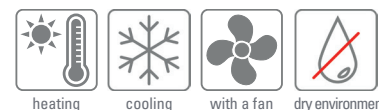


HC



HIGHLY EFFICIENT FLOOR CONVECTOR WITH FAN FOR HEATING AND COOLING



HC series convectors are designed for the highest heating and cooling outputs. 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

HC 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. As standard, the regulation type, control values of the control voltage, the range and speed of the fan, the type of electroterm heads and the threshold temperature of the heating and cooling medium can be set.

Ecological and economic solution

Due to the low volume of water in the exchanger and the high heat transfer efficiency, are the HC 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 HC 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

- **stainless steel body**
- high heating and cooling performance of forced convection
- heats even when the fan is off
- rapid heating/cooling of the room
- safe voltage 24 V EC
- electronically commutated (EC) fan motor
- wide options of setting the microprocessor control unit
- also suitable for a heat pump
- wide size range

DIMENSIONS

widths (with standard frame)	200 / 260 / 340 ¹⁾ mm
heights	110 / 150 ²⁾ mm
length ³⁾	900 - 3000 mm
connection ⁴⁾	G1/2", G3/8"

1) + 16mm for type air

2) by default only for width 340 mm

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

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

ORDER CODE

KPSF	P*	200	09*	110	41C
Category	Orientation	Width	Length	Height	Type

200 x 110	2p	KPSF P* 200 09* 110 41A
260 x 110	2p	KPSF P* 260 09* 110 61A
	4p	KPSE P* 260 09* 110 61A
340 x 110	2p	KPSF P* 340 09* 110 81A
	4p	KPSE P* 340 09* 110 81A
356 x 110	air	KPSH P* 356 09* 110 81A
	4p air	KPSG P* 356 09* 110 81A
340 x 150	2p	KPSF P* 340 09* 150 C1A
	4p	KPSE P* 340 09* 150 C1A

* 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.

ORIENTATION AND CONNECTION

When ordering convectors of the HC 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

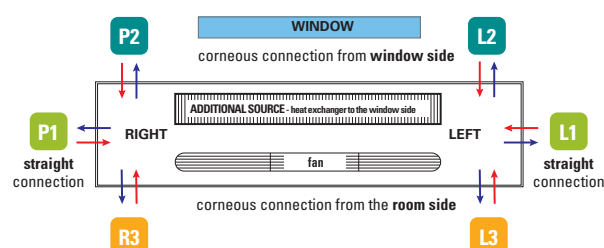
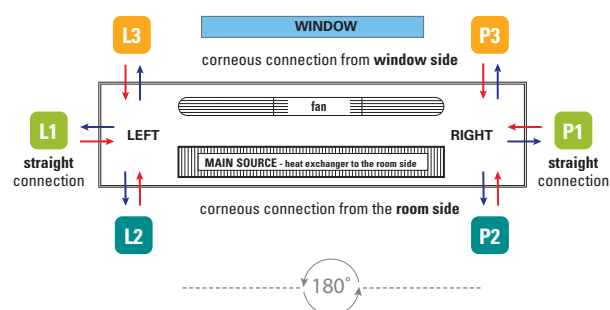
If the convector works as the main source of heat, we recommend orientation of the exchanger towards the room as the reaction of heating/cooling and the efficiency of heat transfer is the fastest for the most used parts of the room, room.

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.

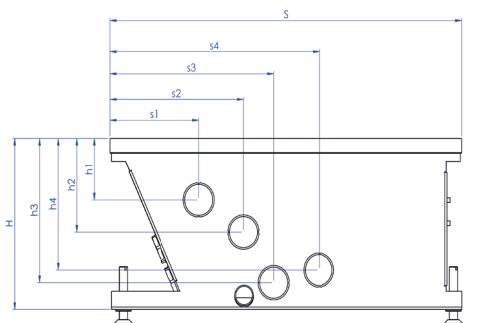
CONNECTION OPENINGS

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.

