HCX

VERY EFFICIENT SINGLE-CIRCUIT TRENCH HEATER WITH A FAN FOR HEATING AND COOLING

heating | cooling | with a fan | dry environment

CHARACTERISTICS

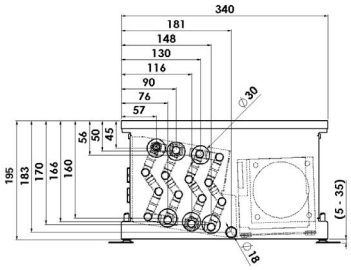
- **body made from high quality stainless steel**
- high forced convection output
- rapid room heating
- heating also when the fan is off
- contains own microprocessor-controlled unit
- designed also for cooling
- safe 24 V DC voltage
- low electricity consumption
- also suitable for heat pump
- electronically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

DIMENSIONS

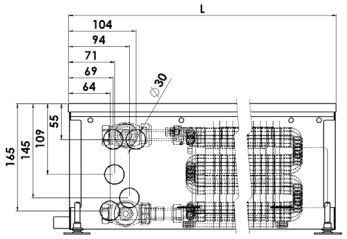
width - with standard frame	340 mm
width - with covering frame	366 mm
height	195 mm
length	900 - 3000 mm
connection *	G1/2“

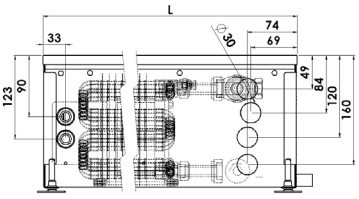
* external thread on the heat-exchanger, without water connection accessories

CROSS SECTION



LONGITUDINAL SECTION

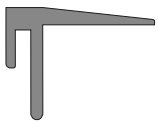




FRAMES

- Standard frame (AL-aluminium)

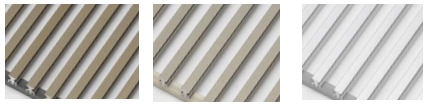
- Covering frame (AL-aluminium)



GRILLES - materials

WOOD: oak | maple | beech

ALUMINIUM: dark bronze | light bronze | silver

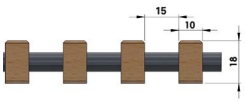


ST.STEEL: stainless steel

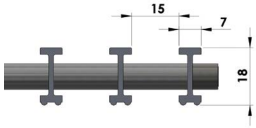
(shades of the grilles are only illustrative)

GRILLES - profile

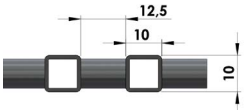
- wood-rolling-sparse



- AL-rolling-sparse



- st.steel-rolling-sparse[1)]



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

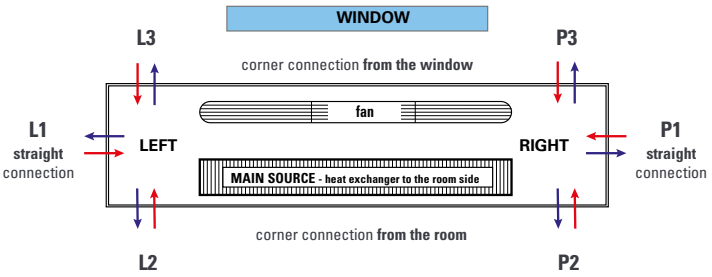
Standard grilles are transverse, if you are interested in **LONGITUDINAL GRILLES**, please contact your sales representative.

