

Fact sheet

Termix BVX-FI RO SEK

Indirect substation for single-family houses or apartments



Application

The Termix BVX-FI RO SEK substation is a complete solution for hot water and space heating with optimal safety, efficient energy transfer, service-friendly construction and a compact design. The substation is used if a heat exchanger is required or on a conversion to district heating where the existing equipment is unsuitable for direct connection.

District heating (DH)

The substation is prefabricated with a differential pressure controller, fitting piece and sensor pockets for insertion of a heat meter as well as strainers and ball valves.

Heating (HE)

The heating circuit consists of a plate heat exchanger, safety valves, pressure gauge, ball valves, drain valve, air valves, expansion vessel and circulation pump. The temperature of the heating is electronically controlled with an outdoor temperature sensor.

Domestic hot water (DHW)

The domestic hot water circuit consists of a hot water tank with coil and a pump for controlling the temperature with possibility for DHW priority. The DHW tank and coil are enamelled and the tank contains a magnesium anode.

Options

The Termix BVX-FI RO SEK can be supplied with a thermostatic circulation valve. Option delivered loose with unit.

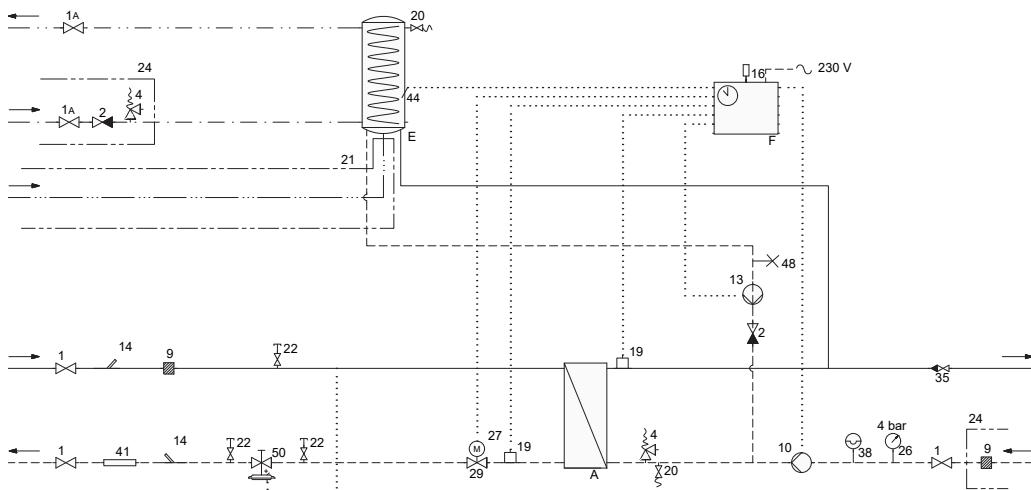
Construction

All pipes are made of stainless steel. The connections are made with nuts and gaskets. The Termix BVX-FI RO SEK is completed by a white steel cover in a modern design with door. The 105 ltr. tank can replace the older 150 ltr. tank thanks to the unit being fully insulated. This will save space as well. Non-return valve and safety valve for the cold water supply is delivered loose with the unit.

FEATURES AND BENEFITS

- Substation for single-family houses or apartments
- Regulated indirect DHW with pump control
- Indirect heating with electronic control
- Capacity: 11 - 30 kW heating
- 105 ltr. tank for DHW
- Suitable in cases of low district heating capacity
- Operates independently of differential pressure and flow temperature
- Pipes and plate heat exchanger made of stainless steel
- Minimum space required for installation
- Fully insulated

CIRCUIT DIAGRAM – EXAMPLE



A	Plate heat exchanger, HE
E	DHW tank with coil
F	Electronic controller
1	Ball valve
1A	Ball valve, DVGW
2	Non-return valve
4	Safety valve
9	Strainer
10	Circulation pump, HE
13	Charging pump
14	Sensor pocket, heat meter
16	Outdoor sensor
19	Surface sensor
20	Filling / drain valve
21	To be ordered separately
22	Test connection
24	Delivered loose with unit
26	Manometer
27	Actuator
29	2-way motorized valve
35	Ball valve/non-return valve
38	Expansion tank
41	Fitting piece, heat meter
44	Immersion sensor
48	Air escape, manual
50	Differential pressure controller w/o flow limiter

Technical parameters:

Nominal pressure: PN 16
 Max. supply temperature: $T_{max} = 120^\circ\text{C}$
 Brazing material (HEX): Copper

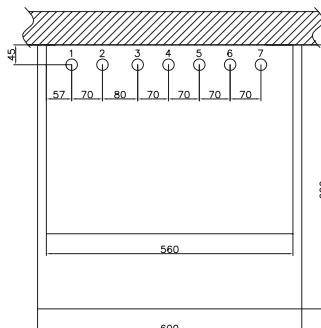
Weight incl. cover: 120–150 kg

Cover: White-lacquered steel sheet

Dimensions (mm):

With cover:
 H 1910 × W 600 × D 600

Connections:



The connections are at the top of the station

1. DHW Circulation (Circ.)
2. Domestic cold water (DCW)
3. Domestic hot water (DHW)
4. Heating (HE) return
5. Heating (HE) supply
6. District heating (DH) return
7. District heating (DH) supply

Connections sizes:

All connections: $\frac{3}{4}$ " G (int. thread)

Options:

- Thermostatic circulation set

DHW: CAPACITY EXAMPLES

Substation type	Size of cylinder [l]	Coil supply/return temp. [°C]	Hot water 10/50°C constant output [l/h]	Hot water 10/50°C output first hour** [l/h]	Hot water 10/50°C constant output [kW]
BVX-FI 2-X	105	60/30 70/30	199 272	262 335	9,3 12,7

** Output first hour = constant output + 60% of cylinder volume

HEATING: CAPACITY EXAMPLES

Substation Type BVX T/E	Heating Capacity [kW]	Supply flow primary [°C]	Heating circuit [°C]	Pressure loss primary* [kPa]	Pressure loss secondary [kPa]	Flow rate primary [l/h]	Flow rate secondary [l/h]
BVX-FI RO 2-1	15	75/43	40/65	35	30	414	522
	15	80/48	45/70	35	30	414	522
	11	90/51	50/70	20	30	246	480
BVX-FI RO 2-2	25	75/44	40/65	40	30	690	870
	25	80/48	45/70	40	30	690	870
	19	90/51	50/70	20	30	426	828
BVX-FI RO 2-3	30	75/43	40/65	30	30	822	1038
	30	80/48	45/70	30	25	816	1044
	30	90/51	50/70	30	20	678	1308

* Heat meter not included

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