

HCM 4P



EFFECTIVE DOUBLE-CIRCUIT TRENCH HEATER
WITH A FAN FOR HEATING AND COOLING



CHARACTERISTICS

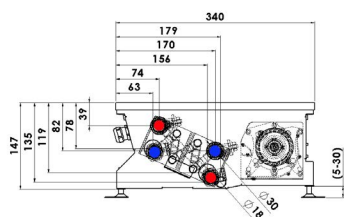
- body made from high quality stainless steel
- double-circuit connection - the heating and cooling circuit can be used separately
- high forced convection output
- rapid room heating, designed also for cooling
- heating also when the fan is off
- contains own microprocessor-controlled unit
- safe 12V DC voltage
- low electricity consumption
- also suitable for heat pump
- electronically commutated (EC) motor

DIMENSIONS

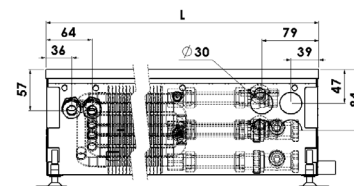
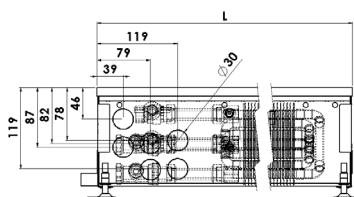
width - with standard frame	340 mm
width - with covering frame	366 mm
height	147 mm
length	900 - 3000 mm
connection *	G1/2"

* external thread on the heat-exchanger, without water connection accessories

CROSS SECTION

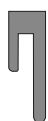


LONGITUDINAL SECTION

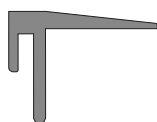


FRAMES

- Standard frame (AL-aluminium)



- Covering frame (AL-aluminium)



GRILLES - materials

	oak	maple	beech
WOOD			
	dark bronze	light bronze	silver
ALUMINIUM			
	stainless steel		
ST. STEEL			

(shades of the grilles are only illustrative)

GRILLES - profile

- wood-rolling-sparse
 - AL-rolling-sparse
- st. steel-rolling-sparse¹⁾

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

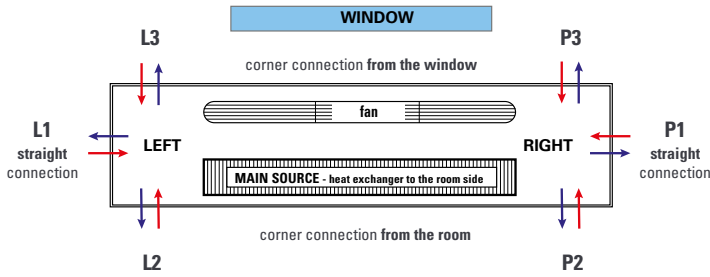
Standard grilles are transverse, if you are interested in **LONGITUDINAL GRILLES**, please contact your sales representative.

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

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

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

ORIENTATION AND CONNECTION OF THE CONVECTOR



If the convector is used as an **additional heat source** which prevents the condensation of the window (exchanger position at the window side), please consult with your sales representative. Combination of the exchanger position (**room side/window side**), convector type (**left/right**) and water connection (**straight/corner**) must be specified with the order of the convector.

HEATING OUTPUT

length L [mm]	heating output Q [W]				
	input / output water temperature [°C]	speed			
		speed 0	speed 1	speed 2	speed 3
09 = 900	85/75	181	1121	1260	1421
	75/65	149	923	1037	1170
	65/55	117	728	817	922
10 = 1000	45/40	64	394	442	499
	85/75	211	1308	1470	1658
	75/65	174	1077	1210	1365
12 = 1250	65/55	137	849	954	1076
	45/40	74	459	516	582
	85/75	287	1775	1995	2250
15 = 1500	75/65	236	1462	1642	1853
	65/55	186	1152	1294	1460
	45/40	101	624	701	790
17 = 1750	85/75	362	2243	2520	2842
	75/65	298	1846	2074	2340
	65/55	235	1455	1635	1844
20 = 2000	45/40	127	788	885	998
	85/75	438	2710	3045	3435
	75/65	360	2231	2506	2828
22 = 2250	65/55	284	1758	1975	2229
	45/40	154	952	1069	1206
	85/75	513	3177	3569	4027
25 = 2500	75/65	422	2616	2939	3315
	65/55	333	2061	2316	2613
	45/40	180	1116	1254	1414
27 = 2750	85/75	588	3644	4094	4619
	75/65	484	3000	3371	3803
	65/55	382	2365	2657	2997
30 = 3000	45/40	207	1280	1438	1622
	85/75	664	4112	4619	5211
	75/65	547	3385	3803	4290
30 = 3000	65/55	431	2668	2997	3381
	45/40	233	1444	1622	1830
	85/75	739	4579	5144	5803
30 = 3000	75/65	609	3770	4235	4778
	65/55	480	2971	3338	3765
	45/40	260	1608	1807	2038
30 = 3000	85/75	815	5046	5669	6395
	75/65	671	4154	4667	5265
	65/55	529	3274	3678	4150
30 = 3000	45/40	286	1772	1991	2246

