

Plug-and-Play

Mobile prefabricated heat pump system

HeatBox Hydro 80 kW module & EcoStation

Prefabricated units containing everything to meet a building's heating and cooling needs

- Works for both temporary (HeatBox Hydro) and permanent (EcoStation) needs
- Product mobility opens up new opportunities for temporary deployment
- Easy to move and deploy with standard equipment
- For permanent installations it is simple to connect to the electricity supply and the building's heat distribution system
- Unique and patented plug-in module system
- Equipped with four 20 kW air to water heat pumps providing 80 kW of heat output, a 500 litre multi-purpose tank, an additional 42 kW electric boiler for peak power supply and a control system for optimization and monitoring via the Web
- For permanent installations: free up valuable space thus maximising building utilisation, reducing operating costs, increasing property value and improving the environmental profile
- Replaces today's cumbersome, time-consuming and costly installation processes that require multiple skill sets and project coordination
- For temporary heat or for the drying and heating of buildings under construction. The products advanced control system can cut costs in half and lead to a significant reduction in the carbon footprint

• EIS HeatBox Hydro



• EIS EcoStation



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With this patented product Energy Save has built into a single, mobile unit everything to heat and cool a building, including the installation know-how.

ES Group has created a complete power plant containing high-capacity air-to-water heat pumps. The product has everything to meet a building's needs for generating and controlling heat, hot tap water and cooling. These factory-built prefabricated heat pump systems have superior quality over conventional site-built solutions.

The market for temporary heating and cooling needs

Because of the product's mobility, it can be

used for temporary needs, enabling new and unique applications.

The energy and cost-saving heat pump technology can be used temporarily for heating or cooling, for a few days or months. For example drying buildings during construction or heating/cooling at commercial events or in field hospitals.

Overview of HeatBox Hydro

HeatBox Hydro is a preassembled and mobile heat pump module that supplies heating fans (aerotempers) with hot water for temporary heating of premises, construction sites and warehouses. The HeatBox modules

• EIS HeatBox Hydro

• EIS EcoStation

are recommended for achieving considerable energy cost reductions in urban environments where, for example, diesel heaters are not viable or when the available district heating or electricity power is not sufficient.

The plug-in module can be custom-built to suit existing environments from an architectural point of view. It can be placed near, or on, the building to be heated but does not need to be placed directly adjacent to it. This also makes the Plug-in module (in addition to its special suitability in new building construction drying and heating) well suited for connection to most types of existing properties.

HeatBox Hydro

Min/max heat output (1)	kW	7,5 / 79,2
Power consumption heating, min/max (1)	W	2260 / 22400
C.O.P min/max (1)	W/W	3,12 / 4,27
Min/max heat output (2)	kW	6,18 / 77,2
Power consumption heating, min/max (2)	W	2047 / 25600
C.O.P min/max (2)	W/W	3,0 / 3,12
Min/max cooling output (3)	kW	2,4 / 44,0
Power consumption cooling, min/max (3)	W	1771 / 5731
E.E.R. min/max (3)	W/W	1,92 / 2,60
Operational temp. range, heating (re. Heat pumps)	°C	-25°C – +46°C
Operational temp. range, cooling (re. Heat pumps)	°C	+5°C – +65°C
EU Energy label		A+

EQUIPED WITH

Three security access zones		Connections/System/Ventilated areas
Lockable hatches for all connections		Yes
Extractable hydraulic system rack		Yes
Inverter compressor technology, variable speed fans		Yes
Heat pump, outdoor units	4 pcs	AW19 V5+
Heat pump, indoor unit	1 pcs	AWH80 V5+
Accumulator multi-functional tank	1 pcs	500 litres
ErP rated circulation pumps	3 pcs	Wilo
3-way valves		ESBE
Heat exchanger manufacturer: SWEP	kW	100
Piping system		Stainless steel / Galvanized steel / Copper / Brass
Anti-freeze fan in system compartment		Yes
PU-insulated motorized roller door		Yes
Ventilated gates	4 pcs	Yes
Lights in both compartments		Yes
Electrical sockets in both compartments	2 pcs	Yes

MEASUREMENTS, WEIGHT, REFRIGERANT, CONNECTIONS, ENVIRONMENTAL REGULATIONS

Dimensions of the module, 10' HC container (LxWxH)	mm	2918 x 2438 x 2896
Net weight	kg	approx. 2.600
Gross weight, including water	kg	approx. 3.200
Refrigerant		R410a
Power supply, earthed	V / Hz / A	400V/3PH/50Hz/40
Connector (autoadjusted current if electrical boiler option is used)	A	63
Ground fault circuit breaker and surge protector		Required
Heat/cooling water connections		54 mm
Water inlet connections		22 mm
Environmental regulated installation, F-gas regulations	Environment regulations	Yes

AVAILABLE OPTIONS

Electrical boiler 42 kW
Cyclon/magnetic filter (for external circuit on the heated facility return flow)
Locks for all hatches and gates
High pressure air compressor (for cleaning purposes, circuit emptying, etc)
Glycol filling in primary circuit
Web-based operational monitoring and surveillance, CC WEB
GSM modem
Service agreement

Specified manufacturers may change.

- (1) Heating conditions: water temperature in /out – 30°C / 35°C, ambient temperature – DB 7°C / WB 6°C
- (2) Heating conditions: water temperature in /out – 40°C / 45°C, ambient temperature – DB 7°C / WB 6°C
- (3) Cooling: water temperature in /out – 12°C / 7°C, ambient temperature – DB 35°C / WB 24°C

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