

TERRA



DESIGN **HEATING**

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BASIC INFORMATION

USE

Trench heaters are suitable for places with large glass facades. They are often installed in commercial and public buildings, shopping malls, halls and foyers as well as public spaces. They are also common in residential buildings, where they are used to heat living rooms, corridors, entrances and winter gardens.

PLACEMENT

Trench heaters are, as the word indicates, installed in the floor and therefore do not take up suitable space for furniture and do not interfere with the decor as traditional heaters can do. The final appearance of the floor convector depends on the visible floor grille. We have a wide selection of grills in anodised aluminum, wood and stainless steel.

OPERATION

Trench heaters with fan are controlled with a digital thermostat with continuous control. This ensures comfortable and economical operation at optimal thermal comfort and low noise level. All parts of the trench heater operate on a safe, direct voltage of 24 V DC.

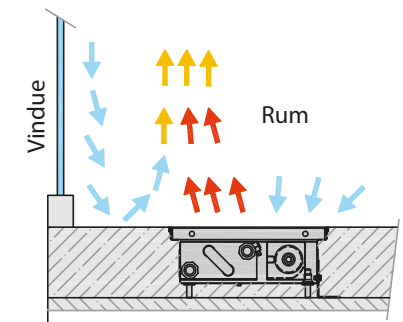
The low amount of water in the heat exchanger ensures fast heating to operating temperature. The trench heater provide heating at the moment it is needed without delay during start-up and without inertia when the requirement is canceled. By generating their own heat, electric heat exchangers also eliminate any potential heat loss in the pipes.





FUNCTION

A "thermal screen" is formed in front of the window pane that separates the cold surface from the warm indoor environment. At the same time, the air flow prevents condensation of humidity on the surface of the pane. The trench heater is installed in the floor with the heat exchanger closest to the window. The vertical and horizontal distribution of temperatures in the heated room is even, and ideal conditions are created to ensure optimal thermal comfort. The airflow is comparable to heat transmission provided by traditional heat exchangers located on the wall below the window. (The reverse arrangement in the floor is possible, where the heat exchanger is placed towards the center of the room and the fan by the window).



LOW TEMPERATURE HEATING SYSTEMS

High-performance models with modern tangential fans 24 V DC EC enable implementation in low-temperature heating systems using thermal pumps and other environmentally friendly heat sources.

BMS

Trench heaters with EC fan technology combined with a modern digital thermostat can easily be integrated into building management systems (BMS). Communication with the overall system takes place either directly or via a thermostat with access to communication with the KNX protocol. For other systems it is possible to use protocol converters.

EC TECHNOLOGY

This technical development affects all areas of human activity and enables the fulfillment of the requirements for low energy consumption and safety of electrical appliances. Modern 24 V DC fans with electronically commutated (EC) motors are among the most important elements in trench heaters.

FEATURES OF 24V DC EC FAN

- Safe voltage at 24 V DC
- Low energy consumption calculated in watt units
- Comfortable continuous speed control using a voltage of 0 - 10 V DC Impulse to start the engine at low speeds
- Protective function when the rotor is stopped by an external influence
- Fan speed synchronization
- Long engine life with electronic control
- Easy implementation in complex control systems

The fans in Hudevad Terras trench heaters cover, with their rotors, the entire length of the heat exchanger. Even at low speeds, they achieve optimum performance and quiet operation.



is our brand for an environmentally friendly product with low consumption, economical operation, working on a safe DC voltage of 24 V DC



Fully electric trench heater



The trench heater includes an Al-Cu lamellar heat exchanger



Trench heater with fan, increased power with forced convection

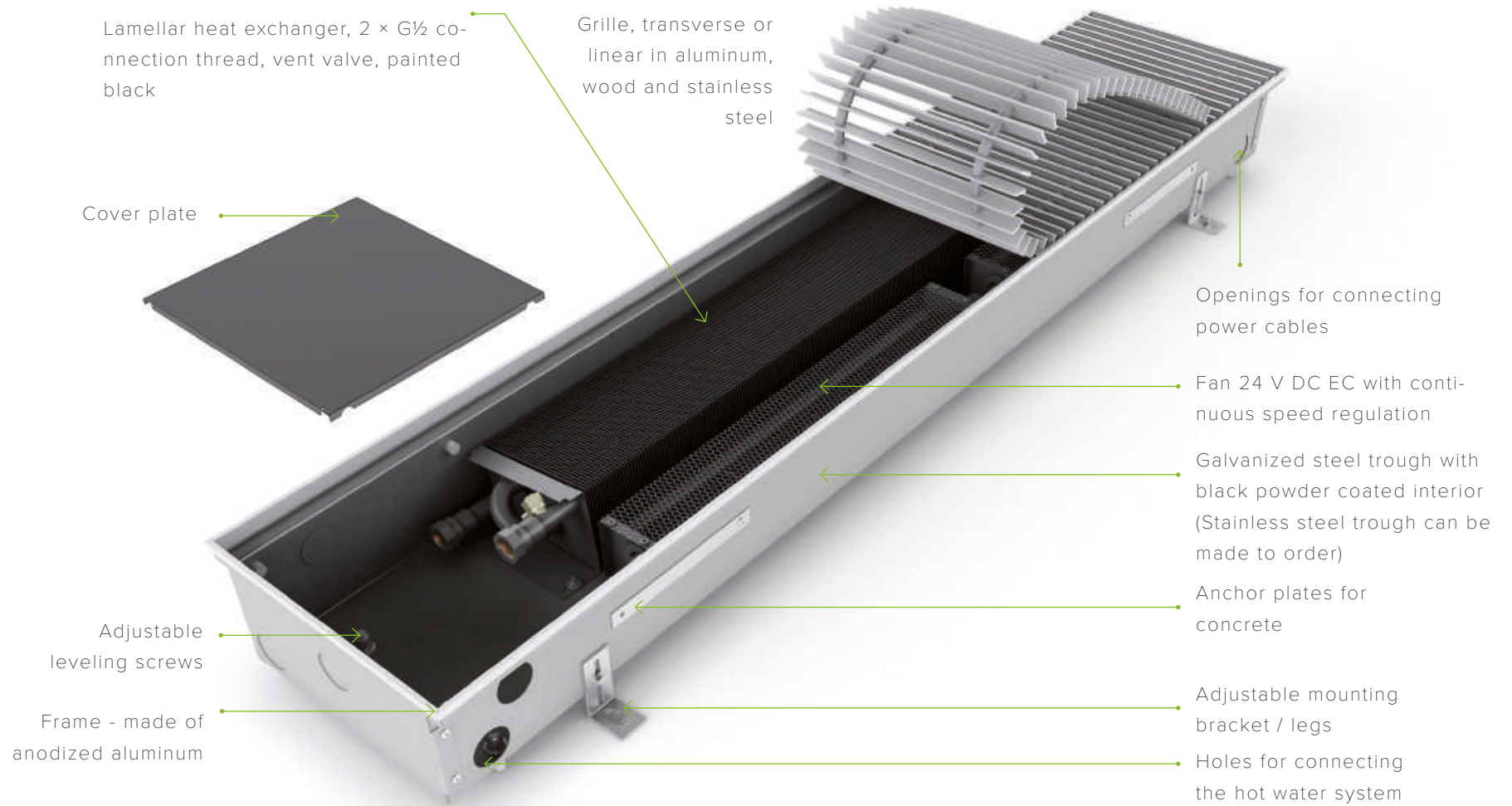


24V DC power supply installed in the trench heater



Heating, a trench heater for hot water system with forced circulation

TRENCH HEATER DESIGN



TERRA FAN

FAN ASSISTED TRENCH HEATER WITH LAMELLAR HEAT EXCHANGER

The Terra Fan trench heater, with forced convection via a fan, provides very good thermal output. This is achieved via installed fans with longitudinal tangential rotors that force air into a heat exchanger with separate lamellas. The fans are equipped with efficient electric (EC) motors that operate on the basis of a safe voltage of 24 V DC.

The motor has a very small power consumption. The fan speeds are controlled continuously with a control voltage of 0-10 V DC. The room thermostat ensures the correct operation of all the installed Terra Fan trench heater, compares the set and actual temperature in the room, opens the flow of heating medium in the heat exchanger and controls the fan speed according to the difference in temperatures and setting of operating mode.

The use of new technologies ensures the optimal heating of the room, which results in energy savings, an economical operation of the trench heater as well as a high efficiency and flexibility in heating. The trench heater is operated only with safe voltage, all components are supplied with direct current of 24 V.

The wide product range with many possible solutions, gives the architect or designer many options to choose a model with the required heat output for the composition of the required floor configuration. The required data are presented in data sheets under each product, including the acoustic parameters of the trench heater.



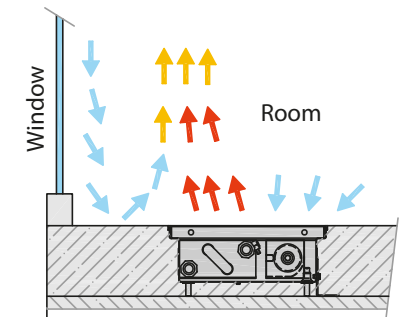


TERRA FAN SERIES WITH 24V DC FAN

Height	65 mm	80 mm	90 mm	110 mm	125 mm	140 mm
Width	175 mm	175 mm	175 mm	175 mm	-	-
	200 mm	200 mm	200 mm	200 mm	-	-
	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm
	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm
	-	-	425 mm	425 mm	425 mm	425 mm

PLACEMENT IN THE FLOOR

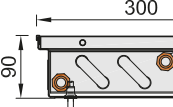
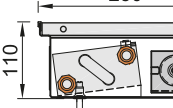
The trench heater is placed in the floor so that the heat exchanger is closer to the window side, while the fans are placed deeper into the room. The vertical and horizontal distribution of temperatures in the heated room is uniform, and the conditions are created, to provide ideal thermal comfort. The air flow can be compared to the heat transfer with classic heaters placed on the wall under the windows.





TERRA FAN

TRENCH HEATER TYPES

Width/ Height	175	200	250	300	425
65 Page 12					
80 Page 13					
90 Page 14					
110 Page 15					
125 Page 16					
140 Page 17					

TERRA FAN H: 65 MM



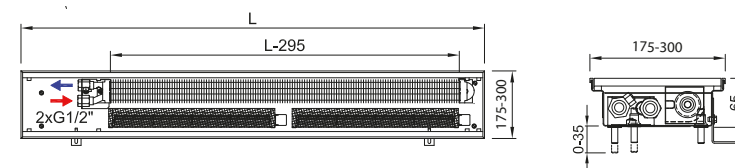
TECHNICAL DATA

Characteristics	Usable in apartments, houses, offices, administrative buildings The lowest and narrowest fanassisted trench heater High heat output Continuous speed control Quiet operation Normal electricity consumption 2 W / m Use in a dry environment
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	65 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 300 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

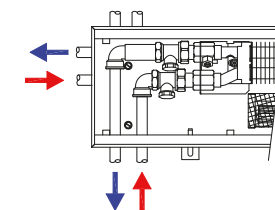
STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Fan	Modern tangential fan with 24VDC EC motor with high efficiency
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

TECHNICAL DRAWING



CONNECTIONS



ACCESSORIES



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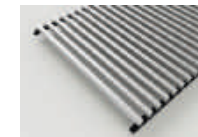


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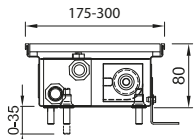
OPTIONS



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TERRA FAN H: 80 MM

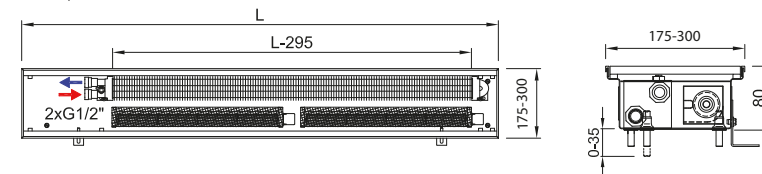
TECHNICAL DATA

Characteristics	Usable in apartments, houses, offices, administrative buildings Low and narrow fanassisted trench heater High heat output Continuous speed control Quiet operation Normal electricity consumption 2 W / m Use in a dry environment
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	80 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 300 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

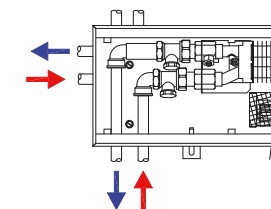
STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Fan	Modern tangential fan with 24VDC EC motor with high efficiency
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

