



NEW!

- Integrated air/waterheat pump
- Energy efficiency class A++
- 20-65°C temperature
- Most saved energy per invested Euro



AWT9-V5+, AWT11-V5+ and AWT13-V5+

Economical and effective air/water heat pump, developed for Nordic climate with water temperature up to 65 degrees.



- Simple installation
- 9, 11 or 13 kW heat pump output
- 1,5 + 3 + 3 kW electrical back-up
- Automatically back-up
- Heat pump function down to -25°C
- Reasonable investment + high efficiency = short return on investment
- Nano-coated evaporator
- Integrated solution with tank for heating/cooling and domestic hot water

Developed in Sweden
Designed for the world

If the heat pump covers 50% of the heating demand the coldest days in cold climate zone, it normally covers 80-90% of the energy consumption during a year.



ES-air/water heat pumps – flexible, economical, comfortable and good for the environment

Maximum flexibility

The AWT-V5+ series is made for replacing an existing heat source, installed in a new house or for converting an direct-electric heated house to comfortable waterborne heating, together with ES slim fan coils.

It's a total system for heating you house and for production of domestic hot water. The design of the indoor unit will blend in perfectly in most modern homes and it uses only 60x65 cm of floor space. All connections to the heating system is located on the top.

2 parts – a complete solution

The indoor unit contains of a 250 liter water tank, control system, heat exchanger, circulation pump, and electric heaters – an entire heat solution.

The outdoor unit houses a heat exchanger, compressor and a fan. The indoor and outdoor unit is connected with refrigerant piping.

For Nordic climate

The split-system means that only the refrigerant circulates outdoors, which is an effective and reliable solution in the

Nordic climate. This reduces the risk for frost damage.

Inverter controlled- Energy Efficiency Class A++

Thanks to the inverter control, the heat pump automatically switches to optimal power to satisfy your heating demand, given the outdoor temperature. This will result in superior efficiency compared to traditional controllers.

Complete heat control

The V5+ series has a build-in control system with variable water temperature based on the outdoor temperature. The colder the outdoor temperature is, the higher the temperature is in the heating system. This function increases the efficiency, since the heat pump doesn't produce warmer water than needed in order to keep the indoor temperature.

250 liter hot water

The integrated tank holds 250 liters of hot water and is heated by the heat pump. When the temperature in the tank drops the heat pump switches over to hot water production.

A complete and easy installed system

The indoor unit is developed to blend in to a modern home and occupies very little floor space. With all connectors on the top the installation becomes easy and takes up less space. Underneath the stylish exterior is a complete heat system, where "everything" is included. There is no reason to add additional expensive products to the system. The system has only 6 connectors:

- Cold water in
- Hot water out
- Heat system in
- Heat system out
- Refrigerant piping in and refrigerant piping out

It doesn't get easier!

Floor heating or radiators 20-65°

The heat pump handles both low-temperate and high-temperate heating system. There is no need for customization of the system. You just need to choose maximum water temperature the system should have, the rest is controlled by the room thermostat and the outdoor sensor.

Technical data	AWT 9 – V5+	AWT 11 – V5+	AWT 13 – V5+
System power needs*	(3 x 230V/50Hz 16A/1-fas + 1 x 230V/50Hz 10A/1-fas) or (230V/50Hz 25A/3-fas + 1 x 230V/50Hz 10A/1-fas) or (400V/50Hz 16A/3-fas + 1 x 230V/50Hz 10A/1-fas)		
Refrigerant	R410A	R410A	R410A
Maximum heating output	16,5 kW	18,5 kW	20,5 kW
Power consumption heat pump	900-2800 W	915-3030 W	930-3230 W
Energy Efficiency Class	A++	A++	A++
Working range - heating	-25 °C / +43 °C	-25 °C / +43 °C	-25 °C / +43 °C
Self-learning defrosting	Yes	Yes	Yes
Heating cable - bottom	Yes	Yes	Yes
Pre-heating of compressor	Yes	Yes	Yes
Electronic Expansion Valve	Yes	Yes	Yes
Classe A circulation pump	Yes, Grundfos	Yes, Grundfos	Yes, Grundfos
Electric heater hot water	1500 W	1500 W	1500 W
Electric heater heating	2 x 3000 W	2 x 3000 W	2 x 3000 W
Heat exchanger indoor unit	GEA Plate heat exchanger	GEA Plate heat exchanger	SWEP Plate heat exchanger
Tank volume and material	250 liter stainless steel	250 liter stainless steel	250 liter stainless steel
Domestic Hot Water Production	20+20 m, Ø28 mm coil, stainless steel	20+20 m, Ø28 mm coil, stainless steel	20+20 m, Ø28 mm coil, stainless steel
Compressor	Twin Rotary	Twin Rotary	Twin Rotary
Noise level indoor/outdoor	35/56 dB (A)	35/56 dB (A)	35/59 dB(A)
Net dimensions (HxLxD) mm indoor	1719x600x650	1719x600x650	1719x600x650
Net dimensions (HxLxD) mm outdoor	763x1043x415	763x1043x415	1195x1124x407
Net weight	140 / 62,5 Kg	140 / 65 Kg	138 / 113 Kg

* The heat pump must be connected to a overheating protector and an RCD. The power consumption is valid of all of the unit's consumers are connected. Technical data can be changed without prior notice and we refer to the labeling of the product.

