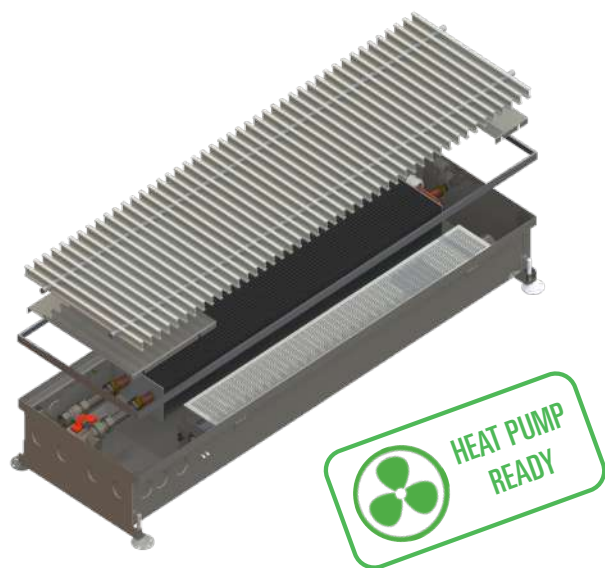


KT ▶ EFFICIENT TRENCH HEATERS WITH A FAN



KT series trench heaters are a great combination of high performance and quiete operation. Thanks to efficient heat transfer even at low heating medium temperatures, they are a great choice for use with a heat pump. Thanks to minimal intervention in the interior, they are suitable for rooms with glass walls, winter gardens or office space.

Quiet operation

KT convectors show low noise values in their category. At low and medium speeds, noise does not exceed the common noise background. The microprocessor control unit takes care of the smooth operation of the fan.

Compatibility with control systems

The control unit also offers a wide range of settings, allowing the optimal convector control by various types of thermostats, BMS or Smart Home systems.

Ecological and economic solution

Due to the low volume of water in the exchanger and the high heat transfer efficiency, are the KT convectors valuable for environmentally friendly and energy efficient heating. Low water volume minimizes losses in distribution and reduces the reaction times of the system.

A wide range of accessories

For your comfort, the KT 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.

CHARACTERISTICS

- **high heating performance of forced convection**
- body made from high quality stainless steel
- electronically commutated (EC) fan optimized for high performance and low vibration
- safe voltage 24 V DC
- control unit with its own microprocessor enabling a wide range of settings
- suitable for heat pumps and other renewable sources energy sources

DIMENSIONS

widths (with standard frame)	243 / 303 mm
heights	90 / 110 / 125 mm
length ¹⁾	900 - 3000 mm
connection ²⁾	G1/2"

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

2) internal thread on heat-exchanger, without water connection accessories

ORDER CODE

KPSD P* 243 09* 090 21C					
Category	Orientation	Width	Length	Height	Type
		243 x 90	KPSD P* 243 09* 090 21C		
		243 x 110	KPSD P* 243 09* 110 21C		
		243 x 125	KPSD P* 243 09* 125 41C		
		303 x 110	KPSD P* 303 09* 110 21C		
		303 x 125	KPSD P* 303 09* 125 41C		

* Orientation

P = right connection, L = left 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 KT 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

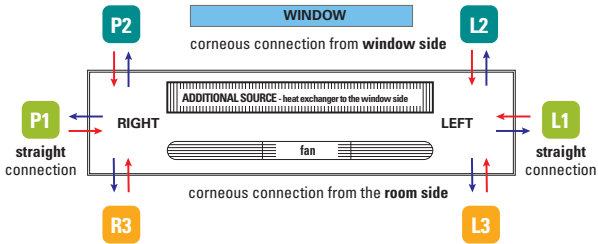
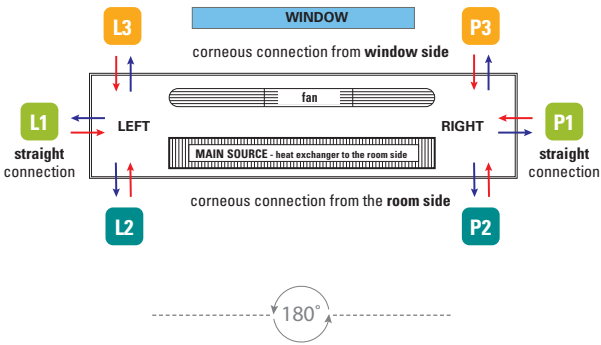
If the convector is used as an additional heat source, which prevents the condensation of the window, install the convector with the heat exchanger towards the window.