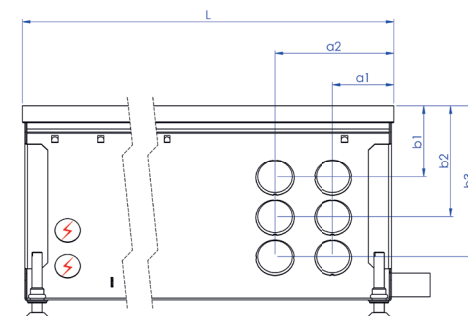


	S	s1	s2	s3	s4	H	h1	h2	h3	h4	a1	a2	b1	b2	b3	c1	c2	c3	e1	e2	e3
200x110	200	91	91	—	—	110	43	76	—	—	58	94	41	77	—	58	94	131	46	83	—
260x110	260	57	69	130	141	110	81	42	86	42	58	94	41	77	—	58	94	131	46	83	—
340x110	340	86	97	191	202	110	42	86	42	86	58	94	48	80	—	58	94	131	46	83	—
356x110 Air	356	102	113	207	218	110	42	86	42	86	58	94	48	80	—	58	94	131	46	83	—
340x150	340	86	129	158	202	150	54	82	126	115	48	94	54	87	120	48	94	131	54	87	120

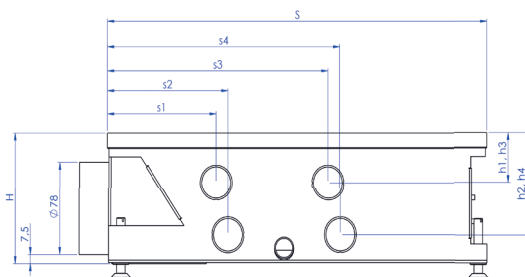
STRAIGHT CONNECTION P1



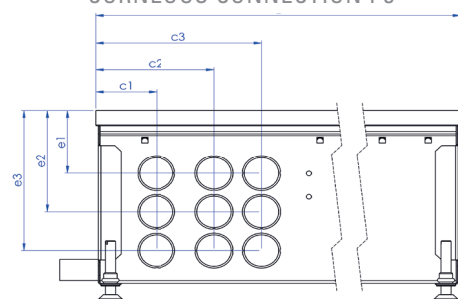
CORNEOUS CONNECTION P2



STRAIGHT CONNECTION P1 - type AIR



CORNEOUS CONNECTION P3



HEATING AND COOLING POWER

HC 200 x 110

HC 200 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	119	888	1291	1693
	75/65	99	739	1073	1407
	65/55	79	589	856	1123
	45/40	44	329	478	627
1000	85/75	139	1036	1506	1975
	75/65	116	862	1252	1642
	65/55	92	687	999	1310
	45/40	51	384	558	731
1250	85/75	189	1407	2044	2680
	75/65	157	1169	1699	2228
	65/55	125	933	1355	1778
	45/40	70	521	757	993
1500	85/75	238	1777	2581	3386
	75/65	198	1477	2146	2815
	65/55	158	1178	1712	2246
	45/40	88	658	956	1254
1750	85/75	288	2147	3119	4091
	75/65	239	1785	2593	3401
	65/55	191	1424	2069	2713
	45/40	107	795	1155	1515
2000	85/75	337	2517	3657	4796
	75/65	281	2093	3040	3988
	65/55	224	1669	2425	3181
	45/40	125	932	1354	1776
2250	85/75	387	2887	4195	5502
	75/65	322	2401	3487	4574
	65/55	257	1915	2782	3649
	45/40	143	1069	1553	2038
2500	85/75	437	3257	4732	6207
	75/65	363	2708	3934	5161
	65/55	290	2160	3139	4117
	45/40	162	1206	1753	2299
2750	85/75	486	3628	5270	6913
	75/65	404	3016	4382	5747
	65/55	322	2406	3495	4585
	45/40	180	1344	1952	2560
3000	85/75	536	3998	5808	7618
	75/65	446	3324	4829	6334
	65/55	355	2652	3852	5053
	45/40	198	1481	2151	2821

HC 200 x 110 cooling power Q [W]					
length L [mm]	input/output water temperature °C	relative humidity [%]	fan speed		
			low	medium	high
			air temperature TA=27°C		
900	7/12	sensitive	193	302	411
	7/12	50	254	398	542
	16/18	sensitive	116	182	247
	16/18	50	116	182	247
1000	7/12	sensitive	225	352	479
	7/12	50	297	465	633
	16/18	sensitive	135	212	289
	16/18	50	135	212	289
1250	7/12	sensitive	305	477	650
	7/12	50	403	631	859
	16/18	sensitive	184	288	392
	16/18	50	184	288	392
1500	7/12	sensitive	385	603	821
	7/12	50	509	797	1085
	16/18	sensitive	232	363	495
	16/18	50	232	363	495
1750	7/12	sensitive	465	729	992
	7/12	50	615	963	1310
	16/18	sensitive	280	439	598
	16/18	50	280	439	598
2000	7/12	sensitive	546	854	1163
	7/12	50	721	1129	1536
	16/18	sensitive	329	515	701
	16/18	50	329	515	701
2250	7/12	sensitive	626	980	1334
	7/12	50	827	1295	1762
	16/18	sensitive	377	591	804
	16/18	50	377	591	804
2500	7/12	sensitive	706	1106	1505
	7/12	50	933	1461	1988
	16/18	sensitive	406	636	866
	16/18	50	406	636	866
2750	7/12	sensitive	787	1231	1676
	7/12	50	1039	1627	2214
	16/18	sensitive	474	742	1010
	16/18	50	474	742	1010
3000	7/12	sensitive	867	1357	1847
	7/12	50	1145	1793	2440
	16/18	sensitive	522	818	1113
	16/18	50	522	818	1113

