

*ES air-to-water heat pumps have been designed using the newest technology!*



**5-year**  
warranty for the  
compressor

## AWH 9 kW – V5 & AWH 11 kW – V5

Economic and effective air-to-water heat pump for the Nordic climate!



- Automatic start in case of a power failure
- Heat pump operates in conditions of up to  $-25^{\circ}\text{C}$
- Adjustable speed compressor from Panasonic
- Reasonable price and short payback period
- Nano-coated evaporator
- Built-in 3 kW heater and external heat source control
- Dockable solution



## V5 air-to-water heat pumps. Economic, comfortable and environment-friendly.

The V5 series includes the advanced models of previous popular models, now available in two versions with different power output: AWH 9kW-V5 and AWH 11kW-V5

**Save on your heating costs by adding the heat pump to your existing heating system. Do not throw away your old boiler—save it as a peak demand backup reserve of a modernised system.**

AWH has been designed for connecting to the existing heating devices; if necessary, the heater will support the heat pump. The design of the indoor unit is stylish and compact, which makes it easy to install to limited space.

The indoor unit is equipped with a circulation pump, heat exchanger, heat pump control system and ventilation. The heat pump features a 3 kW electric heating element to provide extra power during periods when the heat pump requires backup.

### For Nordic climate

The *split-system* with complete winter equipment means that the heat exchange process with the building's heating system takes place indoors and only

the refrigerant circulates outdoors.

This is an effective and reliable solution in our Nordic climate.

Thanks to the inverter control, the heat pump automatically switches to optimal power to satisfy your heating demand, given the outdoor temperature.

### Top quality defrost-nano-coated outdoor unit

Large volume of air circulates the outdoor unit, which is used in collecting energy; therefore ice forms on the outdoor unit's heat exchanger. The ES defrost programme has been designed to melt the ice only when necessary and only for the necessary period of time.

The surface of the outdoor unit's heat exchanger has been coated with nanoparticles to prevent ice formation and increase effectiveness.

### The heat pump consists of three parts:

- Outdoor unit, which houses the high-quality compressor from Panasonic.
- Indoor unit, which houses the heat

exchanger, 3 the kW electric heating element, heat pump control device and circulation pump.

- Refrigerant tubes, which connect the indoor and outdoor unit.

Under normal circumstances the heat pump capacity should be enough to provide half of the necessary heat on the coldest days

- **The dockable solution** means that the heat pump can be connected to the other heating device, which is capable of fulfilling the heat demand alone.
- **If the heat pump is capable of fulfilling half of the heat demand on the coldest days**, then it is usually capable of fulfilling 80–90% of the heat demand on every day of the year.

**If the capacity is correct, the ES air-to-water heat pump system will considerably reduce the fuel consumption of the previous heating device (oil, electricity, wood, gas or pellets).**

	AWH 9kW - V5	AWH 11 kW - V5
Maximum heating power	9.800 W	11.500 W
Maximum cooling power	5.050 W	6.740 W
Coefficient of performance (COP)	4.21	5.1
Energy class	A	A
Total power consumption – cooling	1303 - 3201 W	924 - 3132 W
Total power consumption – heating	1170 - 2708 W	915 - 3028 W
Operating temperature range	-25° C ... +45° C	-25° C ... +45° C
Defrost upon demand	Yes	Yes
Heating cable for defrosting	Yes	Yes
Compressor pre-heat	Yes	Yes
Electronic expansion valve	Yes	Yes
A-class circulation pump	No	Yes - Halm
Indoor unit heat exchanger	Tube-in-shell	Plate - GEA
Heating system connection	G1"	G1"
Built-in electric heater, 3 kW	Yes	Yes
Compressor	Panasonic Twin Rotary Inverter	Panasonic Twin Rotary Inverter
Indoor/outdoor unit noise level	29 dB(A) / 54 dB(A)	29 dB(A) / 55 dB(A)
Indoor/outdoor unit weight	26 kg / 62,5 kg	28 kg / 70 kg
Refrigerant – pipe diameter	R410A - 3/8 - 1/2	R410A - 3/8 - 1/2
Indoor unit dimensions, L x W x H	414 x 220 x 520 mm	414 x 220 x 720 mm
Outdoor unit dimensions, L x W x H	934 x 354 x 753 mm	1044 x 414 x 763 mm
Supply voltage, grounded	230 V, 50 Hz, 16A x 2	230 V 50 Hz, 16A x 2
Residual current device and overvoltage protection	Required	Required
Indoor unit RSK code (quick fitting)*	6247699	6247700
Outdoor unit RSK code (quick fitting)*	6247698	6247701
Indoor unit RSK code (flare fitting)	6247703	6247705
Outdoor unit RSK code (flare fitting)	6247702	6247704

\*) Models with quick fittings require an installation kit which is available in lengths of 3, 4 and 7 metres (RSK codes: 6730392, 6730393, 6730394)

The company is not responsible for any typographical errors.

