

Fact sheet

Termix VVX-ID 22-22 fully insulated

P-Marked district heating unit for single family houses



FEATURES AND BENEFITS

- District heating unit for houses
- Indirect heating, Hot water temperature regulation using a thermostatic / flow control valve
- Electronic heating regulation using outdoor sensors and supply sensors
- Capacity for up to 15 kW heating and 0.32 liter/second hot water
- Functions independently of differential pressure (0.5 – 6.0 bar)
- Low installation space requirement
- Stainless steel piping and plates
- Minimal risk of scaling and bacteria formation
- Fully insulated

Application

Termix VVX is a complete solution for hot water and heating, offering optimum safety, efficient heat transfer, service-friendly construction and a compact design. The district heating unit is used on a conversion or a new connection to district heating.

District heating (DH)

The district heating unit is provided with fitting pieces and sensor pockets for installation of heat meters, and horizontally-mounted strainers on all circuits. Primary and secondary connections are optionally up and/or down. Cold and hot water connections are up as standard, but can locally be easily changed to down (also available as accessories with connectors that are both up and down).

Heating (HE)

The heating circuit consists of a plate heat exchanger, safety valve, manometer, thermometer (supply temperature), shut-off valves, air vent valve, expansion vessel and circulation pump. The supply temperature is regulated electronically with outdoor sensors and supply sensors. Various sizes of heat exchangers can be used, depending on the capacity needed.

Domestic hot water (DHW)

Hot water is produced in the heat exchanger and the temperature is regulated with a self-acting thermostatic valve that checks the hot water temperature using the flow control principle. Rapid closure of the thermostat valve protects the heat exchanger from overheating and scaling. The control valve guarantees a stable hot water temperature, even during a changing duty cycle. The heat exchanger cools the district heating water very effectively, which provides excellent operational economy. The thermostat valve also functions as

a bypass, keeping the district heating culvert heated. This means shorter waiting times during the summer when the district heating is supplied at a lower temperature.

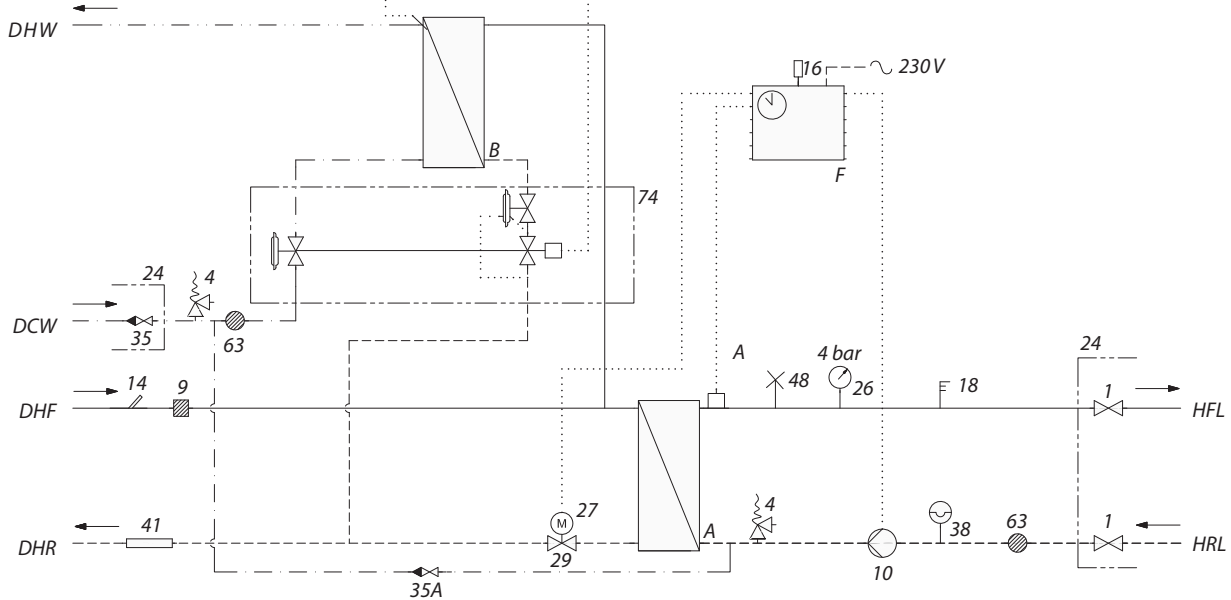
Options

The district heating unit can also be supplied with a thermal bypass that is fitted before the heat meter.