TECHNICAL DRAWING



CONNECTIONS



ACCESSORIES



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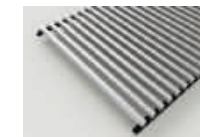


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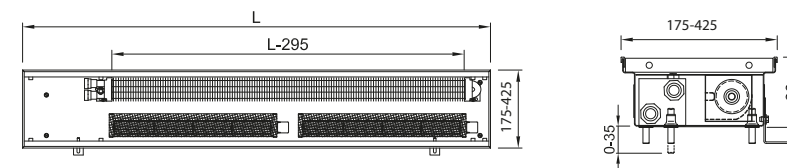
TERRA FAN H: 90 MM



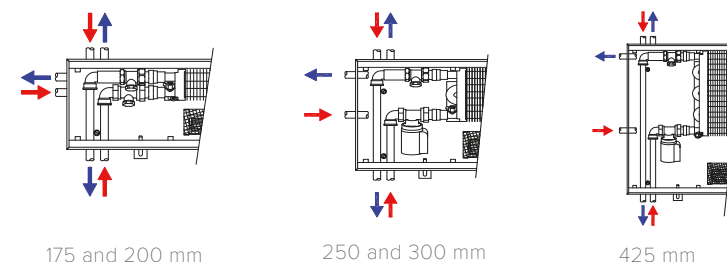
TECHNICAL DATA

Characteristics	Usable in apartments, houses, offices, administrative buildings Low and narrow fanassisted trench heater High heat output Continuous speed control Quiet operation Normal electricity consumption 2 W / m Use in a dry environment
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	90 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

TECHNICAL DRAWING



CONNECTIONS



ACCESSORIES

STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Fan	Modern tangential fan with 24VDC EC motor with high efficiency
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling



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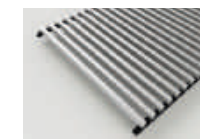


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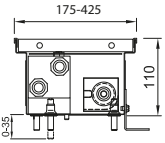
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TERRA FAN H: 110 MM

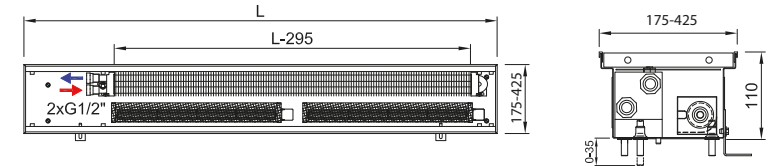
TECHNICAL DATA

Characteristics	Usable in apartments, houses, offices, administrative buildings Low and narrow fanassisted trench heater High heat output Continuous speed control Quiet operation Normal electricity consumption 2 W / m Use in a dry environment
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	110 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

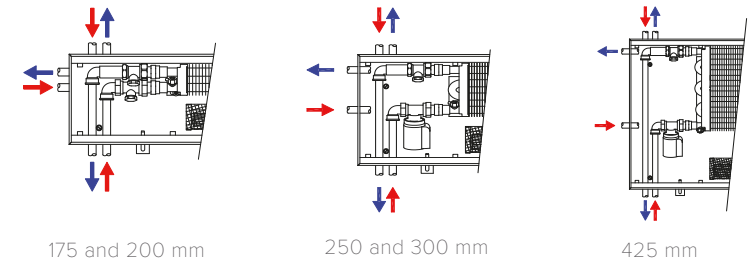
STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Fan	Modern tangential fan with 24VDC EC motor with high efficiency
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

TECHNICAL DRAWING



CONNECTIONS



ACCESSORIES



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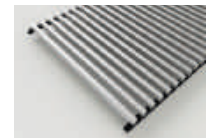


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OPTIONS

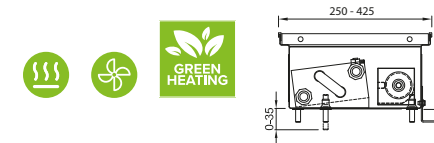


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TERRA FAN H: 125 MM



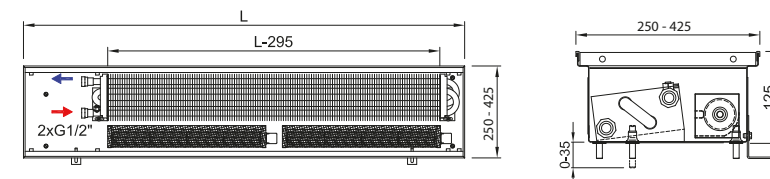
TECHNICAL DATA

Characteristics	Usable in houses, offices, administrative buildings Good balance between performance and size High heat output Continuous speed control Quiet operation Normal electricity consumption 2-3 W / m Use in a dry environment
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	125 mm
Length	700-4800 mm in 100 mm intervals
Width	250 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

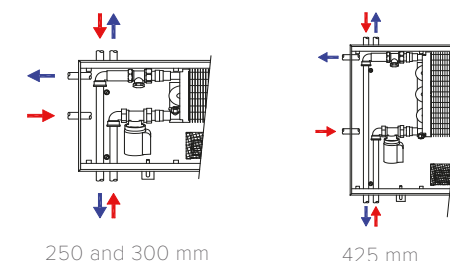
STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Fan	Modern tangential fan with 24VDC EC motor with high efficiency
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

TECHNICAL DRAWING



CONNECTIONS



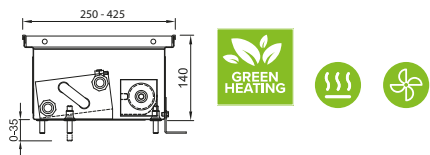
ACCESSORIES



OPTIONS



TERRA FAN H: 140 MM



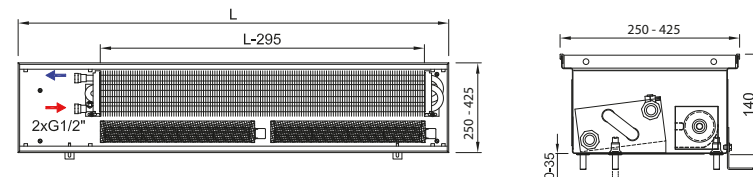
TECHNICAL DATA

Characteristics	Usable in houses, offices, administrative buildings Good balance between performance and size High heat output Continuous speed control Quiet operation Normal electricity consumption 2-3 W / m Use in a dry environment
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	140 mm
Length	700-4800 mm in 100 mm intervals
Width	250 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

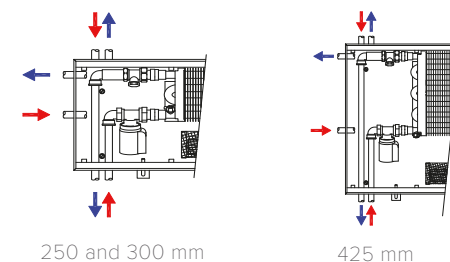
STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Fan	Modern tangential fan with 24VDC EC motor with high efficiency
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

TECHNICAL DRAWING



CONNECTIONS



ACCESSORIES



OPTIONS



TERRA POWER

FAN ASSISTED TRENCH HEATER WITH INSTALLED POWER SUPPLY OF 24 V DC

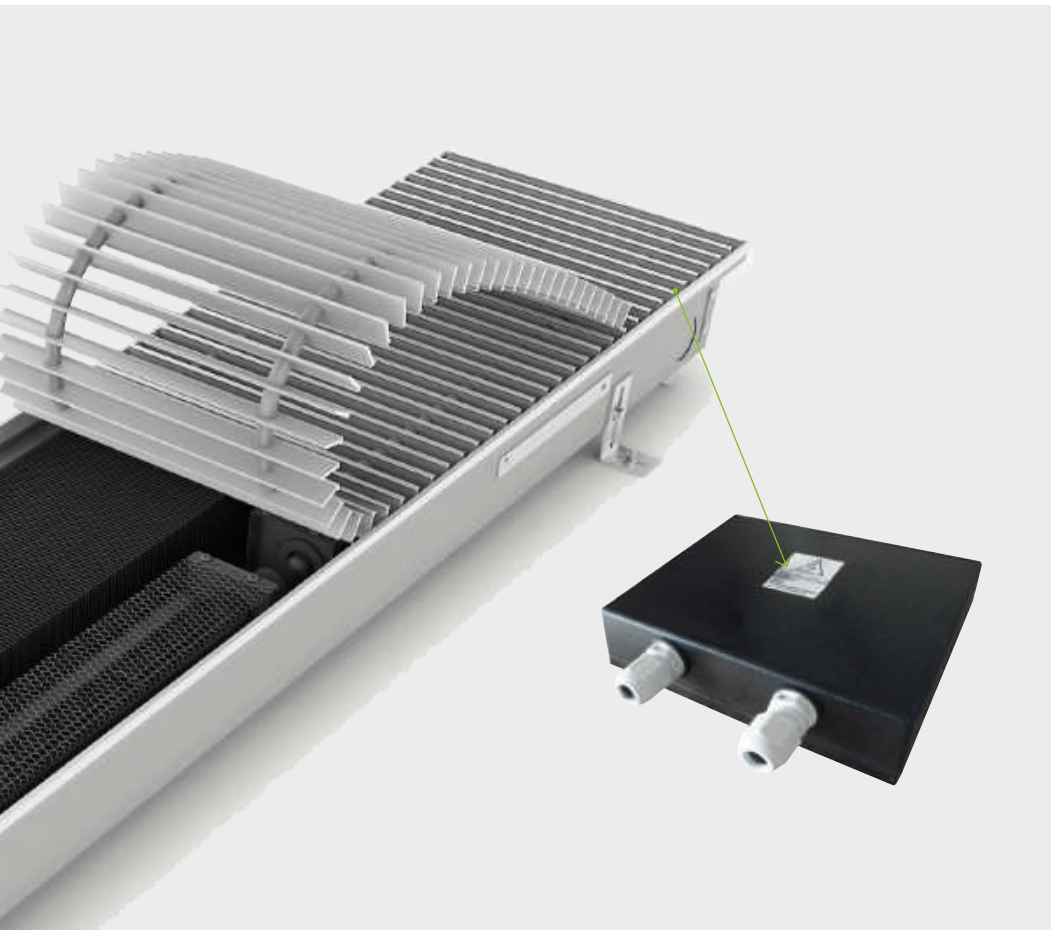
Our trench heater Terra Power is suitable for larger projects, where a large number of heaters are controlled simultaneously, and where the individual cable distances are in the tens of meters. Our Terra Fan becomes Terra Power as it has a built-in power supply.

The network does not have to be dimensioned according to the electrical output; the heaters get power from their own power supply. It also simplifies those projects where it is not clear until the last minute how many heaters there will be in individual rooms (for example, depending on floor space rented in shopping malls). The connections can be made flexible, individual units can be easily separated and finished with a room thermostat.

ADVANTAGES

- Easy connection of a large number of heaters
- Connection at long distances
- Connection with IP67 electrical protection
- Insignificant voltage loss
- Easy installation in smart buildings
- Model range identical to Terra Fan trench heaters
- Length 900-4800 mm (in 100 mm intervals)





APPLICATION

- Shopping malls
- Administration buildings
- Leisure and sports complexes
- Fitness centers, wellness
- Conference rooms
- Restaurants and cafes
- Hotels

TERRA POWER SERIES WITH 24 V DC POWER SUPPLY

Height (mm)	65 mm	80 mm	90 mm	110 mm	125 mm	140 mm
Width	-	175 mm	175 mm	175 mm	-	-
	-	200 mm	200 mm	200 mm	-	-
	250 mm	250 mm	250 mm	250 mm	250 mm	250 mm
	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm
	-	-	425 mm	425 mm	425 mm	425 mm

DESIGN

A power supply is placed in the trench heater, which converts the main voltage of 230 V AC to a low DC voltage of 24 V DC. Connection safety is ensured by components with IP67 electrical protection, which can even withstand immersion in water. All elements inside the Trench heater - the tangential Fan and the electro-thermal actuator - operate on a safe DC voltage. The same applies to the RTD201 room thermostat.

OUTPUT

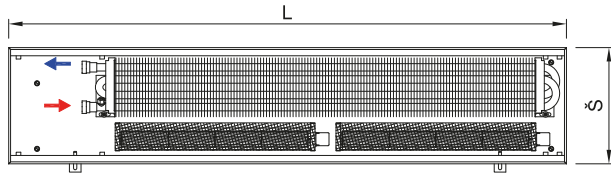
In the output tables for the Terra Power trench heater, parameters for the 200 mm shorter heater must be taken into consideration. Due to the fan's large coverage of the heat exchanger, the change in performance is generally not significant. The trench heater achieves its original performance with a small increase in fan speed, which is activated by continuous control of the thermostat.

