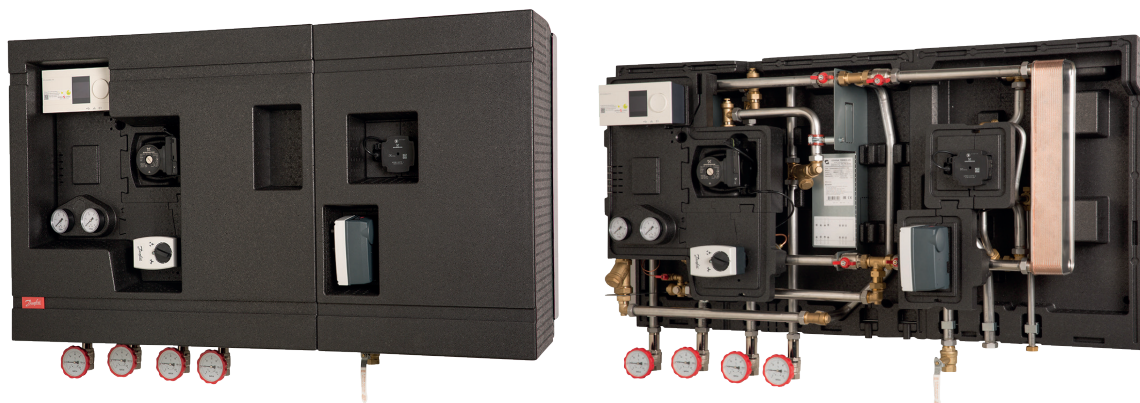


Fact sheet

# Termix Compact 28 VMTD-FI

Ultimate solution for space heating and domestic hot water.



## Space heating and domestic hot water (DHW)

The Termix Compact 28 VMTD-FI is a complete unit for space heating and domestic hot water for direct district heating in large buildings such as sports centres, schools, blocks of flats etc.

## Efficient heat exchanger

The substation is fitted with an efficient plate heat exchanger, which ensures the most favourable heat extraction and achieves optimum comfort and operating economy.

## Electronic regulation

The Termix Compact 28 VMTD-FI is built with a plate heat exchanger for domestic hot water and direct system regulation for space heating. The electronic control is pre-set from the factory. Electrical components are connected, and the unit is equipped with a plug for 230 V a.c. As standard, each circuit is also supplied with its own flow controller. This allows the greatest degree of individual control, thus preventing oscillation at different loads. It is recommended that dynam-

ic balancing valves be installed in the building's risers in the heat supply and on the heating system's return line immediately before the unit.

## Easy installation

The unit consists of two modules, one for space heating and one for domestic hot water production, which is easily assembled into one single module. This modular design makes work during installation significantly easier, as the weight is split between two modules during handling.

## Flexible solution

Pipe connection can be made from either the top or bottom, which makes this solution highly flexible. At the same time, both space and time are saved when installing.

1 AVQM = self-acting flow controller with integrated with integrated control valve

## Minimal heat loss

Complete insulation of the unit ensures minimal heat loss.

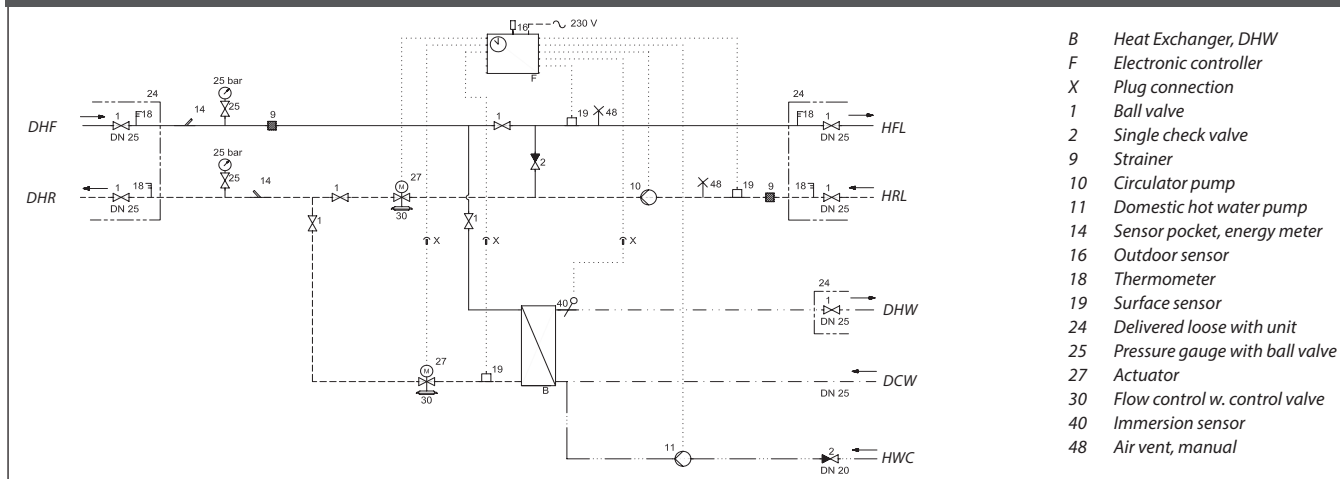
## Reliable and easy to install

Termix Compact 28 VMTD-FI is a operationally reliable. A quality product manufactured in Denmark, which is easy to install and quickly commissioned.

