

Technical catalogue convectors

PURMO
POLAND 2012



convectors

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Narbonne

4 connections

height [mm]: 70, 142, 214, 286
length [mm]: 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000

example of types

NA 11

NA 22

NA 34



Narbonne VT

5 connections

height [mm]: 142, 214, 286
length [mm]: 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000

example of types

NA 11

NA 22

NA 34



Narbonne V

4 connections

height [mm]: 1600, 1800, 2000, 2200
length [mm]: 142, 214, 286, 358, 430, 502, 574, 646, 718, 790, 862

types

NV 10

NV 11

NV 20

NV 21



Narbonne V VT

6 connections

height [mm]: 1600, 1800, 2000
length [mm]: 214, 286, 358, 430, 502, 574, 646, 718, 790, 862

types

NV 10

NV 11

NV 20

NV 21

convectors

Narbonne

Convectors Narbonne are composed of several interconnected profiled steel heating elements of a rectangular cross section. Each convector has got four connecting openings, each with internal thread G ½", enabling side connection, both from the left- and the right-hand side. Narbonne convectors are equipped with two side covers and the top masking grille.

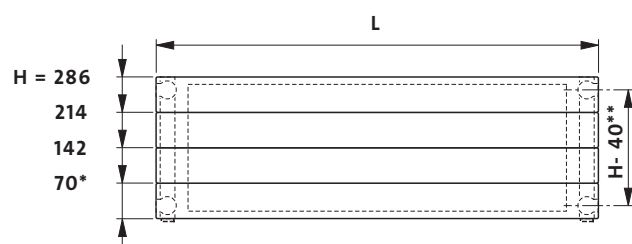
The heating profiles are mounted horizontally, so that to retain the 2 mm-wide distancing between each two, necessary to compensate for the heat expansion of the elements, and enabling the perfect varnish cover of the entire convector's surface. Most models are equipped with convective elements, increasing the heating efficiency of the convectors.

technical specification

- Material : high quality steel profiles of a rectangular cross section, dimensions: 70 x 11 x 1.5 mm (high pressure version: 70 x 11 x 2.0 mm)
- Metal sheet thickness : heating profiles – 1.50 mm; convectors – 0.50 mm
- Height : 70, 142, 214, 286 mm
- Length : from 500 up to 4000 mm
- Depth : from 68 up to 339 mm
- Connections : 4 x G ½", side connectors
- Max. operating pressure : 5 bar for the standard version, 8 bar for the high pressure version
- Max. temperature : 110°C
- Colour : RAL 9016, other RAL colours available, surcharge at each order
- Brackets : wall or floor – ordered separately, at Client's preference
- Accessories : plug and air vent, included in the convector's kit

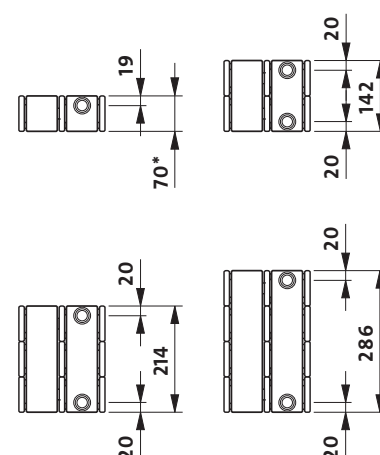


front view

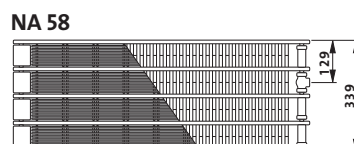
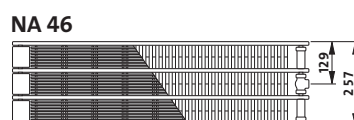
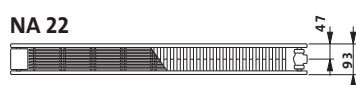
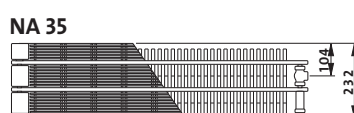
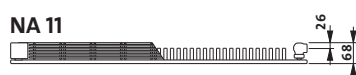


* only cross connection possible
 ** not applicable to the 70 mm-high convector
 H - height [mm]
 L - length [mm]

side view



top view



weight and water volume

weight : kg/m

type	height [mm]			
	70	142	214	286
11	-	-	11.1	14.5
22	7.3	14.0	20.6	27.2
23	9.2	17.0	24.8	32.7
34	12.7	23.9	35.2	46.4
35	14.5	27.0	39.4	51.9
46	18.0	33.9	49.8	65.6
58	23.4	43.9	64.3	85.8

water volume : l/m

type	height [mm]			
	70	142	214	286
11	-	-	1.7	2.2
22	1.1	2.2	3.3	4.4
23	1.1	2.2	3.3	4.4
34	1.7	3.3	5.0	6.7
35	1.7	3.3	5.0	6.7
46	2.3	4.5	6.8	9.1
58	2.8	5.7	8.5	11.4

