

HSX Steam generators

34-140 CD

HELO



Applications

HSX Steam generators are suitable for domestic and commercial use.

Dimensions

Length	520 mm
Width	160 mm
Height	380 mm
Weight (filled with water) approx.	17 kg

Construction

All tank parts are made of acid-proof steel.
Replaceable thermofuse-equipped heating elements made of Incaloy 825.

Mechanical installation

The steam generator should be installed in a dry place, which has a floor drain for the steam generator's drain valve. The unit can be placed freestanding on the floor or mounted to the wall with mounting brackets. When using the mounting brackets, check the wall material to determine the proper mounting screws.

Electrical installation

The steam generator is connected using a semi-fixed connection to the building mains, in full accordance with local regulations. Electrical connections are only to be made by an authorised professional.
IP 20 rating. (For electrical connections, see table below and page 2)

Water connection

The steam generator is connected to the cold water supply.

Filling with water

The HSX steam generator is equipped with automatic water refill and water level control. An automatic drain and flush program help to prevent impurities from forming in the tank and heating elements. The steam generator has a filling port specifically designed for de-scale procedure.

Control system

The steam generator is controlled by a separate digital control unit, which includes time and temperature controls, and 4 pre-programmable memory sites. The control unit also contains buttons for light, fan and essence injection pump connections.
Also available: "ON/OFF" control unit with built-in timer and ON/OFF switch (available spring 2003).
The control unit can also be installed in the steam room.
The steam generator can be connected to an external control source.



Technical specifications

Type	Power kW	Fuse A	Cable mm ²	Steam room m ³
HSX-34 CD	3,4	10	5 x 1,5S	1,5 - 2,5
HSX-47 CD	4,7	10	5 x 1,5S	2,5 - 5
HSX-60 CD	6,0	10	5 x 1,5S	5 - 7
HSX-77 CD	7,7	16	5 x 2,5S	7 - 10
HSX-95 CD	9,5	16	5 x 2,5S	10 - 12
HSX-120 CD	12,0	20	5 x 4S	12 - 15
HSX-140 CD	14,0	25	5 x 6S	15 - 18

All power outputs: 230V1N (3,4-7,7), 400V 3N~, 50 Hz.

Can be connected to a serial port for ganging of max. 4 steam generators (total 56 kW); see accessories Split Kit.
Steam generator water consumption litres/h = 1.33 x kW (steam generator power kW).

Basic data required for steam generator dimensioning

Steam room volume (m³)

Steam room ventilation

Room with ventilation: K1= 0.75
Room without ventilation: K1= 0.52

Wall material

Acrylic (plastic): K2=1
Tiled interior drywall: K2=1.25
Tiled concrete wall: K2=1.5

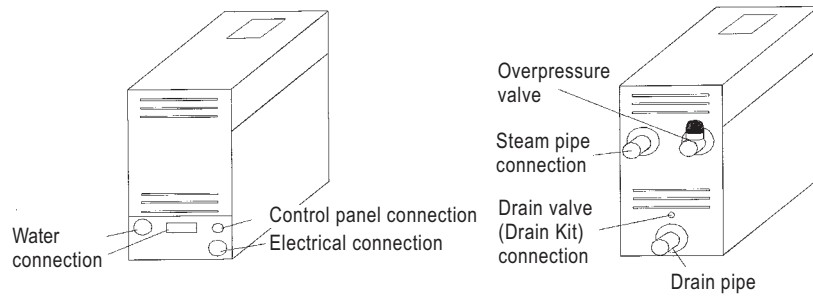
Steam room volume (m³) x K1 x K2 = steam generator power requirement (kW)



HSX Steam generators 34 -140 CD



Water and steam connections



Accessories

Essence injection pump

Connections to steam generator

HSX Standard Kit 1

- HSX 34-60 CD models
- 1 water supply hose
- 1 steam nozzle
- 1 steam nozzle cover
- 50 g de scale agent

HSX Standard Kit 2

- HSX 77-95 CD models
- 1 water supply hose
- 2 steam nozzles
- 2 steam nozzle covers
- 50 g de-scale agent

HSX Standard Kit 3

- HSX 120 -140 CD models
- 1 water supply hose
- 3 steam nozzles
- 3 steam nozzle covers
- 50 g de scale agent

Magnetic valve for automatic drainage

HSX Drain Kit

- Required for professional use
- 1 magnetic drain valve
- 1 connecting cable
- Outlet built in to steam generator

Ganging

HSX Split Kit 2

- Cable series for ganging of two steam generators

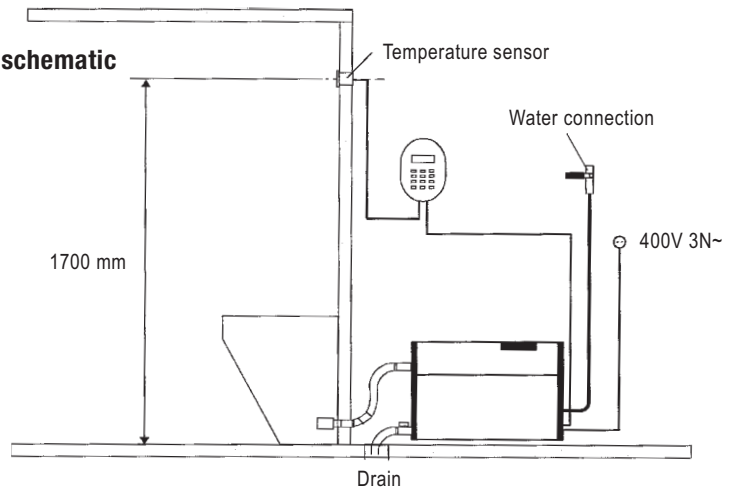
HSX Split Kit 3

- Cable series for ganging of three steam generators

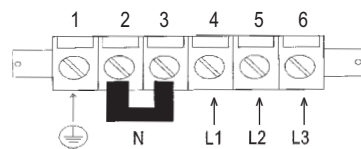
HSX Split Kit 4

- Cable series for ganging of four steam generators

Steamgenerator principle schematic



Schematic



Steam room

When selecting the correct power for the steam generator, adhere to all manufacturer instructions. Key items to note are steam room structure(s) and materials as well as its ventilation.

The steam room walls can be stone-based or light partition wall structures. When building a steam room, always use a certified moisture barrier system. The steam room ceiling should be arched or sharply angled toward the opposite or all other angles.

The steam generator must always be placed in a dry place.

The steam room must have a floor drain, in which the steam generator drain pipe can be placed.

Always consult an expert when planning a steam room and its structures.

All applicable HVAC regulations must be observed in every aspect of steam room construction. A building permit is always required for construction of a steam room.



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