

T0
TRENCH HEATER WITH A FAN FOR WET ENVIRONMENT


heat pump



heating



with a fan



wet environment

CHARACTERISTICS

- suitable for humid / wet environment
- body made from stainless steel
- high forced convection output
- heating also when the fan is off
- rapid room heating
- low electricity consumption
- safe 12 AC voltage
- does not serve as a drainage channel
- cannot be installed to pools with salt or otherwise aggressive water

DIMENSIONS

width - with standard frame	243 / 303 mm
height	85 / 125 mm
length ¹⁾	900 - 3000 mm
connection ²⁾	G1/2"

1) for non-standard lengths please contact your sales representative

2) without water connection accessories

T0 convectors are suitable for rooms with increased humidity such as conservatories. Forced convection heats up the room quickly and prevents fogging of the windows.

A wide range of accessories

For your comfort, the T0 series convectors can be ordered with the complete accessories needed for easy installation and a reliable function. An overview of available accessories can be found on the MINIB website.

ORDER CODE

KPMD P* 243 09* 085 21A

Category	Orientation	Width	Length	Height	Type
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243 x 85	KPMD P* 243 09* 085 21A
-303 x 125	KPMD L* 303 09* 125 41A

* Orientation

L = left connection, P = right connection

Length:

09 = 900 mm, 10 = 1000 mm, 12 = 1250 mm, 15 = 1500 mm, 17 = 1750 mm, 20 = 2000 mm, 22 = 2250 mm, 25 = 2500 mm, 27 = 2750 mm, 30 = 3000 mm

The convector comes completely assembled and ready for immediate installation. Thanks to the output inspection in the production plant, we can guarantee the highest quality and functionality of MINIB products.

The technical parameters are set according to the relevant standards. In fact, they may vary depending on the location of the convector, the cover grille, the connection type.

As a part of the product development, MINIB, a.s. reserves the right of construction and price adjustments.



ORIENTATION AND CONNECTION

When ordering TO series convectors, it is necessary to specify the orientation of the convector (left/right) and the water connection (straight/corneous).

Convector as the main source of heating

If the convector works as the main heat source we recommend to install the convector with the exchanger to the room side.

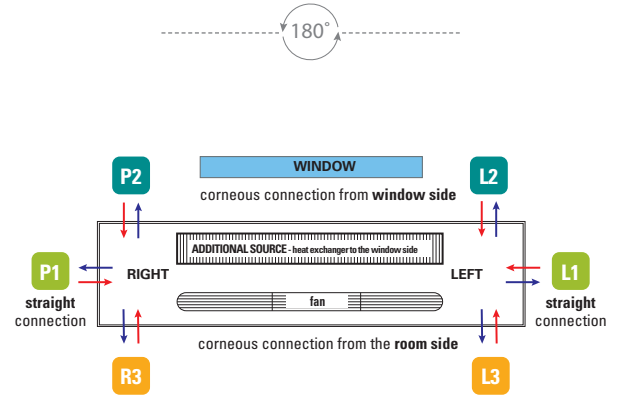
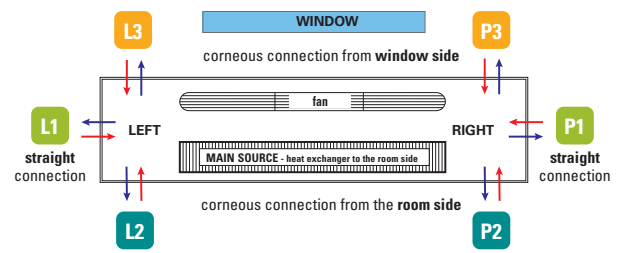
Convector as an additional source of heating

If the convector is used as an additional heat source, which prevents the condensation of the window, install the convector with the heat exchanger towards the window.

CONNECTION OPENINGS

The convector is supplied with pre-cut holes for all connection directions and all variants of connection accessories. Simply push-out the holes according to the connection direction you have chosen.

The positions of the connection openings for the individual dimensions of the convector are shown in the drawings. The openings are placed symmetrically according to the longitudinal and transverse axes of the convector.