convectors

Narbonne - height 70 mm



An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE 22 70 1600**

NARBONNE 22



name _____
type _____
height _____
length _____

L length [mm]	parameters $t_z / t_p / t_i$	type					
		22	23	34	35	46	58
500	75/65/20 °C 55/45/20 °C	212 111	262 138	331 180	405 215	475 253	512 285
600	75/65/20 °C 55/45/20 °C	254 133	314 165	397 216	485 257	570 304	614 341
700	75/65/20 °C 55/45/20 °C	297 155	367 193	463 252	566 300	665 355	716 398
800	75/65/20 °C 55/45/20 °C	339 177	419 220	529 288	647 343	760 405	818 455
900	75/65/20 °C 55/45/20 °C	382 200	472 248	595 324	728 386	855 456	921 512
1000	75/65/20 °C 55/45/20 °C	424 222	524 275	661 360	809 429	950 507	1023 569
1100	75/65/20 °C 55/45/20 °C	466 244	576 303	727 396	890 472	1045 557	1125 625
1200	75/65/20 °C 55/45/20 °C	509 266	629 330	793 432	971 515	1140 608	1228 682
1300	75/65/20 °C 55/45/20 °C	551 288	681 358	859 468	1052 558	1235 659	1330 739
1400	75/65/20 °C 55/45/20 °C	594 310	734 386	925 504	1133 601	1330 710	1432 796
1600	75/65/20 °C 55/45/20 °C	678 354	838 440	1058 576	1294 687	1520 811	1637 910
1800	75/65/20 °C 55/45/20 °C	763 399	943 495	1190 648	1456 773	1710 912	1841 1023
2000	75/65/20 °C 55/45/20 °C	848 443	1048 551	1322 720	1618 859	1900 1014	2046 1137
2200	75/65/20 °C 55/45/20 °C	933 488	1153 606	1454 792	1780 945	2090 1115	2251 1251
2400	75/65/20 °C 55/45/20 °C	1018 532	1258 661	1586 864	1942 1031	2280 1216	
2600	75/65/20 °C 55/45/20 °C	1102 576	1362 716	1719 936	2103 1116	2470 1318	
2800	75/65/20 °C 55/45/20 °C	1187 620	1467 771	1851 1008	2265 1202	2660 1419	
3000	75/65/20 °C 55/45/20 °C	1272 665	1572 826	1983 1080	2427 1288	2850 1520	
3200	75/65/20 °C 55/45/20 °C	1357 709	1677 881	2115 1152	2589 1374		
3400	75/65/20 °C 55/45/20 °C	1442 754	1782 936	2247 1223	2751 1460		
3600	75/65/20 °C 55/45/20 °C	1526 798	1886 991	2380 1296	2912 1546		
3800	75/65/20 °C 55/45/20 °C	1611 842	1991 1046	2512 1368	3074 1632		
4000	75/65/20 °C 55/45/20 °C	1696 886	2096 1101	2644 1440	3236 1718		

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.27	1.26	1.19	1.24	1.23	1.15
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All Narbonne convectors available on request.

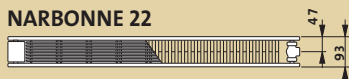
Narbonne - height 142 mm

convectors

An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE 22 142 1600**

NARBONNE 22



name _____
type _____
height _____
length _____



L length [mm]	parameters $t_z / t_p / t_i$	type					
		22	23	34	35	46	58
500	75/65/20 °C 55/45/20 °C	321 165	399 205	525 276	599 310	727 374	830 438
600	75/65/20 °C 55/45/20 °C	385 198	478 246	630 331	718 371	872 449	995 525
700	75/65/20 °C 55/45/20 °C	449 231	558 287	735 386	838 434	1018 524	1161 613
800	75/65/20 °C 55/45/20 °C	513 264	638 328	840 441	958 496	1163 599	1327 701
900	75/65/20 °C 55/45/20 °C	577 297	717 369	945 496	1077 557	1309 674	1493 788
1000	75/65/20 °C 55/45/20 °C	641 330	797 410	1050 552	1197 619	1454 748	1659 876
1100	75/65/20 °C 55/45/20 °C	705 363	877 451	1155 607	1317 681	1599 823	1825 964
1200	75/65/20 °C 55/45/20 °C	769 396	956 492	1260 662	1436 743	1745 898	1991 1051
1300	75/65/20 °C 55/45/20 °C	833 429	1036 533	1365 717	1556 805	1890 973	2157 1139
1400	75/65/20 °C 55/45/20 °C	897 462	1116 574	1470 772	1676 867	2036 1048	2323 1227
1600	75/65/20 °C 55/45/20 °C	1026 528	1275 656	1680 883	1915 991	2326 1197	2654 1401
1800	75/65/20 °C 55/45/20 °C	1154 594	1435 739	1890 993	2155 1115	2617 1347	2986 1577
2000	75/65/20 °C 55/45/20 °C	1282 660	1594 821	2100 1103	2394 1239	2908 1497	3318 1752
2200	75/65/20 °C 55/45/20 °C	1410 726	1753 902	2310 1214	2633 1362	3199 1647	3650 1927
2400	75/65/20 °C 55/45/20 °C	1538 792	1913 985	2520 1324	2873 1486	3490 1796	
2600	75/65/20 °C 55/45/20 °C	1667 858	2072 1067	2730 1434	3112 1610	3780 1946	
2800	75/65/20 °C 55/45/20 °C	1795 924	2232 1149	2940 1545	3352 1734	4071 2096	
3000	75/65/20 °C 55/45/20 °C	1923 990	2391 1231	3150 1655	3591 1858	4362 2245	
3200	75/65/20 °C 55/45/20 °C	2051 1056	2550 1313	3360 1765	3830 1982		
3400	75/65/20 °C 55/45/20 °C	2179 1122	2710 1395	3570 1876	4070 2106		
3600	75/65/20 °C 55/45/20 °C	2308 1188	2869 1477	3780 1986	4309 2229		
3800	75/65/20 °C 55/45/20 °C	2436 1254	3029 1559	3990 2096	4549 2354		
4000	75/65/20 °C 55/45/20 °C	2564 1320	3188 1641	4200 2207	4788 2477		

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.30	1.30	1.26	1.29	1.30	1.25
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All Narbonne convectors available on request.

