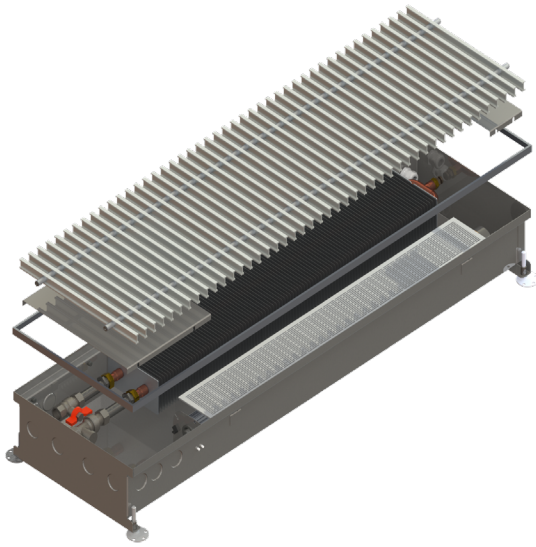


KT ▶ EFFICIENT TRENCH HEATERS WITH A FAN



KT series trench heaters are a great combination of high performance and quiet 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/cooling. Low water volume minimizes losses in distribution and reduces the reaction times of the system. High efficiency at low temperatures allows the operation heaters/chillers in the optimal mode saving tens of percent of heating costs.

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

- body made from high quality stainless steel
- high forced convection output
- rapid room heating
- heating also when the fan is off
- low electricity consumption
- safe 24V DC voltage
- contains own microprocessor-controlled unit
- also suitable for heat pump
- electronically commutated (EC) motor

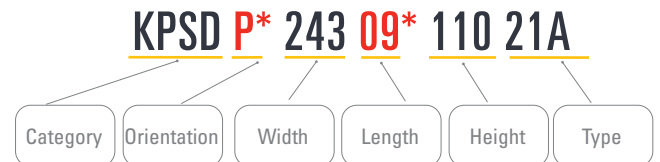
DIMENSIONS

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



KT 243 x 90	KPSD P* 243 09* 090 21A
KT 243 x 110	KPSD P* 243 09* 110 21A
KT 243 x 125	KPSD P* 243 09* 125 21A
KT 303 x 110	KPSD P* 303 09* 110 21A
KT 303 x 125	KPSD P* 303 09* 125 21A
KT4 303 x 125	KPSD P* 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 convectors of the KT series, the convector connection orientation must be specified. This is determined by the location of the heating/cooling water distribution, and by the purpose of the convector in the room.

Convector as the main source of heat/cooling

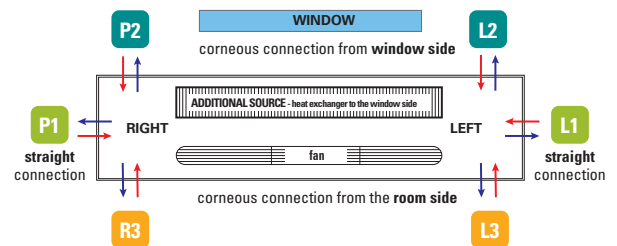
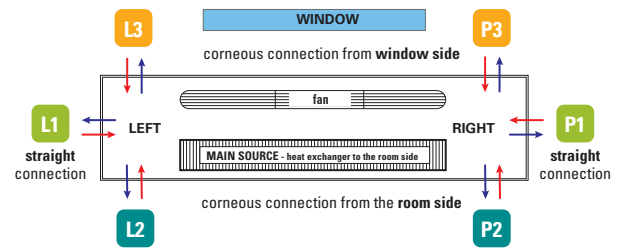
If the convector works as the main source of heat, we recommend orientation of the exchanger towards the room as the reaction of heating/cooling and the efficiency of heat transfer is the fastest for the most used parts of the room, room.

Convector as an additional source of heat/cooling

As an additional source of heat/cooling, the convector is used especially in the case of large glazed areas, when it prevents fogging of the glass, or creates a thermal barrier preventing the transfer of cold/heat from the space behind the windows. In this case, the convector is oriented with the exchanger towards the window.

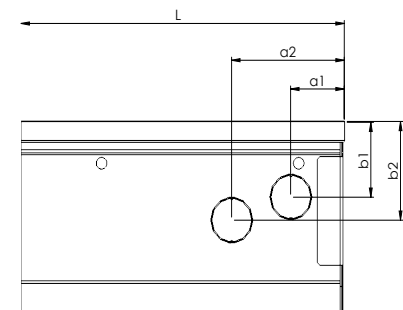
CONNECTION OPENINGS

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 on the right. The openings are placed symmetrically according to the longitudinal and transverse axes of the convector.