Length L [mm]	Speed [-] / Heat output [W]			
	1	2	3	4 max.
1400	826 W	1 748 W	2 302 W	2 457 W
1500	910 W	1 927 W	2 536 W	2 708 W
Terra Power 1600	991 W	2 098 W	2 762 W	2 949 W
1700	991 W	2 098 W	2 762 W	2 949 W
Terra Fan 1800	1 146 W	2 426 W	3 194 W	3 410 W
1900	1 244 W	2 633 W	3 466 W	3 701 W
2000	1 328 W	2 811 W	3 701 W	3 952 W

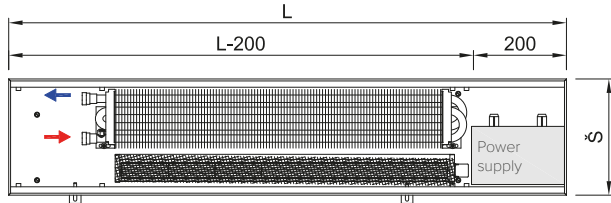
ASSEMBLY

The required space for the installed power supply is 200 mm. For the same trench heater, the installed elements are therefore identical to the 200 mm shorter Terra Fan trench heater. The installation of the Terra Power trench heater and its connection to the heating system is therefore also the same as with standard trench heaters.

The difference between Terra Fan and Terra Power (with power supply)



Hudevad Terra Power with installed power supply



REGULATION

For the trench heater to work properly, the control and regulation devices must be added. The room temperature is assessed by the room thermostat (RTD201), which controls the fan speed and the flow of the heating medium through the exchanger. The flow is regulated by means of the electrothermal actuator Z-TS24, which opens or closes the Z-TD001 thermostatic valve. The thermostatic valve is installed at the entrance to the heat exchanger. For correct adjustment of the flow of the heating medium, it is necessary to install and set the Z-RD001 LockShield valve at the end of the heat exchanger

If more than 10 Trench heaters are installed, the RL10 relay for opening additional actuators is included.

Fans with motors with EC technology are controlled by a voltage of 0-10 V DC, and electrothermal actuators are controlled with a switching voltage of 24 V DC. Such a control enables easy integration in buildings with a central control of BMS (Building Management System).

CONTROL UNITS

The following control units can be used for Terra Power trench heaters



Digital thermostat
RTD201



Electrothermal actuator
Z-TS24



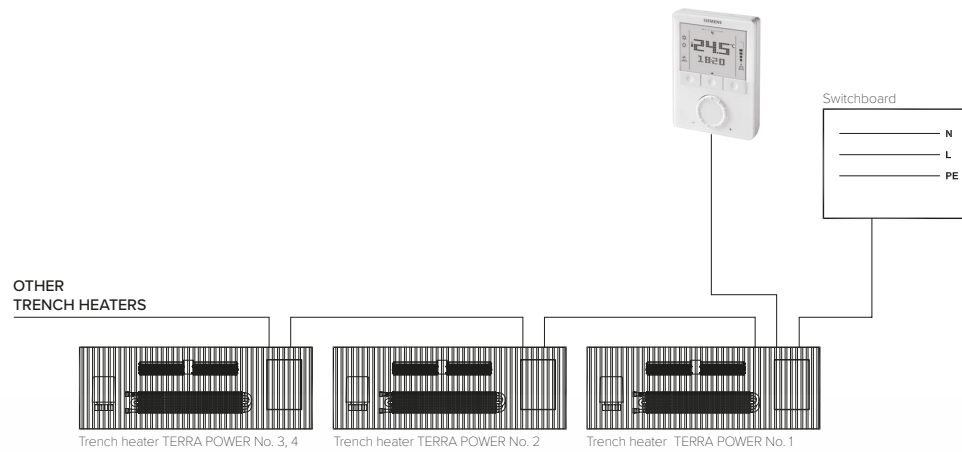
Thermostatic valve
Z-TD001



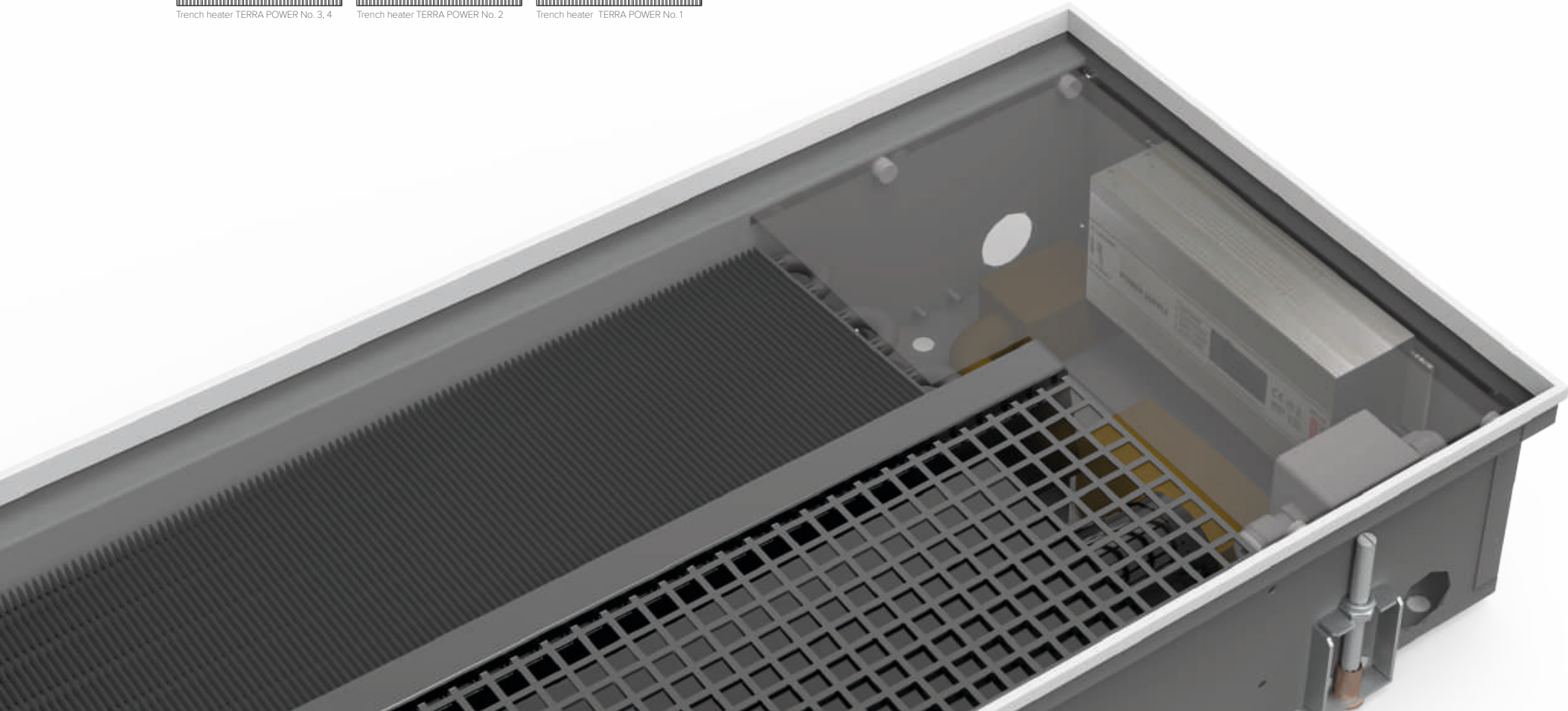
LockShield valve
Z-RD001

Further information on accessories can be found on page 44.

CIRCUIT DIAGRAM



An alternating voltage of 230 V AC is supplied to the trench heater with power supply. It is converted to a safe voltage of 24 V DC. All the elements of the trench heater (Fans, electrothermal actuators and the room thermostat) then work with it.