convectors

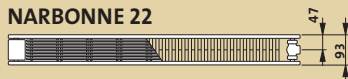
Narbonne - height 214 mm



An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE 22 214 1600**

NARBONNE 22



name

type

height

length

L length [mm]	parameters $t_z / t_p / t_i$	type						
		11	22	23	34	35	46	58
500	75/65/20 °C	232	419	518	697	826	1036	1296
	55/45/20 °C	118	211	261	353	414	517	650
600	75/65/20 °C	278	503	621	836	991	1243	1555
	55/45/20 °C	142	254	313	424	497	621	780
700	75/65/20 °C	325	587	725	976	1156	1450	1814
	55/45/20 °C	166	296	366	495	580	724	910
800	75/65/20 °C	371	670	828	1115	1321	1658	2074
	55/45/20 °C	189	338	418	565	663	828	1041
900	75/65/20 °C	418	754	932	1255	1486	1865	2333
	55/45/20 °C	213	380	470	636	746	931	1171
1000	75/65/20 °C	464	838	1035	1394	1651	2072	2592
	55/45/20 °C	236	423	522	707	828	1034	1301
1100	75/65/20 °C	510	922	1139	1533	1816	2279	2851
	55/45/20 °C	260	465	574	777	911	1138	1431
1200	75/65/20 °C	557	1006	1242	1673	1981	2486	3110
	55/45/20 °C	284	507	626	848	994	1241	1561
1300	75/65/20 °C	603	1089	1346	1812	2146	2694	3370
	55/45/20 °C	307	549	679	919	1077	1345	1691
1400	75/65/20 °C	650	1173	1449	1952	2311	2901	3629
	55/45/20 °C	331	592	731	990	1160	1448	1821
1600	75/65/20 °C	742	1341	1656	2230	2642	3315	4147
	55/45/20 °C	378	676	835	1130	1326	1655	2081
1800	75/65/20 °C	835	1508	1863	2509	2972	3730	4666
	55/45/20 °C	425	761	940	1272	1491	1862	2341
2000	75/65/20 °C	928	1676	2070	2788	3302	4144	5184
	55/45/20 °C	473	845	1044	1413	1657	2069	2601
2200	75/65/20 °C	1021	1844	2277	3067	3632	4558	5702
	55/45/20 °C	520	930	1148	1555	1822	2275	2861
2400	75/65/20 °C	1114	2011	2484	3346	3962	4973	
	55/45/20 °C	568	1014	1253	1696	1988	2483	
2600	75/65/20 °C	1206	2179	2691	3624	4293	5387	
	55/45/20 °C	614	1099	1357	1837	2154	2689	
2800	75/65/20 °C	1299	2346	2898	3903	4623	5802	
	55/45/20 °C	662	1183	1462	1979	2320	2896	
3000	75/65/20 °C	1392	2514	3105	4182	4953	6216	
	55/45/20 °C	709	1268	1566	2120	2485	3103	
3200	75/65/20 °C	1485	2682	3312	4461	5283		
	55/45/20 °C	757	1353	1670	2261	2651		
3400	75/65/20 °C	1578	2849	3519	4740	5613		
	55/45/20 °C	804	1437	1775	2403	2816		
3600	75/65/20 °C	1670	3017	3726	5018	5944		
	55/45/20 °C	851	1522	1879	2544	2983		
3800	75/65/20 °C	1763	3184	3933	5297	6274		
	55/45/20 °C	898	1606	1984	2685	3148		
4000	75/65/20 °C	1856	3352	4140	5576	6604		
	55/45/20 °C	946	1691	2088	2827	3314		

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.32	1.34	1.34	1.33	1.35	1.36	1.35
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All Narbonne convectors available on request.

Narbonne - height 286 mm

convectors

An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE 22 286 1600**

NARBONNE 22



name _____
type _____
height _____
length _____



L length [mm]	parameters $t_z / t_p / t_i$	type						
		11	22	23	34	35	46	58
500	75/65/20 °C 55/45/20 °C	289 146	516 255	631 312	862 426	986 482	1224 599	1511 743
600	75/65/20 °C 55/45/20 °C	346 175	619 306	757 374	1034 511	1183 579	1468 718	1813 891
700	75/65/20 °C 55/45/20 °C	404 204	722 357	883 436	1206 596	1380 675	1713 838	2115 1040
800	75/65/20 °C 55/45/20 °C	462 233	826 408	1009 499	1378 681	1577 771	1958 958	2418 1189
900	75/65/20 °C 55/45/20 °C	519 262	929 459	1135 561	1551 766	1774 868	2202 1077	2720 1337
1000	75/65/20 °C 55/45/20 °C	577 291	1032 510	1261 623	1723 851	1971 964	2447 1197	3022 1486
1100	75/65/20 °C 55/45/20 °C	635 320	1135 561	1387 685	1895 936	2168 1060	2692 1317	3324 1634
1200	75/65/20 °C 55/45/20 °C	692 349	1238 612	1513 748	2068 1022	2365 1157	2936 1436	3626 1783
1300	75/65/20 °C 55/45/20 °C	750 378	1342 663	1639 810	2240 1107	2562 1253	3181 1556	3929 1932
1400	75/65/20 °C 55/45/20 °C	808 408	1445 714	1765 872	2412 1192	2759 1349	3426 1676	4231 2080
1600	75/65/20 °C 55/45/20 °C	923 466	1651 816	2018 997	2757 1362	3154 1543	3915 1915	4835 2377
1800	75/65/20 °C 55/45/20 °C	1039 524	1858 918	2270 1122	3101 1532	3548 1735	4405 2155	5440 2674
2000	75/65/20 °C 55/45/20 °C	1154 582	2064 1020	2522 1246	3446 1703	3942 1928	4894 2394	6044 2971
2200	75/65/20 °C 55/45/20 °C	1269 640	2270 1122	2774 1371	3791 1873	4336 2121	5383 2633	6648 3268
2400	75/65/20 °C 55/45/20 °C	1385 699	2477 1224	3026 1495	4135 2043	4730 2314	5873 2873	
2600	75/65/20 °C 55/45/20 °C	1500 757	2683 1326	3279 1620	4480 2214	5125 2507	6362 3112	
2800	75/65/20 °C 55/45/20 °C	1616 815	2890 1428	3531 1745	4824 2384	5519 2699	6852 3351	
3000	75/65/20 °C 55/45/20 °C	1731 873	3096 1530	3783 1869	5169 2554	5913 2892	7341 3591	
3200	75/65/20 °C 55/45/20 °C	1846 931	3302 1632	4035 1994	5514 2725	6307 3085		
3400	75/65/20 °C 55/45/20 °C	1962 990	3509 1734	4287 2118	5858 2895	6701 3278		
3600	75/65/20 °C 55/45/20 °C	2077 1048	3715 1836	4540 2243	6203 3065	7096 3471		
3800	75/65/20 °C 55/45/20 °C	2193 1106	3922 1938	4792 2368	6547 3235	7490 3663		
4000	75/65/20 °C 55/45/20 °C	2308 1164	4128 2040	5044 2492	6892 3406	7884 3856		

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.34	1.38	1.38	1.38	1.40	1.40	1.39
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All Narbonne convectors available on request.