CONNECTION OPENINGS

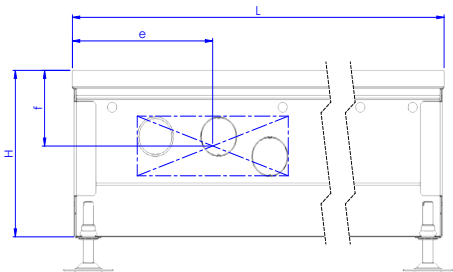
The convector is supplied with pre-cut holes for all connection directions and all variants of connection accessories. Simply push-out the holes according to the connection direction you have chosen.

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.

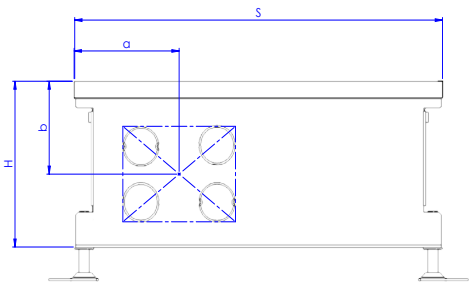
	S	H	a	b	c	d	e	f
KT 243 x 90	243	90	122	48	75	48	100	48
KT 243 x110	243	110	83	43	69	50	87	55
KT 243 x 125	303	125	83	66	58	64	90	64
KT 303 x 110	303	110	83	50	69	50	87	55
KT 303 x 125	303	125	81	66	58	64	83	64



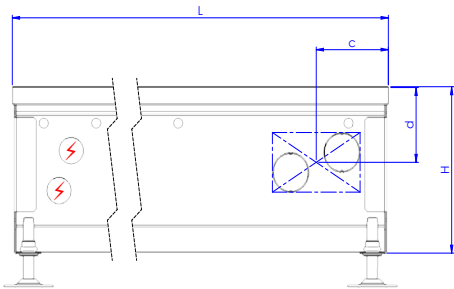
CORNEOUS CONNECTION P2



STRAIGHT CONNECTION P1



CORNEOUS CONNECTION P3



HEATING POWER

KT 243 x 90

KT 243 x 90 heating power Q [W]					
length L [mm]	input/output water temperature [°C]	fan speed			
		off	low	medium	high
		air temperature tA = 20°C			
900	85/75	152	861	1004	1244
	75/65	126	710	828	1026
	65/55	99	561	655	811
	45/40	54	306	357	442
1000	85/75	178	1004	1171	1451
	75/65	147	829	967	1198
	65/55	116	655	764	946
	45/40	63	357	417	516
1250	85/75	241	1363	1590	1970
	75/65	199	1124	1312	1625
	65/55	157	889	1037	1285
	45/40	86	485	565	700
1500	85/75	305	1721	2008	2488
	75/65	251	1420	1657	2053
	65/55	199	1123	1310	1623
	45/40	108	612	714	885
1750	85/75	368	2080	2426	3006
	75/65	304	1716	2002	2481
	65/55	240	1357	1582	1961
	45/40	131	740	863	1069
2000	85/75	431	2439	2845	3525
	75/65	356	2012	2347	2908
	65/55	281	1590	1855	2299
	45/40	153	867	1012	1253
2250	85/75	495	2797	3263	4043
	75/65	408	2308	2692	3336
	65/55	323	1824	2128	2637
	45/40	176	995	1160	1438
2500	85/75	558	3156	3681	4561
	75/65	461	2604	3038	3764
	65/55	364	2058	2401	2975
	45/40	199	1122	1309	1622
2750	85/75	622	3515	4100	5080
	75/65	513	2900	3383	4191
	65/55	406	2292	2674	3313
	45/40	221	1250	1458	1806
3000	85/75	685	3873	4518	5598
	75/65	565	3196	3728	4619
	65/55	447	2526	2947	3651
	45/40	244	1377	1607	1991

KT 243 x 110

KT 243 x 110 heating power Q [W]					
length L [mm]	input/output water temperature [°C]	fan speed			
		off	low	medium	high
		air temperature tA = 20°C			
900	85/75	217	964	1073	1491
	75/65	179	792	881	1225
	65/55	140	623	693	963
	45/40	75	335	372	518
1000	85/75	254	1125	1252	1740
	75/65	208	924	1028	1429
	65/55	164	727	808	1123
	45/40	88	391	435	604
1250	85/75	344	1527	1699	2361
	75/65	283	1254	1395	1940
	65/55	222	986	1097	1525
	45/40	120	530	590	820
1500	85/75	435	1929	2146	2982
	75/65	357	1585	1763	2450
	65/55	281	1246	1386	1926
	45/40	151	670	745	1035
1750	85/75	526	2331	2593	3604
	75/65	432	1915	2130	2960
	65/55	339	1505	1674	2327
	45/40	182	809	900	1251
2000	85/75	616	2733	3040	4225
	75/65	506	2245	2497	3471
	65/55	398	1765	1963	2728
	45/40	214	949	1055	1467
2250	85/75	707	3134	3487	4846
	75/65	581	2575	2864	3981
	65/55	456	2024	2252	3129
	45/40	245	1088	1210	1682
2500	85/75	797	3536	3934	5468
	75/65	655	2905	3231	4492
	65/55	515	2284	2540	3531
	45/40	277	1228	1366	1898
2750	85/75	888	3938	4381	6089
	75/65	729	3235	3599	5002
	65/55	573	2543	2829	3932
	45/40	308	1367	1521	2114
3000	85/75	979	4340	4828	6710
	75/65	804	3565	3966	5512
	65/55	632	2802	3118	4333
	45/40	340	1507	1676	2329