TERRA STANDARD

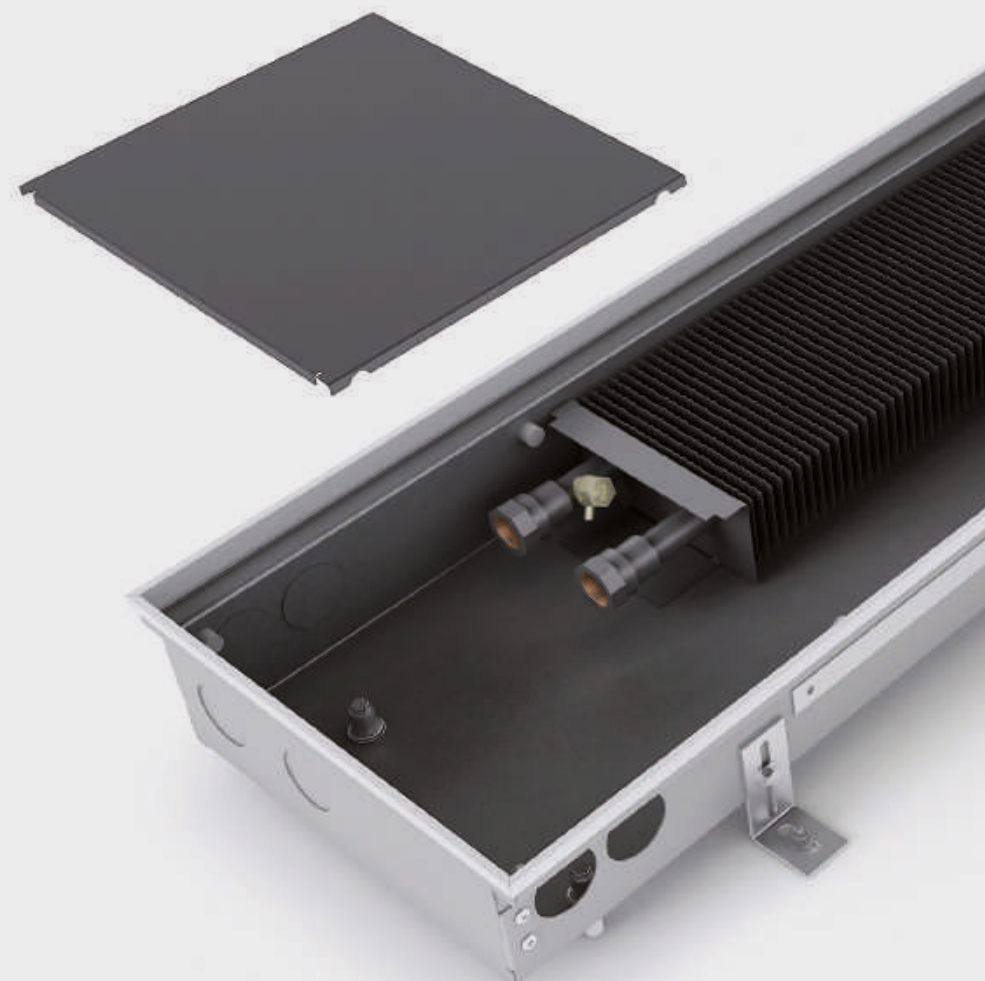
TRENCH HEATER WITH NATURAL CONVECTION AND LAMELLAR HEAT EXCHANGER

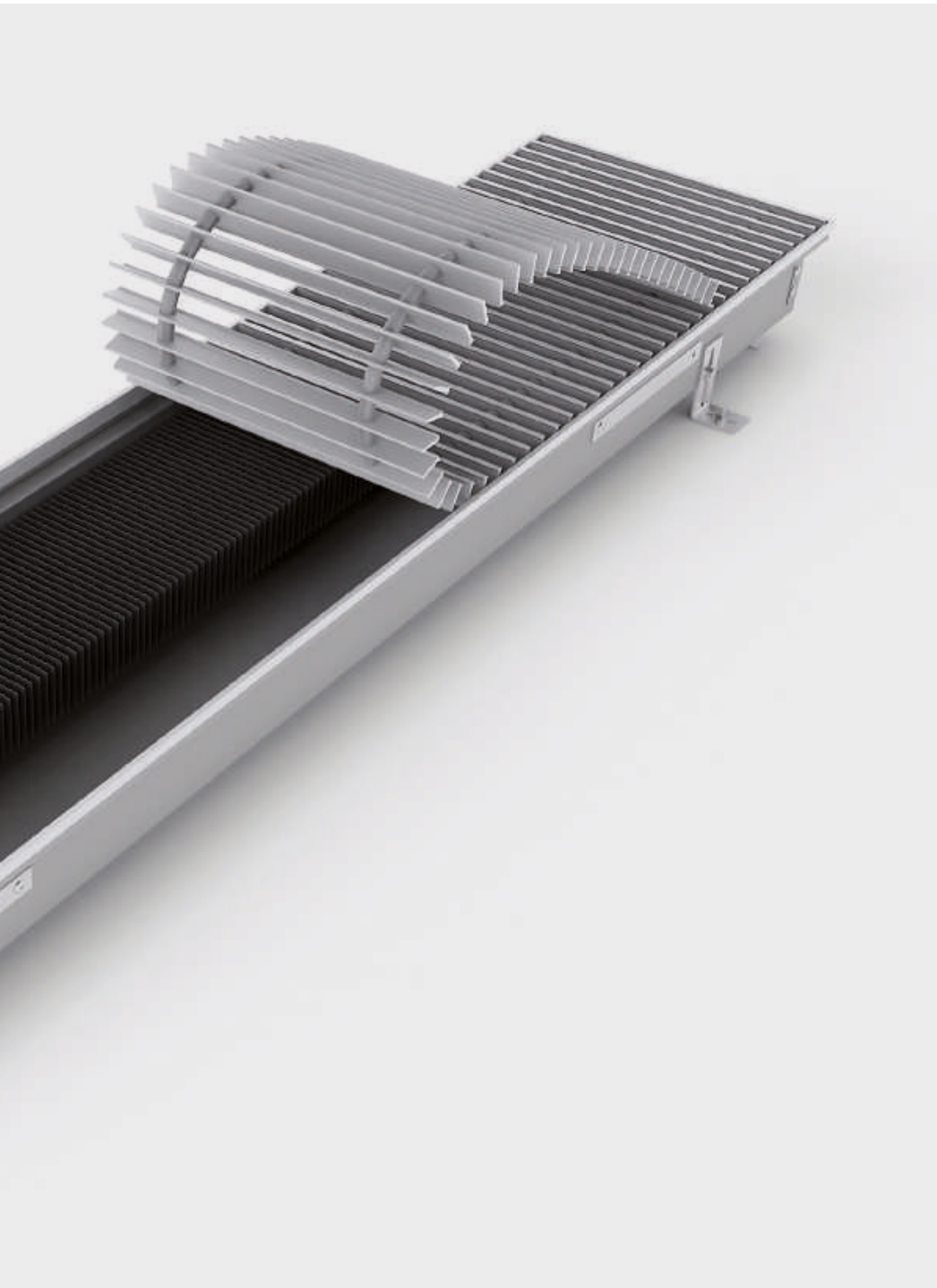
Hudevad Terra Standard Trench heaters with natural convection are installed under windows that cover the entire building facade. The trench heaters form a thermal barrier to keep the flow of cold air from the window surface. Part of the hot air is led inwards and heats up the home/use area.

The trench heaters are usually used as extra heating combined with other types of heating. However, if the heat output of the trench heaters is sufficient, they can also be used as the main heating system.

Terra Standard is also suitable for adjusting temperatures in entrances, commercial areas and long corridors on e.g. hospitals, schools and administration buildings.

A large selection of trench heater heights and widths gives the architect or designer many options to adapt the model to the required heat output in the floor configuration. The required data are presented in data sheets for the individual products.



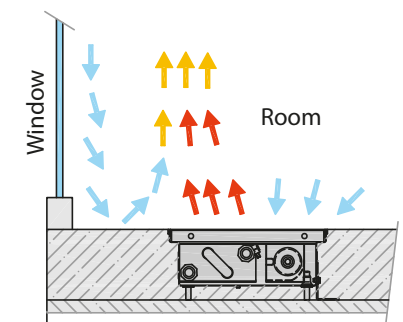


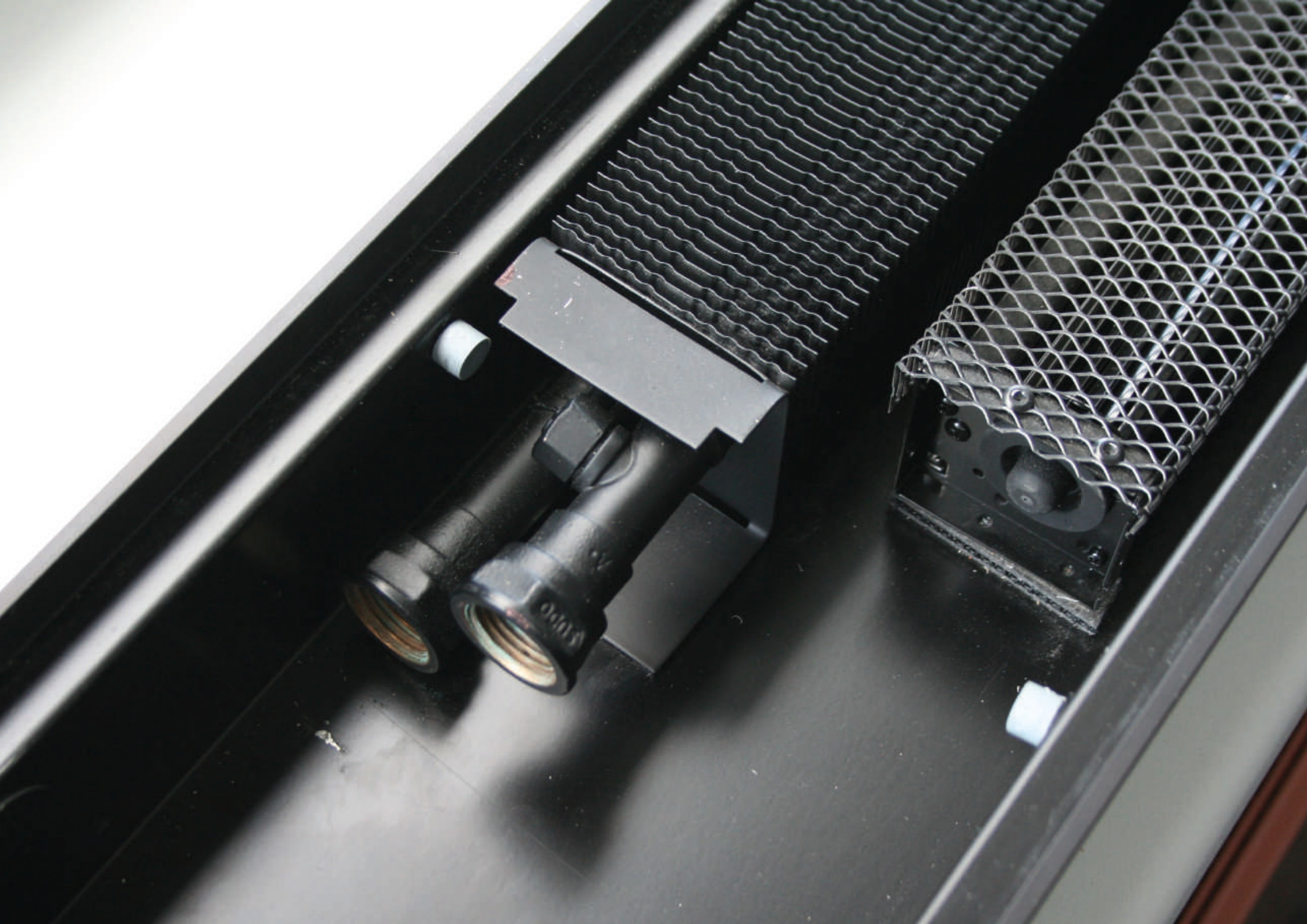
TERRA STANDARD SERIES WITH NATURAL CONVECTION

Height (mm)	80 mm	90 mm	110 mm	125 mm	140mm,	165 mm	200 mm
Width	-	175 mm	175 mm	175 mm	175 mm	-	-
	-	200 mm	200 mm	200 mm	200 mm	-	-
	250 mm	250 mm	250 mm	250 mm	250 mm	-	-
	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm
	-	350 mm	350 mm	350 mm	350 mm	350 mm	350 mm
	-	425 mm	425 mm	425 mm	425 mm	425 mm	425 mm

PLACEMENT IN THE FLOOR

The trench heater is placed in the floor so that the heat exchanger is closest to the window side. The vertical and horizontal distribution of temperatures in the heated room is uniform and the conditions are created to provide thermal comfort. The air flow can be compared to the heat transfer with classic heat exchangers placed on the wall under the windows.



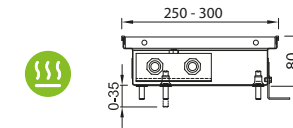


TERRA STANDARD

TRENCH HEATER TYPES

Width/ height mm	175	200	250	300	350	425
80 Page 26						
90 Page 27						
110 Page 28						
125 Page 29						
140 Page 30						
165 Page 31						
200 Page 32						

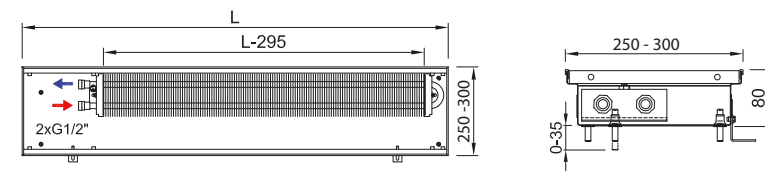
TERRA STANDARD H:80 MM



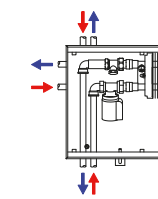
TECHNICAL DATA

Characteristics	Offices, corridors, halls, apartments, conservatories High heat output by natural convection Suitable for combination with other heat sources Use in a dry environment 2 pipe system
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	80 mm
Length	700-4800 mm in 100 mm intervals
Width	250 - 300 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

TECHNICAL DRAWING



CONNECTIONS



250 and 300 mm

STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

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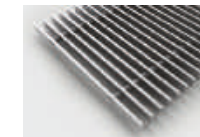


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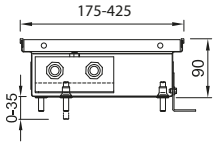


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TERRA STANDARD H:90 MM



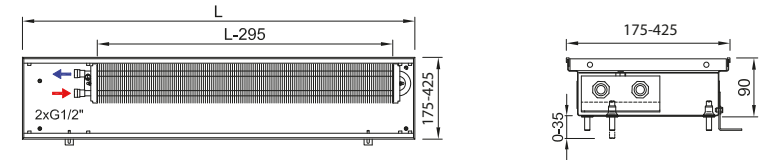
TECHNICAL DATA

Characteristics	Offices, corridors, halls, apartments, conservatories High heat output by natural convection Suitable for combination with other heat sources Use in a dry environment 2 pipe system
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	90 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

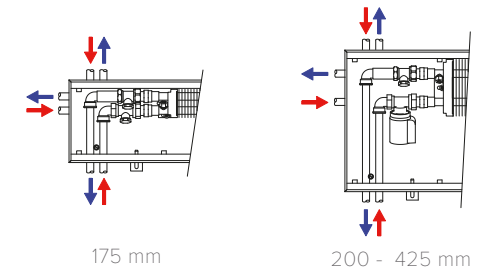
STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

TECHNICAL DRAWING



CONNECTIONS



175 mm

200 - 425 mm

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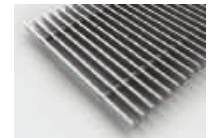


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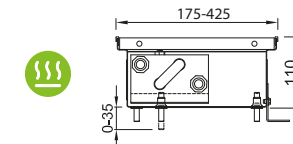


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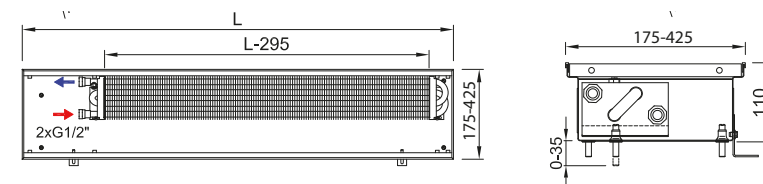
TERRA STANDARD H:110 MM



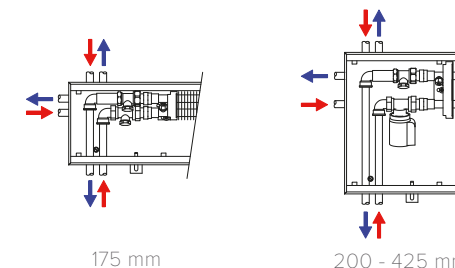
TECHNICAL DATA

Characteristics	Offices, corridors, halls, apartments, conservatories High heat output by natural convection Suitable for combination with other heat sources Use in a dry environment 2 pipe system
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	110 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

