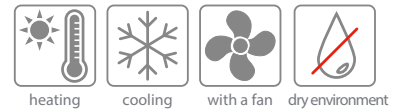


HC 4P



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



CHARACTERISTICS

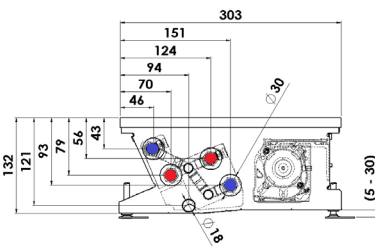
- body made from high quality stainless steel
- double-circuit connection - the heating and cooling circuit can be used separately
- high forced convection output
- rapid room heating, designed also for cooling
- heating also when the fan is off
- contains own microprocessor-controlled unit
- safe 12V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

DIMENSIONS

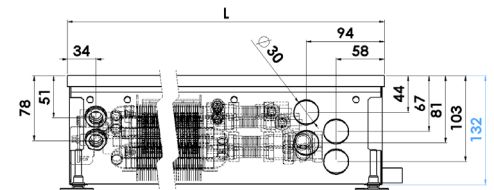
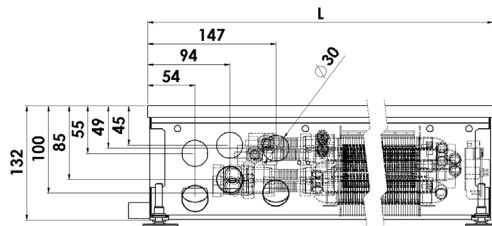
width - with standard frame	303 mm
width - with covering frame	329 mm
height	132 mm
length	900 - 3000 mm
connection *	G3/8"

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

CROSS SECTION



LONGITUDINAL SECTION

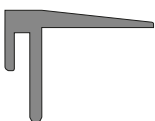


FRAMES

- Standard frame (AL-aluminium)



- Covering frame (AL-aluminium)

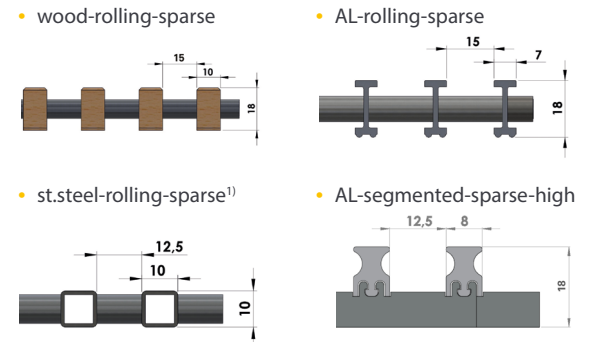


GRILLES - materials



(shades of the grilles are only illustrative)

GRILLES - profile



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

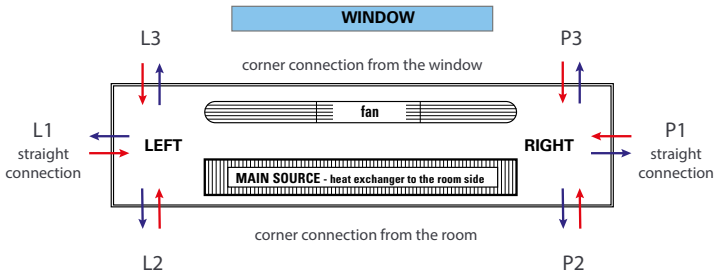
Standard grilles are transverse, if you are interested in LONGITUDINAL GRILLES, please contact your sales representative.

