

Fact sheet

Termix VX – WP

Indirect substation for single and multi - family houses. Designed for wall mounting.



Application

The Termix VX – WP substation is a complete solution for space heating and domestic hot water with optimal safety, efficient energy transfer, service-friendly construction and a compact design. The substation is designed for pressure levels up to PN 16 and high supply temperatures with welded pipes on the primary side.

District heating (DH)

The Termix VX - WP substation is pre-fabricated with a flow controller with integrated control valve, fitting piece and sensor pockets for insertion of heat meter as well as strainer, thermometer/manometers and ball valves.

Heating (HE)

The heating circuit consists of a stainless steel plate heat exchanger, safety valve, manometer, thermometers, ball valves, drain valve and circulation pump. The Termix VX – WP is equipped with an electronic controller with an outdoor temperature sensor. The substation is also equipped with a thermostat with safety monitor, which typically is a requirement in heavyduty systems.

Domestic hot water (DHW)

The substation is delivered with connection pipes for indirect DHW tank including charging pump, DHW tank temperature sensor and the possibility for priority or parallel operation.

Options

The Termix VX – WP substation can be delivered with pipe insulation and cover separately.

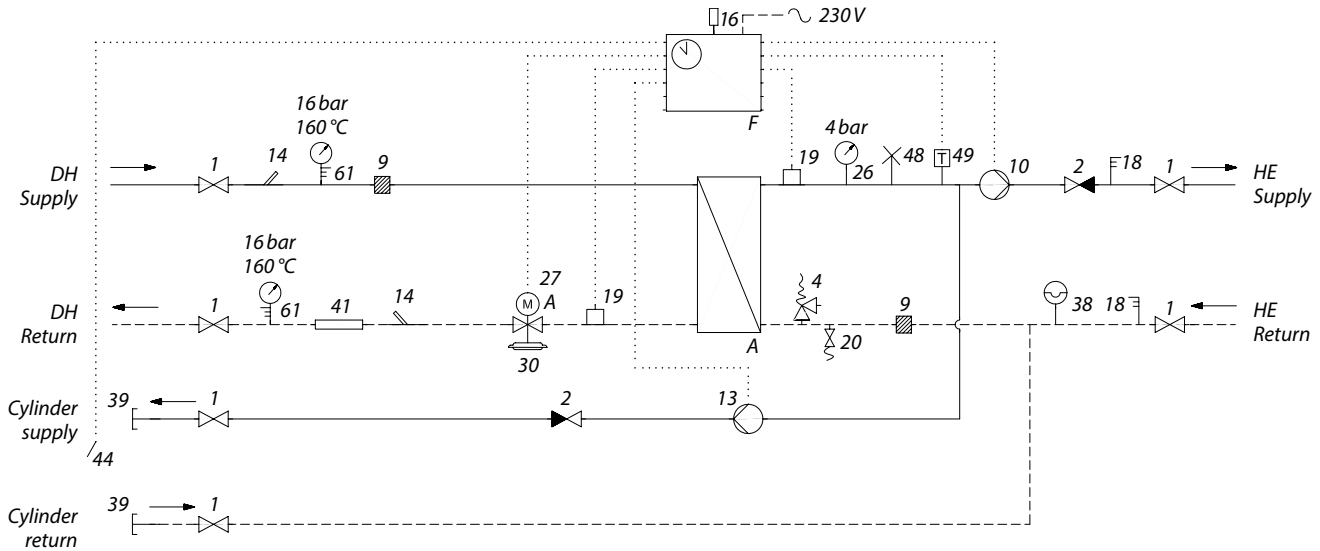
Construction

The primary side is welded with gasket connections. The connections on the secondary side of the substation are threaded.

FEATURES AND BENEFITS

- Substation for single and multi-family houses
- Indirect heating, secondary connections for indirect DHW tank
- Electronic control of heating and DHW temperature
- Capacity: 15 – 60 kW for heating
- Applicable in high pressure and high temperature networks
- Welded connections on the primary side
- Threaded connections on the secondary side
- Plate heat exchanger made of stainless steel

CIRCUIT DIAGRAM – EXAMPLE



- | | | | | | | | |
|---|-------------------------|----|----------------------------|-----|-------------------------------|----|--------------------------------|
| A | Plate heat exchanger HE | 10 | Circulation pump | 20 | Filling / drain valve | 41 | Fitting piece, heat meter |
| F | Electronic controller | 13 | Charging pump | 26 | Pressure gauge | 44 | Immersion sensor |
| 1 | Ball valve | 14 | Sensor pocket, heat meter | 27A | Actuator with safety function | 48 | Air vent, manual |
| 2 | Non-return valve | 16 | Outdoor temperature sensor | 30 | Flow control w. control valve | 49 | Thermostat with safety monitor |
| 4 | Safety valve | 18 | Thermometer | 38 | Expansion tank | 61 | Thermo-/ Manometer |
| 9 | Strainer | 19 | Surface sensor | 39 | Connection closed | | |

Technical parameters:

Nominal pressure: PN 16
 DH supply temperature: $T_{max} = 130\text{ }^{\circ}\text{C}$
 Brazing material (HEX): Copper

Weight: 35 – 50 kg (incl. packing)
Electrical supply: 230V AC

Dimensions (mm):

Without cover: H 1000 × W 620 × D 400
 With cover: H 1000 × W 640 × D 430

Pipes dimensions (mm):

Secondary: $\varnothing 18$

Connections sizes:

DH: DN 20 (tail piece)
 HE + GHW: $G\frac{3}{4}$ (int. thread)

Options:

- Pipe insulation
- Cover

HEATING: CAPACITY EXAMPLES

Substation type	Heatin capacity [kW]	Heating circuit primary [°C]	Heating circuit secondary [°C]	Pressure loss primary [kPa]	Flow rate secondary [l/h]
VX - W - 1	15	130 / 51	50 / 70	50	689
	23	130 / 51	50 / 80	50	699
VX - W - 2	20	130 / 51	50 / 70	50	920
	30	130 / 51	50 / 80	50	909
VX - W - 3	24	130 / 51	50 / 70	50	1090
	36	130 / 51	50 / 80	50	1090
VX - W - 4	32	130 / 51	50 / 70	50	1455
	49	130 / 51	50 / 80	50	1455
VX - W - 5	40	130 / 51	50 / 70	50	1817
	60	130 / 51	50 / 80	50	1816

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