HC 260 x 110

HC 260 x 110 heating power Q [W]					
length L [mm]	input/ output water temperature [°C]	fan speed			
		off	low	medium	high
900	85/75	137	1291	1862	2241
	75/65	115	1079	1556	1873
	65/55	92	866	1250	1504
	45/40	52	492	709	854
1000	85/75	160	1506	2173	2614
	75/65	134	1259	1816	2185
	65/55	107	1011	1458	1754
	45/40	61	574	828	996
1250	85/75	217	2044	2948	3548
	75/65	182	1709	2464	2966
	65/55	146	1372	1979	2381
	45/40	83	779	1123	1352
1500	85/75	275	2582	3724	4482
	75/65	230	2158	3113	3746
	65/55	184	1733	2499	3008
	45/40	105	984	1419	1707
1750	85/75	332	3120	4500	5416
	75/65	277	2608	3761	4526
	65/55	223	2094	3020	3634
	45/40	126	1189	1714	2063
2000	85/75	389	3658	5276	6349
	75/65	325	3058	4410	5307
	65/55	261	2455	3540	4261
	45/40	148	1394	2010	2419
2250	85/75	446	4196	6052	7283
	75/65	373	3507	5058	6087
	65/55	299	2816	4061	4887
	45/40	170	1599	2306	2775
2500	85/75	503	4734	6828	8217
	75/65	421	3957	5707	6868
	65/55	338	3177	4582	5514
	45/40	192	1804	2601	3130
2750	85/75	561	5272	7604	9151
	75/65	469	4407	6355	7648
	65/55	376	3538	5102	6140
	45/40	214	2009	2897	3486
3000	85/75	618	5810	8380	10084
	75/65	516	4856	7004	8428
	65/55	415	3899	5623	6767
	45/40	235	2214	3192	3842

HC 260 x 110 cooling power Q [W]					
length L [mm]	input/ output water temperature [°C]	relative humidity [%]	fan speed		
			low	medium	high
900	7/12	sensitive	272	405	537
	7/12	50	349	519	689
	16/18	sensitive	164	244	323
	16/18	50	164	244	323
1000	7/12	sensitive	318	472	627
	7/12	50	407	605	803
	16/18	sensitive	191	284	377
	16/18	50	191	284	377
1250	7/12	sensitive	431	641	850
	7/12	50	552	821	1090
	16/18	sensitive	259	386	512
	16/18	50	259	386	512
1500	7/12	sensitive	544	809	1074
	7/12	50	698	1038	1377
	16/18	sensitive	328	487	647
	16/18	50	328	487	647
1750	7/12	sensitive	658	978	1298
	7/12	50	843	1254	1664
	16/18	sensitive	396	589	781
	16/18	50	396	589	781
2000	7/12	sensitive	771	1146	1522
	7/12	50	989	1470	1951
	16/18	sensitive	464	690	916
	16/18	50	464	690	916
2250	7/12	sensitive	885	1315	1746
	7/12	50	1134	1686	2238
	16/18	sensitive	532	792	1051
	16/18	50	532	792	1051
2500	7/12	sensitive	998	1484	1969
	7/12	50	1279	1902	2525
	16/18	sensitive	573	853	1132
	16/18	50	573	853	1132
2750	7/12	sensitive	1111	1652	2193
	7/12	50	1425	2118	2812
	16/18	sensitive	669	995	1320
	16/18	50	669	995	1320
3000	7/12	sensitive	1225	1821	2417
	7/12	50	1570	2335	3099
	16/18	sensitive	737	1096	1455
	16/18	50	737	1096	1455

