

ADVS10W-16W / ADV16W-ADV30W

10-30kW Monobloc Air Source Heat Pump Range



The ADV air to water heat pump range includes models from 10 to 30 kW, bringing quality and efficiency to commercial heating and hot water systems.

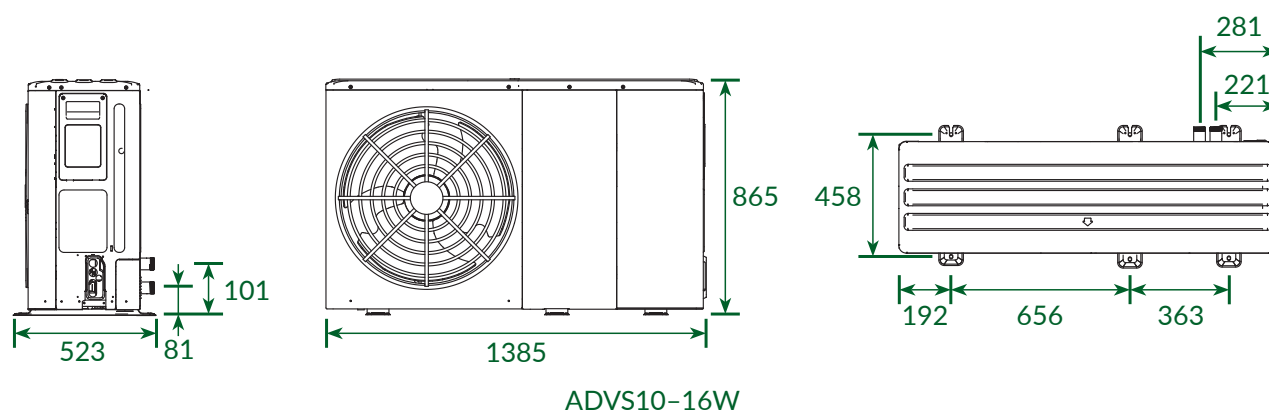
Designed to extract heat from the ambient air using an environmentally friendly R32 refrigerant circuit, the air source heat pumps provide low carbon heat to a building and its hot water system through an integrated plate heat exchanger and pump, all contained within a modern and simple to install external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

Effective with ambient air temperatures as low as -25°C , the ASHP is capable of providing hot water at up to 60°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

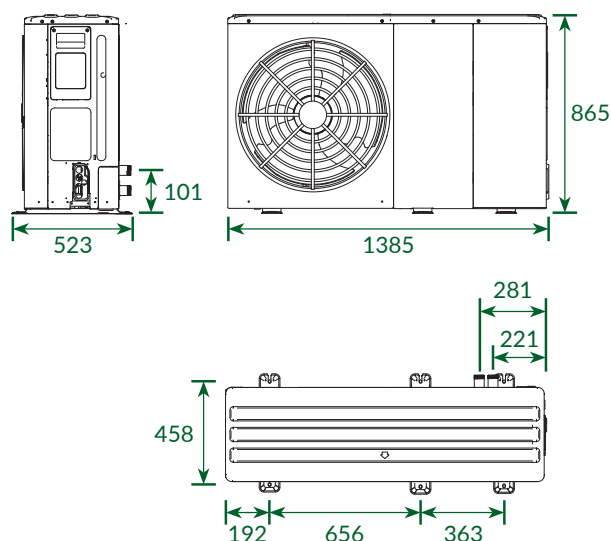
- Single phase (10-16kW) and three phase (16-30kW) models available to suit every building
- Sleek and compact monobloc design
- High seasonal efficiency A+ to A+++ ErP Energy Rating
- Low GWP R32 refrigerant reduces environmental impact
- Low noise impact
- Maximum flow temperature 60°C
- Designed for UK climate conditions, maintaining a high efficiency down to -7°C
- Includes low voltage enable and fault signals, MODBUS support, built-in external pump and cascade controls, and a remote digital control interface as standard
- Low loss headers and external pumps available
- Available with warranty up to 5 years with scheduled annual servicing