TECHNICAL DRAWING



CONNECTIONS



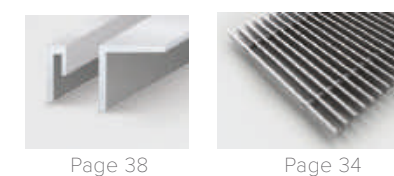
STANDARD EQUIPMENT

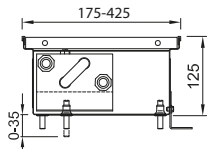
Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

ACCESSORIES



OPTIONS



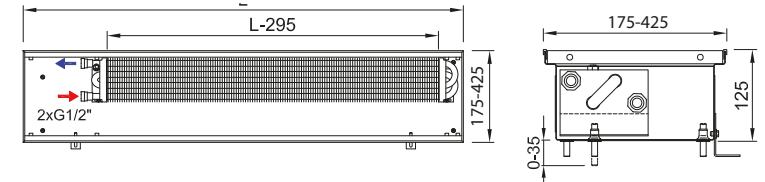


TERRA STANDARD H:125 MM

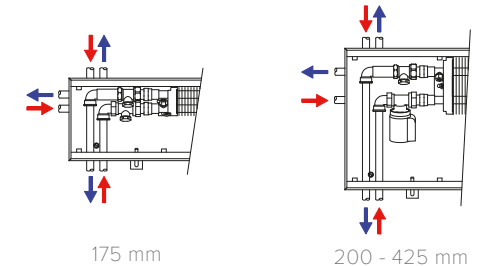
TECHNICAL DATA

Characteristics	Offices, corridors, halls, apartments, conservatories High heat output by natural convection Suitable for combination with other heat sources Use in a dry environment 2 pipe system
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	125 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

TECHNICAL DRAWING



CONNECTIONS



STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

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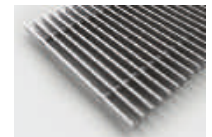


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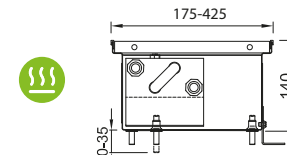


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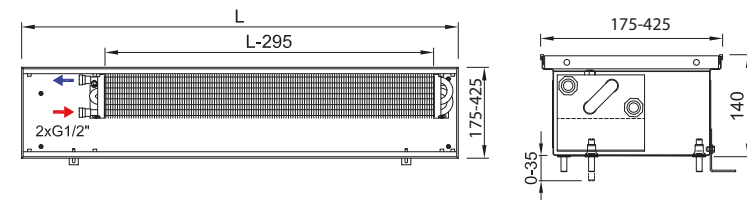
TERRA STANDARD H:140 MM



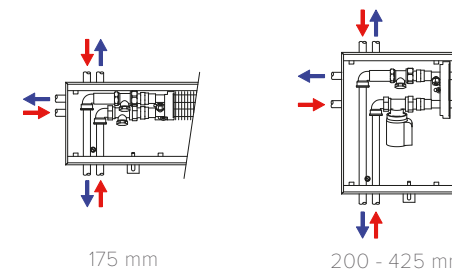
TECHNICAL DATA

Characteristics	Offices, corridors, halls, apartments, conservatories High heat output by natural convection Suitable for combination with other heat sources Use in a dry environment 2 pipe system
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	140 mm
Length	700-4800 mm in 100 mm intervals
Width	175 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

TECHNICAL DRAWING



CONNECTIONS



STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

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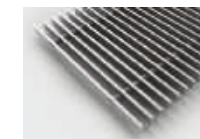


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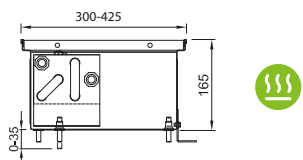
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TERRA STANDARD H:165 MM

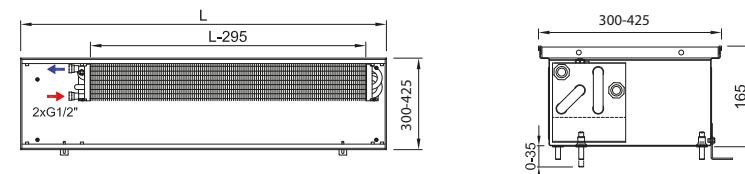
TECHNICAL DATA

Characteristics	Offices, corridors, halls, apartments, conservatories High heat output by natural convection Suitable for combination with other heat sources Use in a dry environment 2 pipe system
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	165 mm
Length	700-4800 mm in 100 mm intervals
Width	300 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

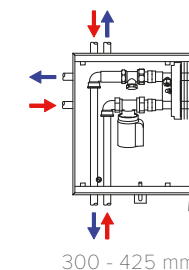
STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

TECHNICAL DRAWING



CONNECTIONS



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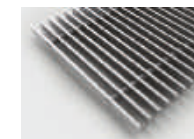


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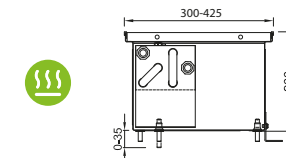


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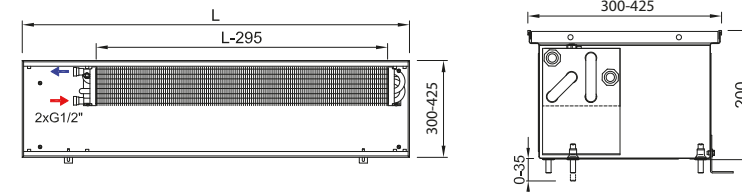
TERRA STANDARD H:200 MM



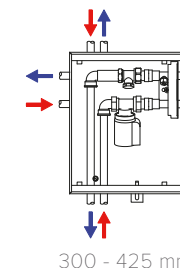
TECHNICAL DATA

Characteristics	Offices, corridors, halls, apartments, conservatories High heat output by natural convection Suitable for combination with other heat sources Use in a dry environment 2 pipe system
Max. oper. pressure	10 bar - in accordance with EN 442
Max. oper. temperature	110°C
Warranty	5 years on the housing, 10 years on heat exchangers 2 years on electrical parts
Protection	IP 20
Ambient conditions	Temperature +2 to + 40° C, Humidity = 20 to 70%
Height	200 mm
Length	700-4800 mm in 100 mm intervals
Width	300 - 425 mm
Type	Al-Cu Lamellar heat exchanger.
Connections	2 x G 1/2" inside

TECHNICAL DRAWING



CONNECTIONS



300 - 425 mm

STANDARD EQUIPMENT

Housing	Galvanized steel housing with surface finish and black spray paint inside, black cover plates over connections
Heat exchanger	Al-Cu lamellar plate heat exchanger with air valve, painted black
Grille	Grille according to the customer's choice
Frame	Made of anodized aluminum, type and color according to the customer's choice
Installation	Adjusting screws for setting up the housing, mounting brackets and step-by-step installation instructions, wiring diagram and user manual included
Packaging	Transport packaging for protection against damage during transportation and handling

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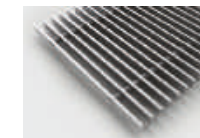


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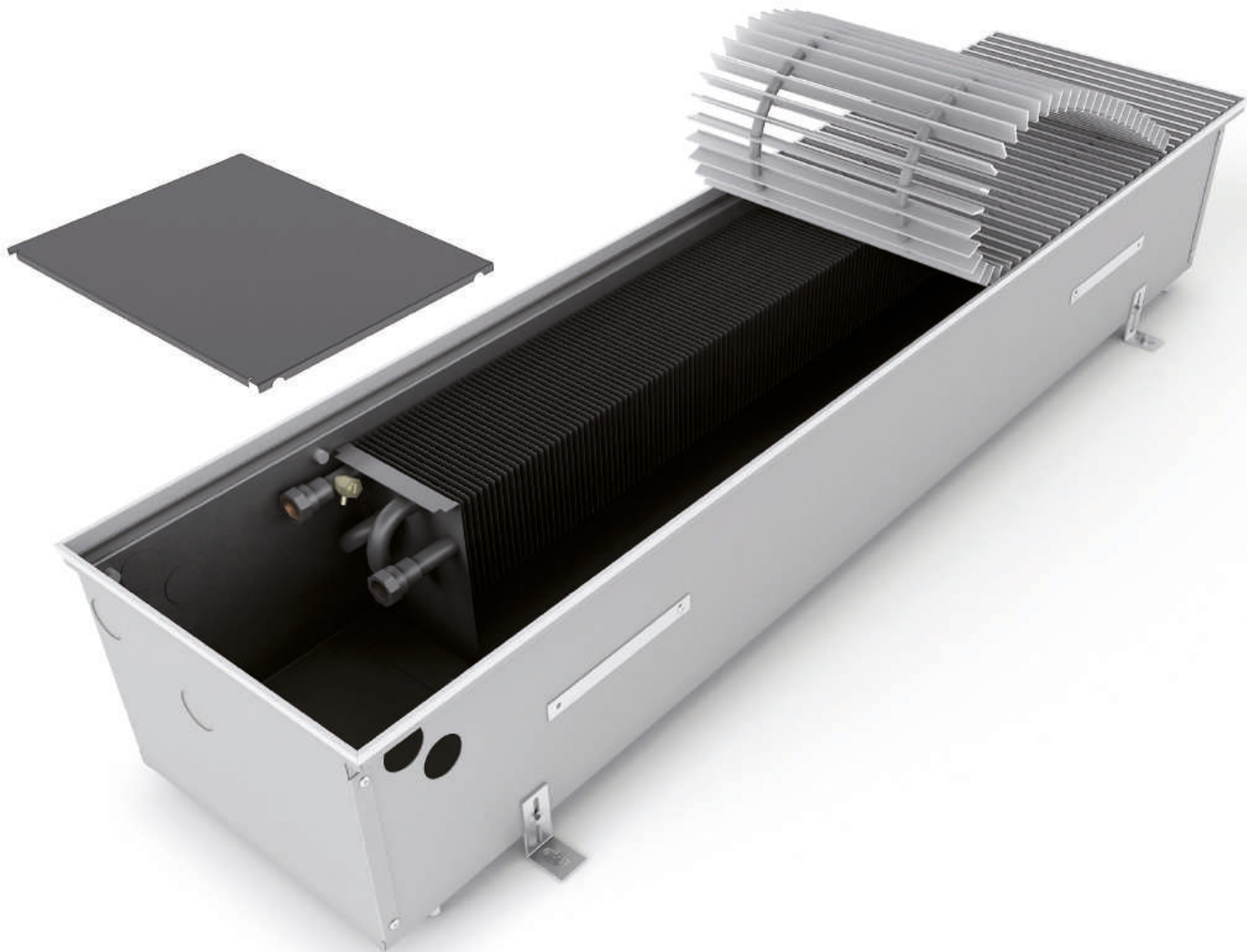
OPTIONS



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TERRA GRILLES

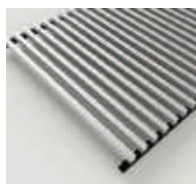
GRILLE TYPES

The slats in Hudevad Terra grilles are made of anodised aluminum. The surface is resistant and durable, and the different colors are strong and long lasting. The slats are available in the following colors: NATURAL, BRONZE, BLACK and STAINLESS STEEL.

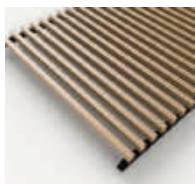
LOW ALUMINUM, GRILLE

Can be used for the low models of Terra FAN 65 mm and 80 mm.

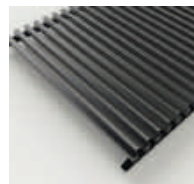
Enables installation in floor configurations with heights of 65 and 80 mm. The aluminum slats are mounted on longitudinal plastic holders in black. The grille is supplied in lengths of 520 mm sections and is mounted with a joint at the installation site to form the required length.



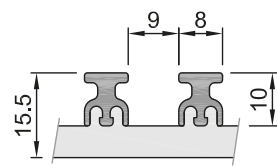
NATURAL - Type 15



BRONZE - Type 25



BLACK - Type 35



Grille - cross section

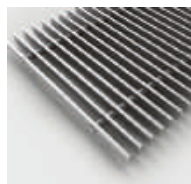
The low Grilles can be used for other types of floor convectors.