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]	input / output water temperature [°C]	heating output Q [W] speed 0	speed 1	speed 2	speed 3
		air temperature tA = 20°C			
09 = 900	85/75	265	2429	3945	5841
	75/65	222	2037	3309	4899
	65/55	179	1643	2668	3950
	45/40	103	943	1531	2267
10 = 1000	85/75	309	2834	4603	6814
	75/65	259	2377	3860	5715
	65/55	209	1916	3113	4608
	45/40	120	1100	1787	2645
12 = 1250	85/75	419	3846	6247	9248
	75/65	352	3226	5239	7756
	65/55	283	2601	4224	6254
	45/40	163	1493	2425	3589
15 = 1500	85/75	529	4858	7891	11681
	75/65	444	4075	6618	9797
	65/55	358	3285	5336	7899
	45/40	205	1886	3063	4534
17 = 1750	85/75	640	5870	9535	14115
	75/65	537	4923	7997	11838
	65/55	433	3970	6448	9545
	45/40	248	2279	3701	5479
20 = 2000	85/75	750	6883	11179	16549
	75/65	629	5772	9375	13879
	65/55	507	4654	7559	11191
	45/40	291	2671	4339	6423
22 = 2250	85/75	860	7895	12823	18982
	75/65	722	6621	10754	15920
	65/55	582	5339	8671	12836
	45/40	334	3064	4977	7368
25 = 2500	85/75	971	8907	14466	21416
	75/65	814	7470	12133	17961
	65/55	656	6023	9783	14482
	45/40	377	3457	5615	8312
27 = 2750	85/75	1081	9919	16110	23850
	75/65	907	8319	13512	20002
	65/55	731	6707	10894	16128
	45/40	420	3850	6253	9257
30 = 3000	85/75	1191	10931	17754	26283
	75/65	999	9168	14890	22043
	65/55	805	7392	12006	17773
	45/40	462	4243	6891	10201

COOLING OUTPUT

length L [mm]	input / output water temperature [°C]	relative humidity	cooling output Q [W] speed 2	speed 3
			air temperature tA = 27°C	
09 = 900	7/12	sensitive	700	1069
	7/12	50%	883	1349
	16/18	sensitive	400	611
	16/18	50%	400	611
10 = 1000	7/12	sensitive	816	1247
	7/12	50%	1030	1573
	16/18	sensitive	466	712
	16/18	50%	466	712
12 = 1250	7/12	sensitive	1108	1692
	7/12	50%	1398	2135
	16/18	sensitive	633	967
	16/18	50%	633	967
15 = 1500	7/12	sensitive	1399	2137
	7/12	50%	1766	2697
	16/18	sensitive	800	1221
	16/18	50%	800	1221
17 = 1750	7/12	sensitive	1691	2583
	7/12	50%	2134	3259
	16/18	sensitive	966	1476
	16/18	50%	966	1476
20 = 2000	7/12	sensitive	1982	3028
	7/12	50%	2502	3821
	16/18	sensitive	1133	1730
	16/18	50%	1133	1730
22 = 2250	7/12	sensitive	2274	3473
	7/12	50%	2870	4383
	16/18	sensitive	1299	1985
	16/18	50%	1299	1985
25 = 2500	7/12	sensitive	2566	3918
	7/12	50%	3238	4945
	16/18	sensitive	1393	2127
	16/18	50%	1393	2127
27 = 2750	7/12	sensitive	2857	4364
	7/12	50%	3606	5507
	16/18	sensitive	1633	2494
	16/18	50%	1633	2494
30 = 3000	7/12	sensitive	3149	4809
	7/12	50%	3973	6069
	16/18	sensitive	1799	2748
	16/18	50%	1799	2748

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	potentiometer [2]	in mounting box: PSB 55W, PSB 90W
		potentiometer + thermostat	
		customer thermostat for 24V or 230V + ADA converter	
	heating cooling	BMS superior system	
EB-B automatic	heating	thermostat CH-110	for DIN rail: PSD 55W, PSD 90W, PSD 115W
		thermostat CH-150	
		customer thermostat for 24V or 230V + ADA converter	
EB-C semi-automatic	heating cooling	thermostat TH 0482	
	heating	customer thermostat for 24V 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)
2) external potential-free switching, e.g. via a boiler

EXAMPLE OF ORDER CODE

KPSF L* 340 09* 195 G1A

Category | Orientation | Width | Length | Height | Type

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	28,8	34,8	48,8
1000	29,0	35,0	49,0
1250	29,5	35,5	49,5
1500	30,0	36,0	50,0
1750	31,0	37,0	51,0
2000	32,0	38,0	52,0
2250	32,3	38,3	52,3
2500	32,5	38,5	52,5
2750	32,8	38,8	52,8
3000	33,0	39,0	53,0

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

INPUT POWER

length [mm]	power [W] EC MOTOR
900	17
1000	18
1250	50
1500	75
1750	84
2000	90
2250	93
2500	102
2750	150
3000	168

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