)	3480	2825
Water Connections		DN50	DN65
Water Circuit Pressure Range		1.5 to 10 bar	1.5 to 10 bar
Appliance Mass	Empty/Filled (kg)	475/490	746/767