Please contact Hudevad's customer service or your Hudevad sales manager for this option.

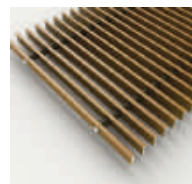


ALUMINUM, ROLL-UP GRILLES

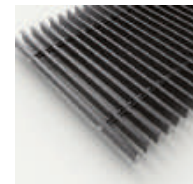
Joined with a continuous spring and with spacers in hardened plastic. The roll-up grille facilitates handling during installation and cleaning of the trench heater. The spacers are available in the following colors depending on the color of the Grille: NATURAL - silver, BRONZE - black, BLACK - black. Anodised aluminum grille for a STAINLESS finish is equipped with stainless steel spacers. Can also be delivered in different RAL colors according to our color chart.



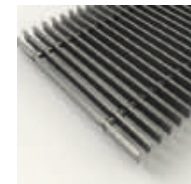
NATURAL - Type 11



BRONZE - Type 21



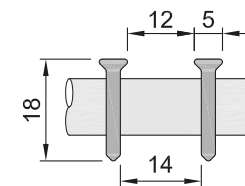
BLACK - Type 31



STAINLESS - Type 41

NOTE:

Grilles can't be used for the low versions of Terra Fan, height 65 and 80 mm



Grille - cross section

ALUMINUM, LINEAR, FIXED GRILLE

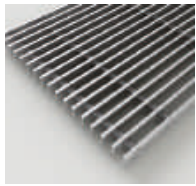
Aluminum, provided with holes along the length and assembled with a transverse rod. The grille is divided into several pieces for easier handling. The span between the slats is defined by the spacers in hardened plastic.

The spacers are available in the following colors depending on the color of the Grille:

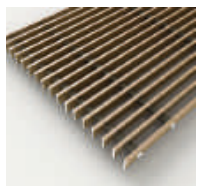
NATURAL - silver, BRONZE - black, BLACK - black.

Anodised aluminum grille for a STAINLESS finish is equipped with stainless steel spacers. Can also be delivered in different RAL colors according to our color chart.

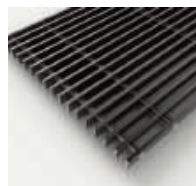
The maximum length of a single piece is 3000 mm. Larger lengths can be achieved by connecting several pieces together.



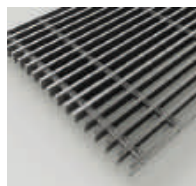
NATURAL - Type 12



BRONZE - Type 22



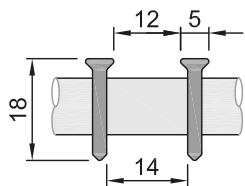
BLACK - Type 32



STAINLESS - Type 42

NOTE:

Grilles can't be used for the low versions of Terra Fan, height 65 and 80 mm



Grille - cross section

WOODEN ROLL-UP GRILLE

Our wooden grille is made as a roll-up version. The grilles are delivered in beech and oak in either natural or colored. The grilles are a fantastic complement to other interiors and can be further harmonized with a nice wooden floor. Additional surface treatment can be added to the wood to increase the durability and abrasion resistance of the wood grill.

Surface NATURE

Processed wood without further surface treatment. The wood can be left in a raw state or given a surface treatment to protect the wood. Based on the desired type of protection and the final appearance (harmonization with any interior), either stain, oil, wax or varnish can be used. The spacers for the NATURE version are beige.

Surface COLOR

The wood of the grilles are colored with a penetrating dye to ensure a darker brown color. This produces the structure of the wood and provides a basic surface protection. The spacers are black.

The maximum Length on woodenGrillee is 6500 mm.

NOTE:

Grilles can't be used for the low versions of Terra Fan, height 65 and 80 mm



BEECH NATURE - Type 61



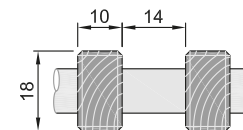
OAK NATURE - Type 63



COLORED BEECH - Type 62



COLORED OAK - Type 64



Grille - cross section

STAINLESS STEEL GRILLE

The grills are made of 20 × 10 mm profiles in stainless steel. This model has a robust design with strength and rigidity. The individual slats have a brushed steel finish that runs in the longitudinal direction.

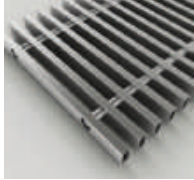
Car exhibition / showrooms

A fixed grille with a rigid structure designed primarily for use in car exhibitions and showrooms. The slats are connected by steel rods and are kept separate by stainless steel spacers. A solid layer of concrete must be poured under the housing to the trench heater where it is to be placed.

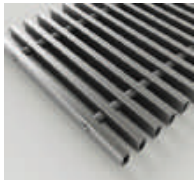
The maximum length per section in stainless steel (Type 51) is 2000 mm.

Design construction, roll-up grille

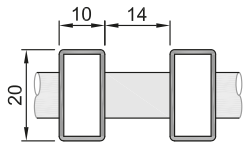
Decorated with spring-connected slats separated by gray-hardened plastic spacers. The maximum length per section of the roll-up stainless steel grille (Type 52) is 3000 mm



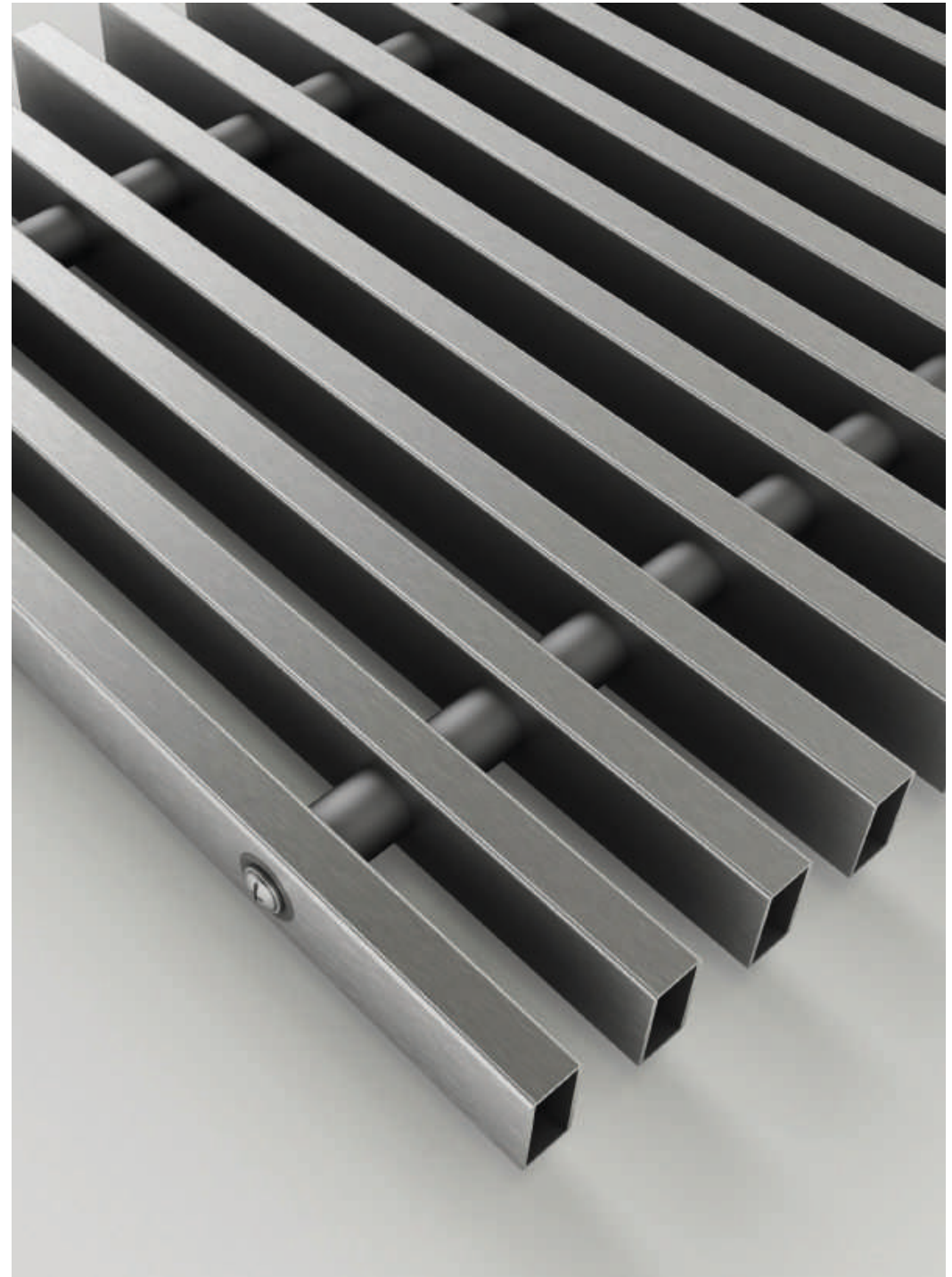
STAINLESS STEEL
CAR SHOWROOM -
Type 51



STAINLESS STEEL
ROLL UP -
Type 52



Grille - cross section



TERRA FRAMES

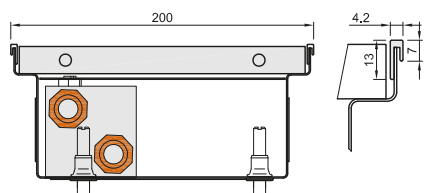
PERIPHERAL LEDGE

The frame forms the architectural and functional boundaries of the trench heater for installation in the floor. The frame in anodised aluminum is available in the colors "NATURE", "BRONZE" and "BLACK". The frames can be painted in other RAL colors according to our color chart. A frameless Trench heater can be supplied for a concealed installation in the floor.

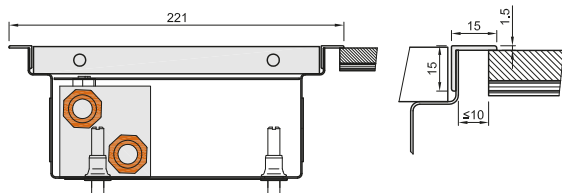
Frame "J"

A standard frame that forms a beautiful architectural frame around the trench heater. Used for installation in floors, with a tight "fit" to the Trench heater's Housing. Suitable for concrete floors, polished concrete floors, stone floors, linoleum, cork and more.

The frame is fixed during the manufacture of the trench heater.



Frame J - cross section



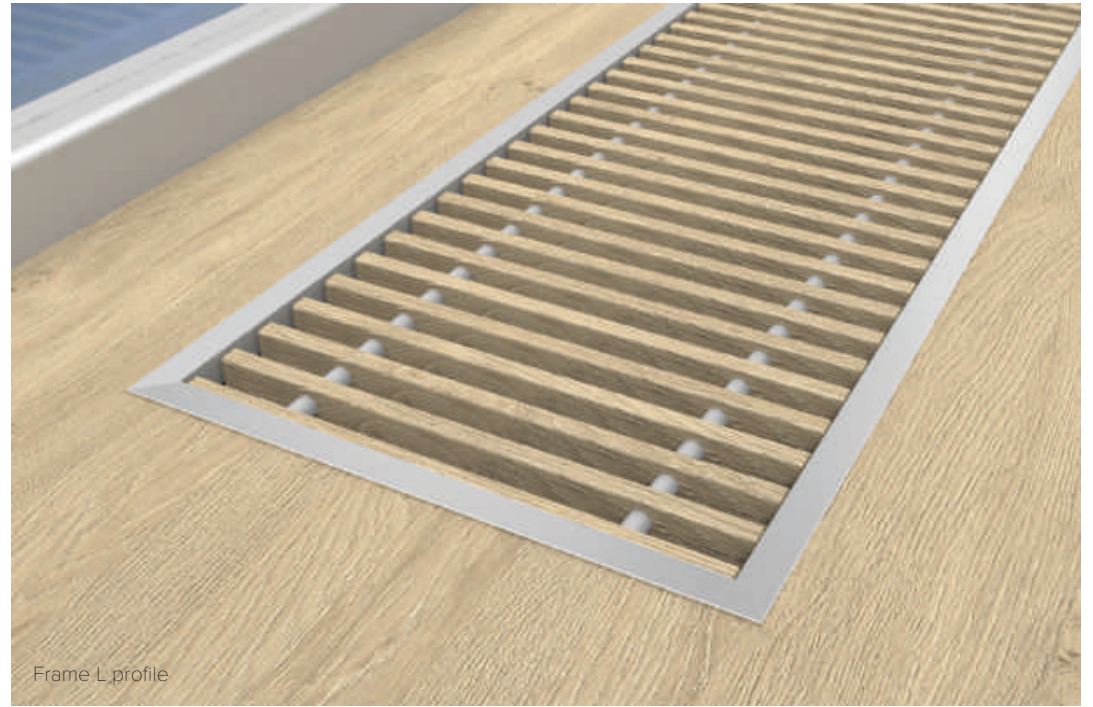
Frame L - cross section

Frame "L"