KT 243 x 125

KT 243 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			
900	85/75	194	1261	1386	1829
	75/65	160	1042	1145	1511
	65/55	127	825	906	1196
	45/40	69	451	496	655
1000	85/75	226	1471	1617	2133
	75/65	187	1215	1336	1763
	65/55	148	962	1057	1395
	45/40	81	527	579	764
1250	85/75	307	1996	2194	2895
	75/65	254	1649	1813	2392
	65/55	201	1306	1435	1894
	45/40	110	715	786	1037
1500	85/75	388	2522	2772	3657
	75/65	320	2083	2290	3021
	65/55	253	1649	1813	2392
	45/40	139	903	992	1309
1750	85/75	468	3047	3349	4419
	75/65	387	2517	2767	3651
	65/55	306	1993	2191	2890
	45/40	168	1091	1199	1582
2000	85/75	549	3572	3927	5181
	75/65	454	2951	3244	4280
	65/55	359	2336	2568	3388
	45/40	197	1279	1406	1855
2250	85/75	630	4097	4504	5943
	75/65	520	3385	3721	4910
	65/55	412	2680	2946	3887
	45/40	225	1467	1613	2128
2500	85/75	711	4623	5082	6705
	75/65	587	3819	4199	5539
	65/55	465	3023	3324	4385
	45/40	254	1655	1819	2400
2750	85/75	791	5148	5659	7467
	75/65	654	4253	4676	6169
	65/55	518	3367	3701	4883
	45/40	283	1843	2026	2673
3000	85/75	872	5673	6237	8229
	75/65	720	4687	5153	6798
	65/55	570	3710	4079	5382
	45/40	312	2031	2233	2946

HEATING POWER

KT 303 x 110

KT 303 x 110 heating power Q [W]					
length L [mm]	input/ output water temperature [°C]	fan speed			
		off	low	medium	high
		air temperature tA = 20°C			
900	85/75	240	1071	1191	1657
	75/65	197	880	978	1361
	65/55	155	691	769	1070
	45/40	83	372	413	575
1000	85/75	280	1249	1390	1933
	75/65	230	1026	1141	1588
	65/55	181	807	897	1248
	45/40	97	434	482	671
1250	85/75	380	1695	1886	2624
	75/65	312	1393	1549	2155
	65/55	245	1095	1218	1694
	45/40	132	588	655	911
1500	85/75	480	2141	2382	3314
	75/65	394	1759	1957	2722
	65/55	310	1383	1538	2140
	45/40	167	743	827	1150
1750	85/75	580	2587	2878	4005
	75/65	476	2126	2365	3290
	65/55	374	1671	1859	2586
	45/40	201	898	999	1390
2000	85/75	679	3034	3375	4695
	75/65	558	2492	2772	3857
	65/55	439	1959	2179	3032
	45/40	236	1053	1172	1630
2250	85/75	779	3480	3871	5385
	75/65	640	2858	3180	4424
	65/55	503	2247	2500	3478
	45/40	271	1208	1344	1870
2500	85/75	879	3926	4367	6076
	75/65	722	3225	3588	4991
	65/55	568	2535	2820	3923
	45/40	305	1363	1516	2109
2750	85/75	979	4372	4864	6766
	75/65	804	3591	3995	5558
	65/55	632	2823	3141	4369
	45/40	340	1518	1688	2349
3000	85/75	1079	4818	5360	7457
	75/65	887	3958	4403	6125
	65/55	697	3111	3461	4815
	45/40	375	1673	1861	2589

KT 303 x 125

KT 303 x 125 heating power Q [W]					
length L [mm]	input/ output water temperature [°C]	speed			
		off	low	medium	high
		air temperature tA = 20°C			
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
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
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
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
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
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
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
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
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
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

