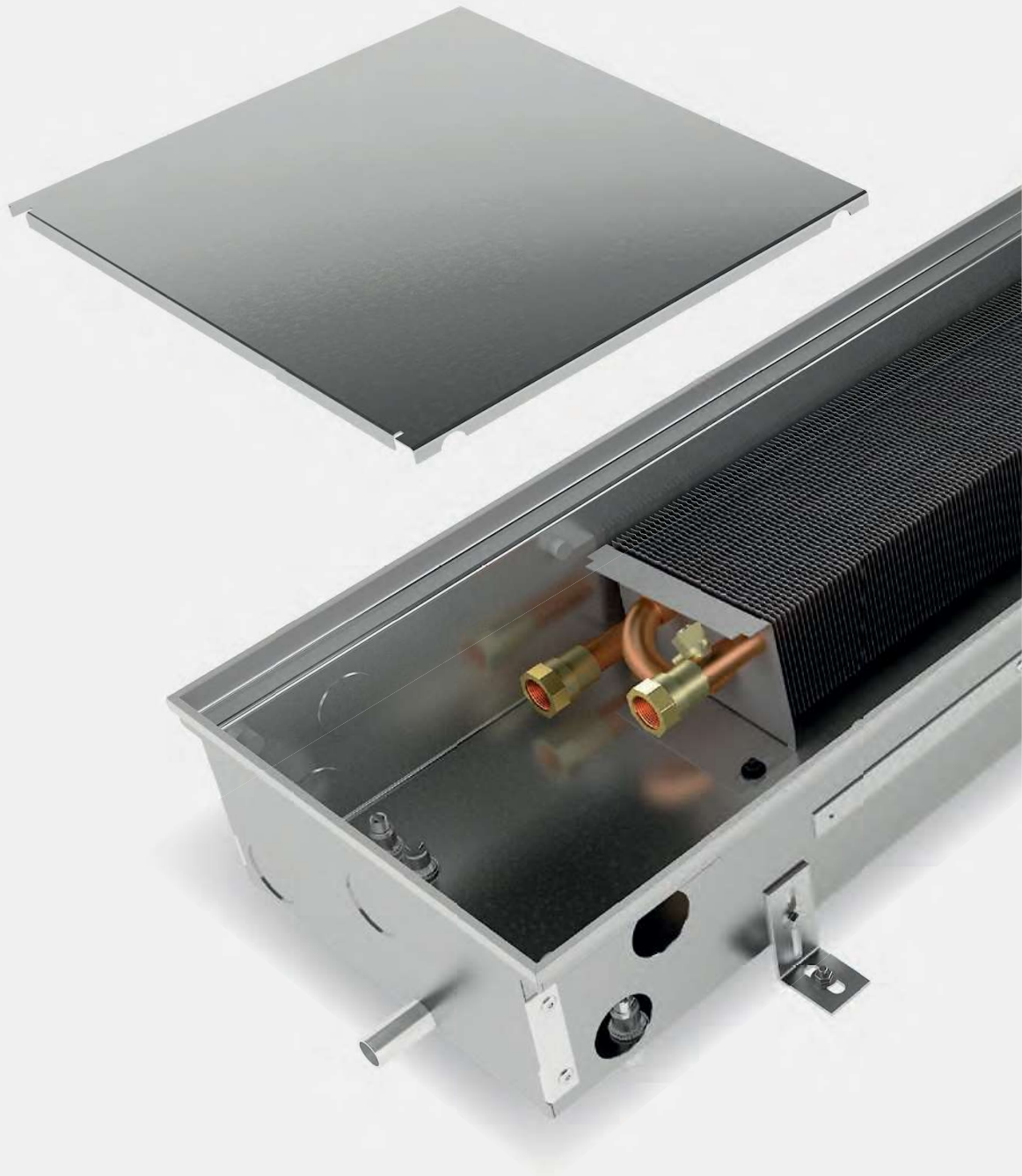


FRM





Trench heaters with **natural convection and lamellar exchanger, humid environment, heating**

TERMO - FRM



Heaters with natural convection for a humid environment

Advantages

- Conservatories, greenhouses, bathrooms, saunas
- Garage, warehouses, halls, stadiums
- Pools, no submersion in water
- High heater output
- Suitable combination with other types of heating
- Humid environment
- 2 pipe system
- Length **700-4 800 mm** (in step 100 mm)



FRM trench heaters are constructed to be used in conditions with higher moisture and possible water condensation. The heater structure is made of stainless steel resistant even to an aggressive environment and fitted with small drainage tubes along its sides.

FRM trench heaters are suitable for installation in swimming pool environments (except for salt water pools). The heaters may come in contact with pool water but must not be fully submerged. The heating unit must be placed at a sufficient distance from the pool to prevent permanent flooding.