Construction

All pipes and plates are made of stainless steel. Connectors are made of brass that is sealed with gaskets. Heat exchanger for the primary system for heating and direct hot water heating with a self-acting thermostatic/flow control valve. Intended for wall-mounting, P-labeled district heating unit for houses connected to a district heating system.

CIRCUIT DIAGRAM – EXAMPLE



- | | | | |
|-------------------------|--------------------------------|----------------------------------|--------------------------------|
| A Heat exchanger, HE | 10 Circulator pump | 26 Pressure gauge | 41 Fitting piece, energy meter |
| B Heat exchanger, DHW | 14 Sensor pocket, energy meter | 27 Actuator | 48 Air vent, manual |
| F Electronic controller | 16 Outdoor sensor | 29 2-way motorized valve | 63 Sieve |
| 1 Ball valve | 18 Thermometer | 35 Ball valve / non-return valve | 74 IHPT |
| 4 Safety valve | 19 Surface sensor | 35A Fitting piece, energy meter | |
| 9 Strainer | 24 Delivered loose with unit | 38 Expansion tank | |

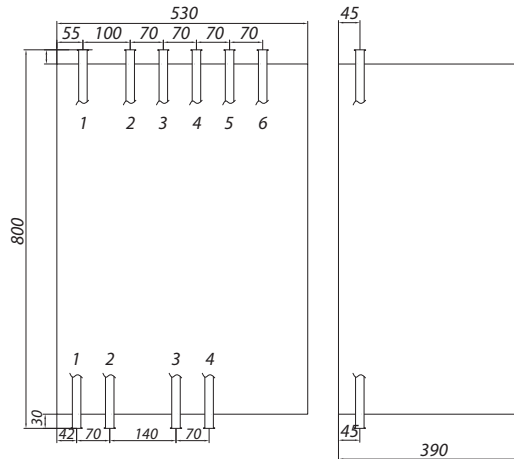
Technical parameters:

Nominal pressure: PN 16
 DH supply temperature: $T_{max} = 120\text{ }^{\circ}\text{C}$
 Min. diff. pressure: $p_{min} = 0.5\text{ bar}$
 Brazing material (HEX): Koppar

Weight incl. cover: 35 kg
Electrical supply: 230V AC

Dimensions (mm):

Without cover: H750 × W500 × D360
 With cover: H800 × W540 × D430



Connections:

1. DH supply
2. DH return
3. HE supply
4. HE return
5. DHW
6. CW

Connections:

DH + HE + DHW + CW: G $\frac{3}{4}$ " (int. thread)

Options:

- VVC kit
- Thermostatic bypass
- Room thermostat
- Danfoss ECL Comfort 310

DHW: CAPACITY EXAMPLES

Type	Capacity [kW]	Primary supply Temp. [°C]	Primary return Temp. [°C]	CW/DHW Temp. [°C]	Pressure loss sec. [kPa]	Flow Prim./Sec. [l/s]
WX-ID 22-x	33	65	18,0	10 / 50	73	0,17 / 0,2
	50	65	20,2	10 / 50	108	0,27 / 0,3
	55	65	21,0	10 / 50	149	0,3 / 0,33

HEATING: CAPACITY EXAMPLES

Type	Capacity [kW]	Primary supply Temp. [°C]	Primary return Temp. [°C]	Secondary Temp. [°C]	Pressure loss sec. [kPa]	Flow Prim./Sec. [l/s]
WX-ID x-22	15	100	60,2	60 / 80	19,7	0,1 / 0,19
	8	65	45,1	45 / 55	19,1	0,1 / 0,18

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