



## AIR9

The AIR9 air to water heat pump (outside unit) is very quiet and it can therefore be positioned in different places without disturbing the surroundings. During the summer and sometimes also during spring and autumn, the dwelling will require limited heating. Since domestic hot water is produced via the air in the ventilation system, AIR9+ will hardly be operating. In addition, it has been factory set to be limited to 60% when the outdoor temperature is above 7°C. During periods of warm weather when you spend time in the garden and sleep with the windows open, the sound level is reduced due to limited to operation.

The front of the outdoor unit consists of two plates. Both front plates are fitted with fittings, which provide easy access for servicing and maintenance.

Compact P2 AIR is a compact solution that requires limited space. It consists of an integral indoor unit in Compact P2, and an outdoor unit that is easily connected up. Compact P2 AIR has been fitted with a reversible heat pump that is also able to cool. In addition, the unit can produce hot water in Compact P2 via a solar coil. Also see separate data sheet for Compact P2.

Control system: CTS602 with an integral HMI-panel in Compact P2.

## MADE IN DENMARK

Dimensions (W x D x H)	938 x 673 x 1318 mm
Weight	165 kg
Sound power level	44,7 - 63 dB *
Rated heat output	3,00 - 5,68 kW *
Rated air flow rate	3000 m <sup>3</sup> /h
Annual energy consumption	1464 kWh

\* Depending on a potential limit to the performance of the compressor. You can limit the heat pump to a certain level of performance to achieve less noise at maximum operation.

Should the heat requirement in the dwelling fall below the maximum performance, for example if you only need 4 kW to heat the dwelling, you can limit operation in the software to, for instance, 65%.

This produces a lower sound level at maximum operation, and simultaneously you will achieve better operation of the heat pump with fewer starts/stops. This will minimise wear and tear on the heat pump and prolong its life.



Sound power reverance		
Operation of heat pump	Output kW	Sound db(a)
100%	5,68	63,0
95%	5,47	61,7
90%	5,25	60,4
85%	5,04	59,1
80%	4,82	57,8
75%	4,61	56,5
70%	4,40	55,2
65%	4,18	53,8
60%	3,97	52,5
55%	3,75	51,2
50%	3,54	49,9
45%	3,41	48,6
40%	3,27	47,3
35%	3,14	46,0
30%	3,00	44,7

Operation of heat pump measured at: Temperature : -7°C Supply flow : 35 °C



## Sound power level AIR9



Energy efficiency class space heating	A+++
Seasonal space heating energy efficiency	206%
Dimensions (inside part) (W x D x H) - Integrated in Compact P2	550 x 300 x 1100 mm
Weight (inside part)	55 kg
Supply voltage (inside part)	3 x 400 (3 x 230V), N, PE, 16A, 50 Hz
PMAX (inside part)	6,1 kW
Fuse size (inside part)	16A
Standby electricity consumption	2,5 W
Supplementary electrical heating	2x3kW
Buffer tank (integrated)	50 L
Design pressure (central heating)	4 bar
Opening pressure safety valve (central heating)	2,5 bar
Expansion vessel (central heating)	8 liters
Booster expansion vessels	0,5 bar G
Max. air volume	3.400 m³/h
Variable compressor	30 - 100 %
Tightness class fan	IP54
Supply voltage (outside part)	230V1N+PE, 50Hz
PMAX (outside part)	3300 W
Fuse size (outside part)	16 A
Rated output, (max/min) A-Pump	31/99 W
Rated output, (max/min) A-Pump	0,2/0,63 A
Condenser pressure loss (central heating)	15 kPa/0.42 l/s
Central heating connection	3/4"
Refrigerant	R410A
Refrigerant filling	3,15 kg
Pressostat low pressure (on/off)	2,2/3,4 bar G
Pressostat high pressure (on/off)	42/33 bar G
Operating temperatures	-22 °C → 50 °C
Central heating, flow temperature	25°C → 45°C
Connection dimension	1"
Heat output PH with variable compressor at 7°C/35°C, according to EN 14511:2012 (max. 5400 RPM)	8,4 kW
Heat output PH with variable compressor at 2°C/35°C, according to EN 14511:2012 (max. 5400 RPM)	6,7 kW
Heat output PH with variable compressor at -7°C/35°C, according to EN 14511:2012 (max. 5400 RPM)	5,7 kW
Heat output PH with variable compressor at -15°C/35°C, according to EN 14511:2012 (max. 5400 RPM)	4,5 kW
Heat output PH with variable compressor at 7°C/45°C, according to EN 14511:2012 (max. 5400 RPM)	7,8 kW
Heat output PH with variable compressor at -7°C/45°C, according to EN 14511:2012 (max. 5400 RPM)	5,4 kW
SCOP testet according to EN 14825:2012*	5,11
Pdesign (tout -10°C)	5,21 kW

\*SCOP (Seasonal COP) is for "low temperature use, average climate, defined flow, reversible"

## Accessories

Nilan A/S www.en.nilan.dk • nilan@nilan.dk

• SHW tank

At www.en.nilan.dk you can find more information e.g. design data, dimensional drawings, installation instructions and ecodesign data. 2022.10