COOLING OUTPUT

length L [mm]	cooling output Q [W]			
	input / output water temperature [°C]	relative humidity	speed	
			speed 2	speed 3
09 = 900	7/12	sensitive	569	751
	7/12	50%	697	920
	16/18	sensitive	356	469
10 = 1000	16/18	50%	356	469
	7/12	sensitive	664	876
	7/12	50%	814	1073
12 = 1250	16/18	sensitive	415	548
	16/18	50%	415	548
	7/12	sensitive	901	1189
15 = 1500	7/12	50%	1104	1457
	16/18	sensitive	563	743
	16/18	50%	563	743
17 = 1750	7/12	sensitive	1139	1502
	7/12	50%	1395	1840
	16/18	sensitive	712	939
20 = 2000	16/18	50%	712	939
	7/12	sensitive	1376	1815
	7/12	50%	1686	2223
22 = 2250	16/18	sensitive	860	1134
	16/18	50%	860	1134
	7/12	sensitive	1613	2128
25 = 2500	7/12	50%	1976	2607
	16/18	sensitive	1008	1330
	16/18	50%	1008	1330
27 = 2750	7/12	sensitive	1850	2441
	7/12	50%	2267	2990
	16/18	sensitive	1156	1525
30 = 3000	16/18	50%	1156	1525
	7/12	sensitive	2087	2754
	7/12	50%	2557	3373
30 = 3000	16/18	sensitive	1250	1648
	16/18	50%	1250	1648
	7/12	sensitive	2325	3066
30 = 3000	7/12	50%	2848	3757
	16/18	sensitive	1453	1916
	16/18	50%	1453	1916
30 = 3000	7/12	sensitive	2562	3379
	7/12	50%	3139	4140
	16/18	sensitive	1601	2112
30 = 3000	16/18	50%	1601	2112

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.

CONNECTION OPTIONS AND ACCESSORIES

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

The type of connection accessories varies according to the type and purpose of the convector. Connection accessories are packed separately and are not included in the standard convector delivery. Information on request from your sales representative or on our website.

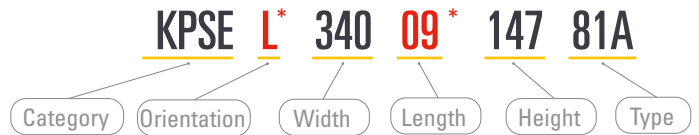
REGULATION OPTIONS

Type of regulation	Function of the convector	Control	Switched sources
EB-A ¹⁾ manual	heating cooling	BMS superior system	in mounting box: PSB 55W PSB 90W
EB-C semi-automatic	heating cooling	thermostat TH 0482	for DIN rail: PSD 55W PSD 90W PSD 115W

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)

EXAMPLE OF ORDER CODE



Orientation: L = left connection / P = right connection

*orientation and length complete according to the specification of the convector

ACOUSTIC PRESSURE

length L [mm]	Speed		
	speed 1	speed 2	speed 3
	Equivalent acoustic pressure level LAeq,2m [dB]		
900	30,8	32,6	38,8
1000	31,4	33,2	39,4
1250	32,8	34,7	40,9
1500	33,0	34,8	41,0
1750	34,1	35,9	42,0
2000	34,3	36,1	42,2
2250	34,5	36,3	42,4
2500	34,7	36,5	42,6
2750	34,9	36,7	42,8
3000	35,1	36,9	43,0

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

INPUT POWER

length [mm]	power [W]
900	20
1000	22
1250	31
1500	26
1750	35
2000	30
2250	42
2500	38
2750	50
3000	45

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

