



HP1



HP2

PRODUCTION

Type HP is electrically welded by robots. As a result the weld seams are invisible. The standard tube thickness is 1.5 mm with a service pressure of 4 bar (test pressure 6 bar). In case of a tube thickness of 2 mm, the service pressure is 10 bar (test pressure 13 bar) with extra charge of 10% and a longer delivery time. The maximum operating temperature is 110°C.

TUBES

Horizontal, flat-oval (70 x 10 mm).

COLLECTORS

Vertical, rear, square (34 x 34 mm). For aesthetic reasons and to guarantee a protection against corrosion, there is a distance of 2,5 mm between the tubes.

VALVE SET (in option)

THERMIC designer valve set (1-8) with rear connection 2 x 1/2" inner thread including *luxury thermostatic head* (always delivered together!).

ATTENTION: HP radiators are not available with the THERMIC designer valve set MM!

CONNECTION

- Standard 1/2"
- 18, 81, 32, 23, 76, 67, 38, 83, 16, 61, 13, 31, 68, 86, 27, 72, 26, 62, 37, 73, see also page 152 - 156.
- mm not possible!
- All supplementary connections are charged **49,94 EURO**.
- One-pipe system is only possible in position 1 or 8, see page 151. Price supplement, see page 151.
- Type HP is also available with integrated valve (starting from 4 tubes), HP-V, see page 103.

Supply is standard on the right and return on the left. Reversion of supply and return is possible, see page 140.

HP-V: The integrated valve is completely pre-mounted. A luxury thermostatic head is also standard delivered. In case of valve at the right, departure is at the left. In case of valve at the left, departure is at the right.

thermic
DESIGNER RADIATORS

thermic
DESIGNER RADIATORS

FIXING POSSIBILITIES

Standard delivered with white wall brackets (set of 4 pieces). Through the excentric shape of the bracket the radiator can easily be adjusted in the height.

ATTENTION

From a length of 2500 mm 6 brackets (2x3) are delivered (instead of 4 pieces).

HP(-V)

Set of 4

Reference nr. 03790

Price for a separate order: **3,61 EURO / set**

Set of 6

Reference nr. 03791

Price for a separate order: **5,44 EURO / set**

TELESCOPIC FEET IN THE COLOUR OF THE RADIATOR (HP2, HP2L1)

Standard delivered with roset. Indicate distance floor/radiator (= K-size; min. 150 mm).

Height = 200 mm

Reference nr.

RAL 9016:20292

Price: **24,99 EURO / piece**

Colour: 20140

Price: **28,74 EURO / piece**

Height <> 200 mm

Reference nr.

RAL 9016:20384

Price: **24,99 EURO / piece**

Colour: 20384

Price: **28,74 EURO / piece**

ATTENTION

Feet need to be ordered together with the radiator.

TELESCOPIC LATERAL SUPPORTS HP1, HP2, HP2L1

Only available when ordered with the above-mentioned telescopic feet. In this case the mounting strips at the back of the radiator are removed. If these are required, please indicate this explicitly.

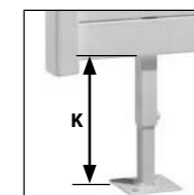
Reference nr.

RAL 9016:20294

Price: **24,99 EURO / piece**

Colour: 20141

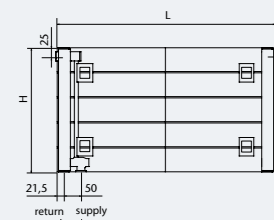
Price: **28,74 EURO / piece**



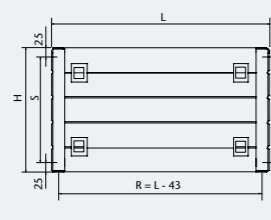
Number of wall brackets:
≤ 2400 = 2 pieces
≥ 2500 = 3 pieces

n	B	H
4	145	288
5	217,5	360
6	290	433
7	362,5	505
8	435	578
9	507,5	650
10	580	723
11	652,5	795
12	725	868

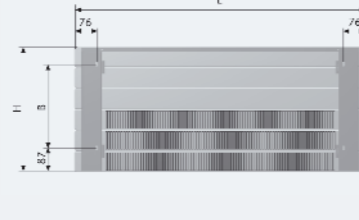
Distance between the connections:
 $R = L - 43$; $S = H - 50$