HC4P 260 x 110

HC4P 260 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	150	803	1070	1294
	75/65	124	664	884	1070
	65/55	98	526	700	847
	45/40	54	288	384	464
1000	85/75	175	937	1248	1510
	75/65	145	774	1032	1248
	65/55	115	613	817	989
	45/40	63	336	448	542
1250	85/75	238	1272	1694	2050
	75/65	197	1051	1400	1694
	65/55	156	832	1109	1342
	45/40	85	456	608	735
1500	85/75	300	1606	2140	2589
	75/65	248	1327	1769	2140
	65/55	197	1051	1401	1695
	45/40	108	576	768	929
1750	85/75	363	1941	2586	3128
	75/65	300	1604	2137	2586
	65/55	238	1270	1693	2048
	45/40	130	696	928	1122
2000	85/75	426	2275	3032	3668
	75/65	352	1881	2506	3031
	65/55	279	1489	1984	2401
	45/40	153	816	1088	1316
2250	85/75	488	2610	3477	4207
	75/65	403	2157	2874	3477
	65/55	320	1708	2276	2754
	45/40	175	936	1247	1509
2500	85/75	551	2945	3923	4746
	75/65	455	2434	3243	3923
	65/55	360	1927	2568	3107
	45/40	198	1056	1407	1703
2750	85/75	613	3279	4369	5286
	75/65	507	2710	3611	4369
	65/55	401	2146	2860	3460
	45/40	220	1176	1567	1896
3000	85/75	676	3614	4815	5825
	75/65	559	2987	3980	4815
	65/55	442	2365	3152	3813
	45/40	242	1296	1727	2090

HC 340 x 110 / HC air 356 x 110

HC4P 260 x 110 cooling power Q [W]					
length L [mm]	input/output water temperature [°C]	relative humidity [%]	fan speed		
			low	medium	high
			air temperature TA=27°C		
900	7/12	sensitive	166	262	358
	7/12	50	209	330	451
	16/18	sensitive	95	150	205
	16/18	50	95	150	205
1000	7/12	sensitive	193	305	418
	7/12	50	243	385	526
	16/18	sensitive	110	175	239
	16/18	50	110	175	239
1250	7/12	sensitive	262	415	567
	7/12	50	330	522	714
	16/18	sensitive	150	237	324
	16/18	50	150	237	324
1500	7/12	sensitive	331	524	716
	7/12	50	417	659	902
	16/18	sensitive	189	299	409
	16/18	50	189	299	409
1750	7/12	sensitive	400	633	865
	7/12	50	504	797	1090
	16/18	sensitive	229	362	494
	16/18	50	229	362	494
2000	7/12	sensitive	469	742	1014
	7/12	50	591	934	1277
	16/18	sensitive	268	424	580
	16/18	50	268	424	580
2250	7/12	sensitive	538	851	1164
	7/12	50	678	1072	1465
	16/18	sensitive	308	486	665
	16/18	50	308	486	665
2500	7/12	sensitive	607	960	1313
	7/12	50	765	1209	1653
	16/18	sensitive	330	521	713
	16/18	50	330	521	713
2750	7/12	sensitive	676	1069	1462
	7/12	50	852	1346	1841
	16/18	sensitive	386	611	835
	16/18	50	386	611	835
3000	7/12	sensitive	745	1178	1611
	7/12	50	939	1484	2029
	16/18	sensitive	426	673	921
	16/18	50	426	673	921

HC 340 x 110/ HC air 356 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	190	1935	2447	3041
	75/65	160	1627	2058	2558
	65/55	129	1316	1665	2069
	45/40	75	762	964	1198
1000	85/75	221	2257	2855	3548
	75/65	186	1898	2401	2984
	65/55	151	1535	1942	2414
	45/40	87	889	1124	1397
1250	85/75	300	3063	3875	4816
	75/65	253	2576	3259	4050
	65/55	204	2084	2636	3276
	45/40	118	1206	1526	1896
1500	85/75	379	3869	4894	6083
	75/65	319	3254	4116	5115
	65/55	258	2632	3330	4138
	45/40	149	1524	1927	2396
1750	85/75	458	4675	5914	7350
	75/65	385	3932	4974	6181
	65/55	312	3180	4023	5000
	45/40	181	1841	2329	2895
2000	85/75	537	5481	6934	8617
	75/65	452	4609	5831	7247
	65/55	366	3729	4717	5862
	45/40	212	2159	2731	3394
2250	85/75	616	6287	7954	9885
	75/65	518	5287	6689	8313
	65/55	419	4277	5411	6725
	45/40	243	2476	3132	3893
2500	85/75	696	7093	8973	11152
	75/65	585	5965	7546	9378
	65/55	473	4826	6104	7587
	45/40	274	2793	3534	4392
2750	85/75	775	7899	9993	12419
	75/65	651	6643	8404	10444
	65/55	527	5374	6798	8449
	45/40	305	3111	3935	4891
3000	85/75	854	8705	11013	13687
	75/65	718	7321	9261	11510
	65/55	581	5922	7492	9311
	45/40	336	3428	4337	5390