Narbonne VT

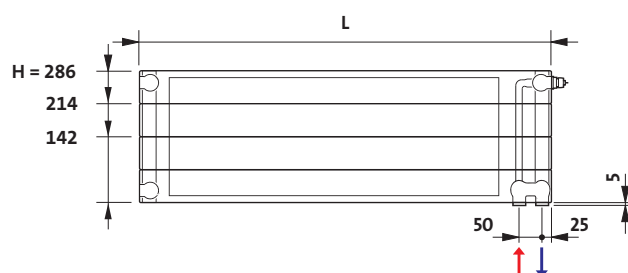
Convectors Narbonne VT are composed of several interconnected profiled steel heating elements of a rectangular cross section. Each convector has got two bottom connecting openings, each with external thread G ¾", enabling bottom connection. Three side openings with internal thread G ½" are normally designed for mounting the Danfoss thermostatic valve insert with pre-regulation, plus the air vent and closing plug. Narbonne VT convectors are equipped with two side covers and the top masking grille. The heating profiles are mounted horizontally, so that to retain the 2 mm-wide distancing between each two, necessary to compensate for the heat expansion of the elements, and enabling the perfect varnish cover of the entire convector's surface. Most models are equipped with convective elements, increasing the heating efficiency of the convectors.

technical specification

- Material : high quality steel profiles of a rectangular cross section, dimensions: 70 x 11 x 1.5 mm (high pressure version: 70 x 11 x 2.0 mm)
- Metal sheet thickness : heating profiles – 1.50 mm; convectors – 0.50 mm
- Height : 142, 214, 286 mm
- Length : from 500 up to 4000 mm
- Depth : from 68 up to 339 mm
- Connections : 2 x G ¾", bottom connectors,
3 x G ½", side connectors
- Max. operating pressure : 5 bar for the standard version, 8 bar for the high pressure version
- Max. temperature : 110°C
- Colour : RAL 9016, other RAL colours available, surcharge at each order
- Brackets : wall or floor – ordered separately, at Client's preference
- Accessories : plug and air vent, Danfoss thermostatic valve insert included in the convector's kit

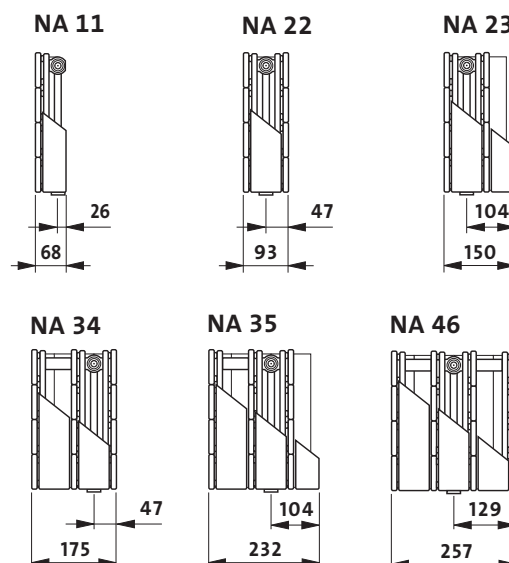


front view

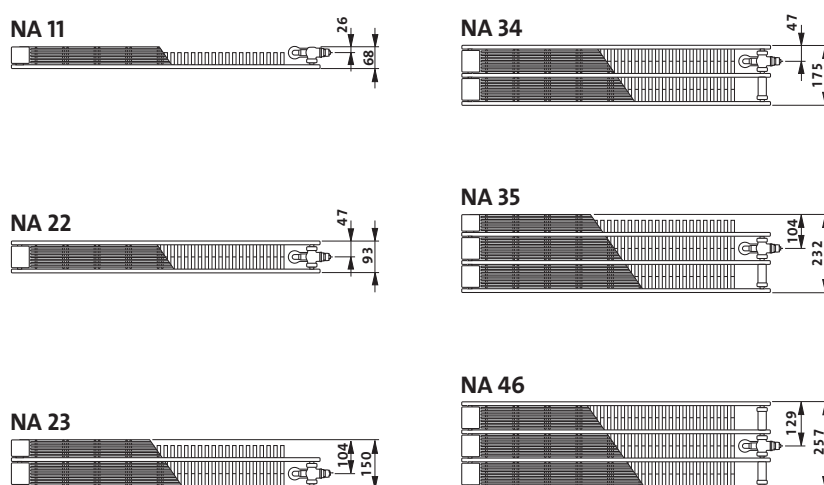


H - height [mm]
L - length [mm]

side view



top view



Note:
the diagrams show the right-hand side versions of the convectors.