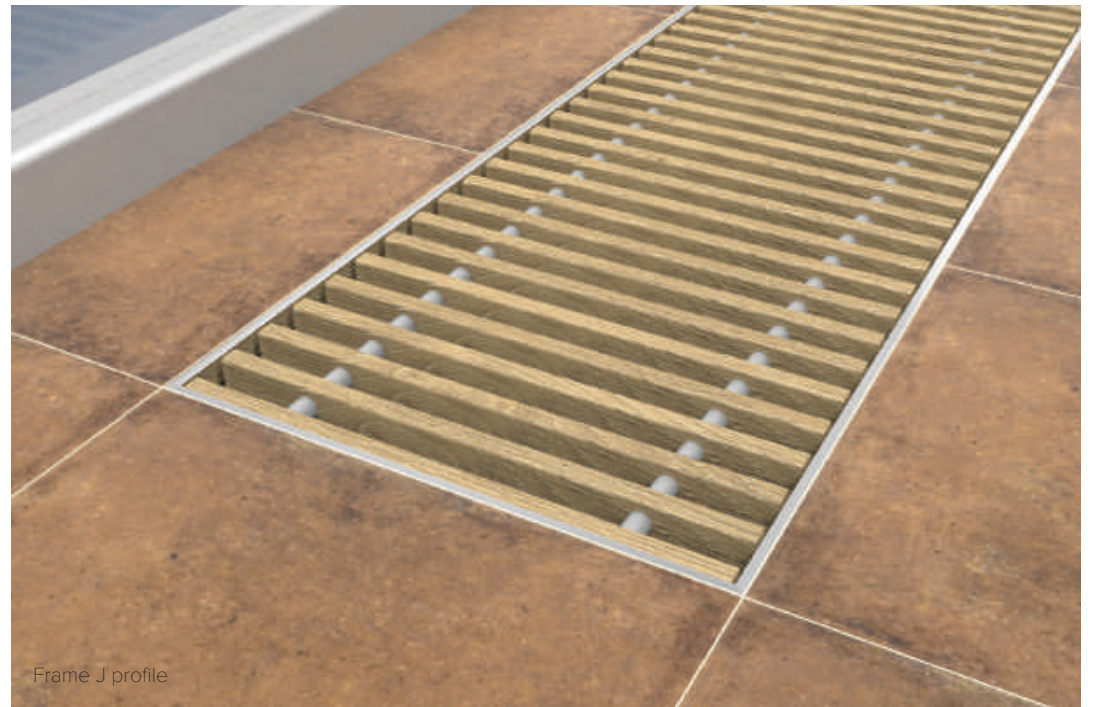
A frame with an overlap. The L-cross section of 15 × 15 × 1.5 mm, allows the expansion gap to be covered with a width of up to 10 mm. The frame is placed next to the trench heater. The frame is installed after the final floor is completed and glued to the inside edge of the trench heater. The heat exchanger is installed in such a way that it does not exceed the level of the final floor. Suitable for wood floors, plywood floors, laminate floors and vinyl. It can be used in cases where floor laying requires an expansion distance. The length and width of the trench heater end up being 21 mm larger than the dimensions specified in the catalog.



Frame L profile



Frame L profile



Frame J profile

SPECIAL DESIGNS

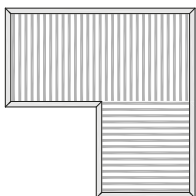
ANGLED TRENCH HEATERS

Use angled trench heaters to cover heat loss from window sections - even in asymmetrical rooms. We supply both acute and obtuse angles and several different angled Trench heaters. Angled trench heaters, which consist of several units, can be installed in front of long window sections. The trench heater is equipped with a grille in one or more pieces, which at first glance, looks like a complete grille. Specification of the location of the trench heater and approval of the design documentation must be approved by the customer before the start of production.

TYPES

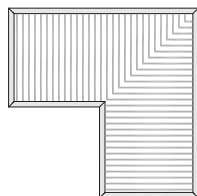
Aluminum

Transverse grille
TYPE: 15, 25, 35



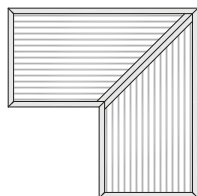
Only 90°

Transverse roll-up grille
TYPE: 11, 21, 31, 41



Angle 40°– 320°

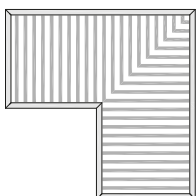
Linear fixed grille
TYPE: 12, 22, 32, 42



Angle 40°– 320°

Wood

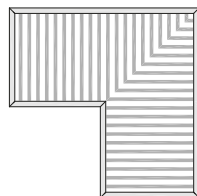
Roll-up grille
TYPE: 61, 62, 63, 64



Angle 40°– 320°

Stainless steel

Roll-up grill
TYPE: 52

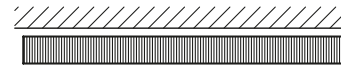


Only 90°

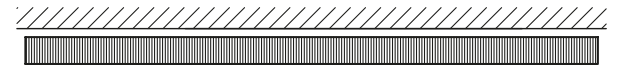




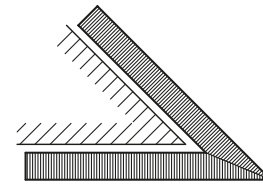
EXAMPLES OF ANGLES



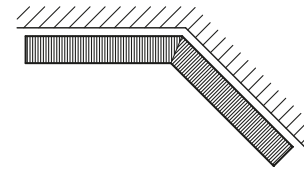
Trench heater - section length



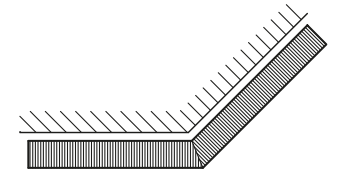
Long trench heater - often composed of several units



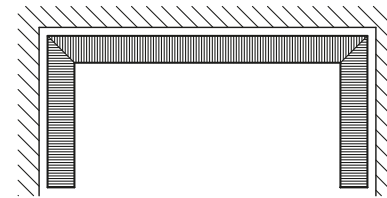
Pointed angle



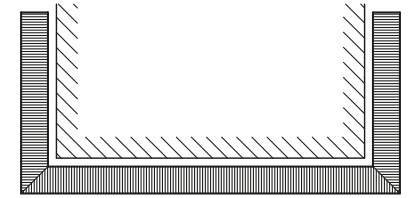
1 angle - inside



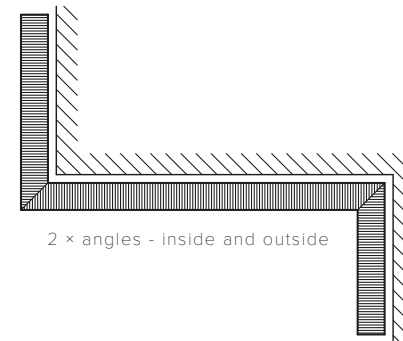
1 angle - outside



2 × angles - inside



2 × angles - outside



2 × angles - inside and outside

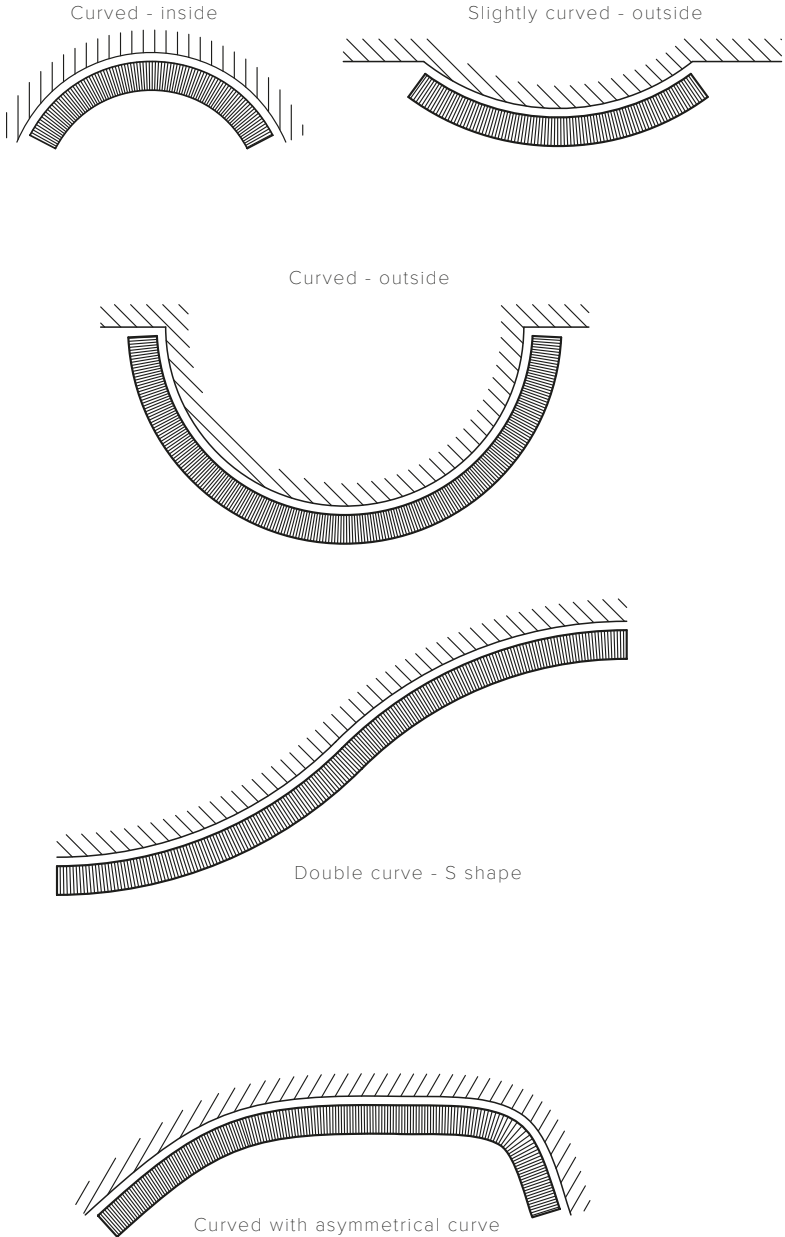
CURVED TRENCH HEATERS

Modern buildings with curved window facades or sections can be equipped with curved trench heaters. Whether the windows are a large piece or in smaller sections is subordinate. We get the curve to follow the natural rounding of the windows and the construction. The location of the trench heater must be measured on the construction site, as the actual floor plan often differs from the design.

For this type of trench heater, please contact your local Hudevad Sales Representative



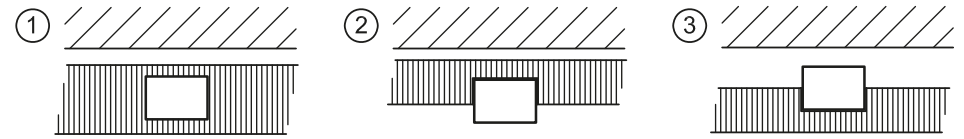
EXAMPLES OF CURVES



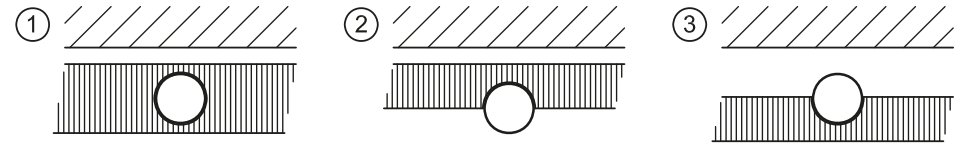


CUTOUTS IN TRENCH HEATERS

Trench heaters often cross the structural parts of the building such as columns and partitions. Columns can be fully or partially integrated in the trench heater. A custom grille completes the design.