HC 340 x 110/ HC air 356 x 110 cooling power Q [W]					
length L [mm]	input/output water temperature [°C]	relative humidity [%]	fan speed		
			low	medium	high
			air temperature TA=27°C		
900	7/12	sensitive	377	623	817
	7/12	50	499	826	1082
	16/18	sensitive	235	389	510
	16/18	50	235	389	510
1000	7/12	sensitive	439	727	953
	7/12	50	582	963	1263
	16/18	sensitive	275	454	596
	16/18	50	275	454	596
1250	7/12	sensitive	596	987	1293
	7/12	50	790	1307	1714
	16/18	sensitive	373	617	808
	16/18	50	373	617	808
1500	7/12	sensitive	753	1246	1634
	7/12	50	998	1652	2165
	16/18	sensitive	471	779	1021
	16/18	50	471	779	1021
1750	7/12	sensitive	910	1506	1974
	7/12	50	1206	1996	2616
	16/18	sensitive	569	941	1234
	16/18	50	569	941	1234
2000	7/12	sensitive	1067	1766	2314
	7/12	50	1414	2340	3067
	16/18	sensitive	667	1104	1446
	16/18	50	667	1104	1446
2250	7/12	sensitive	1224	2025	2655
	7/12	50	1622	2684	3518
	16/18	sensitive	765	1266	1659
	16/18	50	765	1266	1659
2500	7/12	sensitive	1381	2285	2995
	7/12	50	1830	3028	3969
	16/18	sensitive	827	1368	1793
	16/18	50	827	1368	1793
2750	7/12	sensitive	1538	2545	3335
	7/12	50	2038	3372	4420
	16/18	sensitive	961	1590	2085
	16/18	50	961	1590	2085
3000	7/12	sensitive	1695	2804	3676
	7/12	50	2246	3716	4871
	16/18	sensitive	1059	1753	2297
	16/18	50	1059	1753	2297

HEATING AND COOLING POWER

HC4P 340 x 110 / HC4P air 356 x 110

HC4P 340 x 110 / HC4P air 356 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	190	1141	1378	1709
	75/65	158	944	1140	1414
	65/55	125	748	904	1121
	45/40	69	411	497	617
1000	85/75	222	1331	1608	1994
	75/65	184	1101	1330	1650
	65/55	146	873	1055	1308
	45/40	80	480	580	719
1250	85/75	301	1806	2182	2706
	75/65	249	1494	1805	2239
	65/55	198	1185	1431	1775
	45/40	109	651	787	976
1500	85/75	381	2281	2756	3418
	75/65	315	1887	2280	2828
	65/55	250	1497	1808	2243
	45/40	137	823	994	1233
1750	85/75	460	2757	3330	4131
	75/65	381	2281	2755	3417
	65/55	302	1809	2185	2710
	45/40	166	994	1201	1490
2000	85/75	539	3232	3904	4843
	75/65	446	2674	3230	4007
	65/55	354	2120	2561	3177
	45/40	195	1166	1408	1747
2250	85/75	619	3707	4478	5555
	75/65	512	3067	3705	4596
	65/55	406	2432	2938	3644
	45/40	223	1337	1615	2004
2500	85/75	698	4183	5052	6267
	75/65	578	3460	4180	5185
	65/55	458	2744	3315	4112
	45/40	252	1509	1823	2261
2750	85/75	777	4658	5627	6979
	75/65	643	3854	4655	5774
	65/55	510	3056	3691	4579
	45/40	280	1680	2030	2518
3000	85/75	857	5133	6201	7692
	75/65	709	4247	5130	6364
	65/55	562	3368	4068	5046
	45/40	309	1852	2237	2774