weight and water volume

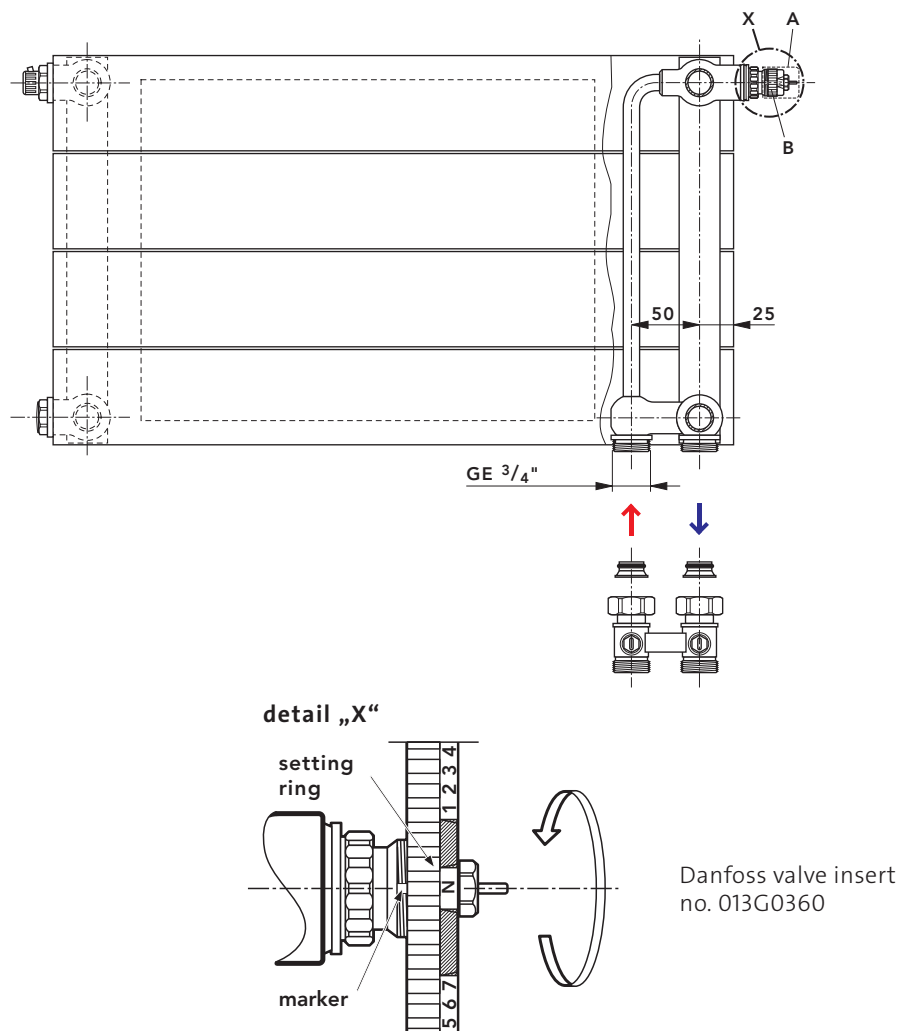
weight : kg/m

type	height [mm]		
	142	214	286
11	-	11.1	14.5
22	14.0	20.6	27.2
23	17.0	24.8	32.7
34	23.9	35.2	46.4
35	27.0	39.4	51.9
46	33.9	49.8	65.6

water volume : l/m

type	height [mm]		
	142	214	286
11	-	1.7	2.2
22	2.2	3.3	4.4
23	2.2	3.3	4.4
34	3.3	5.0	6.7
35	3.3	5.0	6.7
46	4.5	6.8	9.1

Proper initial preset can be easily and precisely obtained with no necessity of using any dedicated tools (see the diagrams below).



After the valve's masking cover has been removed (pos. A), a built-in valve insert (not included in the convector's set) will be mounted (pos. B):

Danfoss (RA 2994, RAW 5115), **Oventrop Uni XD**, **Heimeier VK**, **Herz D**, **Honeywell thera-DA**.

Tips for setting:

- remove the plastic valve's masking cover;
- rotate the setting ring to achieve the required setting (1, 2,...7, N) opposite the marker;
- the preset can be adjusted in the range between 1 and 7, with the resolution of 0.5 of the scale. The factory default preset values correspond to the highest kv value, which in turn corresponds to the "N" setting.

Note: adjustment of preset values between the scale's elements, in the crossed-out area, is not allowed!

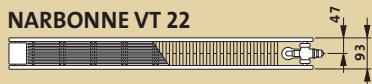
Narbonne VT - height 142 mm

convectors

An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE VT 22 142 1600**

NARBONNE VT 22



name

type

height

length



L length [mm]	parameters $t_z / t_p / t_i$	type				
		22	23	34	35	46
500	75/65/20 °C 55/45/20 °C	321 165	399 205	525 276	599 310	727 374
600	75/65/20 °C 55/45/20 °C	385 198	478 246	630 331	718 371	872 449
700	75/65/20 °C 55/45/20 °C	449 231	558 287	735 386	838 434	1018 524
800	75/65/20 °C 55/45/20 °C	513 264	638 328	840 441	958 496	1163 599
900	75/65/20 °C 55/45/20 °C	577 297	717 369	945 496	1077 557	1309 674
1000	75/65/20 °C 55/45/20 °C	641 330	797 410	1050 552	1197 619	1454 748
1100	75/65/20 °C 55/45/20 °C	705 363	877 451	1155 607	1317 681	1599 823
1200	75/65/20 °C 55/45/20 °C	769 396	956 492	1260 662	1436 743	1745 898
1300	75/65/20 °C 55/45/20 °C	833 429	1036 533	1365 717	1556 805	1890 973
1400	75/65/20 °C 55/45/20 °C	897 462	1116 574	1470 772	1676 867	2036 1048
1600	75/65/20 °C 55/45/20 °C	1026 528	1275 656	1680 883	1915 991	2326 1197
1800	75/65/20 °C 55/45/20 °C	1154 594	1435 739	1890 993	2155 1115	2617 1347
2000	75/65/20 °C 55/45/20 °C	1282 660	1594 821	2100 1103	2394 1239	2908 1497
2200	75/65/20 °C 55/45/20 °C	1410 726	1753 902	2310 1214	2633 1362	3199 1647
2400	75/65/20 °C 55/45/20 °C	1538 792	1913 985	2520 1324	2873 1486	3490 1796
2600	75/65/20 °C 55/45/20 °C	1667 858	2072 1067	2730 1434	3112 1610	3780 1946
2800	75/65/20 °C 55/45/20 °C	1795 924	2232 1149	2940 1545	3352 1734	4071 2096
3000	75/65/20 °C 55/45/20 °C	1923 990	2391 1231	3150 1655	3591 1858	4362 2245
3200	75/65/20 °C 55/45/20 °C	2051 1056	2550 1313	3360 1765	3830 1982	
3400	75/65/20 °C 55/45/20 °C	2179 1122	2710 1395	3570 1876	4070 2106	
3600	75/65/20 °C 55/45/20 °C	2308 1188	2869 1477	3780 1986	4309 2229	
3800	75/65/20 °C 55/45/20 °C	2436 1254	3029 1559	3990 2096	4549 2354	
4000	75/65/20 °C 55/45/20 °C	2564 1320	3188 1641	4200 2207	4788 2477	

