

# ES V8 Air/Water Heat Pumps

## AWC-R32-M-V6 – 6, 9, 12, 15 & 19 kW Monobloc Series

### Economic and effective air-to-water heat pumps, designed for a Nordic climate

- User-friendly touch display
- Internet connectivity, monitor your heating through your mobile
- Two different temperature zone setting
- Automatic restart in case of power failure
- 6, 9, 12, 15 and 19 kW heating capacity
- Operates in conditions down to  $-30^{\circ}\text{C}$
- Low investment – short payback time
- Low noise outdoor unit
- New eco-friendly refrigerant R32 enables A+++
- Anti-freeze protection device
- KEYMARK certified



#### User-friendly touch screen interface

The interface enables quick adjustment of all temperature settings directly from the front page. The software also supports variable temperature settings (curve) for both heating and cooling.



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### Converts energy from the outdoor air to heat and domestic hot water

By utilising the energy from outdoor air, you can reduce your energy bills in an eco-friendly way, and at the same time creating the perfect level of comfort for your home. AWC-R32-M is designed to replace or supplement an existing heat source or for new installations.

The indoor unit has a stylish design to fit into a modern home. All connections are easily accessible at the top of the unit.

### Designed to provide maximum energy savings and quiet operation

By using components from leading suppliers (see table) and smart control, great energy savings and quiet operation are made possible. All AW-R32-M series are rated A+++.

### Simple and cost-effective installation

In a monobloc system the outdoor unit has a

closed refrigerant circuit and a heat exchanger. The outdoor unit can be connected directly to the heating system, which means that no refrigeration technicians are needed during installation. The automatic and self-learning defrost function, combined with the nano-coated evaporator, reduces defrosting time to a minimum and increases the efficiency.

### Control your heating system

AWC-R32-M can be controlled locally or remotely thru smartphone or computer. Make all the necessary settings for an efficient, trouble-free operation with the new user-friendly touch display. Even when you are not at home you have full control of your heating system thru your smartphone or computer.

### Two heating curves

AWC-R32-M uses a heat curve to provide a constant indoor temperature, regardless of the

outdoor temperature. When the outdoor temperature drops, the heat pump raises the temperature of the water to the heating system and vice versa when the outdoor temperature rises. Different heating systems require different temperatures, e.g. floor heating and radiators. AWC-R32-M have the possibility to set two heating curves if you have two different heating systems in your home. With two heating curves the possibilities to save even more energy is possible and, in some cases, costs on components that would otherwise have to be installed in the system.

### Upgrade your system with AWC-R32-M

All, correct dimensioned, heat pump systems need back-up during the coldest days. AWC-R32-M is designed to operate in hybrid systems, together with all kinds of heating systems. If your existing boiler works – keep it as back-up.

		AWC6-R32-M-V6	AWC9-R32-M-V6	AWC12-R32-M-V6	AWC15-R32-M-V6	AWC19-R32-M-V6	
Min/max heating capacity (1)	kW	3.50 / 6.50	4.30 / 9.20	5.50 / 11.60	6.00 / 15.30	9.20 / 18.50	
El. power input in heating min/max (1)	W	758 / 1410	927 / 2097	1107 / 2683	1223 / 3209	1834 / 4142	
COP min/max (1)	W/W	4.50 / 4.70	4.38 / 4.71	4.30 / 4.90	4.78 / 5.06	4.47 / 5.01	
Min/max heating capacity (2)	kW	3.15 / 6.00	3.90 / 8.60	4.90 / 11.20	5.60 / 14.30	8.5 / 18.2	
El. power input in heating min/max (2)	W	943 / 1732	1162 / 2550	1401 / 3263	1551 / 3914	2248 / 4998	
COP min/max (2)	W/W	3.34 / 3.56	3.37 / 3.58	3.30 / 3.50	3.60 / 3.82	3.60 / 3.82	
SCOP – Average climate, low temperature	W/W	4.74	4.73	4.71	4.98	4.85	
Min/max cooling capacity (3)	kW	3.50 / 4.50	4.90 / 7.20	4.90 / 9.50	4.50 / 13.00	5.50 / 16.00	
El. power input in cooling min/max (3)	W	1330 / 1680	1451 / 2366	1358 / 2444	2590 / 4390	2970 / 5510	
E.E.R. min/max (3)	W/W	2.50 / 2.74	2.80 / 3.10	2.60 / 3.50	2.96 / 3.26	2.85 / 3.20	
Energy class		A+++	A+++	A+++	A+++	A+++	
Defrost upon demand		Yes	Yes	Yes	Yes	Yes	
Heating cable for defrosting/Anti-freeze protection		Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	Yes / Yes	
Compressor pre-heat		Yes	Yes	Yes	Yes	Yes	
Electronic expansion valve		Yes	Yes	Yes	Yes	Yes	
ErP Circulating pump / flow switch		Yes / Yes (outdoor)	Yes / Yes (outdoor)	Yes / Yes (outdoor)	Yes / Yes (outdoor)	Yes / Yes (outdoor)	
Compressor		Mitsubishi					
Fan	Manufacturer	Yibisi	Shunwei				
	Quantity	pcs	1	1	1	2	2
	Airflow	m³/h	2500	3150	3150	6200	7000
	Rated power	W	34	45	45	90	120
Sound pressure level*	Outdoor 0m / 5m	dB (A)	52 / 30	53 / 31	52 / 30	58 / 36	61 / 39
Plate heat exchanger	Manufacturer		SWEP				
	Water press. drop	kPa	26	26	26	26	26
	Piping connection	Inch	G1"	G1"	G1"	5/4"	5/4"
Allowable water flow	Min / Nominal	l/s	0.21 / 0.28	G1"	G1"	5/4"	5/4"
Residual current device and overvoltage protection		Required					
Power supply, grounded	V / Hz / A	230V / 50Hz / 10A	230V / 50Hz / 16A	230V / 50Hz / 16A	400V / 3N / 50Hz / 3p16A	400V / 3N / 50Hz / 3p16A	
Refrigerant	R32	kg	0.90	R32 / 1.40	R32 / 1.80	R32 / 2.55	R32 / 2.60
Dimensions (W x H x D)	Outdoor unit	mm	1010 x 735 x 370	1165 x 885 x 370	1165 x 885 x 370	1085 x 1450 x 390	1085 x 1450 x 390
	Indoor unit	mm	450 x 380 x 135				
Net weight	Outdoor unit	kg	67	80	85	120	140
	Indoor unit	kg	10				
Article number indoor/outdoor		120295 / 120290	120315 / 120318	120315 / 120319	120315 / 120320	120315 / 120321	

(1) Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C /WB 6°C. (2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°C /WB 6°C. (3) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB 35°C /WB 34°C.

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