Modern 24 V DC trench heaters

Trench heaters are popular! They can overcome architectural, functional and aesthetic shortcomings of classic heating systems. The new generation of Termo trench heaters expands their advantages even further.

Location and operation

Trench heaters are embedded directly in the floor, do not disturb the interior space design and do not occupy any space that could otherwise be used for furniture. Trench heaters take in cold air from the surrounding environment - this air enters the trench heaters either by means of natural circulation or it is displaced using the installed tangential fans.

A heat exchanger is a basic component of each trench heater. This is where the air is heated and subsequently rises back into the room.

The air forms a heat curtain in front of a cool glass surface, separates this cool surface from the inner space of the room and prevents air humidity condensation on its surface.

Application

- Modern building complexes
- Low-energy houses and Green Energy projects
- Areas with large glass surfaces
- Commercial and administration buildings, business centers, lobbies and other public spaces
- Residential buildings – heating of living quarters, corridors, halls and winter gardens
Why the TERMO heating trench heaters?

- Wide range of types and dimensions
- Silent operation
- Use in low-temperature systems and heat-pump systems
- Maximum coverage of the heat exchanger by fan rotors
- Very low working voltage
- BMS
- Easy implementation in the BMS systems
- Continuous control of trench heaters with fans
- Low energy consumption
- The grille constitutes the final design – invisible internal components

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**Safe operation**

Very low working voltage. All trench heater elements use the safe 24 V DC voltage.

**Higher performance than ever before**

Use in low-temperature systems and heat-pump systems. The more powerful models provide sufficient heat output even at low temperatures of inlet and outlet water.

**Full coverage**

Maximum coverage of the heat exchanger by fan rotors. Optimized performance of the New Practic trench heaters at low fan speeds.

**Silent operation**

High-performance trench heaters with silent operation. Inaudible operation using modern 24 V DC fans with long rotors.
Hidden elegance

The grille constitutes the final design – invisible internal components. All trench heater internal components are black and they are hidden after the installation into the floor - the appearance is determined by the grille.

Economical operation

Low energy consumption. Fans with modern commutation motors (EC motors) feature very low power consumption.

Wide range of types and dimensions

Models with or without fans. Easy selection of a suitable New Practic trench heaters according to the design characteristics of the floor and the required performance.

Continuous control

Continuous control of trench heaters with fans. The fan continuously compensates the heat loss in the room, comfortable control via a digital thermostat.

Building Management Systems

Suitable for implementation into BMS with central control based on the KNX and other protocols, RTD thermostat (KN version) or direct connection 0 ... 10 V DC. RTD room thermostat or direct connection.

Control device

- Programmable 7-day timer
- Continuous fan control
- Backlit LCD

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- Remote control
- Independent temperature sensor
- Heat medium temperature sensor
Basic types of cover grilles

Transverse roll-up aluminium grilles
In NATUR, BRONZE and BLACK models, the transverse lamellas are spaced apart by plastic distance rollers. Anodized STAINLESS-STEEL grilles come with stainless-steel distance rollers.

Linear non-roll-up aluminium grilles
These aluminium lamellas are perforated lengthways and linked by a carrying steel bar.

Transverse non-roll-up aluminium low grilles
For low-type heaters. The aluminum lamellas are molded in longitudinal black plastic trim.

Transverse roll-up wooden grilles
Oak and beech wooden lamellas. The lamella surface is either raw or stained.

Transverse roll-up stainless steel grilles
20x10 mm brushed stainless-steel profiles, featuring robust design, strength and resilience.

High-resistance grille
A special thick-walled stainless-steel grille. Mechanical stress and abrasion resistant.