

HT FLOOR CONVECTOR WITH FAN



heat pump



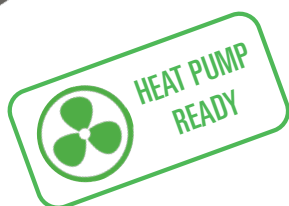
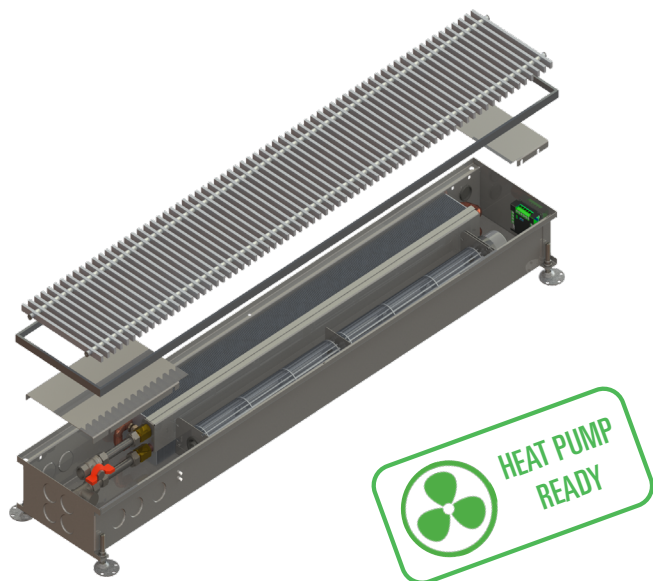
heating



with a fan



dry environment



Convectors of the HT series are an ideal combination of high performance and very quiet operation. Even at low temperatures of the heating medium, they are an excellent choice for use **with a heat pump** due to their efficient heat transfer.

Quiet operation

HT series convectors have a low noise level. At low and medium speeds they do not exceed normal background noise. The smooth operation of the fan is ensured by a microprocessor control unit.

Compatibility with control systems

The control unit also offers a wide range of settings that allow optimal convector control using different types of thermostats, systems for building management (BMS) or Smart Home systems. By default, you can set the type of regulation, the control values of the regulation voltage, the range and speed of the fan, the type of electrothermic heads and the limit temperature of the heating medium.

Ecological and economic solution

Due to the low volume of water in the exchanger and the high heat transfer efficiency is the HT line suitable 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 HT series convectors can be ordered with the complete accessories needed for easy installation and a reliable function. You can find an overview of accessories on the MINIB website.

CHARACTERISTICS

- **minimal dimensions with very high performance**
- forced convection (heats even without the fan on)
- 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
- ideal for low-temperature energy sources

DIMENSIONS

width (with standard frame)	185 / 225 mm
height	90 ³⁾ mm
length ¹⁾	900 - 3000 mm
connection ²⁾	G1/2"

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

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

3) 98 mm when choosing the wooden grill or AL grill 18 mm

ORDER CODE

KPSD P* 185 09* 090 41C					
Category	Orientation	Width	Length	Height	Type
185 x 90		KPSD P* 185 09* 090 41C			
225 x 90		KPSD P* 225 09* 090 61C			

* 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 HT series convectors, it is necessary to specify the orientation of the convector (left/right) and the water connection orientation (straight/corneous).

Convector as the main source of heat/cooling

If the convector works as the main heat/cooling source we recommend to install the convector with the exchanger to the room side.

Convector as an additional source of heat/cooling

If the convector is used as an additional heat/cooling source, which prevents the condensation of the window and creates a thermal barrier preventing the transfer of cold/heat from the space behind the windows, we recommend to install the convector with the heat exchanger towards the window.

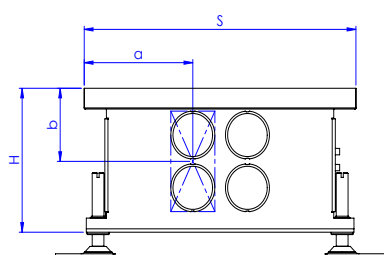
CONNECTION OPENINGS

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.