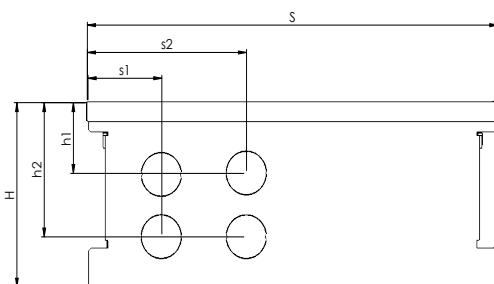


	S	s1	s2	H	h1	h2	a1	a2	b1	b2	c1	c2	c3	e1	e2
KT	243	51	121	90	48	-	57	95	48	-	57	95	145	48	-
KT	243	51	114	110	47	-	37	101	54	-	37	101	136	54	64
KT	243	51	114	125	62	-	37	101	62	-	37	101	136	62	72
KT	303	51	114	110	50	-	37	101	50	-	37	101	136	50	60
KT	303	50	112	125	52	-	39	76	52	-	39	76	126	52	-
KT4	303	65	128	125	46	86	39	76	49	78	39	110	140	49	78

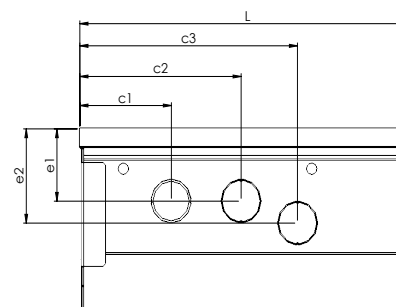
CORNEOUS CONNECTION P2



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 t _A = 20°C					
900	85/75	131	686	936	1224
	75/65	108	566	773	1010
	65/55	85	447	611	798
	45/40	47	244	333	435
1000	85/75	153	800	1092	1428
	75/65	126	660	901	1178
	65/55	100	522	712	931
	45/40	54	284	388	508
1250	85/75	207	1086	1482	1938
	75/65	171	896	1223	1599
	65/55	135	708	967	1264
	45/40	74	386	527	689
1500	85/75	262	1372	1873	2448
	75/65	216	1132	1545	2020
	65/55	171	894	1221	1596
	45/40	93	488	666	870
1750	85/75	316	1657	2263	2957
	75/65	261	1367	1867	2440
	65/55	206	1081	1476	1929
	45/40	112	589	805	1052
2000	85/75	371	1943	2653	3467
	75/65	306	1603	2189	2861
	65/55	242	1267	1730	2261
	45/40	132	691	943	1233
2250	85/75	425	2229	3043	3977
	75/65	351	1839	2511	3282
	65/55	277	1454	1985	2594
	45/40	151	793	1082	1414
2500	85/75	480	2514	3433	4487
	75/65	396	2075	2833	3702
	65/55	313	1640	2239	2926
	45/40	171	894	1221	1596
2750	85/75	534	2800	3823	4997
	75/65	441	2311	3155	4123
	65/55	349	1826	2493	3259
	45/40	190	996	1360	1777
3000	85/75	589	3086	4213	5507
	75/65	486	2546	3477	4544
	65/55	384	2013	2748	3591
	45/40	209	1097	1498	1958

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 t _A = 20°C					
900	85/75	131	936	1064	1257
	75/65	108	773	878	1037
	65/55	85	611	694	820
	45/40	47	333	378	447
1000	85/75	153	1092	1241	1467
	75/65	126	901	1024	1210
	65/55	100	712	809	957
	45/40	54	388	441	522
1250	85/75	207	1482	1684	1990
	75/65	171	1223	1390	1642
	65/55	135	967	1098	1298
	45/40	74	527	599	708
1500	85/75	262	1873	2128	2514
	75/65	216	1545	1756	2075
	65/55	171	1221	1388	1640
	45/40	93	666	757	894
1750	85/75	316	2263	2571	3038
	75/65	261	1867	2121	2507
	65/55	206	1476	1677	1981
	45/40	112	805	914	1080
2000	85/75	371	2653	3014	3562
	75/65	306	2189	2487	2939
	65/55	242	1730	1966	2323
	45/40	132	943	1072	1267
2250	85/75	425	3043	3457	4086
	75/65	351	2511	2853	3371
	65/55	277	1985	2255	2665
	45/40	151	1082	1229	1453
2500	85/75	480	3433	3901	4609
	75/65	396	2833	3218	3803
	65/55	313	2239	2544	3006
	45/40	171	1221	1387	1639
2750	85/75	534	3823	4344	5133
	75/65	441	3155	3584	4236
	65/55	349	2493	2833	3348
	45/40	190	1360	1545	1825
3000	85/75	589	4213	4787	5657
	75/65	486	3477	3950	4668
	65/55	384	2748	3122	3689
	45/40	209	1498	1702	2012