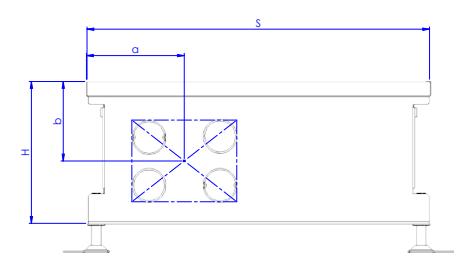


REGULATION OPTIONS

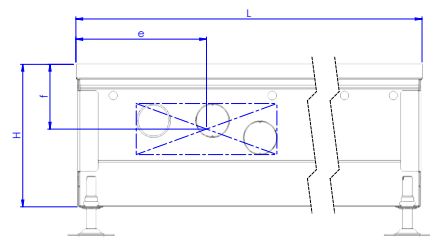
Envi- ronment	Type of regulation	Function of the convector	Control	Switched sources
WET ¹⁾ (without head)	E2	heating	thermostat UT15 BMS superior system	TT 300-E2

1) in case of connection with head for the wet environment, client’s own regulation required

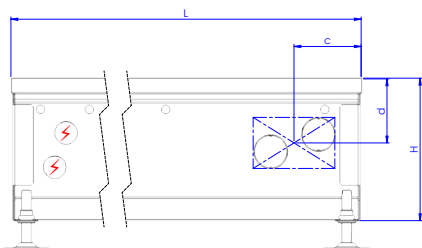
STRAIGHT CONNECTION P1



CORNEOUS CONNECTION P3



CORNEOUS CONNECTION P2



HEATING POWER

TO 243 x 85

heating power Q [W]					
length L [mm]	input/output water temperature [°C]	fan speed			
		off	low	medium	high
		air temperature tA = 20°C			
09 = 900	85/75	149	1072	1203	1228
	75/65	123	885	993	1013
	65/55	97	700	785	801
	45/40	53	382	429	437
10 = 1000	85/75	174	1251	1404	1432
	75/65	144	1033	1159	1182
	65/55	114	817	916	935
	45/40	62	446	500	510
12 = 1250	85/75	236	1698	1905	1944
	75/65	195	1401	1572	1604
	65/55	154	1108	1243	1269
	45/40	84	605	679	693
15 = 1500	85/75	299	2145	2406	2455
	75/65	247	1770	1986	2027
	65/55	195	1400	1571	1603
	45/40	106	764	857	875
17 = 1750	85/75	361	2591	2907	2967
	75/65	298	2139	2400	2449
	65/55	236	1691	1898	1936
	45/40	129	923	1036	1057
20 = 2000	85/75	423	3038	3409	3478
	75/65	349	2508	2814	2871
	65/55	276	1983	2225	2270
	45/40	151	1082	1214	1239
22 = 2250	85/75	485	3485	3910	3990
	75/65	401	2877	3228	3293
	65/55	317	2275	2552	2604
	45/40	173	1242	1393	1422
25 = 2500	85/75	547	3932	4411	4501
	75/65	452	3246	3641	3716
	65/55	357	2566	2879	2938
	45/40	195	1401	1572	1604
27 = 2750	85/75	610	4379	4913	5013
	75/65	503	3614	4055	4138
	65/55	398	2858	3206	3272
	45/40	217	1560	1750	1786
30 = 3000	85/75	672	4826	5414	5524
	75/65	555	3983	4469	4560
	65/55	439	3150	3534	3606
	45/40	239	1719	1929	1968

TO 303 x 125

heating power Q [W]					
length L [mm]	input/output water temperature [°C]	fan speed			
		off	low	medium	high
		air temperature tA = 20°C			
09 = 900	85/75	215	1401	1540	2032
	75/65	178	1157	1272	1679
	65/55	141	916	1007	1329
	45/40	77	502	551	727
10 = 1000	85/75	251	1634	1797	2370
	75/65	208	1350	1484	1958
	65/55	164	1069	1175	1550
	45/40	90	585	643	849
12 = 1250	85/75	341	2218	2438	3217
	75/65	282	1832	2014	2658
	65/55	223	1451	1595	2104
	45/40	122	794	873	1152
15 = 1500	85/75	431	2802	3080	4064
	75/65	356	2315	2545	3357
	65/55	282	1832	2014	2658
	45/40	154	1003	1103	1455
17 = 1750	85/75	520	3385	3722	4910
	75/65	430	2797	3075	4057
	65/55	340	2214	2434	3211
	45/40	186	1212	1332	1758
20 = 2000	85/75	610	3969	4363	5757
	75/65	504	3279	3605	4756
	65/55	399	2596	2854	3765
	45/40	218	1421	1562	2061
22 = 2250	85/75	700	4553	5005	6603
	75/65	578	3761	4135	5455
	65/55	458	2977	3273	4319
	45/40	251	1630	1792	2364
25 = 2500	85/75	790	5136	5647	7450
	75/65	652	4244	4665	6155
	65/55	516	3359	3693	4872
	45/40	283	1839	2021	2667
27 = 2750	85/75	879	5720	6288	8296
	75/65	726	4726	5195	6854
	65/55	575	3741	4112	5426
	45/40	315	2048	2251	2970
30 = 3000	85/75	969	6304	6930	9143
	75/65	801	5208	5725	7554
	65/55	634	4123	4532	5979
	45/40	347	2257	2481	3273