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

heating output Q [W]					
length L [mm]	input/output water temperature [°C]	speed			
		speed 0	speed 1	speed 2	speed 3
		air temperature t _A = 20°C			
09 = 900	85/75	145	767	1041	1249
	75/65	120	634	860	1032
	65/55	95	502	681	818
	45/40	52	275	373	448
10 = 1000	85/75	169	895	1215	1457
	75/65	140	740	1004	1205
	65/55	111	586	795	954
	45/40	61	321	436	523
12 = 1250	85/75	230	1215	1648	1978
	75/65	190	1004	1362	1635
	65/55	150	795	1079	1295
	45/40	82	436	591	710
15 = 1500	85/75	290	1534	2082	2499
	75/65	240	1268	1721	2065
	65/55	190	1004	1363	1635
	45/40	104	550	747	896
17 = 1750	85/75	351	1854	2516	3019
	75/65	290	1532	2080	2495
	65/55	230	1213	1647	1976
	45/40	126	665	903	1083
20 = 2000	85/75	411	2173	2950	3540
	75/65	340	1796	2438	2925
	65/55	269	1423	1931	2317
	45/40	148	780	1058	1270
22 = 2250	85/75	472	2493	3384	4060
	75/65	390	2060	2797	3356
	65/55	309	1632	2215	2658
	45/40	169	894	1214	1457
25 = 2500	85/75	532	2813	3818	4581
	75/65	440	2325	3155	3786
	65/55	348	1841	2499	2998
	45/40	191	1009	1369	1643
27 = 2750	85/75	593	3132	4251	5101
	75/65	490	2589	3514	4216
	65/55	388	2050	2783	3339
	45/40	213	1124	1525	1830
30 = 3000	85/75	653	3452	4685	5622
	75/65	540	2853	3872	4646
	65/55	428	2259	3067	3680
	45/40	234	1238	1681	2017

COOLING OUTPUT

cooling output Q [W]					
length L [mm]	input/output water temperature [°C]	relative humidity	speed		
			speed 2	speed 3	
			air temperature t _A = 27°C		
09 = 900	7/12	sensitive	262	358	
	7/12	50%	330	451	
	16/18	sensitive	150	205	
	16/18	50%	150	205	
10 = 1000	7/12	sensitive	305	418	
	7/12	50%	385	526	
	16/18	sensitive	175	239	
	16/18	50%	175	239	
12 = 1250	7/12	sensitive	415	567	
	7/12	50%	522	714	
	16/18	sensitive	237	324	
	16/18	50%	237	324	
15 = 1500	7/12	sensitive	524	716	
	7/12	50%	659	902	
	16/18	sensitive	299	409	
	16/18	50%	299	409	
17 = 1750	7/12	sensitive	633	865	
	7/12	50%	797	1090	
	16/18	sensitive	362	494	
	16/18	50%	362	494	
20 = 2000	7/12	sensitive	742	1014	
	7/12	50%	934	1277	
	16/18	sensitive	424	580	
	16/18	50%	424	580	
22 = 2250	7/12	sensitive	851	1164	
	7/12	50%	1072	1465	
	16/18	sensitive	486	665	
	16/18	50%	486	665	
25 = 2500	7/12	sensitive	960	1313	
	7/12	50%	1209	1653	
	16/18	sensitive	521	713	
	16/18	50%	521	713	
27 = 2750	7/12	sensitive	1069	1462	
	7/12	50%	1346	1841	
	16/18	sensitive	611	835	
	16/18	50%	611	835	
30 = 3000	7/12	sensitive	1178	1611	
	7/12	50%	1484	2029	
	16/18	sensitive	673	921	
	16/18	50%	673	921	

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.

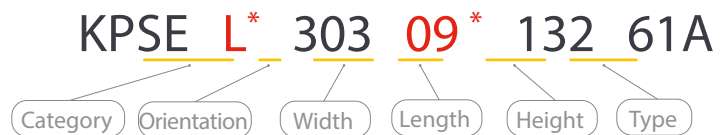
REGULATION OPTIONS

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

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 L _{Aeq,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

INPUT POWER

length [mm]	power [W]
900	5
1000	7
1250	8
1500	12
1750	13
2000	14
2250	19
2500	20
2750	24
3000	25

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

