



Termix VMTD Compact 20

Direct substation for multi-family houses and apartment buildings with up to 14 apartments

District heating substation for direct heating and instantaneous domestic hot water with thermostatic or electronic controls. Designed for wall-mounting.

Application

The Termix VMTD Compact 20 substation is a complete solution with built-in water heater and heating circuit with differential pressure controls. The substation is applicable for multi-family houses and apartment buildings.

District heating (DH)

The district heating circuit is prefabricated with a differential pressure controller as well as thermometers and ball valves. Furthermore the substation is delivered with a mixing loop including pump, controls and non-return valve.

Heating (HE)

The heating circuit is designed for direct connection. The differential pressure controller sets the optimum operation conditions for radiator thermostats in order to enable individual temperature control in each room. The mixing loop creates a suitable temperature level for the heating system.

Domestic hot water (DHW)

The domestic hot water is prepared in the plate heat exchanger and the temperature is regulated with a thermostatic or electronic controller. The efficient heat exchanger for DHW offers exceptionally good heat extraction with high output. No readjustment of the DHW temperature is required after installation and initial setting of the controls. The thermostatic control valve automatically retains the comfort temperature of the hot water, even when the heating system is in reduced operation during summer or if the district heating plant changes operating parameters between summer and winter. This either by lowering or increasing the flow temperature of the district heating water and/or the operating pressure in the network.

Options

The substation can be supplied with fitting piece and sensor pockets for insertion of a heat meter.

Construction

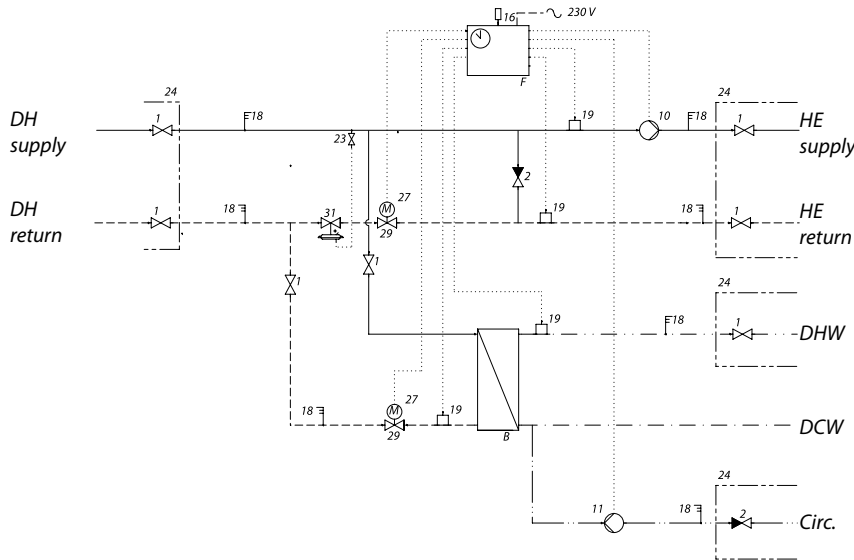
All pipes are made of stainless steel. The connections are made by nuts and gaskets. The Termix VMTD Compact 20 can be delivered with white-lacquered steel cover in modern design.

FEATURES AND BENEFITS

- Substation for multi-family houses and apartment buildings
- Direct heating with mixing loop
- Thermostatic or electronic controls
- Capacity: 69-106 kW DHW
- DHW in sufficient quantity
- Operates independent of differential pressure and flow temperature
- Minimum space required for installation
- Pipes and plate heat exchanger made of stainless steel
- Minimized risk of lime scale and bacteria formation

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Circuit diagram - example



- B Heat exchanger DHW
- F Electronic controller
- 1 Ball valve
- 2 Non-return valve
- 10 Circulator pump
- 11 DHW pump
- 16 Outdoor sensor
- 18 Thermometer
- 19 Surface sensor
- 23 Ball valve
- 24 Delivered loose with unit
- 27 Actuator
- 29 2-way motorized valve
- 31 Differential pressure controller

Technical parameters:

Nominal pressure: PN 16
 DH supply temperature: $T_{max} = 120\text{ °C}$
 DCW static pressure: $p_{min} = 0,5\text{ bar}$
 Brazing material (HEX): Copper

Weight incl. cover: 30-40 kg
 (incl. packing)

Cover: White-lacquered steel sheet

Dimensions (mm):

Without cover: H 815 x W 505 x D 300
 With cover: H 815 x W 540 x D 360

Electrical supply: 230 V AC

Connections:

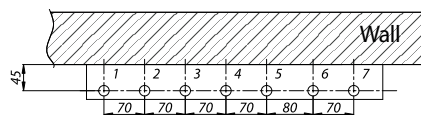
- 1 District heating (DH) supply
- 2 District heating (DH) return
- 3 Heating (HE) supply
- 4 Heating (HE) return
- 5 Domestic hot water (DHW)
- 6 Domestic cold water (DCW)
- 7 Circulation DHW

Connections sizes:

DH + HE + DCW + DHW: G 1" (int. thread)
 Circulation: G 3/4" (int. thread)

Options:

- White-lacquered stainless steel cover
- Fitting piece and sensor pockets for insertion of a heat meter



Seen from above

DHW: Capacity examples

DHW Capacity kW	Supply flow Primary °C	Return flow Primary °C	DCW/DHW °C	Pressure loss Primary kPa	Flow rate Secondary l/h
69	60	23	10/50	35	1548
85	60	20	10/45	35	2106
95	70	19	10/50	35	2124
106	70	20	10/45	35	2618

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