

Fact sheet

Termix BTD RO

District heating substation for direct heating with tank for domestic hot water preparation with thermostatic or electronic control.



Application

The Termix BTD RO substation is a complete solution for hot water and heating systems with differential pressure control. The Termix BTD RO is applicable for single-family houses or apartments.

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 a strainer and ball valves.

Heating (HE)

The heating circuit is designed for direct generation of heat. The differential pressure control sets the optimal operation conditions for radiator thermostatic valves in order to enable individual temperature control in each room. Furthermore the station can be delivered with a mixing loop including a pump, control valve, electronic controller and non-return valve.

Domestic hot water (DHW)

The domestic hot water circuit consists of a hot water tank with coil and self-acting thermostatic control valve or electronic controller. The hot water tank and coil are enamelled and the tank contains a magnesium anode.

Options

The Termix BTD RO can be supplied with a thermostatic circulation valve or a built-in non-return valve and safety valve mounted in the cold water supply. Both options delivered loose with unit.

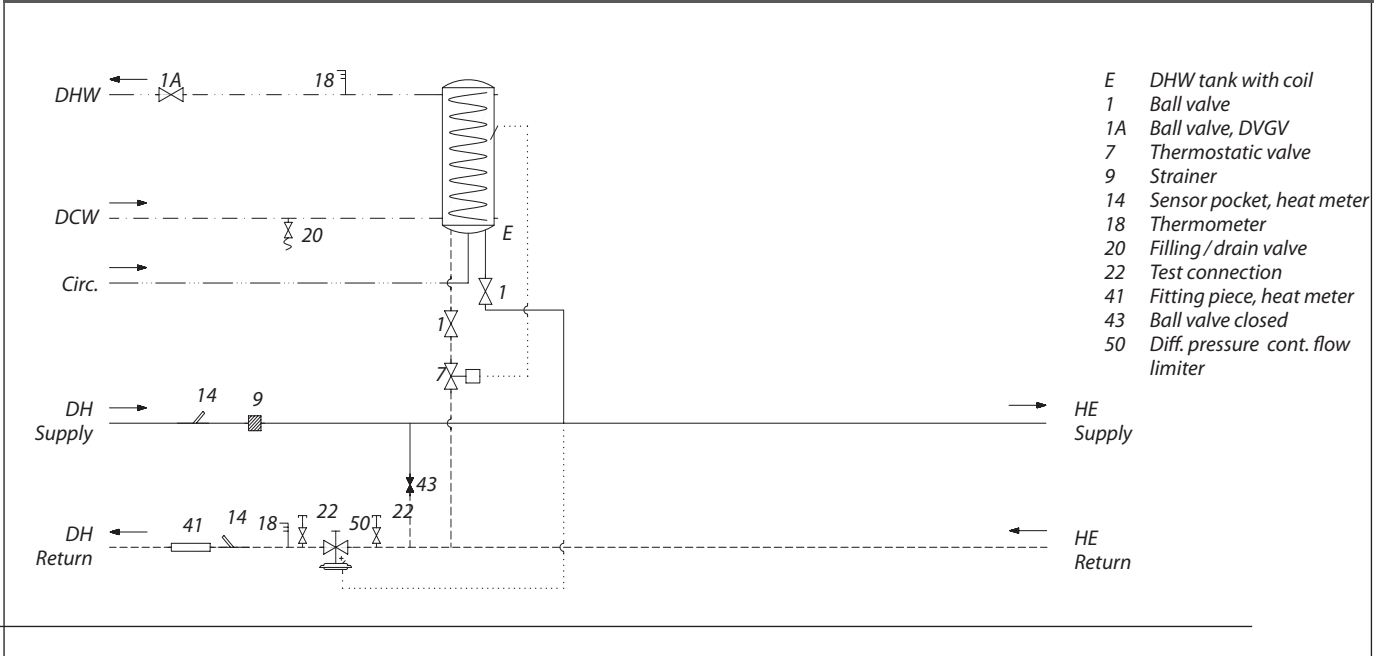
Construction

All pipes are made of stainless steel. The connections are made with nuts and gaskets. The Termix BTD RO is completed by a white steel cover in modern design with door and including external thermometers.

FEATURES AND BENEFITS

- Substation for single - family houses or apartments
- Direct heating and DHW regulation with a thermostatic control valve or electronic controller
- Mixing loop with thermostatic or electronic controller (optional)
- 100 or 150 ltr. tank for DHW
- Operates independently of differential pressure and flow temperature
- Suitable in cases of low district heating capacity
- Pipes made of stainless steel

CIRCUIT DIAGRAM - EXAMPLE



Technical parameters:

Nominal pressure: PN 10
 DH supply temperature: $T_{max} = 120\text{ }^{\circ}\text{C}$
 Brazing material (HEX): Copper

Weight incl. cover: 90 – 130 kg

Cover: White lacquered steel sheet

Dimensions (mm):

With cover:
 H 1720 × W 540 × D 640 (type BTD RO-1)
 H 1870 × W 540 × D 640 (type BTD RO-2)

Connections:

The connections are situated underneath the hot water tank

Connections sizes:

DH + HE + DCW + DHW + Circ.: ¾" G (int. thread)

Options:

- Electronic controller for heating in connection with a mixing shunt
- Electronic controlled DHW temperature
- Thermostatic circulation set
- Ball valves set
- Thermometer
- Manometer
- Safety valve / non-return valve
- Pipe insulation

DHW: CAPACITY EXAMPLES, 10°C / 50°C

Substation type	Tank volume [l]	Coil supply / return temperature [°C]	DHW constant output [l/h]	DHW output first hour* [l/h]	DHW constant output [kW]
BTD RO - 1	100	80 / 40	486	546	22,6
		70 / 30	245	305	11,4
		60 / 30	172	232	8,0
BTD RO - 2	150	80 / 40	486	576	22,6
		70 / 30	245	335	11,4
		60 / 30	172	262	8,0

* Output first hour = constant output + 60% of tank volume

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 consequential 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.