Air/water Heat Pump NIBE™ AP-AW10
Situated indoor module air/water heatpump

NEW

Features of NIBE™ AP-AW10

Air/water heat pump up to 12 kW (in single unit)

Low sound pressure level down to 47 dB(A)

Single condenser unit

Insertion via standard doors possible

Safety temperature limiter is built into the electric heating element (depending on model).

Frame is completely noise decoupled to the unit

High temperature versions available, up to 60°C

Low heating and running costs

Solid Construction

Easy to transport

NIBE AP-AW10

The supply of heat for residential properties accounts for a large percentage of their overall energy consumption. Improving energy efficiency is therefore one of the energy policy objectives. Increased energy efficiency and renewable heat mean more environmental relief and from an economic point of view, lower heating and running costs.

Heat pump can be easily integrated into a building management system. A change from oil and gas to heat pump technology can often be used to achieve substantial savings - e.g. running costs and CO_2 emissions.

Heat pumps with high capacities!

Heat pumps

Use of modern, energy-efficient heat pump systems is becoming increasingly widespread. Their ingenious technology enables these systems to achieve very good efficiencies. The decreasing space available for heat generators has led to the development of compact units with increasingly smaller cross-sections and high capacities.

In apartment buildings, office and administration complexes, hotels and in industrial and commercial buildings, heat pumps are superior to coventional concepts, not only economically but also enviromental.

Easy controlling

The control element of the heat and heat pump regulator can be a connection with a computer or network using an network cable designed for such pruposes, thus allowing the heating and heat pump regulator to be controlled remotely.

Compact unit with

- completely hermetically enclosed compressor, all safety-related components for monitoring of the cooling circuit
- electric switch cabinet with power contactor and soft starter
- sensors mounted in the unit for monitoring hot gas-, heating water forward flow and return flow temperatures
- hose for condensate discharge (connected to heat pump side)
- drainage hose for safety valve (connected to heat pump side)
- Outdoor sensor
- Changeover valve domestic hot water
- with variant models that have heat quanity recording: with energy efficient circulating pumps, heat quantity recording and Comfort board.

First hand energy management!

BACnet/IP - perfect teamwork

The BACnet/IP virtual network enables NIBE heat pumps to be integrated into a building management system.

NIBE AP-CS 2.0

Controller device with LIN-Bus port.

Local Interconnect Network (LIN) is the specification for a serial communication system which was basically developed for communication of intelligent sensors and actors in the automobile industry.

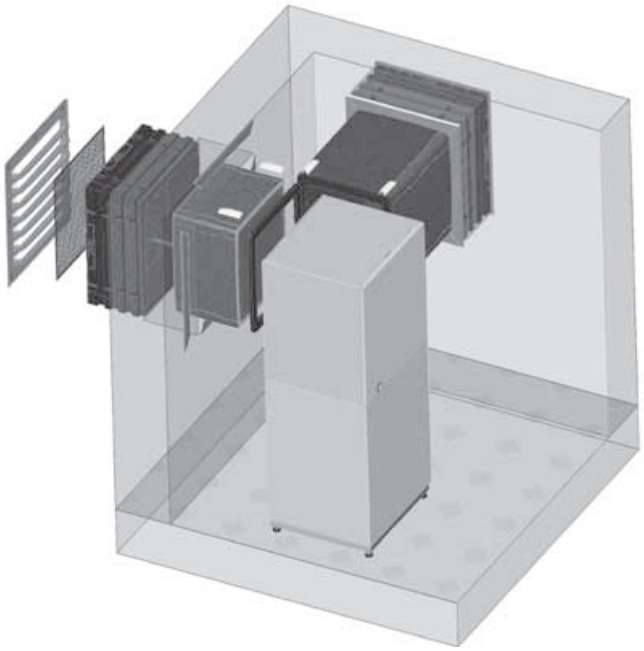
- Intuitive operation via the jog dial
- Full graphic display with self-explanatory menu function
- USB connection (for reading out data or of software updates)
- Automatic screed heating program
- Start-Up Wizard
- Separate mode setting
- Weather compensated control of several heating circuits e.g automatic, party, holiday

Accessory

The air duct system 700 is a complete kit solution for routing the air flow from the heat pump to the outside of the house