HC4P 340 x 110 / HC4P air 356 x 110 cooling power Q [W]					
length L [mm]	input/output water temperature [°C]	relative humidity [%]	fan speed		
			low	medium	high
			air temperature TA=27°C		
900	7/12	sensitive	262	376	547
	7/12	50	337	483	703
	16/18	sensitive	169	243	353
	16/18	50	169	243	353
1000	7/12	sensitive	306	439	638
	7/12	50	393	564	820
	16/18	sensitive	197	283	411
	16/18	50	197	283	411
1250	7/12	sensitive	416	596	866
	7/12	50	534	765	1112
	16/18	sensitive	268	384	558
	16/18	50	268	384	558
1500	7/12	sensitive	525	752	1094
	7/12	50	674	967	1405
	16/18	sensitive	338	485	705
	16/18	50	338	485	705
1750	7/12	sensitive	634	909	1321
	7/12	50	815	1168	1698
	16/18	sensitive	409	586	852
	16/18	50	409	586	852
2000	7/12	sensitive	744	1066	1549
	7/12	50	955	1369	1991
	16/18	sensitive	480	687	999
	16/18	50	480	687	999
2250	7/12	sensitive	853	1223	1777
	7/12	50	1096	1571	2283
	16/18	sensitive	550	788	1146
	16/18	50	550	788	1146
2500	7/12	sensitive	962	1379	2005
	7/12	50	1236	1772	2576
	16/18	sensitive	596	854	1242
	16/18	50	596	854	1242
2750	7/12	sensitive	1072	1536	2233
	7/12	50	1377	1974	2869
	16/18	sensitive	691	991	1440
	16/18	50	691	991	1440
3000	7/12	sensitive	1181	1693	2461
	7/12	50	1517	2175	3161
	16/18	sensitive	762	1092	1587
	16/18	50	762	1092	1587

HC 340 x 150

HC 340 x 150 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	280	2804	3526	4442
	75/65	232	2320	2917	3675
	65/55	184	1840	2313	2914
	45/40	101	1011	1271	1602
1000	85/75	327	3272	4114	5183
	75/65	271	2707	3403	4288
	65/55	215	2146	2698	3400
	45/40	118	1180	1483	1869
1250	85/75	444	4440	5583	7034
	75/65	367	3673	4619	5819
	65/55	291	2913	3662	4614
	45/40	160	1601	2013	2536
1500	85/75	561	5609	7052	8885
	75/65	464	4640	5834	7350
	65/55	368	3679	4626	5828
	45/40	202	2022	2543	3204
1750	85/75	678	6777	8521	10736
	75/65	561	5607	7049	8881
	65/55	445	4445	5589	7042
	45/40	244	2444	3073	3871
2000	85/75	795	7946	9990	12586
	75/65	657	6573	8265	10413
	65/55	521	5212	6553	8256
	45/40	287	2865	3602	4538
2250	85/75	911	9114	11460	14437
	75/65	754	7540	9480	11944
	65/55	598	5978	7517	9470
	45/40	329	3286	4132	5206
2500	85/75	1028	10283	12929	16288
	75/65	851	8507	10696	13475
	65/55	674	6745	8480	10684
	45/40	371	3708	4662	5873
2750	85/75	1145	11451	14398	18139
	75/65	947	9473	11911	15006
	65/55	751	7511	9444	11898
	45/40	413	4129	5191	6541
3000	85/75	1262	12620	15867	19990
	75/65	1044	10440	13127	16538
	65/55	828	8278	10408	13112
	45/40	455	4550	5721	7208

HC 340 x 150 cooling power Q [W]					
length L [mm]	input/output water temperature [°C]	relative humidity [%]	fan speed		
			low	medium	high
			air temperature TA=27°C		
900	7/12	sensitive	493	638	963
	7/12	50	647	836	1263
	16/18	sensitive	307	396	598
	16/18	50	307	396	598
1000	7/12	sensitive	576	744	1123
	7/12	50	755	976	1473
	16/18	sensitive	358	462	698
	16/18	50	358	462	698
1250	7/12	sensitive	781	1010	1525
	7/12	50	1024	1324	1999
	16/18	sensitive	485	628	947
	16/18	50	485	628	947
1500	7/12	sensitive	987	1276	1926
	7/12	50	1294	1673	2525
	16/18	sensitive	613	793	1197
	16/18	50	613	793	1197
1750	7/12	sensitive	1192	1541	2327
	7/12	50	1563	2021	3051
	16/18	sensitive	741	958	1446
	16/18	50	741	958	1446
2000	7/12	sensitive	1398	1807	2728
	7/12	50	1833	2370	3578
	16/18	sensitive	869	1123	1695
	16/18	50	869	1123	1695
2250	7/12	sensitive	1603	2073	3129
	7/12	50	2102	2718	4104
	16/18	sensitive	996	1288	1945
	16/18	50	996	1288	1945
2500	7/12	sensitive	1809	2339	3531
	7/12	50	2372	3067	4630
	16/18	sensitive	1076	1391	2101
	16/18	50	1076	1391	2101
2750	7/12	sensitive	2014	2604	3932
	7/12	50	2642	3415	5156
	16/18	sensitive	1252	1619	2443
	16/18	50	1252	1619	2443
3000	7/12	sensitive	2220	2870	4333
	7/12	50	2911	3764	5682
	16/18	sensitive	1380	1784	2693
	16/18	50	1380	1784	2693

