

# TERMOMAT 12

## – fully featured heat charging package

### TERMOMAT 12 is an electronic heat charging control package for heating systems with double burners and a thermal storage tank.

In addition to the charging controller, Termomat 12 includes the valves and circulation pumps.

When the wood burning begins, Termomat 12 adjusts two charging pumps and ensures that energy is always transferred to the right direction, from the burner to the boiler or vice versa. The package includes a TERMOVAR charging valve which ensures that the burner burns at a high temperature during charging and thus guarantees the optimal efficiency and a longer burner life. In addition, the burner remains cleaner as the water boiling inside the boiler unit is prevented.

When the thermal storage is fully charged and the burning is over, the charging unit starts to transfer the heat back to the burner according to the consumption of the building. The unit is designed to preserve the thermal layering within the tank and it uses a unique dual function valve with bi-directional flow and a non-return valve. When the thermal tank and boiler temperatures drop below a set point, the device starts additional heating. The advantage of Termomat 12 is full control and the expensive additional heating can be set not to be used for charging the thermal tank but only the boiler if required.

Termomat 12 is designed to be an extremely energy-efficient and easy-to-use complete heat charging unit. Termomat 12 brings significant savings and flexibility when a double heat source is used, as the thermal tank is charged in the most affordable way at all times.

### Installation

Termomat 12 temperature sensors have plug-in connectors

### Order information

| Code | EAN           | Item   |
|------|---------------|--|
| 8012 | 6418733180120 | TERMOMAT 12: charging controller package with a valve kit and two circulation pumps                                |
| 8011 | 6418733180113 | TERMOMAT 11: charging controller + charging valve / double non-return valve with ball valves, no circulating pumps |
| 8001 | 6418733180014 | TERMOMAT 1: charging controller without the valve kit and circulating pumps  |



Circulation pumps

Valve kit



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for fast and secure installation. The device is equipped with a digital temperature display for the thermal tank and the boiler. The boiler's charging temperature can be adjusted between 40–80 °C. The unit has also an additional temperature control for a secondary heat source.

## Technical data

**Type of control** On-off, microprocessor

**Voltage** 230 VAC 50/60 Hz

**Power consumption** 5 VA

**Output relay contact ratings** 2 A 250 VAC

**Temperature difference** T 1 ... 6°C, adjustable

**Temperature range of sensors**

T1 -30°C ... +110°C

T2 -30°C ... +110°C

T3 -40°C ... +175°C

**Length of sensors** On delivery T1, T2 = 3 m, T3= 20 m

**Temperature display** -9°C ... +140°C, 13 mm, three digits

**High temperature limiter** Tmax +20°C ... +100°C, adjustable

**Protection class** IP 41

**Dimensions** 75 x 90 x 130 mm

**Weight** 0,7 kg

## Delivery content

- 1 Electronic heating controller TM-1 G3 with a digital display for two temperatures
- 2 Two temperature sensors with cables of 3 and 5 m
- 3 Two sensor pockets R 1/2", length of 90 mm
- 4 Valve kit with a charging valve (72 °C) equipped with bi-directional flow and three ball valves
- 5 Two Grundfos UPS 25–60 circulation pumps