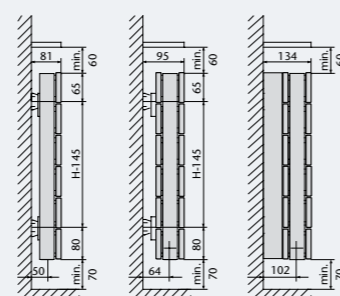
HP-V valve radiator
Rear view



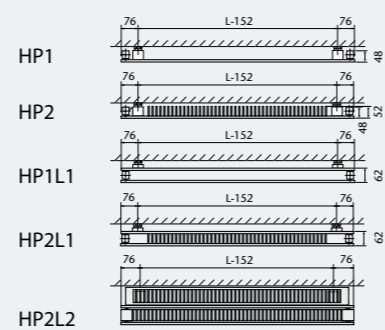
HP
Rear view



HP2L2
Rear view



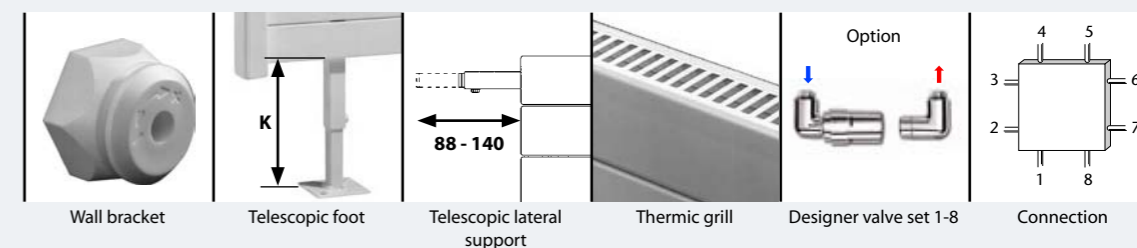
HP1(L1) HP2(L1) HP2(L2)
Side view



HP1 HP2 HP1L1 HP2L1 HP2L2
Top view

Price in EURO (excl. VAT)

Price in EURO (excl. VAT)



Wall bracket

Telescopic foot

Telescopic lateral support

Thermic grill

Designer valve set 1-8

Connection

GRILL

The grill is delivered as standard with the radiator (included in the price, see page). If the grill is not required, a price reduction of **31,73 EURO /m** will be calculated. Please indicate this explicitly when ordering.

INTEGRATED VALVE

Type HP is also available with integrated valve (starting from 4 tubes), HP-V (valve radiator). A radiator with integrated valve is standard delivered with a designer thermostatic head. This designer thermostatic head is available at choice in white, chrome or stainless steel.

We charge the following supplement:

white Reference nr. 01641 **27,66 EURO**
chrome Reference nr. 01642 **35,95 EURO**
stainless steel Reference nr. 01643 **41,50 EURO**

Type HP with integrated valve is equipped for two-pipe systems and standard equipped with valve set, which can be pre-adjusted exactly. Type HP with integrated valve is completely pre-mounted. The valve and the thermostatic head are standard on the right. On demand the valve can be fitted on the left. In this case the thermostatic head is also on the left. It's not possible to use a reversing piece (to reverse supply and return) with a radiator with integrated valve. The connections with 1/2" inner thread are at the bottom of the radiator. If the radiator with integrated valve is to be installed in a one-pipe system, a bypass-set must be used.

Supplement integrated valve:

75,20 EURO (white)
86,48 EURO (colour)
101,52 EURO (M350)

BYPASS-SET FOR ONE-PIPE CONNECTION

In case the HP-radiator with integrated valve is used in a one-pipe installation, a bypass-set needs to be fitted. This is available at plumber merchants.

HOW TO ORDER

Please indicate type: e.g. HP1 8/1200.

SPECIAL

- Type HP is available with a single row (HP1) or a double row (HP2) of flat-oval tubes.
- Type HP2, HP2L1 is also available as free-standing radiator, see page 139.
- As to type HPL, steel fins are welded on the back of the flat-oval tubes in order to increase the heat output.
- Type HP is standard delivered with a luxury cover grill.

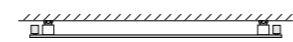
LUXURY ACCESSORIES

HP radiators are available with several luxury accessories, see also page 135: towel rail, towel ring, drying and stacking rack and robe hook.

COLOURS

- Standard colour is RAL 9016 (Traffic white).
- Other available colours, see page 158 - 159.
- Measurements up to 2000 mm length are available in the colour M350 (stainless steel look). ATTENTION: M350: loss of heat output up to 24%!

HAVARO HP1 | HP1-V (horizontal panel radiator)

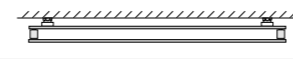


Reference nr.: 20950 Connection Tubes 0000 Width 0000 See page 4,5 and 6.