HC4P 340 x 150

HC4P 340 x 150 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	128	1282	1441	1665
	75/65	105	1055	1186	1370
	65/55	83	831	934	1079
	45/40	45	449	505	583
1000	85/75	149	1496	1682	1943
	75/65	123	1231	1384	1598
	65/55	96	969	1090	1259
	45/40	52	524	589	680
1250	85/75	202	2030	2282	2636
	75/65	166	1670	1878	2169
	65/55	131	1316	1479	1708
	45/40	71	711	799	923
1500	85/75	255	2565	2883	3330
	75/65	210	2110	2372	2740
	65/55	165	1662	1868	2158
	45/40	89	898	1009	1166
1750	85/75	308	3099	3484	4024
	75/65	254	2550	2866	3311
	65/55	200	2008	2257	2608
	45/40	108	1085	1220	1409
2000	85/75	362	3633	4084	4718
	75/65	298	2989	3360	3882
	65/55	234	2354	2647	3057
	45/40	127	1272	1430	1652
2250	85/75	415	4167	4685	5412
	75/65	341	3429	3855	4453
	65/55	269	2700	3036	3507
	45/40	145	1459	1640	1895
2500	85/75	468	4702	5285	6105
	75/65	385	3868	4349	5023
	65/55	303	3047	3425	3956
	45/40	164	1646	1851	2138
2750	85/75	521	5236	5886	6799
	75/65	429	4308	4843	5594
	65/55	338	3393	3814	4406
	45/40	182	1833	2061	2381
3000	85/75	574	5770	6487	7493
	75/65	473	4748	5337	6165
	65/55	372	3739	4203	4856
	45/40	201	2020	2271	2623

HC4P 340 x 150 cooling power Q [W]					
length L [mm]	input/output water temperature [°C]	relative humidity [%]	fan speed		
			low	medium	high
			air temperature TA=27°C		
900	7/12	sensitive	439	533	708
	7/12	50	547	665	884
	16/18	sensitive	265	322	428
	16/18	50	265	322	428
1000	7/12	sensitive	512	622	826
	7/12	50	639	776	1031
	16/18	sensitive	309	376	499
	16/18	50	309	376	499
1250	7/12	sensitive	694	844	1121
	7/12	50	867	1053	1399
	16/18	sensitive	352	510	677
	16/18	50	352	510	677
1500	7/12	sensitive	877	1066	1416
	7/12	50	1095	1330	1767
	16/18	sensitive	530	644	856
	16/18	50	530	644	856
1750	7/12	sensitive	1060	1288	1711
	7/12	50	1323	1607	2135
	16/18	sensitive	640	778	1034
	16/18	50	640	778	1034
2000	7/12	sensitive	1242	1510	2006
	7/12	50	1551	1884	2504
	16/18	sensitive	751	912	1212
	16/18	50	751	912	1212
2250	7/12	sensitive	1425	1732	2301
	7/12	50	1779	2161	2872
	16/18	sensitive	861	1047	1390
	16/18	50	861	1047	1390
2500	7/12	sensitive	1608	1954	2596
	7/12	50	2007	2438	3240
	16/18	sensitive	928	1127	1498
	16/18	50	928	1127	1498
2750	7/12	sensitive	1791	2176	2891
	7/12	50	2235	2716	3608
	16/18	sensitive	1082	1315	1747
	16/18	50	1082	1315	1747
3000	7/12	sensitive	1973	2398	3186
	7/12	50	2463	2993	3976
	16/18	sensitive	1193	1449	1925
	16/18	50	1193	1449	1925

ACOUSTIC PRESSURE

HC (200 x 110, 260 x 110)