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.30	1.30	1.26	1.29	1.30
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All Narbonne convectors available on request.

convectors

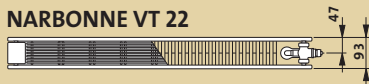
Narbonne VT - height 214 mm



An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE VT 22 214 1600**

NARBONNE VT 22



name _____
type _____
height _____
length _____

L length [mm]	parameters $t_z / t_p / t_i$	type					
		11	22	23	34	35	46
500	75/65/20 °C 55/45/20 °C	232 118	419 211	518 261	697 353	826 414	1036 517
600	75/65/20 °C 55/45/20 °C	278 142	503 254	621 313	836 424	991 497	1243 621
700	75/65/20 °C 55/45/20 °C	325 166	587 296	725 366	976 495	1156 580	1450 724
800	75/65/20 °C 55/45/20 °C	371 189	670 338	828 418	1115 565	1321 663	1658 828
900	75/65/20 °C 55/45/20 °C	418 213	754 380	932 470	1255 636	1486 746	1865 931
1000	75/65/20 °C 55/45/20 °C	464 236	838 423	1035 522	1394 707	1651 828	2072 1034
1100	75/65/20 °C 55/45/20 °C	510 260	922 465	1139 574	1533 777	1816 911	2279 1138
1200	75/65/20 °C 55/45/20 °C	557 284	1006 507	1242 626	1673 848	1981 994	2486 1241
1300	75/65/20 °C 55/45/20 °C	603 307	1089 549	1346 679	1812 919	2146 1077	2694 1345
1400	75/65/20 °C 55/45/20 °C	650 331	1173 592	1449 731	1952 990	2311 1160	2901 1448
1600	75/65/20 °C 55/45/20 °C	742 378	1341 676	1656 835	2230 1130	2642 1326	3315 1655
1800	75/65/20 °C 55/45/20 °C	835 425	1508 761	1863 940	2509 1272	2972 1491	3730 1862
2000	75/65/20 °C 55/45/20 °C	928 473	1676 845	2070 1044	2788 1413	3302 1657	4144 2069
2200	75/65/20 °C 55/45/20 °C	1021 520	1844 930	2277 1148	3067 1555	3632 1822	4558 2275
2400	75/65/20 °C 55/45/20 °C	1114 568	2011 1014	2484 1253	3346 1696	3962 1988	4973 2483
2600	75/65/20 °C 55/45/20 °C	1206 614	2179 1099	2691 1357	3624 1837	4293 2154	5387 2689
2800	75/65/20 °C 55/45/20 °C	1299 662	2346 1183	2898 1462	3903 1979	4623 2320	5802 2896
3000	75/65/20 °C 55/45/20 °C	1392 709	2514 1268	3105 1566	4182 2120	4953 2485	6216 3103
3200	75/65/20 °C 55/45/20 °C	1485 757	2682 1353	3312 1670	4461 2261	5283 2651	
3400	75/65/20 °C 55/45/20 °C	1578 804	2849 1437	3519 1775	4740 2403	5613 2816	
3600	75/65/20 °C 55/45/20 °C	1670 851	3017 1522	3726 1879	5018 2544	5944 2983	
3800	75/65/20 °C 55/45/20 °C	1763 898	3184 1606	3933 1984	5297 2685	6274 3148	
4000	75/65/20 °C 55/45/20 °C	1856 946	3352 1691	4140 2088	5576 2827	6604 3314	

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.32	1.34	1.34	1.33	1.35	1.36
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All Narbonne convectors available on request.

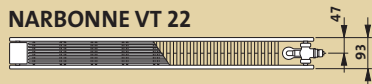
Narbonne VT - height 286 mm

convectors

An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE VT 22 286 1600**

NARBONNE VT 22



name

type

height

length



L length [mm]	parameters $t_z / t_p / t_i$	type					
		11	22	23	34	35	46
500	75/65/20 °C 55/45/20 °C	289 146	516 255	631 312	862 426	986 482	1224 599
600	75/65/20 °C 55/45/20 °C	346 175	619 306	757 374	1034 511	1183 579	1468 718
700	75/65/20 °C 55/45/20 °C	404 204	722 357	883 436	1206 596	1380 675	1713 838
800	75/65/20 °C 55/45/20 °C	462 233	826 408	1009 499	1378 681	1577 771	1958 958
900	75/65/20 °C 55/45/20 °C	519 262	929 459	1135 561	1551 766	1774 868	2202 1077
1000	75/65/20 °C 55/45/20 °C	577 291	1032 510	1261 623	1723 851	1971 964	2447 1197
1100	75/65/20 °C 55/45/20 °C	635 320	1135 561	1387 685	1895 936	2168 1060	2692 1317
1200	75/65/20 °C 55/45/20 °C	692 349	1238 612	1513 748	2068 1022	2365 1157	2936 1436
1300	75/65/20 °C 55/45/20 °C	750 378	1342 663	1639 810	2240 1107	2562 1253	3181 1556
1400	75/65/20 °C 55/45/20 °C	808 408	1445 714	1765 872	2412 1192	2759 1349	3426 1676
1600	75/65/20 °C 55/45/20 °C	923 466	1651 816	2018 997	2757 1362	3154 1543	3915 1915
1800	75/65/20 °C 55/45/20 °C	1039 524	1858 918	2270 1122	3101 1532	3548 1735	4405 2155
2000	75/65/20 °C 55/45/20 °C	1154 582	2064 1020	2522 1246	3446 1703	3942 1928	4894 2394
2200	75/65/20 °C 55/45/20 °C	1269 640	2270 1122	2774 1371	3791 1873	4336 2121	5383 2633
2400	75/65/20 °C 55/45/20 °C	1385 699	2477 1224	3026 1495	4135 2043	4730 2314	5873 2873
2600	75/65/20 °C 55/45/20 °C	1500 757	2683 1326	3279 1620	4480 2214	5125 2507	6362 3112
2800	75/65/20 °C 55/45/20 °C	1616 815	2890 1428	3531 1745	4824 2384	5519 2699	6852 3351
3000	75/65/20 °C 55/45/20 °C	1731 873	3096 1530	3783 1869	5169 2554	5913 2892	7341 3591
3200	75/65/20 °C 55/45/20 °C	1846 931	3302 1632	4035 1994	5514 2725	6307 3085	
3400	75/65/20 °C 55/45/20 °C	1962 990	3509 1734	4287 2118	5858 2895	6701 3278	
3600	75/65/20 °C 55/45/20 °C	2077 1048	3715 1836	4540 2243	6203 3065	7096 3471	
3800	75/65/20 °C 55/45/20 °C	2193 1106	3922 1938	4792 2368	6547 3235	7490 3663	
4000	75/65/20 °C 55/45/20 °C	2308 1164	4128 2040	5044 2492	6892 3406	7884 3856	