n = number of tubes ■ H = Height in mm ■ L = width in mm

L(mm)	n	H(mm)																			
		4	5	6	7	8	9	10	11	12	13	14									
500	75/65/20°C	167	205	243	281	320	358	398	438	480	520	560	600	640	680	720	760	800	840	880	920
	90/70/20°C	208	255	302	349	398	446	496	546	596	646	696	746	796	846	896	946	996	1046	1096	1146
price RAL 9016 (+ grille)		148,75	168,53	188,31	208,09	227,87	247,65	267,43	287,21	306,99	326,77	346,55	366,33	386,11	405,89	425,67	445,45	465,23	485,01	504,79	
price colour (+ grille)		171,06	193,81	216,56	239,30	262,05	284,80	307,55	330,29	353,04	375,78	398,53	421,27	444,02	466,76	489,51	512,25	535,00	557,74	580,49	603,23
600	75/65/20°C	200	245	291	337	383	430	478	526	575	623	671	719	767	815	863	911	959	1007	1055	1103
	90/70/20°C	250	306	362	419	478	535	595	655	717	777	837	897	957	1017	1077	1137	1197	1257	1317	1377
price RAL 9016 (+ grille)		160,83	182,83	204,83	226,83	248,83	270,83	292,84	314,84	336,84	358,84	380,84	402,84	424,84	446,84	468,84	490,84	512,84	534,84	556,84	578,84
price colour (+ grille)		184,96	210,26	235,56	260,86	286,16	311,46	336,77	362,07	387,37	412,67	437,97	463,27	488,57	513,87	539,17	564,47	589,77	615,07	640,37	665,67
700	75/65/20°C	234	286	340	393	447	501	557	613	671	729	787	845	903	961	1019	1077	1135	1193	1251	1309
	90/70/20°C	291	356	423	489	557	624	694	764	837	907	977	1047	1117	1187	1257	1327	1397	1467	1537	1607
price RAL 9016 (+ grille)		172,90	197,13	221,35	245,57	269,80	294,02	318,24	342,47	366,69	390,91	415,13	439,35	463,57	487,79	512,01	536,23	560,45	584,67	608,89	633,11
price colour (+ grille)		198,84	226,70	254,55	282,41	310,27	338,12	365,98	393,84	421,69	449,55	477,41	505,27	533,12	560,98	588,84	616,69	644,55	672,41	700,27	728,12
800	75/65/20°C	267	327	388	449	511	573	637	701	767	833	899	965	1031	1097	1163	1229	1295	1361	1427	1493
	90/70/20°C	333	407	483	559	637	714	794	873	957	1041	1125	1209	1293	1377	1461	1545	1629	1713	1797	1881
price RAL 9016 (+ grille)		184,98	211,42	237,87	264,31	290,76	317,20	343,65	370,10	396,54	422,99	449,43	475,88	502,32	528,77	555,21	581,66	608,10	634,55	660,99	687,43
price colour (+ grille)		212,73	243,13	273,55	303,96	334,37	364,78	395,20	425,62	456,04	486,45	516,87	547,28	577,70	608,11	638,53	668,94	699,36	729,77	760,19	790,60
900	75/65/20°C	301	368	437	505	575	644	716	788	863	937	1011	1085	1159	1233	1307	1381	1455	1529	1603	1677
	90/70/20°C	374	458	544	629	716	803	893	983	1076	1169	1262	1355	1448	1541	1634	1727	1820	1913	2006	2099
price RAL 9016 (+ grille)		197,05	225,72	254,39	283,06	311,72	340,39	369,06	397,72	426,39	455,06	483,72	512,39	541,06	569,72	598,39	627,06	655,72	684,39	713,06	741,72
price colour (+ grille)		226,61	259,58	292,55	325,52	358,48	391,45	424,42	457,38	490,35	523,32	556,29	589,26	622,23	655,20	688,17	721,14	754,11	787,08	820,05	853,02
1000	75/65/20°C	334	409	485	561	639	716	796	876	959	1041	1123	1205	1287	1369	1451	1533	1615	1697	1779	1861
	90/70/20°C	416	509	604	699	796	892	992	1092	1196	1296	1396	1496	1596	1696	1796	1896	1996	2096	2196	2296
price RAL 9016 (+ grille)		209,13	240,02	270,91	301,80	332,69	363,57	394,46	425,35	456,24	487,13	518,02	548,91	579,80	610,69	641,58	672,47	703,36	734,25	765,14	796,03
price colour (+ grille)		240,50	276,02	311,55	347,07	382,59	418,11	453,63	489,15	524,68	560,20	595,72	631,24	666,76	702,28	737,80	773,32	808,84	844,36	879,88	915,40
1100	75/65/20°C	367	450	534	617	703	788	876	964	1055	1145	1235	1325	1415	1505	1595	1685	1775	1865	1955	2045
