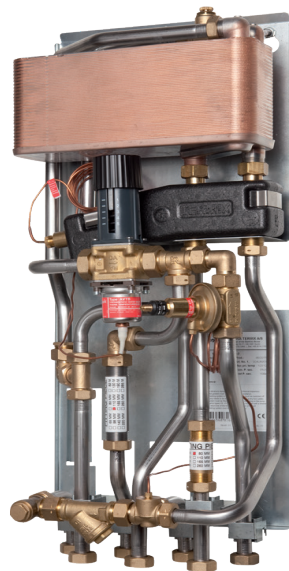


Fact sheet

Termix VMTD-N-B

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



Application

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

District heating (DH)

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

Heating (HE)

The heating circuit is designed for direct generation of heat. The differential pressure control sets the optimum operation conditions for radiator thermostatic valves in order to enable individual temperature control in each room. In order to enable a time-depending temperature control program, a zone valve with actuator and a room thermostat can be included.

Domestic hot water (DHW)

The domestic hot water is prepared in the heat exchanger and the temperature is regulated with

a thermostatic control valve. The patented sensor accelerator accelerates the closing of the Danfoss AVTB valve and protects the heat exchanger against overheating and lime scale formation. The heat exchanger cools the DH water very efficiently, thereby creating a very good operating economy. The sensor accelerator and AVTB valve also works as a bypass keeping the house supply line warm. This shortens the waiting periods during summer when the heating system is in reduced operation. The sensor accelerator helps to ensure a stable hot water temperature regardless of varying loads, flow temperatures and differential pressure without the need for readjusting the valve.

Options

The Termix VMTD-N-B can be supplied with built-in non-return valve and safety valve mounted in the cold water supply. It can also be supplied with a thermostatic circulation valve.

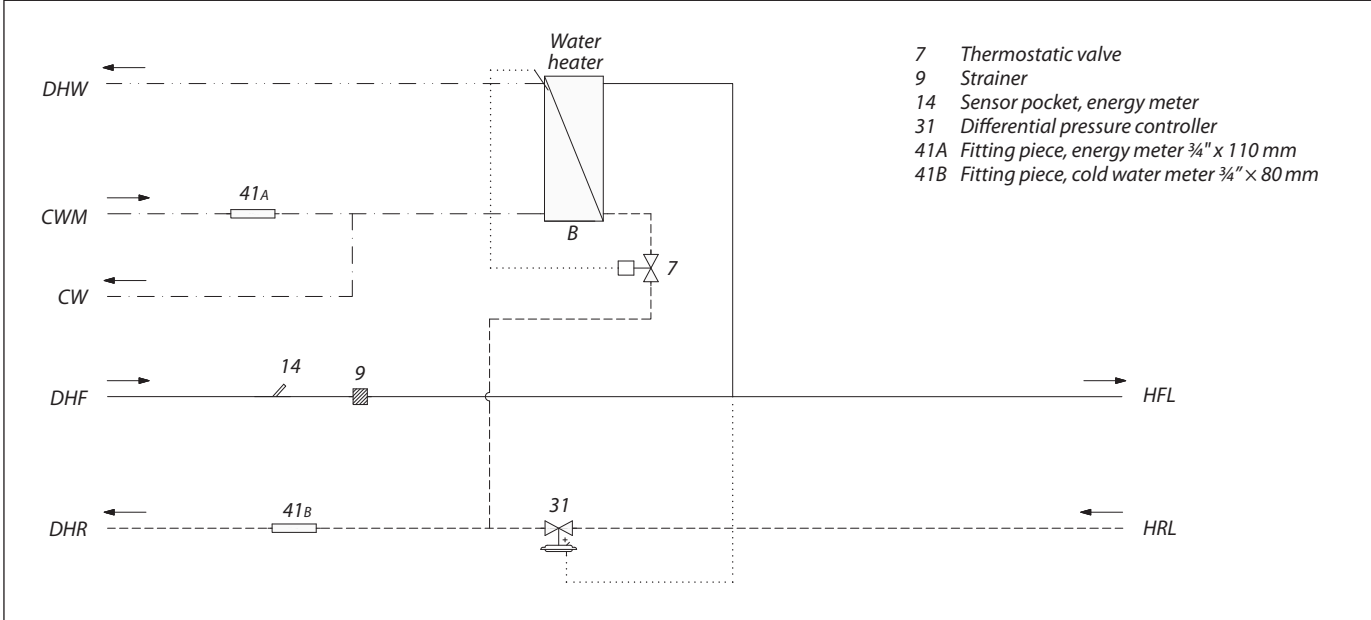
Construction

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

FEATURES AND BENEFITS

- Substation for DH and decentralized systems
- Direct heating and DHW temperature regulation with a thermostatic control valve
- Capacity: 33 – 90 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

CIRCUIT DIAGRAM



Technical parameters:

Nominal pressure: PN 10
DH supply temperature: $T_{max} = 120\text{ }^{\circ}\text{C}$
DCW static pressure: $p_{min} = 0,5\text{ bar}$
Brazing material (HEX): Copper

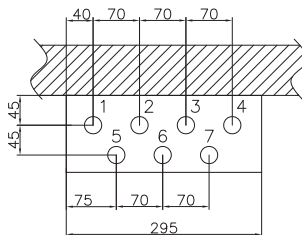
Weight excl. cover: 15 kg
(incl. packing)

Cover: White-lacquered steel sheet

Dimensions (mm):
Without cover:
H 700 x W 300 x D 200 mm

Connections:

- 1 DHF District heating flow
- 2 DHR District heating return
- 3 HFL Heating flow line
- 4 HRL Heating return line
- 5 DCW Domestic cold water
- 6 DHW Domestic hot water
- 7 CWM Cold water mains



Connections sizes:

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

Options:

- White-lacquered steel cover (on the wall)
- Safety valve and non-return valve (10 bar)
- Pressure compensation valve (GTU)
- Room thermostat
- Thermometer
- Ball valves
- Zone valve, on/off function

DHW: CAPACITY EXAMPLES

Substation type	DHW Capacity kW	Supply flow Primary °C	Return flow Primary °C	DCW / DHW °C	Pressure loss Primary kPa	Flow rate Secondary l/min
VMTD-N-1	29,3	60	23	10/50	20	10,5
	37,8	70	25	10/50	20	13,6
VMTD-N-2	34,7	60	24	10/50	20	12,4
	45,1	70	21	10/50	20	16,2
VMTD-N-3	60	60	23	10/50	35	21,3
	80	70	20	10/50	35	28,8

Gemina Termix A/S · Member of the Danfoss Group · Navervej 15-17 · DK-7451 Sunds · Denmark
Tel.: +45 9714 1444 · Fax: +45 9714 1159 · mail@termix.dk · www.heating.danfoss.com

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.