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.34	1.38	1.38	1.38	1.40	1.40
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All Narbonne convectors available on request.

convectors

Narbonne V

Convectors Narbonne V are composed of several interconnected profiled steel heating elements of a rectangular cross section. Each convector has got four connecting openings, each with internal thread G ½", enabling side connection, both from the left- and the right-hand side. Narbonne convectors are equipped with two side covers, but no top masking grille.

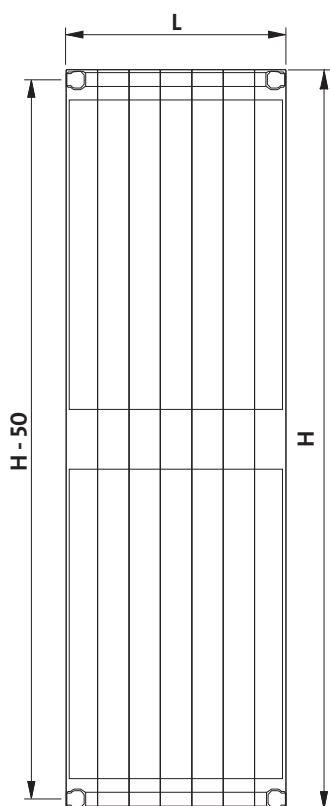
The heating profiles are mounted vertically, so that to retain the 2 mm-wide distancing between each two, necessary to compensate for the heat expansion of the elements, and enabling the perfect varnish cover of the entire convector's surface. Most models are equipped with convective elements, increasing the heating efficiency of the convectors.

technical specification

- Material : high quality steel profiles of a rectangular cross section, dimensions: 70 x 11 x 1.5 mm (high pressure version: 70 x 11 x 2.0 mm)
- Metal sheet thickness : heating profiles – 1.50 mm; convectors – 0.50 mm
- Height : 1600, 1800, 2000, 2200 mm
- Width : from 142 up to 862 mm
- Depth : od 68 do 93mm
- Connections : 4 x G ½", side connectors
- Max. operating pressure : 5 bar for the standard version, 8 bar for the high pressure version
- Max. temperature : 110°C
- Colour : RAL 9016, other RAL colours available, surcharge at each order
- Accessories : plug and air vent, included in the convector's kit

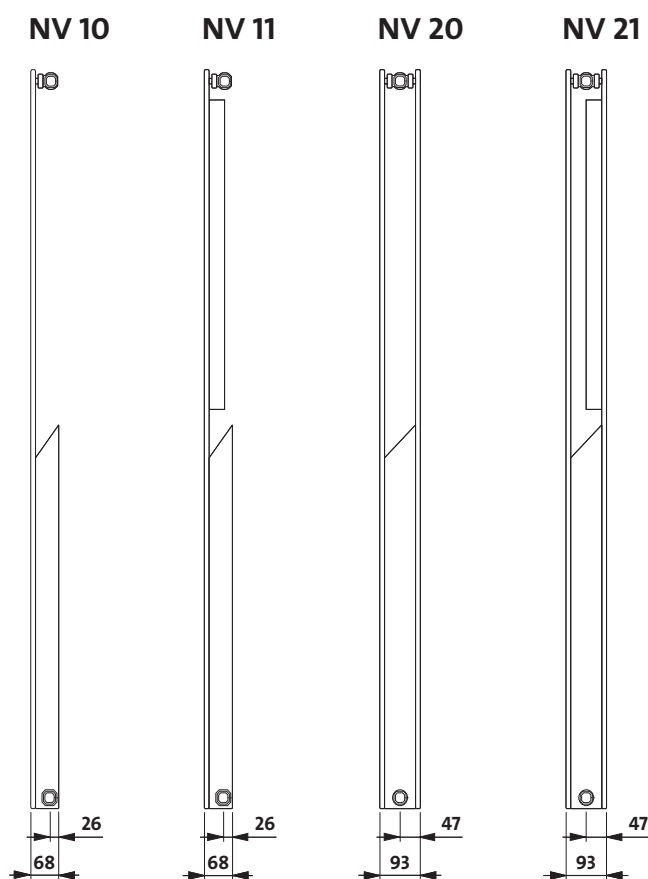


front view

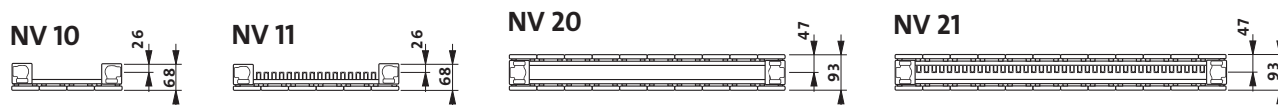


H - height [mm]
L - length [mm]

side view



top view



weight and water volume

weight : kg/m

type	height [mm]			
	1600	1800	2000	2200
10	44.5	49.6	54.8	59.7
11	63.4	68.5	73.7	78.8
20	85.4	95.5	105.5	115.5
21	104.4	114.4	124.4	134.4

water volume : l/m

type	height [mm]			
	1600	1800	2000	2200
10	11.4	12.5	13.9	15.2
11	11.4	12.5	13.9	15.2
20	22.7	24.3	27.7	30.5
21	22.7	24.3	27.7	30.5