	90/70/20°C	458	560	664	769	876	981	1091	1201	1315	1425	1535	1645	1755	1865	1975	2085	2195	2305	2415	2525
price RAL 9016 (+ grille)		221,21	254,32	287,43	320,54	353,65	386,76	419,87	452,98	486,09	519,20	552,31	585,42	618,53	651,64	684,75	717,86	750,97	784,08	817,19	850,30
price colour (+ grille)		254,39	292,47	330,55	368,62	406,70	444,77	482,85	520,93	559,00	597,08	635,16	673,24	711,32	749,40	787,48	825,56	863,64	901,72	939,80	977,88
1200	75/65/20°C	401	491	582	673	767	859	955	1051	1151	1251	1351	1451	1551	1651	1751	1851	1951	2051	2151	2251
	90/70/20°C	499	611	725	838	955	1070	1190	1310	1435	1555	1680	1805	1930	2055	2180	2305	2430	2555	2680	2805
price RAL 9016 (+ grille)		233,28	268,61	303,95	339,28	374,61	409,94	445,28	480,61	515,94	551,28	586,61	621,95	657,28	692,61	727,95	763,28	798,61	833,95	869,28	904,61
price colour (+ grille)		268,27	308,90	349,54	390,17	430,80	471,43	512,07	552,70	593,33	633,96	674,59	715,22	755,85	796,48	837,11	877,74	918,37	958,99	1000,00	1040,00
1400	75/65/20°C	468	573	679	785	895	1002	1114	1226	1343	1461	1579	1697	1815	1933	2051	2169	2287	2405	2523	2641
	90/70/20°C	582	713	846	978	1114	1249	1389	1529	1674	1819	1964	2109	2254	2400	2545	2690	2835	2980	3125	3270
price RAL 9016 (+ grille)		257,43	297,21	336,99	376,76	416,54	456,31	496,09	535,87	575,64	615,42	655,20	694,98	734,76	774,54	814,32	854,10	893,88	933,66	973,44	1013,22
price colour (+ grille)		296,05	341,79	387,54	433,27	479,02	524,76	570,50	616,25	661,99	707,74	753,48	799,23	844,97	890,72	936,46	982,21	1027,96	1073,70	1119,45	1165,20
1600	75/65/20°C	534	654	776	898	1022	1146	1274	1402	1534	1662	1790	1918	2046	2174	2302	2430	2558	2686	2814	2942
	90/70/20°C	666	815	966	1118	1274	1427	1587	1747	1913	2073	2233	2393	2553	2713	2873	3033	3193	3353	3513	3673
price RAL 9016 (+ grille)		281,59	325,81	370,03	414,25	458,46	502,68	546,90	591,12	635,34	679,56	723,78	768,00	812,22	856,44	900,66	944,88	989,10	1033,32	1077,54	1121,76
price colour (+ grille)		323,83	374,68	425,54	476,39	527,23	578,08	628,94	679,79	730,64	781,49	832,34	883,19	934,04	984,89	1035,74	1086,59	1137,44	1188,29	1239,14	1289,99
1800	75/65/20°C	601	736	873	1010	1150	1289	1433	1577	1726	1870	2014	2158	2302	2446	2590	2734	2878	3022	3166	3310
	90/70/20°C	749	917	1087	1258	1433	1606	1785	1965	2152	2339	2526	2713	2900	3087	3274	3461	3648	3835	4022	4209
price RAL 9016 (+ grille)		305,74	354,40	403,06	451,73	500,39	549,05	597,72	646,38	695,04	743,70	792,36	841,02	889,68	938,34	987,00	1035,66	1084,32	1132,98	1181,64	1230,30
price colour (+ grille)		351,60	407,56	463,52	519,49	575,45	631,41	687,38	743,34	799,30	855,26	911,22	967,18	1023,14	1079,10	1135,06	1191,02	1246,98	1302,94	1358,90	1414,86
2000	75/65/20°C	668	818	970	1122	1278	1432	1592	1752	1918	2082	2246	2410	2574	2738	2902	3066	3230	3394	3558	3722
	90/70/20°C	832	1019	1208	1397	1592	1784	1984	2184	2391	2596	2800	3004	3208	3412	3616	3820	4024	4228	4432	4636
price RAL 9016 (+ grille)		329,89	383,00	436,10	489,21	542,32	595,42	648,53	701,64	754,74	807,85	860,96	914,07	967,18	1020,29	1073,40	1126,51	1179,62	1232,73	1285,84	1338,95
price colour (+ grille)		379,37	440,45	501,52	562,59	623,67	684,74	745,81	806,89	867,95	929,02	990,10	1051,17	1112,25	1173,32	1234,40	1295,47	1356,55	1417,62	1478,70	1539,77
2200	75/65/20°C	735	900	1067	1234	1406	1575	1751	1927	2110	2292	2474	2656	2838	3020	3202	3384	3566	3748	3930	4112
	90/70/20°C	915	1120																		