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 t _A = 20°C					
900	85/75	148	1019	1097	1398
	75/65	122	840	904	1152
	65/55	96	662	713	909
	45/40	52	359	387	493
1000	85/75	172	1189	1280	1631
	75/65	142	980	1054	1344
	65/55	112	773	832	1060
	45/40	61	419	451	575
1250	85/75	234	1614	1737	2214
	75/65	192	1329	1431	1824
	65/55	152	1049	1129	1439
	45/40	82	569	613	781
1500	85/75	295	2038	2194	2797
	75/65	243	1679	1808	2304
	65/55	192	1325	1426	1818
	45/40	104	719	774	986
1750	85/75	357	2463	2651	3380
	75/65	294	2029	2184	2784
	65/55	232	1601	1723	2197
	45/40	126	869	935	1192
2000	85/75	418	2887	3108	3962
	75/65	344	2379	2561	3264
	65/55	272	1877	2020	2575
	45/40	147	1018	1096	1397
2250	85/75	479	3312	3565	4545
	75/65	395	2729	2937	3744
	65/55	312	2153	2317	2954
	45/40	169	1168	1257	1603
2500	85/75	541	3737	4022	5128
	75/65	446	3079	3314	4225
	65/55	352	2429	2614	3333
	45/40	191	1318	1419	1809
2750	85/75	602	4161	4479	5710
	75/65	496	3428	3691	4705
	65/55	392	2705	2912	3712
	45/40	212	1468	1580	2014
3000	85/75	664	4586	4936	6293
	75/65	547	3778	4067	5185
	65/55	432	2981	3209	4090
	45/40	234	1617	1741	2220

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	207	1080	1188	1590
	75/65	170	888	976	1307
	65/55	134	698	768	1028
	45/40	72	376	413	554
1000	85/75	241	1260	1385	1855
	75/65	198	1036	1139	1525
	65/55	156	815	896	1199
	45/40	84	439	482	646
1250	85/75	327	1710	1880	2518
	75/65	269	1406	1545	2069
	65/55	212	1106	1216	1628
	45/40	114	596	655	877
1500	85/75	414	2160	2375	3180
	75/65	340	1776	1952	2614
	65/55	267	1397	1536	2056
	45/40	144	752	827	1107
1750	85/75	500	2610	2870	3843
	75/65	411	2146	2359	3159
	65/55	323	1688	1855	2485
	45/40	174	909	999	1338
2000	85/75	586	3060	3365	4505
	75/65	482	2515	2765	3703
	65/55	379	1979	2175	2913
	45/40	204	1066	1172	1569
2250	85/75	672	3511	3859	5168
	75/65	552	2885	3172	4248
	65/55	434	2270	2495	3341
	45/40	234	1222	1344	1799
2500	85/75	758	3961	4354	5831
	75/65	623	3255	3579	4792
	65/55	490	2561	2815	3770
	45/40	264	1379	1516	2030
2750	85/75	844	4411	4849	6493
	75/65	694	3625	3986	5337
	65/55	546	2852	3135	4198
	45/40	294	1536	1688	2261
3000	85/75	931	4861	5344	7156
	75/65	765	3995	4392	5881
	65/55	602	3143	3455	4626
	45/40	324	1692	1861	2492

KT 303 x 125

KT 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			
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

KT4 303 x 125

KT4 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.

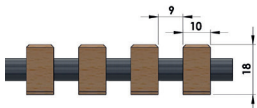
GRILLES - materials



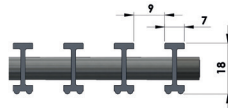
(shades of the grilles are only illustrative)

GRILLES - PROFILE

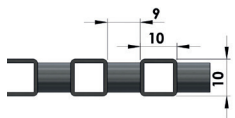
- wood-rolling-dense



- AL-rolling-dense



- st. steel-rolling-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
KT	243	110	PA	PE	PE	PI	PM	PN
KT	243	125	PA	PE	PE	PI	PM	PN
KT	303	90	PA	PE	PE	PI	PM	PN
KT	303	110	PA	PE	PE	PI	PM	PN
KT	303	125	PA	PE	PE	PI	PM	PN
KT4	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

ACOUSTIC PRESSURE

KT 243 x 90

length L [mm]	Speed		
	speed 1	speed 2	speed 3
	Equivalent acoustic pressure level LAeq,2m [dB]		
900	<28	<28	32,0
1000	<28	<28	32,2
1250	<28	<28	32,7
1500	<28	<28	33,2
1750	<28	<28	33,4
2000	<28	<28	33,6
2250	<28	<28	34,9
2500	<28	<28	36,1
2750	<28	<28	37,4
3000	<28	<28	38,6

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

ACOUSTIC PRESSURE

KT 243 x 110 , KT 234 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, KT4 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

CONVECTOR JOINTS

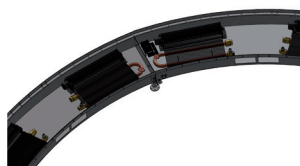
KT series convectors are manufactured up to 3000 mm in lengths as standard. Larger lengths can be achieved by joining multiple convectors behind each other. Optically, the joint appears to be one long convector. In this way, any lengths can be achieved, including the connection of angle, corner and to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

POSSIBLE ANGLES AND ARCS OF TRENCH HEATERS

ANGLE TYPE OF CONNECTION



ARC TYPE OF CONNECTION



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

INDIVIDUAL CALCULATION of technical data you can find on our website.