ACOUSTIC PRESSURE

TO 243 x 85

length L [mm]	Speed		
	speed 1	speed 2	speed 3
	Equivalent acoustic pressure level LAeq,2m [dB]		
900	20,3	25,4	36,6
1000	20,7	25,8	37,0
1250	21,7	26,8	38,0
1500	22,6	27,9	38,9
1750	23,8	28,7	40,1
2000	24,7	29,8	41,0
2250	25,7	30,8	42,0
2500	26,6	31,9	42,9
2750	27,8	32,7	44,1
3000	28,7	33,8	45,0

measurement at a distance of 2m from the noise source at 1m height

TO 303 x 125

délka L [mm]	Otáčky		
	stupeň 1	stupeň 2	stupeň 3
	Ekvivaletní hladina akustického tlaku LAeq,2m [dB]		
900	<20	22,1	35,1
1000	<20	22,2	35,2
1250	<20	22,5	35,5
1500	<20	22,8	35,7
1750	<20	23,0	36,0
2000	<20	23,2	36,2
2250	21,4	24,8	37,7
2500	22,9	26,3	39,2
2750	23,2	26,6	39,5
3000	23,4	26,8	39,7

measurement at a distance of 2m from the noise source at 1m height

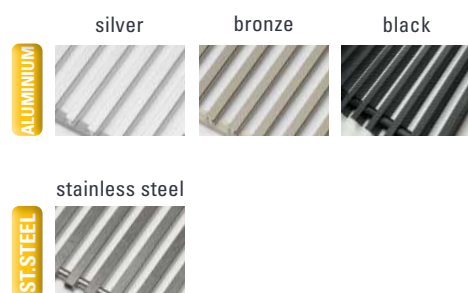
ACCESSORIES

The standard delivery includes convector, standard frame and anchoring accessories. All other accessories (convector grille, connection accessories, control elements, etc.) must be ordered and specified separately.

COMPATIBLE GRILLES

The grille must be ordered with the convector due to the modification of the convector construction. Standard grilles are sparse, transverse. If you are interested in LONGITUDINAL GRILLES, please contact your sales representative.

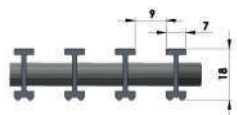
GRILLES - materials



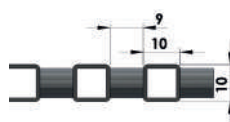
(shades of the grilles are only illustrative)

GRILLES - PROFILE

- AL-rolling/stable-dense



- st. steel-rolling/stable-dense¹⁾



1) the grille must be ordered with the convector due to the modification of the convector construction

COMPATIBLE FRAMES

The frame is assembled from an aluminum profile with 45 degree joints. It comes in the same basic colors as the aluminum grilles. For other terminations of the convector trough, please contact your sales representative.

- Standard frame (AL-aluminium)
- Covering frame (AL-aluminium)



Convectors are designed to the CONCRETE FLOOR, in case of HOLLOW FLOOR installation, please consult with your sales representative.

WATER CONNECTION ACCESSORIES

- connection **WITHOUT HEAD**
- connection **WITH ELECTROTHERMAL HEAD**
- connection **WITH CUSTOMER HEAD** (after consultation)

The type of connection accessories varies according to the size and direction of the connection. Connection accessories are packed separately and are not included in the standard convector delivery.

The table below shows compatible connection accessory sets. If you require non-standard or custom connection accessories, please contact your sales representative.

Connection set typically include:

- flex hoses
- ball valve or screw fitting
- thermostatic valve (only sets ready for head)

	WITHOUT head			READY for head		
	L1/R1	L2/R2	L3/R3	L1/R1	L2/R2	L3/R3
TO 243 x 80	PA	PE	PE	PI 5)	PM 5)	PN 5)
TO 303 x 125	PA	PE	PE	PI 5)	PM 5)	PN 5)

INPUT POWER

TO 243 x 85

length [mm]	POWER [W] AC MOTOR
900	41
1000	52
1250	52
1500	82
1750	82
2000	116
2250	116
2500	116
2750	164
3000	164

TO 303 x 125

length [mm]	POWER [W] AC MOTOR
900	51
1000	61
1250	61
1500	102
1750	122
2000	122
2250	153
2500	173
2750	183
3000	183



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