HAVARO HP2 | HP2-V (horizontal panel radiator)



Reference nr.: 20970 Connection Tubes 0000 Width 0000 See page 4,5 and 6.

n = number of tubes ■ H = Height in mm ■ L = width in mm

L(mm)	H(mm)	n										
		4	5	6	7	8	9	10	11	12		
500	75/65/20°C 90/70/20°C	284 354	348 434	412 514	475 592	537 671	598 746	659 824	718 899	778 976		
	price RAL 9016 (+ grille)	281,56	321,12	360,68	400,24	439,80	479,36	518,92	558,48	598,03		
	price colour (+ grille)	323,79	369,29	414,78	460,28	505,77	551,26	596,76	642,25	687,74		
600	75/65/20°C 90/70/20°C	340 424	418 521	494 617	569 711	644 805	717 896	790 988	862 1079	934 1171		
	price RAL 9016 (+ grille)	302,52	346,52	390,53	434,53	478,53	522,54	566,54	610,54	654,55		
	price colour (+ grille)	347,90	398,50	449,11	499,71	550,31	600,92	651,52	702,12	752,73		
700	75/65/20°C 90/70/20°C	397 495	487 608	577 720	664 829	752 939	837 1045	922 1153	1005 1259	1089 1367		
	price RAL 9016 (+ grille)	323,48	371,93	420,38	468,82	517,27	565,72	614,16	662,61	711,06		
	price colour (+ grille)	372,00	427,72	483,44	539,14	594,86	650,58	706,28	762,00	817,72		
800	75/65/20°C 90/70/20°C	454 566	557 695	659 823	759 948	859 1073	956 1194	1054 1318	1149 1439	1245 1562		
	price RAL 9016 (+ grille)	344,45	397,34	450,23	503,12	556,01	608,90	661,79	714,68	767,57		
	price colour (+ grille)	396,12	456,94	517,77	578,59	639,41	700,24	761,06	821,88	882,71		
900	75/65/20°C 90/70/20°C	510 637	626 782	742 926	854 1066	967 1207	1076 1343	1185 1483	1292 1619	1400 1757		
	price RAL 9016 (+ grille)	365,41	422,74	480,08	537,41	594,75	652,08	709,41	766,75	824,08		
	price colour (+ grille)	420,22	486,15	552,09	618,02	683,96	749,89	815,82	881,76	947,69		
1000	75/65/20°C 90/70/20°C	567 707	696 868	824 1028	949 1185	1074 1341	1195 1493	1317 1647	1436 1799	1556 1952		
	price RAL 9016 (+ grille)	386,37	448,15	509,93	571,71	633,48	695,26	757,04	818,82	880,59		
	price colour (+ grille)	444,33	515,37	586,42	657,47	728,50	799,55	870,60	941,64	1012,68		
1100	75/65/20°C 90/70/20°C	624 778	766 955	906 1131	1044 1303	1181 1475	1315 1642	1449 1812	1580 1979	1712 2148		
	price RAL 9016 (+ grille)	407,33	473,56	539,78	606,00	672,22	738,44	804,66	870,88	937,11		
	price colour (+ grille)	468,43	544,59	620,75	696,90	773,05	849,21	925,36	1001,51	1077,68		
1200	75/65/20°C 90/70/20°C	680 849	835 1042	989 1234	1139 1422	1289 1609	1434 1791	1580 1977	1723 2159	1867 2343		
	price RAL 9016 (+ grille)	428,30	498,96	569,63	640,29	710,96	781,62	852,29	922,95	993,62		
	price colour (+ grille)	492,55	573,80	655,08	736,33	817,60	898,86	980,13	1061,39	1142,66		
1400	75/65/20°C 90/70/20°C	794 990	974 1216	1154 1440	1329 1659	1504 1877	1673 2090	1844 2306	2010 2519	2178 2733		
	price RAL 9016 (+ grille)	470,22	549,78	629,33	708,88	788,43	867,98	947,54	1027,09	1106,64		
	price colour (+ grille)	540,75	623,25	705,75	788,25	870,75	953,25	1035,75	1118,25	1200,75		
1600	75/65/20°C 90/70/20°C	907 1132	1114 1389	1318 1645	1518 1895	1718 2146	1912 2388	2107 2636	2298 2878	2490 3124		
	price RAL 9016 (+ grille)	512,15	600,59	689,03	777,47	865,91	954,35	1042,79	1131,23	1219,66		
	price colour (+ grille)	588,97	690,68	792,39	894,09	995,80	1097,50	1199,21	1300,92	1402,61		
1800	75/65/20°C 90/70/20°C	1021 1273	1253 1563	1483 1851	1708 2132	1933 2414	2151 2687	2371 2965	2585 3238	2801 3514		
	price RAL 9016 (+ grille)	554,08	651,40	748,73	846,06	943,38	1040,71	1138,04	1235,36	1332,69		
	price colour (+ grille)	637,19	749,11	861,04	972,97	1084,89	1196,82	1308,75	1420,66	1532,59		
2000	75/65/20°C 90/70/20°C	1134 1415	1392 1737	1648 2057	1898 2369	2148 2682	2390 2985	2634 3295	2872 3598	3112 3905		
	price RAL 9016 (+ grille)	596,00	702,22	808,43	914,64	1020,86	1127,07	1233,28	1339,50	1445,71		
	price colour (+ grille)	685,40	807,55	929,70	1051,84	1173,99	1296,13	1418,27	1540,43	1662,57		
2200	75/65/20°C 90/70/20°C	1247 1556	1531 1910	1813 2262	2088 2606	2363 2950	2629 3284	2897 3624	3159 3958	3423 4295		
	price RAL 9016 (+ grille)	637,93	753,03	868,13	983,23	1098,33	1213,43	1328,53	1443,63	1558,74		
	price colour (+ grille)	733,62	865,99	998,35	1130,72	1263,08	1395,45	1527,81	1660,18	1792,55		
2400	75/65/20°C 90/70/20°C	1361 1698	1670 2084	1978 2468	2278 2843	2578 3219	2868 3582	3161 3954	3446 4318	3734 4685		
	price RAL 9016 (+ grille)	679,86	803,84	927,83	1051,82	1175,81	1299,80	1423,78	1547,77	1671,76		
	price colour (+ grille)	781,84	924,42	1067,01	1209,59	1352,18	1494,77	1637,35	1779,94	1922,52		
2600	75/65/20°C 90/70/20°C	1474 1839	1810 2258	2142 2674	2467 3080	2792 3487	3107 3881	3424 4283	3734 4677	4046 5076		
	price RAL 9016 (+ grille)	721,78	854,66	987,53	1120,41	1253,28	1386,16	1519,03	1651,91	1784,78		
	price colour (+ grille)	830,05	982,86	1135,66	1288,47	1441,27	1594,08	1746,89	1899,70	2052,50		
2800	75/65/20°C 90/70/20°C	1588 1980	1949 2431	2307 2879	2657 3317	3007 3755	3346 4179	3688 4613	4021 5037	4357 5466		
	price RAL 9016 (+ grille)	763,71	905,47	1047,23	1189,00	1330,76	1472,52	1614,28	1756,04	1897,81		
	price colour (+ grille)	878,27	1041,29	1204,32	1367,35	1530,37	1693,40	1856,42	2019,45	2182,48		
3000	75/65/20°C 90/70/20°C	1701 2122	2088 2605	2472 3085	2847 3554	3222 4023	3585 4478	3951 4942	4308 5397	4668 5857		
	price RAL 9016 (+ grille)	805,64	956,28	1106,93	1257,58	1408,23	1558,88	1709,53	1860,18	2010,83		
	price colour (+ grille)	926,49	1099,72	1272,97	1446,22	1619,47	1792,71	1965,96	2139,21	2312,46		
	Watt/m 75/65/20°C	567	696	824	949	1074	1195	1317	1436	1556		
	Watt/m 90/70/20°C	707	868	1028	1185	1341	1493	1647	1799	1952		
	Weight, kg/m	15,14	19,00	22,65	26,25	29,90	33,50	37,22	40,88	44,60		
	Water content, l/m	4,22	5,40	6,51	7,60	8,71	9,80	10,87	11,93	13,00		
	n-exponent	1,25	1,26	1,26	1,26	1,26	1,26	1,27	1,28	1,29		