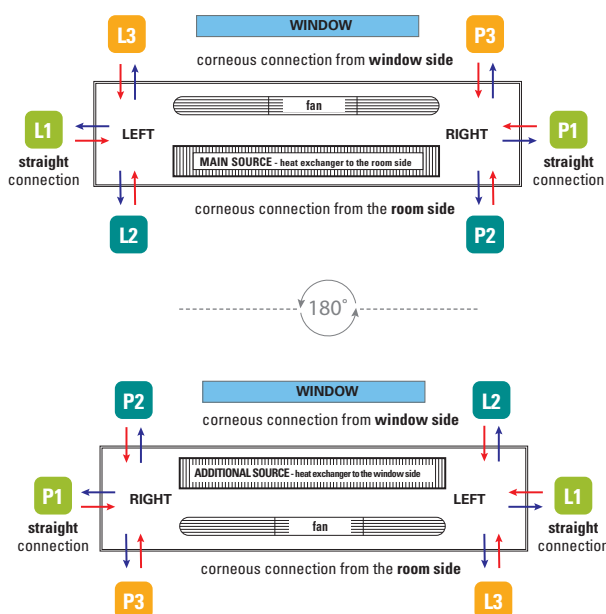
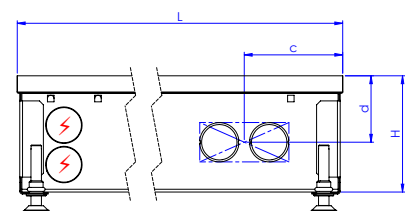
The positions of the connection openings for the individual dimensions of the convector are shown in the drawings. The openings are placed symmetrically according to the longitudinal and transverse axes of the convector.

	S	H	a	b	c	d	e	f
HT 185x90	185	90	74	46	75	51	100	51
HT 225x90	225	90	77	53	75	51	100	51

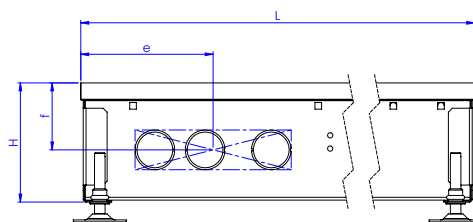
STRAIGHT CONNECTION P1



CORNEOUS CONNECTION P2



CORNEOUS CONNECTION P3



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
185 x 90	PB ¹⁾	PF ¹⁾	PF ¹⁾	PJ ¹⁾	PO ¹⁾	PO ¹⁾
225 x 90	PC	PG	PG	PK	PR	PS

¹⁾ due to small size of the convector, it is necessary to take into account less space for connection accessories

HEATING POWER

HT 185 x 90

HT 185 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	118	880	1278	1676
	75/65	98	731	1062	1393
	65/55	78	583	847	1112
	45/40	44	326	473	621
1000	85/75	138	1026	1491	1955
	75/65	114	853	1239	1626
	65/55	91	681	989	1297
	45/40	51	380	552	724
1250	85/75	187	1393	2023	2654
	75/65	155	1158	1682	2206
	65/55	124	924	1342	1760
	45/40	69	516	749	983
1500	85/75	236	1759	2555	3352
	75/65	196	1462	2125	2787
	65/55	156	1167	1695	2223
	45/40	87	651	946	1241
1750	85/75	285	2126	3088	4050
	75/65	237	1767	2567	3367
	65/55	189	1410	2048	2686
	45/40	106	787	1144	1500
2000	85/75	334	2492	3620	4748
	75/65	278	2072	3010	3948
	65/55	222	1653	2401	3149
	45/40	124	923	1341	1759
2250	85/75	383	2858	4153	5447
	75/65	319	2377	3453	4528
	65/55	254	1896	2754	3613
	45/40	142	1059	1538	2017
2500	85/75	432	3225	4685	6145
	75/65	359	2681	3895	5109
	65/55	287	2139	3107	4076
	45/40	160	1194	1735	2276
2750	85/75	481	3591	5217	6843
	75/65	400	2986	4338	5690
	65/55	319	2382	3460	4539
	45/40	178	1330	1932	2535
3000	85/75	530	3958	5750	7542
	75/65	441	3291	4780	6270
	65/55	352	2625	3813	5002
	45/40	196	1466	2129	2793

