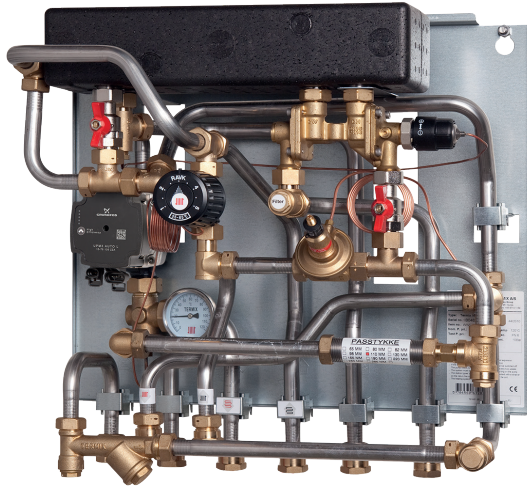


Fact sheet

Termix VMTD-MIX-I

District heating substation for direct heating and instantaneous domestic hot water with thermostatic and flow-compensated control.



Application

The Termix VMTD-MIX-I is a complete solution with built-in water heater and a differential pressure controlled heating system with differential pressure control and mixing loop. The Termix VMTD MIX - I is applicable for single - family houses and for decentralized systems in multi - family houses.

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. 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 e.g. for floor heating. In order to enable a time-dependent-temperature control program, a zone valve with actuator and a room thermostat can be included as an option.

Domestic hot water (DHW)

The domestic hot water is prepared in the heat exchanger and the temperature is regulated with a thermostatic and flow compensated controller. The heat exchanger cools the DH water very efficiently, thereby creating an excellent operating economy. The Danfoss IHPT valve ensures a stable hot water temperature by varying loads, supply temperatures and by high and varying differential pressure without the need for readjusting the valve. This protects the heat exchanger against overheating and lime scale formation. Furthermore the IHPT valve has an integrated idle temperature controller, which keeps the house supply line warm. This shortens the waiting periods during summer when the heating system is in reduced operation, which is ideal where high comfort is requested.

Options

The substation can be supplied with a built-in non - return valve and safety valve mounted in the cold water supply. The substation can also be supplied with a thermostatic circulation valve.

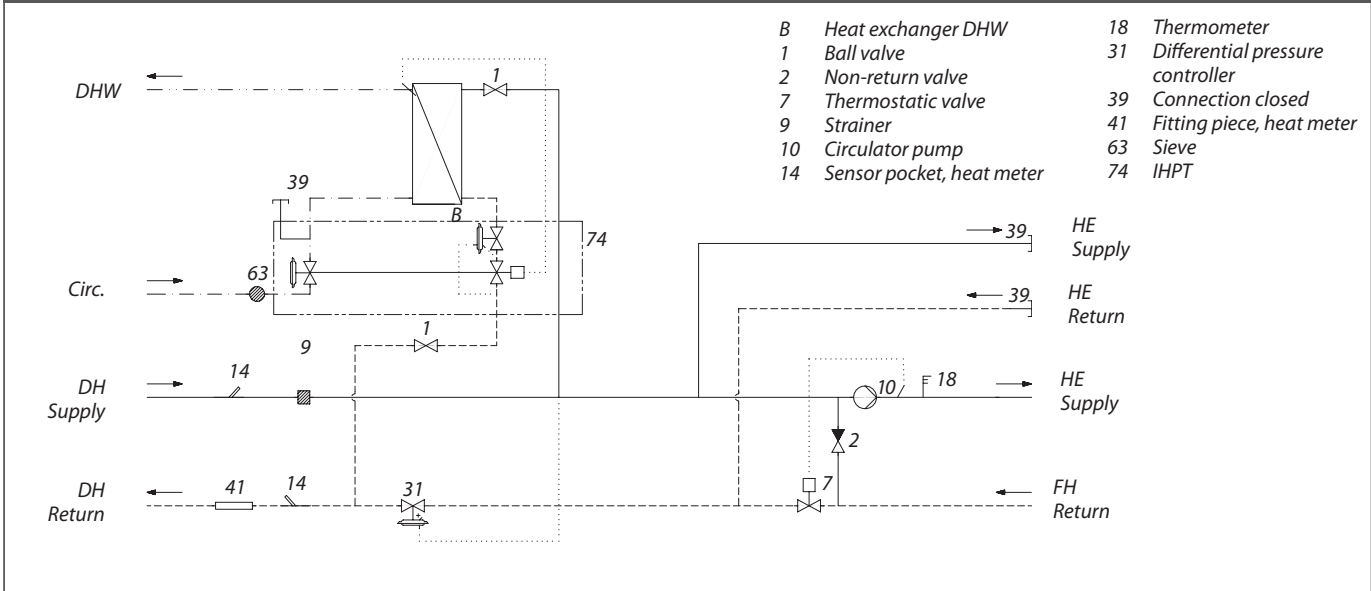
Construction

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

FEATURES AND BENEFITS

- Substation for DH and decentralized systems
- Direct heating with differential pressure controller
- DHW thermostatic and flow compensated temperature controller
- Capacity: 33 – 59 kW for DHW
- DHW in sufficient quantity
- Operates independently 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
- Low heat loss

CIRCUIT DIAGRAM - EXAMPLE



Technical parameters:

Nominal pressure: PN 10
 DH supply temperature: $T_{max} = 120\text{ }^{\circ}\text{C}$
 DCW static pressure: $P_{min} = 1,0\text{ bar}$
 Brazing material (HEX): Copper

Weight incl. cover: 25 kg (incl. packing)

Insulation: EPP λ 0.039

Cover: White-lacquered steel sheet

Dimensions (mm):

Without cover: H550 x W530 x D280
 With cover: H550 x W540 x D360

Connections:

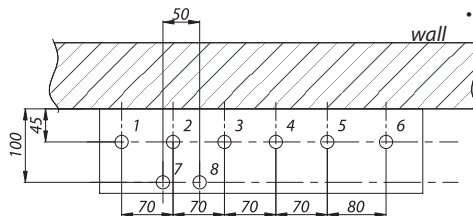
1. District heating (DH) supply
2. District heating (DH) return
3. Floor heating (FH) supply
4. Floor heating (FH) return
5. Domestic hot water (DHW)
6. Domestic cold water (DCW)
7. Heating (HE) return
8. Heating (HE) supply

Connections sizes:

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

Options:

- Booster pump (increases DH flow)
- White-lacquered steel cover
- Safety valve and non-return valve (10 bar)
- Pressure equalizer GTU
- Room thermostat
- Zone valve with actuator
- Air screw (DH supply)



DHW: CAPACITY EXAMPLES

Substation type	DHW capacity [kW]	Supply flow primary [°C]	Return flow primary [°C]	DHW [°C]	Pressure loss primary [kPa]	DHW tap load [l/h]
VMTD MIX-I-1	32,3	60	19,8	10/45	23	798
	40,3	60	20,7	10/45	33	996
	36,5	70	19,1	10/50	20	792
	55	70	21,5	10/50	39	1190
VMTD MIX-I-2	32,3	55	21,9	10/45	26	798
	38	55	20,0	10/45	30	939
	39	60	19,6	10/45	20	798
	47	60	19,6	10/45	34	1161
	39,5	70	16,0	10/50	20	858
	59	70	19,2	10/50	34	1276

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