See page 4,5 and 6. in conformity with EN 442-1: radiators and convectors

Heat outputs in Watt
kcal/h = Watt x 0,86
Colour = THERMIC-Colour except for M350 (stainless steel look)

M350 (stainless steel look) (max. length 2000): RAL 9016 + 35%. ATTENTION: M350: loss of heat output up to 24% !

Extra charge for integrated valve: see page 103 ("V" when ordered as valve radiator).

Standard with luxury cover grill ! (See price reduction see p. 103 if grill is not required).

Ref. nr.: 20970



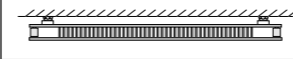
See correction factors, page 146.

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Price in EURO (excl. VAT)

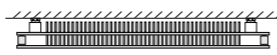
HAVARO HP2L1 | HP2L1-V (horizontal panel radiator)



Reference nr.: 20980 Connection Tubes 0000 Width 0000 See page 4,5 and 6.

n = number of tubes ■ H = Height in mm ■ L = width in mm

L(mm)	H(mm)	n										
		4	5	6	7	8	9	10	11	12		
500	75/65/20°C 90/70/20°C	397 497	475 595	550 690	623 781	694 870	762 955	830 1040	896 1123	962 1205		
	price RAL 9016 (+ grille)	312,67	362,70	412,74	462,78	512,82	562,85	612,89	662,93	712,97		
	price colour (+ grille)	359,57	417,11	474,65	532,20	589,74	647,28	704,82	762,37	819,92		
600	75/65/20°C 90/70/20°C	476 597	569 714	660 828	747 937	832 1043	914 1146	996 1248	1075 1347	1154 1446		
	price RAL 9016 (+ grille)	337,12	392,47	447,83	503,18	558,53	613,88	669,24	724,59	779,94		
	price colour (+ grille)	387,69	451,34	515,01	578,66	642,31	705,96	769,63	833,28	896,93		
700	75/65/20°C 90/70/20°C	556 696	664 833	770 966	872 1093	971 1217	1067 1337	1162 1456	1254 1572	1346 1686		
	price RAL 9016 (+ grille)	361,57	422,24	482,91	543,58	604,25	664,92	725,59	786,25	846,92		
	price colour (+ grille)	415,81	485,58	555,35	625,12	694,89	764,66					



Reference nr.: 20990 Connection Tubes 0000 Width 0000 See page 4,5 and 6.