Trench heater and square column



Trench heater and round pillar

ACCESSORIES

THERMOSTATS FOR TERRA FAN

RTD201 - Digital room thermostat

For controlling the trench heater with Fan 24 V DC EC and electrothermal actuators 24 V DC



Description

- Digital room thermostat with backlit LCD display
- 2 and 4 pipes
- Setting the weekly program
- Manual / automatic change of speeds
- Operating modes: Comfort, economy and protection
- Front color: White RAL9003

Parameters

- Temperature range 5-40 °C (comfort mode)
- Rated voltage 24 V DC
- Power consumption max. 2 VA/1 W.
- Fan control 24 V DC EC 0 - 10 V DC EC, max. ± 5 mA
- Max. connection of 10 pcs. electrothermal actuators Z-TS24
- Degree of protection IP30
- Ambient temperature 0-50 °C
- Relative humidity <95%
- Dimensions: 128 × 93 × 31 mm

Options

- External temperature sensor TE40
- Sensor for heat exchanger temperature TE30
- Remote infrared control RC10
- Possibility to connect the sensor with open window

THERMOSTATS FOR TERRA STANDARD

RTD301 - Programmable room thermostat

For control of trench heater without Fan and Z-TS230 electrothermal actuators. Schedule can be controlled for 15 min. interval.



Description

- 2-position ON / OFF heating control
- Setting the weekly program
- Operating modes: Comfort, economy and protection
- Front color: White RAL9003

Parameters

- Temperature range 5-35 °C
- Supply voltage: 3 V DC (2x 1.5 V batteries)
- Coupling voltage: 230 V AC
- Can be connected up to 15 pcs. Z-TS24 electrothermal actuators
- Degree of protection IP30
- Ambient temperature 0-50 °C
- Relative humidity <95%
- Dimensions: 127 × 85 × 22 mm

Options

- External temperature sensor TE40
- Possibility to connect sensor with open window

THERMOSTATS FOR TERRA STANDARD

Z-RT001 - Room thermostat for flow control in trench heater without fan

For controlling electrothermal actuators Z-TS24 with power supply 24 V DC (DR). Without power supply, the electrothermal actuator Z-TS230 is controlled by 230 V AC. Function opened / closed.



Parameters

- Temperature range: 10 to 30 ° C
- Operating voltage: 24 V DC or 230 V AC
- Number of controlled electrothermal actuators:
24 V DC - 10 × Z-TS24
230 V AC - 30 × Z-TS230
- Protection: IP30
- Color: white
- Dimensions: 83 × 83 × 40 mm

THERMOSTATS FOR TERRA STANDARD

RTD301 - Room thermostat with sensor element

The Z-TF001 thermostatic head with remote control with a liquid-filled sensing element intended for controlling thermostatic valves on Terra Standard trench heaters. Each trench heater must be equipped with Z-TF001, several convectors can not be controlled on the same unit.



Parameters

- Thermostatic valve head with remote control - liquid-filled sensing element.
- Temperature range: 9 to 26 ° C, antifreeze temperature 9 ° C
- Mode: Proportional control
- Capillary tube Length: 5 m
- Dimension: 75 × 75 mm, sensor ø 50 × 68 mm
- Color: white for RAL 9010

POWER SUPPLIES

Converts the mains voltage of 230 V AC to safe voltage of 24 V DC, power supply ready for installation on DIN rail

Description

- Make sure there is enough space around the unit when placing the power supply.
- Adjust the size of the output to suit the input from the number of installed convectors and cables, provide 5% output reserve at the source against calculated consumption
- DR60-24 and DR100-24 can be installed in a box for wall installation.



DR60-24, 60 W
24 V DC,
78×93×56 mm



DR100-24, 100 W
24 V DC,
100×93×56 mm



DRP240-24, 240 W
24 V DC,
126×126×100 mm



DRP480-24, 480 W
24 V DC,
227×126×100 mm

ELECTROTHERMIC ACTUATORS

Z-TS24 / Z-TS24-5m

24V DC
Open / close function
(Without voltage: Closed)

Parameters

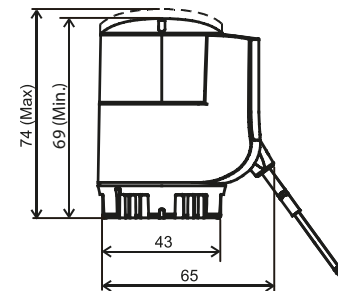
- Input voltage: 24 V DC
- Power consumption v. Ignition: 6 VA,
- input during operation: 2.5 W
- Opening / closing time: 270 s
- Degree of protection: Cover - IP54
- Connection to valve: M30 × 1.5 mm
- Total height at maximum lift: 74 mm
- Actuator and cable color: black RAL9005
- Z-TS24 cablelength 3 m
- Z-TS24-5m cablelength 5 m

Z-TS230/Z-TS230-5m

230 V AC
Open / close function
(Without voltage: Closed)

Parameters

- Input voltage: 230 V AC
- Power consumption: on ignition 58 VA,
- input during operation: 2.5 W
- Opening / closing time: 210 s
- Degree of protection: Cover - IP54
- Connection to valve: M30 × 1.5 mm
- Total height at maximum lift: 74 mm
- Actuator and cable color: black RAL9005
- Z-TS230 cablelength 3 m
- Z-TS230-5m cablelength 5 m



LOCKSHIELD VALVE

Straight and angled. Installed on the heat exchanger return pipe

Parameters

- Size: DN 15
- Max operating temperature: 110 °C
- Max operating pressure: 10 bar



Z-RD001

Straight LockShield valve

Z-RE001

Angled LockShield valve

T – Speed	0,5	0,75	1	1,5	2	2,5	3	3,5	4	5	6	Max.
Kv (m³/h) – straight type	0,3	0,4	0,55	0,75	0,91	1,05	1,25	1,33	1,4	1,6	1,7	1,8
Kv (m³/h) – angled type	0,2	0,25	0,29	0,4	0,5	0,69	0,8	1	1,2	1,55	1,9	2,2

THERMOSTATIC VALVES

Straight and angled. Installed on the heat exchanger inlet pipe.

Parameters

- Size: DN 15, NF standard
- Max operating temperature: 120 °C
- Max operating pressure: 10 bar
- Connection thread: M30 × 1,5 mm
- kv value (m³ / h) range 0.10-0.89
- kv value (m³ / h) for zone 2K 0.52

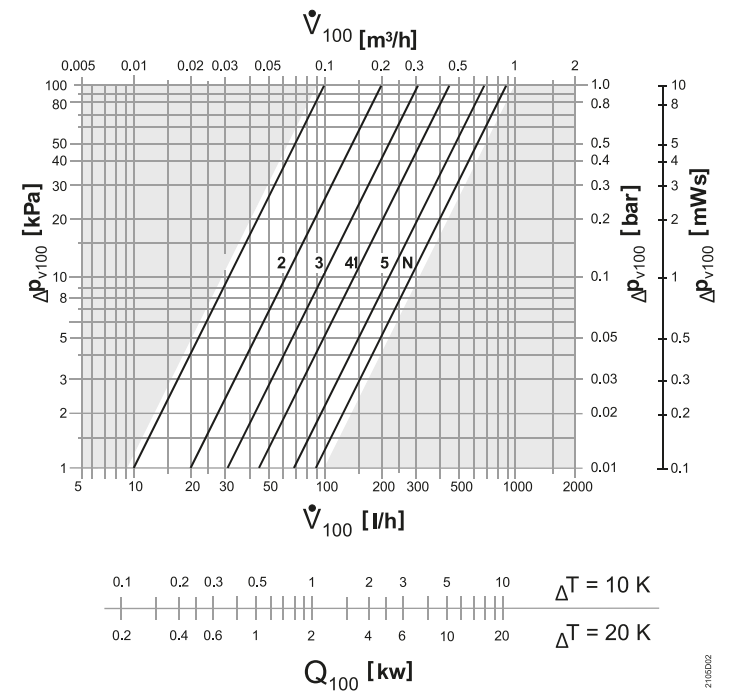


Z-TD001

Straight thermostatic valve

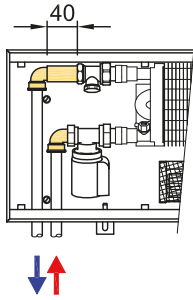
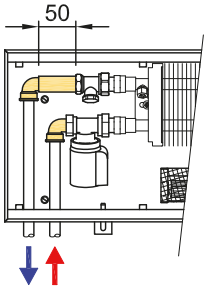
Z-TE001

Angled thermostatic valve



EXTENSION PIECE WITH ANGLE

For easy connection of trench heater to the heating system. The length of the extension piece and the angles match the connection points opposite the openings in the housing of the trench heater.



2 x



1 x

PR50 -extension piece,
50 mm, 2 x angle 90 °

Fits Terra Fan
65 and 80 mm height

PR40 - extension piece,
50 mm, 2 x angle 90 °

Fits Terra Fan
However, not height 65 and
80 mm

FAN FILTER

For Terra Fan and Terra Power

Parameters

- Only available for models with dimensions 135 × 325 mm
Colour Black
- Filter dimensions: Specify the Length of the convector when ordering



DF10
Fanfilter

RELAY

For connecting more than 10 pcs. actuators
See the electrical diagram

Parameters

- Voltage 24 V DC
- Degree of protection IP20
- Max. alternating current 12 A.
- No voltage: interruption
- 37 × 20 × 39 mm
- Max. operating temperature 60 ° C



RL10
Relay

FOR POWER SUPPLY

Box for power supply

Parameters

- Possibility of installing DR60-24 and DR100-24
- Attachment to DIN rail
- Installation under plaster, hidden in the wall
- 234 × 176 × 79 mm
- When the space on the board is not sufficient



KP10
Box for power supply

EXTERNAL SENSOR

For thermostat RTD201



TE40

External sensor

Parameters

- Measures room temperature in a place other than where the thermostat is installed
- Connection to thermostat RTD201
- Measuring range 0-40 °C
- Measurement sensor NTC, 3 kΩ at 25 °C
- Measurement precision at 25 °C: ± 0.3 K
- Degree of protection IP30
- Operating temperature 0-50 °C
- Relative humidity <85%
- White color RAL9003
- 97 × 100 × 36 mm

REMOTE CONTROL

For thermostat RTD201, Infrared.

Communication between the remote control and the thermostat is one-way. The current setting is shown on the display. Any changes made directly to the digital space thermostat are not synchronized with the remote control.



RC10

Remote control

Parameters

- Selection of operating mode:
 - Comfort, Automatic with a time setting or protection setting
- Changing the setting for the desired room temperature in comfort mode
- Selecting the operating mode of the Fan: Automatic or manual selection of valve speed
- Operating distance (infrared receiver), distance ≤ 7,5 m, angle ≤ ± 30 °

HUDEVAD

ABOUT US

WE WERE HERE YESTERDAY

Hudevad Radiatorfabrik was established in 1936 in a small town danish town Hudevad but was founded as a blacksmith way back in 1897. Our Plan radiator was produced for the very first time in 1938 and has been one of the building blocks for all future Hudevad radiators. The sturdy feel and the unmistakable Hudevad look have not changed much over the years and is a sign of the proud and dedicated craftsmanship that has always been a part of who we are. In 2005, Hudevad was bought by Denmark's largest radiator manufacturer - Ribe Jernindustri - and moved from Hudevad to Ribe. Hudevad continued as a separate design brand under Ribe Jernindustri.

WE ARE HERE TODAY

Ribe Jernindustri closed in 2018 and Hudevad was sold to British Stelrad Radiator Group. Focus on profitability, streamlining and production optimization is a main concern to Stelrad Radiator Group and therefore new production facilities and new production methods was introduced in 2020.

In October 2020 Hudevad Radiator Design moved from Ribe to Kolding, where new offices, a large warehouse and a custom Hudevad production was inaugurated.

WE ARE HERE TOMORROW

The move of our production meant rethinking the old Hudevad designs to ensure that Hudevad still meets tomorrows heating demands and that quality, form and function and the special Hudevad "feel" is still there.

It is important that the feel and the overall expression of the Hudevad radiator remains the same even though production methods change, and some models get a slightly different look. The large investments in production, warehouse and offices are part of the Hudevad journey going forward and ensures that our design radiators will also be here tomorrow.





CONTACT US

GIVE US A CALL

Our sales team and customer service are always ready to help if you require assistance with our products, with prices, deliveries etc.

Our Customer Service is open

Monday - Thursday 8.00 - 16.00

Friday 8. 00 - 14.00

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DESIGN HEATING

HUDEVAD
RADIATOR DESIGN

WWW.HUDEVAD.COM

Hudevad Terra - November 2021
English