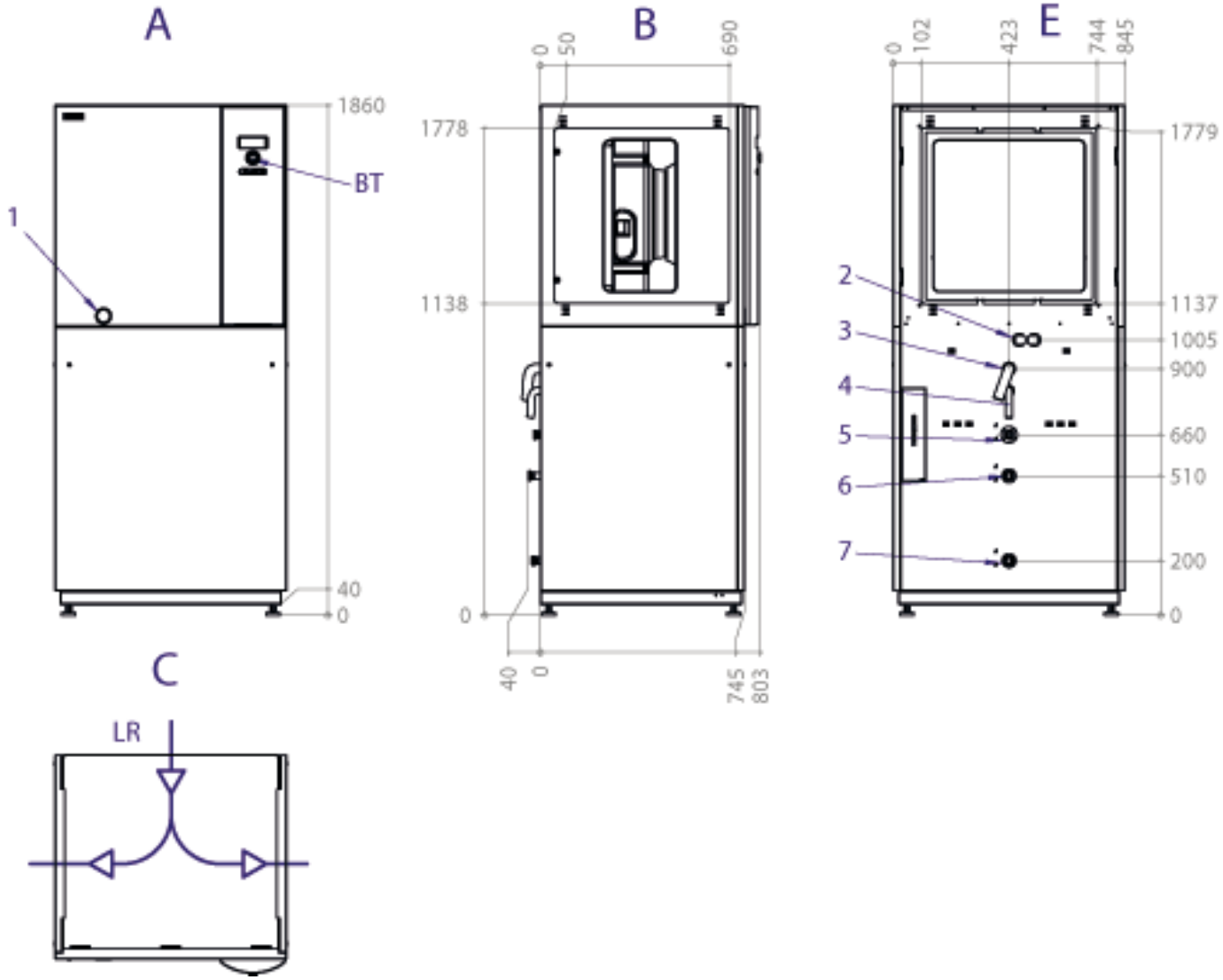
Product advantages:

- complete, optimised system (including wall duct)
- highly sound-absorbant
- light and, therefore, easy to transport
- easily interlocking and, therefore, easy to assemble
- high-quality design



Dimensions

NIBE AP-AW10-6C to NIBE AP-AW10-12C



A	Front view
B	Side view from left
C	Top view
E	Rear view

BT Control element
LR Air direction (left or right can be selected on site)
1 Manometer heating circuit
2 Ducts for electric/sensor cables
3 Condensate hose Ø i 30
4 Hose for safety valve Ø i 19 heating water
5 Hot water outflow (forward flow) DIN ISO 228
6 Heating water outflow (forward flow) DIN ISO 228
7 Heating and hot water inflow (return flow) DIN ISO 228

Technical specifications
NIBE™ AP-AW10

NIBE™			AP-AW10-6C	AP-AW10-8C	AP-AW10-10C	AP-AW10-12C
Heating power/COP at A7/W35 [1]	1 condensers	kW	7,0 / 4,2	8,6 / 4,2	12,2 / 4,1	13,7 / 4,2
Heating power/COP at A7/W45 [1]	1 condensers	kW	6,8 / 3,5	8,5 / 3,5	11,8 / 3,3	13,5 / 3,3
Heating power/COP at A2/W35 [2]	1 condensers	kW	6,2 / 3,5	8,0 / 3,5	10,4 / 3,4	11,9 / 3,4
Heating power/COP at A10/W35 [2]	1 condensers	kW	7,3 / 4,3	9,1 / 4,3	13,1 / 4,3	14,6 / 4,4
Heating power/COP at A-7/W35 [2]	1 condensers	kW	4,7 / 2,9	6,1 / 2,8	8,4 / 2,8	9,5 / 2,7
Heat circuit		°C	20*) - 52**)	20*) - 52**)	20*) - 58**)	20*) - 58**)
Heat source		°C	-20 - 35			
Additional operating points			A> -7 / 60**)	A> -7 / 60**)	-	
Internal sound pressure level at 1m gap around the engine averaged (in free field)		dB (A)	47	47	47	47
External sound pressure level at 1m gap around the air supply averaged (in free field)		dB (A)	46	46	49	49
Connections heating circuit			R1"AG			R5/4"AG
Refrigerant type / Filling capacity		- / kg	R407C/2,95	R407C/3,2	R404A/4,1	R404A/4,5
Voltage all-pole circuit breaker heat pump[3]		- / A	3~/PE/400V/50Hz			
Voltage circuit breaker control voltage [3]		- / A	1~/N/PE/230V/50Hz			
Voltage circuit breaker electric heating element [3]		- / A	3~/N/PE/400V/50HZ			
Weight		kg	290	295	300	305
W x D x H		mm	845x745x1860			

[1] Standard point as per EN14511
[2] Operating point as per EN14511
[3] Observe local regulations
*) Hot water return
**) Hot water flow

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