

# Efficiency at its best

High End Heat Pump | Basic Line Ai1 Air



## Basic Line Ai1 Air | Performance scope of 6 – 12 kW



### **Perfectly matched modules**

The air/water heat pump has a split design with an internal and external unit. Both modules are technically perfectly matched to one another. This is how the excellent performance is achieved.

### **Functions of an air conditioning unit included**

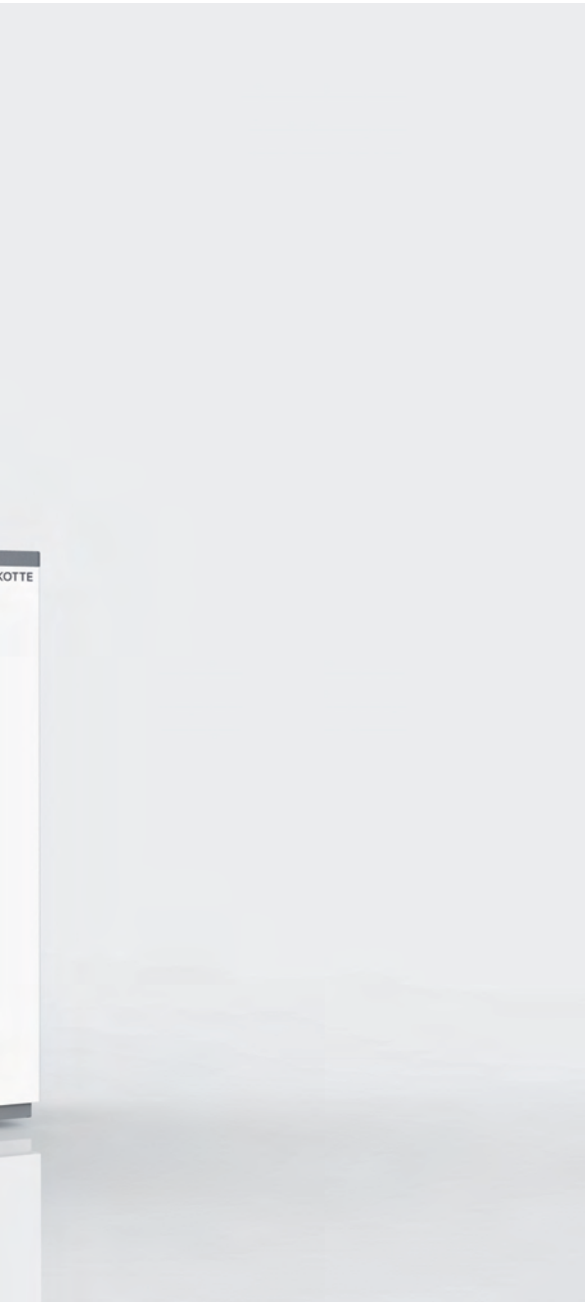
The internal unit impresses with its modern control system. In addition to the heating function and hot water supply, it also has a cooling module. So you get air conditioning for hot summer days delivered at the same time.

### **So quiet - you can hardly hear it**

The external unit consists of a weatherproof housing which is specially insulated. In this way sound emissions can be considerably reduced. The fan is so quiet that you can hardly hear it.

### **Robust and durable**

Also built for tough, continuous operation at  $-15\text{ }^{\circ}\text{C}$ , the external unit achieves the highest efficiency values. Sophisticated technology and high-quality components assure decades of trouble-free operation.



## Features interior unit

- Basic hot air pump
- Analogous to the Basic Line Ai1 Geo

## Features outdoor unit

- Basic outdoor unit
- Chlorine-free R410A refrigerant with no ozone depletion
- Optimised design for transport and assembly
- Special insulation for noise reduction
- Service-friendly design
- Weather-resistant housing
- Variable speed fans
- Speed-controlled inverter rotating piston compressor
- Electronically controlled expansion valves
- Defrosting: reverse cycle with 4-way valve
- Special pipe routing in the evaporator to avoid glaciation
- Active cooling through reversible refrigeration circuit
- Liquid separator in the refrigerant circuit for maximum reliability
- Rear mounting of the terminals
- Dimensions: (W x H x D) 1200 x 1250 x 400 mm
- Reduced footprint 0.5 m<sup>2</sup>

## Optional accessories

- Connection set
- Inrush current damping (400 V)
- Controller extension for a mixer circuit
- Web Interface NetBase BN Web
- Smartphone control using BasicPro Mobile

## Highlights

- Low operating costs with COP values up to 4.8
- Optimised storage space 600 x 650 mm
- High-quality operating unit
- Graphic display of all operating conditions, including the eternal unit

Technical data BS 7010		7010.5
Heating capacity (A-7/W35)	kW	7.1
Power consumption	kW	2.8
Coefficient of performance (COP) at A-7/W35		2.6
Heating capacity, regulated up to (A2/W35)	kW	10.8
Power consumption	kW	2.8
Coefficient of performance (COP) at A2/W35 and 6.9 kW regulated		3.6
Heating capacity, regulated up to (A7/W35)	kW	12.3
Heating capacity	kW	2.9
Coefficient of performance (COP) at A7/W35 and 7.9 kW regulated		4.4
Cooling performance, regulated up to (A35/W7)	kW	7.8
Power consumption	kW	3.0
Coefficient of performance (COP) at A35/W7		2.5
Heating water flow ( $\Delta t=5K$ ) at 8.0 kW	m <sup>3</sup> /h	1.4
Air flow rate (maximum)	m <sup>3</sup> /h	7000
Operating limit		A-15/W45; A-7/W50; A0/W55
Compressor		Twin-Rotary Inverter
Refrigerant		R410A
Sound pressure level (external unit), 5 m free field	dB(A)	43

**Electrical data**

Electric power supply (single-phase)	(V, Phase, Hz)	220-240, 1, 50
Maximum operating current	A	16.5
Main fuse (provided by the customer)	A	20
Control fuse (provided by the customer)	A	10
Electrical heating element	kW	6

**Dimensions, weights, connections**

Refrigerant		R410A
Refrigerant filling	kg	3.5
Weight of external unit	kg	140
Weight of internal unit	kg	--
Heating connections		R1¼" a
External unit dimensions W x H x D	mm	1050 x 1200 x 400
Internal unit dimensions W x H x D	mm	600 x 1850 x 650

Technical specifications - provisional and without guarantee.

<sup>1)</sup>The tolerances according to EN 12900 apply to the performance data listed above.



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