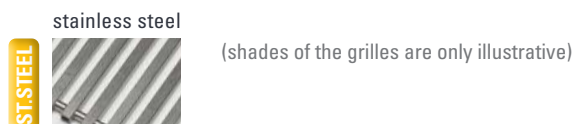
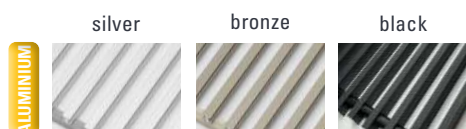
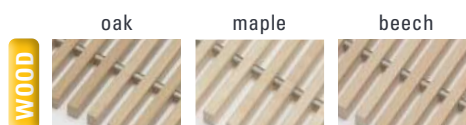
ACCESSORIES

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

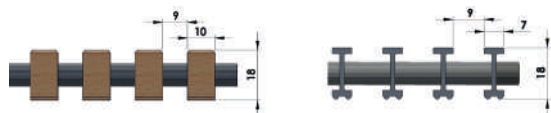
The grille must be ordered with the convector due to the modification of the convector construction. Standard grilles are sparse, transverse. If you are interested in LONGITUDINAL GRILLES, please contact your sales representative.

GRILLES - materials

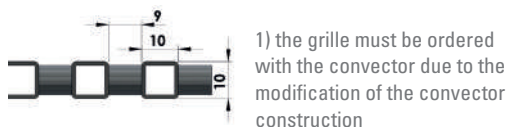


GRILLES - PROFILE

- wood-rolling/stable-dense
- AL-rolling/stable-dense



- st. steel-rolling/stable-dense¹⁾



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)



Convector 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
KT	243	90	PA	PE	PE	PI	PM	PN
KT	243	110	PA	PE	PE	PI	PM	PN
KT	243	125	PA	PE	PE	PI	PM	PN
KT	303	110	PA	PE	PE	PI	PM	PN
KT	303	125	PA	PE	PE	PI	PM	PN

INPUT POWER



length [mm]	900	1000	1250	1500	1750	2000	2250	2500	2750	3000
POWER [W]	6	7	8	11	13	15	18	20	22	24

CONVECTOR JOINTS

KT series convectors are manufactured up to 3000 mm in lengths as standard. Larger lengths can be achieved by joining multiple convectors behind each other. Optically, the joint appears to be one long convector. In this way, any lengths can be achieved, including the connection of angle, corner and to the arc.

POSSIBLE ANGLES AND ARCS OF TRENCH HEATERS

ANGLE TYPE OF CONNECTION



ARC TYPE OF CONNECTION



ACOUSTIC PRESSURE

KT 243 x 110, KT 243 x 125

length L [mm]	Speed		
	speed 1	speed 2	speed 3
	Equivalent acoustic pressure level LAeq,2m [dB]		
900	<20	22,4	34,0
1000	<20	22,6	34,2
1250	<20	23,1	34,7
1500	<20	23,6	35,2
1750	20,1	23,8	35,4
2000	20,2	23,9	35,6
2250	20,9	24,7	36,9
2500	21,5	25,5	38,1
2750	22,2	26,3	39,4
3000	22,8	27,1	40,6

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

KT 303 x 110, KT 303 x 125

length L [mm]	Speed		
	speed 1	speed 2	speed 3
	Equivalent acoustic pressure level 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

ACOUSTIC PRESSURE

KT 243 x 90

length L [mm]	Speed		
	speed 1	speed 2	speed 3
	Equivalent acoustic pressure level LAeq,2m [dB]		
900	<20	21,0	29,0
1000	<20	21,2	29,2
1250	<20	21,7	29,7
1500	<20	22,2	30,2
1750	<20	22,4	30,4
2000	<20	22,5	30,6
2250	<20	23,3	31,9
2500	20,3	24,1	33,1
2750	21,0	24,9	34,4
3000	21,6	25,7	35,6

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

REGULATION OPTIONS

Type of regulation	Function of the convertor	Control	Switched sources
EB-A ¹⁾ manual	heating	thermostat UT15 customer thermostat for 12V or 230V + ADA converter BMS superior system	
EB-B automatic	heating	thermostat UT15 thermostat CH110 thermostat TH343 customer thermostat for 12V or 230V + ADA converter	for DIN rail: PSD 55W PSD 90W
EB-C semi-automatic	heating	thermostat UT15 customer thermostat for 12V or 230V + ADA converter	

IT IS POSSIBLE TO USE YOUR OWN REGULATION.

1) it is necessary to reset the control unit-EB-block (by default it is set to EB-B / EB-C)

thermoelectric valve head



A floating contact thermostat, such as CH110 or UT15, is suitable for controlling thermoelectric heads.



CH110 thermostat



UT15 thermostat



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