HT 225 x 90

HT 225 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	136	1278	1844	2219
	75/65	114	1068	1541	1854
	65/55	91	858	1237	1489
	45/40	52	487	702	845
1000	85/75	159	1491	2151	2588
	75/65	133	1246	1798	2163
	65/55	106	1001	1443	1737
	45/40	60	568	819	986
1250	85/75	215	2024	2919	3513
	75/65	180	1692	2440	2936
	65/55	144	1358	1959	2357
	45/40	82	771	1112	1338
1500	85/75	272	2557	3687	4437
	75/65	227	2137	3082	3708
	65/55	182	1716	2474	2977
	45/40	104	974	1405	1690
1750	85/75	328	3089	4455	5361
	75/65	275	2582	3724	4481
	65/55	220	2073	2990	3598
	45/40	125	1177	1697	2043
2000	85/75	385	3622	5223	6286
	75/65	322	3027	4366	5254
	65/55	258	2430	3505	4218
	45/40	147	1380	1990	2395
2250	85/75	442	4154	5992	7210
	75/65	369	3472	5008	6026
	65/55	296	2788	4021	4838
	45/40	168	1583	2283	2747
2500	85/75	498	4687	6760	8135
	75/65	417	3917	5650	6799
	65/55	334	3145	4536	5459
	45/40	190	1786	2575	3099
2750	85/75	555	5220	7528	9059
	75/65	464	4362	6292	7571
	65/55	372	3503	5051	6079
	45/40	211	1989	2868	3451
3000	85/75	612	5752	8296	9983
	75/65	511	4808	6934	8344
	65/55	410	3860	5567	6699
	45/40	233	2191	3161	3803

ACOUSTIC PRESSURE

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

INPUT POWER

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

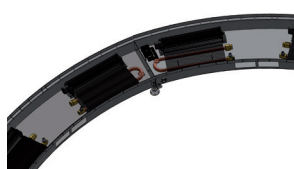


CONVECTOR JOINTS

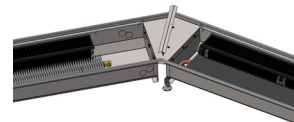
HT series convectors are manufactured up to 3000 mm in lengths as standard. Larger lengths can be achieved by joining multiple convectors behind each other. Optically, the joint appears to be one long convector. In this way, any lengths can be achieved, including the connection of angle, corner and to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

POSSIBLE ANGLES AND ARCS OF TRENCH HEATERS

ANGLE TYPE OF CONNECTION



ARC TYPE OF CONNECTION



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

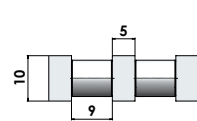
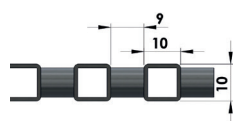
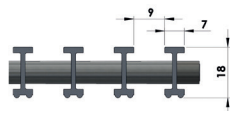
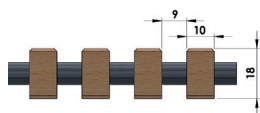
Stainless steel grille must be ordered with the convector due to the modification of the convector construction. Standard grilles are transverse. If you are interested in LONGITUDINAL GRILLES, please contact your sales representative.

GRILLES - materials



GRILLES - PROFILE

- wood-rolling/stable-dense¹⁾²⁾
- AL-rolling/stable-dense - 18 mm¹⁾²⁾
- st.steel-rolling/stable-dense
- AL-rolling/stable-dense -silver -10mm³⁾



¹⁾ the grill must be ordered with a convector

²⁾ when ordering a wooden grill or an 18 mm AL grill, the height of the convector will increase by 8mm

³⁾ standard color is silver, for other colors please contact your sales representative

COMPATIBLE FRAMES

- 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.

REGULATION OPTIONS

Type of regulation	Function of the convector	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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