## FEATURES AND BENEFITS

- Fully insulated
- Flexible connections
- Substations for apartment buildings
- Direct heating with mixing loop
- Electronic control for heating and DHW
- Operates independently of differential pressure and flow temperature
- Pipes and plate heat exchanger made of stainless steel
- Capacity: 85-150 kW DHW, 75-115 kW HE

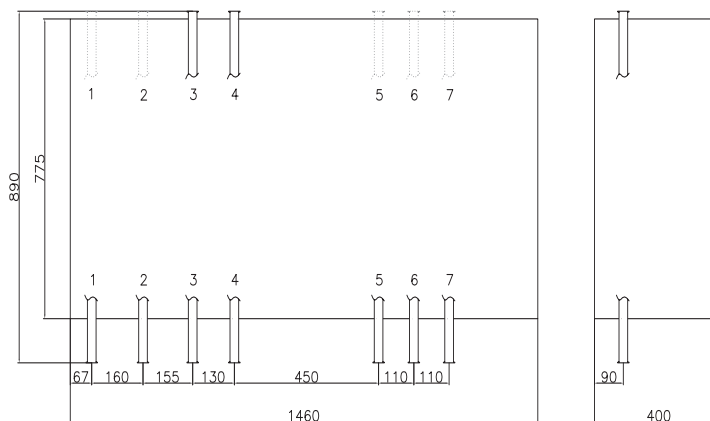
## CIRCUIT DIAGRAM - EXAMPLE



## Technical parameters:

|                          |                          |
|--------------------------|--------------------------|
| Exchanger:               | Stainless steel AISI 316 |
| Test pressure exchanger: | 25 bar                   |
| Working pressure:        | 16 bar                   |
| Valve type:              | Danfoss                  |
| Operating temperature:   | Max. 110°C               |
| Soldering material:      | Copper                   |
| Weight:                  | 80 kg                    |

## Dimensions (mm):



## Connections:

1. Primary flow line 1" RG int.
2. Primary return line 1" RG int.
3. Heating flow line 1" RG int.
4. Heating return line 1" RG int.
5. Domestic hot water 3/4" RG int.
6. Domestic cold water 3/4" RG int.
7. DHW circulation 3/4" RG int.

## Options:

Fitting piece for energy meter

## DHW: CAPACITY EXAMPLES

| Substation type:<br>Termix<br>Compact 28<br>VMTD-FI | DHW Capacity<br>[kW] | Supply flow<br>primary [°C] | Return flow<br>primary [°C] | Pressure loss<br>primary [kPa] | DHW tempera-<br>ture [°C] |
|---|----------------------|-----------------------------|-----------------------------|--------------------------------|---------------------------|
| VMTD 1-x  | 85                   | 65                          | 23,02                       | 50                             | 10/50                     |
|   | 90                   | 70                          | 24,83                       | 50                             | 10/55                     |
|   | 100                  | 70                          | 28,61                       | 50                             | 5/60                      |
| VMTD 2-x  | 100                  | 65                          | 21,93                       | 50                             | 10/50                     |
|   | 110                  | 70                          | 23,92                       | 50                             | 10/55                     |
|   | 120                  | 70                          | 27,16                       | 50                             | 5/60                      |
| VMTD 3-x  | 125                  | 65                          | 22,35                       | 50                             | 10/50                     |
|   | 130                  | 70                          | 22,35                       | 50                             | 10/55                     |
|   | 130                  | 70                          | 26,27                       | 50                             | 5/60                      |
| VMTD 4-x  | 140                  | 65                          | 20,91                       | 50                             | 10/50                     |
|   | 150                  | 70                          | 22,57                       | 50                             | 10/55                     |
|   | 145                  | 70                          | 24,2                        | 50                             | 5/60                      |

\*Heat meter not included.

## HEATING: CAPACITY EXAMPLES

| Substation type:<br>Termix<br>Compact 28<br>VMTD-FI | Heating Capacity<br>[kW] | Heating circuit<br>secondary [°C] | Flow rate<br>secondary<br>[l/h] |
|---|--------------------------|-----------------------------------|---------------------------------|
| VMTD x-1  | 75                       | 35/60                             | 2150                            |
| VMTD x-2  | 95                       | 35/60                             | 2723                            |
| VMTD x-3  | 105                      | 35/60                             | 3010                            |
| VMTD x-4  | 115                      | 35/60                             | 3297                            |

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