The range of FRM models with natural convection for a humid environment

Height	80 mm	90 mm	110 mm	125 mm	140 mm	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
	-	325 mm	325 mm	325 mm	325 mm	325 mm	325 mm
	-	425 mm	425 mm	425 mm	425 mm	425 mm	425 mm

Trench heater standard equipment

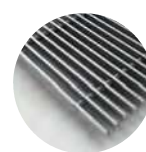
Trough	Trough of stainless steel DIN 1,4404, unpainted
Heat exchanger	Al-Cu lamellar exchanger with air vent valve, unpainted
Grille	Design walkable grille according to the customer's choice (stainless grilles surcharge); wooden grilles must be provided with appropriate surface finish
Ledge	Made of anodized aluminium, type and colour according to the customer's choice
Fan	Fans 24 V DC with EC motors with higher protection grade, suitable for humid environments
Assembly elements	Leveling screws for setting up the trough, mounting brackets
Manual	Manual for the progress of work during installation and user manual
Wiring	Electrical wiring diagram of the trench heaters
Mounting board	Cover and the spacer particle board for easy installation
Package	Transport package for protection against damage during transportation and handling

Accessories per order



Grilles

Non-corroding metal grilles are most frequently used in a damp environment. If a wooden grille is chosen, its surface must be treated accordingly.



FRM an overview of trench heaters with natural convection

175

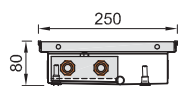
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250

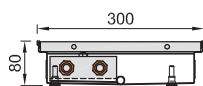
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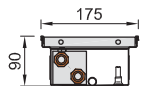
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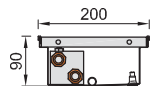
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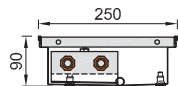
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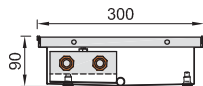
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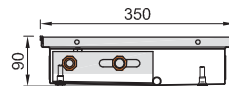
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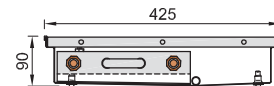
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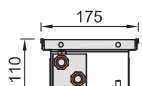
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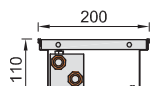
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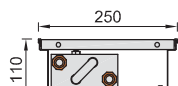
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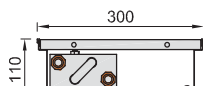
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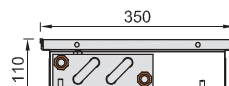
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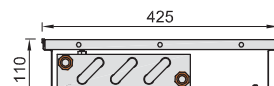
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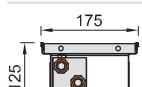
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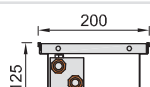
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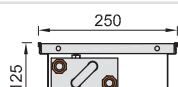
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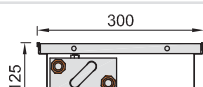
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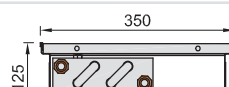
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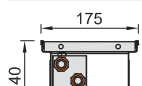
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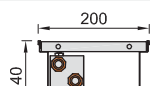
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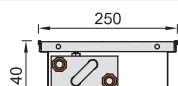
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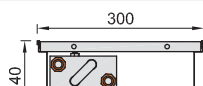
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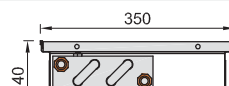
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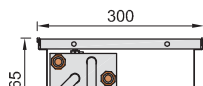
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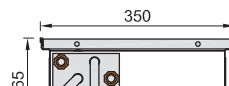
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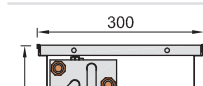
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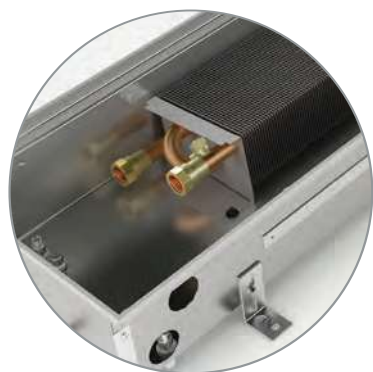
FRM 0200 0300



FRM 0200 0350



FRM 0200 0425



Trench heater heating output FRM

FRM trench heaters have an identical internal arrangement of components as FRK heaters. Their thermal output and other specifications may be found at the dimensionally similar FRK model.

Example:

Heating output FRM 110x250x1600, temperature gradient 75/65/20°C

FRM 0110 0250 1600 = FRK 0110 0250 1600 (page 112)

Temperature gradient: 75/65/20°C

Output: Q = 536 W

Q[W] 75/65/20°C (ΔT=50°C)

H×W [mm]	0110 0175	0110 0200	0110 0250	0110 0300	0110 0350	0110 0425
L [mm]	n=1,479	n=1,479	n=1,46	n=1,468	n=1,458	n=1,403
700	103 W	110 W	166 W	182 W	194 W	245 W
800	129 W	137 W	207 W	227 W	242 W	305 W
900	155 W	164 W	248 W	272 W	290 W	365 W
1000	180 W	191 W	289 W	316 W	338 W	425 W
1100	206 W	218 W	330 W	361 W	386 W	486 W
1200	232 W	246 W	371 W	406 W	434 W	546 W
1300	257 W	273 W	413 W	451 W	482 W	607 W
1400	282 W	299 W	454 W	496 W	530 W	667 W