n = number of tubes ■ H = Height in mm ■ L = width in mm

CE 05 in conformity with EN 442-1: radiators and convectors

L(mm)	n	H(mm)									
		4	5	6	7	8	9	10	11	12	
500	75/65/20°C	488	584	675	761	843	921	996	1067	1137	
	90/70/20°C	612	734	849	956	1060	1158	1253	1342	1429	
	price RAL 9016 (+ grille)	338,33	394,79	451,24	507,70	564,15	620,60	677,06	733,51	789,97	
	<i>price colour (+ grille)</i>	<i>389,08</i>	<i>454,01</i>	<i>518,93</i>	<i>583,86</i>	<i>648,77</i>	<i>713,69</i>	<i>778,62</i>	<i>843,54</i>	<i>908,47</i>	
600	75/65/20°C	586	700	810	913	1012	1105	1195	1280	1364	
	90/70/20°C	734	881	1019	1148	1272	1389	1503	1610	1715	
	price RAL 9016 (+ grille)	367,92	430,97	494,03	557,08	620,13	683,19	746,24	809,29	872,35	
	<i>price colour (+ grille)</i>	<i>423,11</i>	<i>495,62</i>	<i>568,14</i>	<i>640,64</i>	<i>713,15</i>	<i>785,67</i>	<i>858,18</i>	<i>930,68</i>	<i>1003,20</i>	
700	75/65/20°C	683	817	945	1065	1180	1289	1394	1494	1591	
	90/70/20°C	856	1027	1188	1339	1484	1621	1754	1879	2001	
	price RAL 9016 (+ grille)	397,50	467,16	536,81	606,46	676,12	745,77	815,42	885,07	954,73	
	<i>price colour (+ grille)</i>	<i>457,13</i>	<i>537,23</i>	<i>617,33</i>	<i>697,43</i>	<i>777,54</i>	<i>857,64</i>	<i>937,73</i>	<i>1017,83</i>	<i>1097,94</i>	
800	75/65/20°C	781	934	1080	1217	1349	1473	1594	1707	1818	
	90/70/20°C	978	1174	1358	1530	1696	1852	2004	2147	2287	
	price RAL 9016 (+ grille)	427,09	503,34	579,59	655,85	732,10	808,35	884,60	960,85	1037,10	
	<i>price colour (+ grille)</i>	<i>491,15</i>	<i>578,84</i>	<i>666,53</i>	<i>754,23</i>	<i>841,92</i>	<i>929,60</i>	<i>1017,29</i>	<i>1104,98</i>	<i>1192,67</i>	
900	75/65/20°C	878	1050	1215	1369	1517	1657	1793	1921	2046	
	90/70/20°C	1101	1321	1528	1721	1908	2084	2255	2415	2573	
	price RAL 9016 (+ grille)	456,68	539,53	622,38	705,23	788,08	870,93	953,78	1036,63	1119,48	
	<i>price colour (+ grille)</i>	<i>525,18</i>	<i>620,46</i>	<i>715,74</i>	<i>811,02</i>	<i>906,29</i>	<i>1001,57</i>	<i>1096,85</i>	<i>1192,13</i>	<i>1287,40</i>	
1000	75/65/20°C	976	1167	1350	1521	1686	1841	1992	2134	2273	
	90/70/20°C	1223	1468	1698	1913	2120	2315	2505	2684	2858	
	price RAL 9016 (+ grille)	486,26	575,71	665,16	754,61	844,06	933,51	1022,96	1112,41	1201,86	
	<i>price colour (+ grille)</i>	<i>559,20</i>	<i>662,07</i>	<i>764,93</i>	<i>867,80</i>	<i>970,67</i>	<i>1073,54</i>	<i>1176,40</i>	<i>1279,27</i>	<i>1382,14</i>	
1100	75/65/20°C	1074	1284	1485	1673	1855	2025	2191	2347	2500	
	90/70/20°C	1345	1614	1867	2104	2332	2547	2756	2952	3144	
	price RAL 9016 (+ grille)	515,85	611,90	707,95	804,00	900,04	996,09	1092,14	1188,19	1284,24	
	<i>price colour (+ grille)</i>	<i>593,23</i>	<i>703,69</i>	<i>814,14</i>	<i>924,60</i>	<i>1035,05</i>	<i>1145,50</i>	<i>1255,96</i>	<i>1366,42</i>	<i>1476,88</i>	
1200	75/65/20°C	1171	1400	1620	1825	2023	2209	2390	2561	2728	
	90/70/20°C	1468	1761	2037	2295	2544	2778	3006	3220	3430	
	price RAL 9016 (+ grille)	545,43	648,08	750,73	853,38	956,03	1058,68	1161,32	1263,97	1366,62	
	<i>price colour (+ grille)</i>	<i>627,25</i>	<i>745,29</i>	<i>863,34</i>	<i>981,39</i>	<i>1099,44</i>	<i>1217,48</i>	<i>1335,52</i>	<i>1453,57</i>	<i>1571,61</i>	
1400	75/65/20°C	1366	1634	1890	2129	2360	2577	2789	2988	3182	
	90/70/20°C	1712	2055	2377	2678	2968	3241	3507	3757	4002	
	price RAL 9016 (+ grille)	604,60	720,45	836,30	952,14	1067,99	1183,84	1299,68	1415,53	1531,38	
	<i>price colour (+ grille)</i>	<i>695,29</i>	<i>828,52</i>	<i>961,75</i>	<i>1094,96</i>	<i>1228,19</i>	<i>1361,42</i>	<i>1494,63</i>	<i>1627,86</i>	<i>1761,09</i>	
1600	75/65/20°C	1562	1867	2160	2434	2698	2946	3187	3414	3637	
	90/70/20°C	1957	2348	2716	3060	3392	3704	4008	4294	4574	
	price RAL 9016 (+ grille)	663,77	792,82	921,87	1050,91	1179,96	1309,00	1438,05	1567,09	1696,14	