ADVS10-16W: 10-16kW Single Phase ASHP

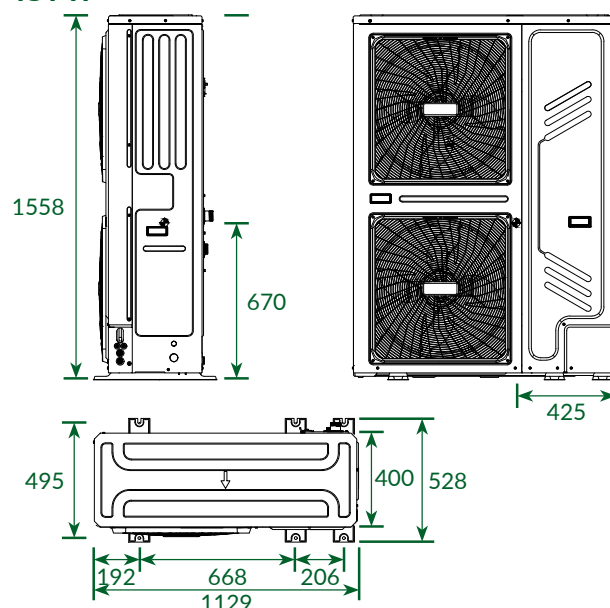


Technical Specifications		ADVS10W	ADVS12W	ADVS16W
Heating Performance Water outlet temperature: 35°C Ambient temperature: 7°C	Maximum heating capacity (kW)	10.00	12.10	15.90
	Rated input (kW)	2.02	2.44	3.53
	COP	4.95	4.95	4.50
Heating Performance Water outlet temperature: 55°C Ambient temperature: 7°C	Maximum heating capacity (kW)	9.50	13.8	16.00
	Rated input (kW)	3.06	4.68	5.61
	COP	3.10	2.95	2.85
Heating Performance Water outlet temperature: 55°C Ambient temperature: -7°C	Maximum heating capacity (kW)	6.95	10.59	12.48
	Rated input (kW)	3.53	5.25	6.15
	COP	1.97	2.02	2.03
SCOP Average climate conditions	Water outlet temperature: 35°C	5.20	4.81	4.62
	Water outlet temperature: 55°C	3.47	3.45	3.41
Seasonal Space Heating Energy Efficiency Class	Water outlet temperature: 35°C	A+++	A+++	A+++
	Water outlet temperature: 55°C	A++	A++	A++
Power Supply	V/Ph/Hz	220-240/1/50		
	Full Load Amps (A)	19	30	30
	Amps Protection (A)	25	35	35
Dimensions	Appliance (mm)	1385 x 865 x 523		
	Packaging (mm)	1465 x 1120 x 560		
Refrigerant	Type	R32	R32	R32
	Charged Volume (kg)	1.40	1.75	1.75
	Throttle Type	Electronic Expansion Valve		
Water Temperature Output Range	DHW (°C)	12 to 60		
	Heating (°C)	12 to 60		
	Cooling (°C)	5 to 25		
Ambient Air Temperature Range	DHW (°C)	-25 to 43		
	Heating (°C)	-25 to 35		
	Cooling (°C)	-5 to 43		
Noise Data	Sound Power Level (dB)	60	65	69
	Sound Pressure @1m (dB(A))	51	53	58
Compressor	Type	Twin Rotary DC Inverter		
	Rated Load Amps (A)	15.50	23.50	25.50
Fan	Type	Brushless DC Motor		
	Rated Motor Output (W)	170	170	170
	Full Load Amps (A)	1.5	1.5	1.5
Internal Water Pump	Max. head (m)	8.7	8.7	8.7
Rated Water Flow	m ³ /h	0.40-2.10	0.70-2.50	0.70-3.00
Water Connections	Inch	1¼" BSP	1¼" BSP	1¼" BSP
Water Circuit Pressure Range		1 to 3 bar	1 to 3 bar	1 to 3 bar
Appliance Mass	Empty/Filled (kg)	105/132	129/155	129/155

ADV16-30W: 16-30kW Three Phase ASHP



ADV16W



ADV22W - ADV30W

Technical Specifications		ADV16W	ADV22W	ADV30W
Heating Performance Water outlet temperature: 35°C Ambient temperature: 7°C	Maximum heating capacity (kW)	15.90	22.00	30.10
	Rated input (kW)	3.53	5.00	7.69
	COP	4.50	4.40	3.91
Heating Performance Water outlet temperature: 55°C Ambient temperature: 7°C	Maximum heating capacity (kW)	16.00	22.00	30.00
	Rated input (kW)	5.61	8.30	13.04
	COP	2.85	2.65	2.30
Heating Performance Water outlet temperature: 55°C Ambient temperature: -7°C	Maximum heating capacity (kW)	12.48	18.00	21.00
	Rated input (kW)	6.15	11.61	14.00
	COP	2.03	1.55	1.50
SCOP Average climate conditions	Water outlet temperature: 35°C	4.62	4.53	4.19
	Water outlet temperature: 55°C	3.41	3.22	3.14
Seasonal Space Heating Energy Efficiency Class	Water outlet temperature: 35°C	A+++	A+++	A++
	Water outlet temperature: 55°C	A++	A++	A+
Power Supply	V/Ph/Hz	380-415/3/50		
	Full Load Amps (A)	14	28	28
	Amps Protection (A)	16	32	32
Dimensions	Appliance (mm)	1385 x 865 x 523	1129 x 1558 x 528	
	Packaging (mm)	1465 x 1035 x 560	1220 x 1735 x 565	
Refrigerant	Type	R32	R32	R32
	Charged Volume (kg)	1.75	5.00	5.00
	Throttle Type	Electronic Expansion Valve		
Water Temperature Output Range	DHW (°C)	12 to 60	30 to 60	
	Heating (°C)	12 to 60	25 to 60	
	Cooling (°C)	5 to 25	0 to 25	
Ambient Air Temperature Range	DHW (°C)	-25 to 43	-25 to 43	
	Heating (°C)	-25 to 35	-25 to 35	
	Cooling (°C)	-5 to 43	-10 to 46	
Noise Data	Sound Power Level (dB)	69	73	77
	Sound Pressure @1m (dB(A))	58	59	63
Compressor	Type	Twin Rotary DC Inverter		
	Rated Load Amps (A)	11.15	14.00	21.00
Fan	Type	Brushless DC Motor		
	Rated Motor Output (W)	170	340	340
	Full Load Amps (A)	1.5	3	3
Internal Water Pump	Max. head (m)	9.0	12.0	12.0
Rated Water Flow	m ³ /h	4.00	3.78	5.18
Water Connections	Inch	1½" BSP	1½" BSP	1½" BSP
Water Circuit Pressure Range		1 to 3 bar	1 to 3 bar	1 to 3 bar
Appliance Mass	Empty/Filled (kg)	144/172	177/206	177/206