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

ACOUSTIC PRESSURE

HCM (340 x110, 340 x 150)

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]	
		
	HC 200X110 HC 260x110	HC 340x110 HC 340x150 HC 356x110
900	6	16
1000	7	23
1250	8	25
1500	11	40
1750	13	46
2000	15	48
2250	18	72
2500	20	73
2750	22	75
3000	24	87

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

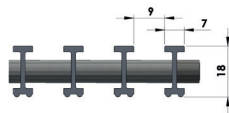
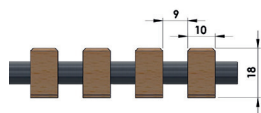


(shades of the grilles are only illustrative)

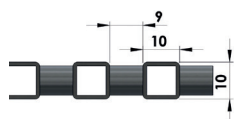
GRILLES - PROFILE

- wood-rolling/stable-dense

- AL-rolling/stable-dense



- st. steel-rolling/stable-dense¹⁾

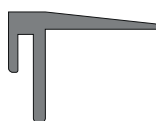


1) the grille must be ordered with the convector due to the modification of the convector construction

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)

type	dimen- sions		WITHOUT head			READY for head		
			L1/R1	L2/R2	L3/R3	L1/R1	L2/R2	L3/R3
HC 200x110	200	110	PB ¹⁾	PF ¹⁾	PF ¹⁾	PJ ¹⁾	PO ¹⁾	PO ¹⁾
HC 260x110	260	110	PC	PG	PG	PK	PR	PS
HC 4P 260x110	260	110	2xPB ¹⁾	2xPF ¹⁾	2xPF ¹⁾	2xPJ ¹⁾	2xPO ¹⁾	2xPJ
HC 340x110	340	110	PC	PG	PG	PK	PR	PS
HC 4P 340x110	340	110	2xPC	2xPG	2xPG	2xPK	2xPR ¹⁾	2xPS ¹⁾
HC air 356x110	356	110	PC	PG	PG	PK	PR	PS
HC 4P air 356x110	356	110	2xPC	2xPG	2xPG	2xPK	2xPR ¹⁾	2xPS ¹⁾
HC 4P 340x150	340	150	2xPD ¹⁾	2xPH ¹⁾	2xPH ¹⁾	2xPL ^{1) 4)}	2xPT ^{1) 4)}	PU ^{1) 4)}
HC 340x150	340	150	PD	PH	PH	PL ⁴⁾	PT ⁴⁾	PT ⁴⁾

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

⁴⁾ type of head must be consulted in overview of convector accessories is available on the of MINIB, a.s. website.

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.

An overview of convector accessories is available on the MINIB, a.s. website.

<https://www.minib.cz/en/category/grilles-and-accessories-6e6kjY>



CONVECTOR JOINTS

HC 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



VARIANTS

In addition to dimensional variants, HC convectors can be ordered in different functional variants (and its combinations).

2-pipe

Convector equipped with a single-circuit heat exchanger.

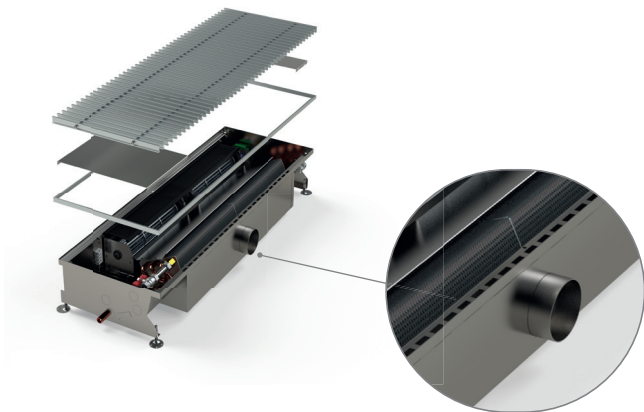
4-pipe

Convector equipped with an exchanger with two separate circuits for heating and cooling.

AIR

Convector with connection to fresh air supply. The air supplied to the convector flows through an air=buffer reducing the speed of the air flow to reduce noise. The air outlet is brought out in the edge of the convector under the cover grid.

Illustrative picture of spigot type air



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	for DIN rail: PSD 55W PSD 90W
	heating cooling	BMS superior system thermostat UT15	
EB-B automatic	heating	thermostat UT15 thermostat CH110 thermostat TH343 customer thermostat for 12V or 230V + ADA converter	
EB-C semi-automatic	heating cooling 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.