	<i>price colour (+ grille)</i>	<i>763,34</i>	<i>911,74</i>	<i>1060,15</i>	<i>1208,55</i>	<i>1356,95</i>	<i>1505,35</i>	<i>1653,76</i>	<i>1802,15</i>	<i>1950,56</i>	
1800	75/65/20°C	1757	2101	2430	2738	3035	3314	3586	3841	4091	
	90/70/20°C	2202	2642	3056	3443	3816	4167	4509	4831	5145	
	price RAL 9016 (+ grille)	722,95	865,19	1007,43	1149,68	1291,92	1434,16	1576,41	1718,65	1860,89	
	<i>price colour (+ grille)</i>	<i>831,39</i>	<i>994,97</i>	<i>1158,55</i>	<i>1322,13</i>	<i>1485,71</i>	<i>1649,28</i>	<i>1812,87</i>	<i>1976,45</i>	<i>2140,02</i>	
2000	75/65/20°C	1952	2334	2700	3042	3372	3682	3984	4268	4546	
	90/70/20°C	2446	2935	3395	3826	4241	4630	5010	5367	5717	
	price RAL 9016 (+ grille)	782,12	937,56	1093,00	1248,44	1403,88	1559,33	1714,77	1870,21	2025,65	
	<i>price colour (+ grille)</i>	<i>899,44</i>	<i>1078,19</i>	<i>1256,95</i>	<i>1435,71</i>	<i>1614,46</i>	<i>1793,23</i>	<i>1971,99</i>	<i>2150,74</i>	<i>2329,50</i>	
2200	75/65/20°C	2147	2567	2970	3346	3709	4050	4382	4695	5001	
	90/70/20°C	2691	3229	3735	4208	4665	5093	5511	5904	6289	
	price RAL 9016 (+ grille)	841,29	1009,93	1178,57	1347,21	1515,85	1684,49	1853,13	2021,77	2190,41	
	<i>price colour (+ grille)</i>	<i>967,48</i>	<i>1161,42</i>	<i>1355,36</i>	<i>1549,29</i>	<i>1743,23</i>	<i>1937,16</i>	<i>2131,10</i>	<i>2325,04</i>	<i>2518,97</i>	
2400	75/65/20°C	2342	2801	3240	3650	4046	4418	4781	5122	5455	
	90/70/20°C	2935	3522	4075	4591	5089	5556	6012	6441	6860	
	price RAL 9016 (+ grille)	900,46	1082,30	1264,14	1445,98	1627,81	1809,65	1991,49	2173,33	2355,17	
	<i>price colour (+ grille)</i>	<i>1035,53</i>	<i>1244,65</i>	<i>1453,76</i>	<i>1662,88</i>	<i>1871,98</i>	<i>2081,10</i>	<i>2290,21</i>	<i>2499,33</i>	<i>2708,45</i>	
2600	75/65/20°C	2538	3034	3510	3955	4384	4787	5179	5548	5910	
	90/70/20°C	3180	3816	4414	4973	5513	6020	6513	6978	7432	
	price RAL 9016 (+ grille)	959,63	1154,67	1349,70	1544,74	1739,78	1934,82	2129,85	2324,89	2519,93	
	<i>price colour (+ grille)</i>	<i>1103,58</i>	<i>1327,87</i>	<i>1552,16</i>	<i>1776,45</i>	<i>2000,75</i>	<i>2225,04</i>	<i>2449,33</i>	<i>2673,62</i>	<i>2897,92</i>	
2800	75/65/20°C	2733	3268	3780	4259	4721	5155	5578	5975	-	
	90/70/20°C	3425	4109	4754	5356	5937	6483	7014	7514	-	
	price RAL 9016 (+ grille)	1018,80	1227,04	1435,27	1643,51	1851,74	2059,98	2268,21	2476,45	-	
	<i>price colour (+ grille)</i>	<i>1171,62</i>	<i>1411,10</i>	<i>1650,56</i>	<i>1890,04</i>	<i>2129,50</i>	<i>2368,98</i>	<i>2608,44</i>	<i>2847,92</i>	-	
3000	75/65/20°C	2928	3501	4050	4563	5058	5523	5976	-	-	
	90/70/20°C	3669	4403	5093	5738	6361	6946	7515	-	-	
	price RAL 9016 (+ grille)	1077,97	1299,41	1520,84	1742,27	1963,71	2185,14	2406,58	-	-	
	<i>price colour (+ grille)</i>	<i>1239,67</i>	<i>1494,32</i>	<i>1748,97</i>	<i>2003,61</i>	<i>2258,27</i>	<i>2512,91</i>	<i>2767,57</i>	-	-	
	Watt/m 75/65/20°C	976	1167	1350	1521	1686	1841	1992	2134	2273	
	Watt/m 90/70/20°C	1223	1468	1698	1913	2120	2315	2505	2684	2858	
	Weight, kg/m	22,14	27,60	32,35	37,05	41,80	46,50	51,19	55,81	60,50	
	Water content, l/m	4,26	5,30	6,43	7,55	8,68	9,80	10,87	11,93	13,00	
	n-exponent	1,28	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	

Heat outputs in Watt
kcal/h = Watt x 0,86
Colour = THERMIC-Colour except for M350 (stainless steel look)

M350 (stainless steel look) (max. length 2000): RAL 9016 + 35%. ATTENTION: M350: loss of heat output up to 24% !

Extra charge for integrated valve:
see page 103 ("V" when ordered as valve radiator).

Standard with luxury cover grill !
(See price reduction see p. 103 if grill is not required).

Ref. nr.: 20990



See correction factors, page 146.

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