convectors

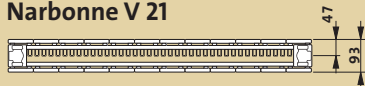
Narbonne V - height 1600 and 1800 mm



An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE V 21 1600 430**

Narbonne V 21



name _____
type _____
height _____
length _____

L length [mm]	parameters $t_z / t_p / t_i$	height 1600 mm				height 1800 mm			
		10	11	20	21	10	11	20	21
142 (2)	75/65/20 °C	247	281	416	452	281	314	469	509
	55/45/20 °C	121	140	202	221	137	156	229	249
214 (3)	75/65/20 °C	372	424	627	681	424	473	706	768
	55/45/20 °C	182	211	305	333	207	235	345	376
286 (4)	75/65/20 °C	497	566	839	911	566	632	944	1026
	55/45/20 °C	243	281	408	446	277	314	462	502
358 (5)	75/65/20 °C	622	708	1050	1140	708	791	1182	1285
	55/45/20 °C	304	352	511	558	346	393	578	629
430 (6)	75/65/20 °C	747	851	1261	1369	851	950	1419	1543
	55/45/20 °C	365	423	614	670	416	472	694	755
502 (7)	75/65/20 °C	872	993	1472	1598	993	1109	1657	1801
	55/45/20 °C	427	493	716	782	486	551	810	881
574 (8)	75/65/20 °C	998	1136	1683	1828	1136	1268	1895	2060
	55/45/20 °C	488	564	819	894	556	630	927	1008
646 (9)	75/65/20 °C	1123	1278	1894	2057	1278	1427	2132	2318
	55/45/20 °C	549	635	922	1006	625	709	1043	1134
718 (10)	75/65/20 °C	1248	1421	2105	2286	1421	1586	2370	2576
	55/45/20 °C	610	706	1024	1118	695	788	1159	1260
790 (11)	75/65/20 °C	1373	1563	2316	2515	1563	1745	2608	2835
	55/45/20 °C	672	776	1127	1230	764	867	1276	1387
862 (12)	75/65/20 °C	1498	1706	2527	2745	1706	1904	2845	3093
	55/45/20 °C	733	847	1230	1343	834	946	1392	1513

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.40	1.37	1.41	1.40	1.40	1.37	1.40	1.40
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All Narbonne convectors available on request.

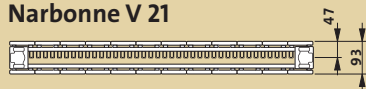
Narbonne V - height 2000 and 2200 mm

convectors

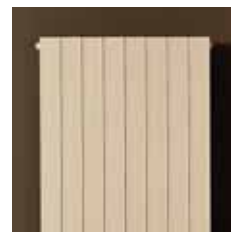
An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE V 21 2000 430**

Narbonne V 21



name _____
type _____
height _____
length _____



L length [mm]	parameters $t_z / t_p / t_i$	height 2000 mm				height 2200 mm			
		10	11	20	21	10	11	20	21
142 (2)	75/65/20 °C	317	348	521	570	354	384	575	633
	55/45/20 °C	156	174	256	282	175	194	284	316
214 (3)	75/65/20 °C	478	524	786	859	534	578	866	953
	55/45/20 °C	235	262	386	424	264	292	428	476
286 (4)	75/65/20 °C	638	701	1050	1147	714	772	1157	1274
	55/45/20 °C	314	350	516	567	353	389	572	636
358 (5)	75/65/20 °C	799	877	1315	1436	893	967	1448	1595
	55/45/20 °C	393	438	646	710	441	488	716	796
430 (6)	75/65/20 °C	960	1054	1579	1725	1073	1161	1740	1916
	55/45/20 °C	472	526	776	852	530	586	860	956
502 (7)	75/65/20 °C	1120	1230	1843	2014	1252	1356	2031	2236
	55/45/20 °C	551	614	906	995	619	684	1004	1116
574 (8)	75/65/20 °C	1281	1406	2108	2303	1432	1550	2322	2557
	55/45/20 °C	630	702	1036	1138	708	782	1147	1276
646 (9)	75/65/20 °C	1442	1583	2372	2592	1612	1745	2614	2878
	55/45/20 °C	709	790	1166	1281	797	880	1292	1437
718 (10)	75/65/20 °C	1603	1759	2636	2881	1791	1939	2905	3199
	55/45/20 °C	788	878	1296	1424	885	978	1435	1597
790 (11)	75/65/20 °C	1763	1936	2901	3169	1971	2134	3196	3519
	55/45/20 °C	867	966	1426	1566	974	1076	1579	1757
862 (12)	75/65/20 °C	1924	2112	3165	3458	2151	2328	3488	3840
	55/45/20 °C	946	1054	1556	1709	1063	1174	1724	1917

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.39	1.36	1.39	1.38	1.38	1.34	1.38	1.36
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All Narbonne convectors available on request.

convectors

Narbonne V VT

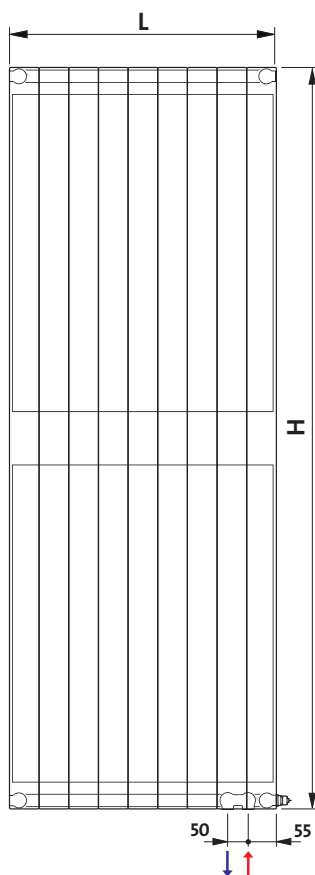
Convectors Narbonne V VT are composed of several interconnected profiled steel heating elements of a rectangular cross section. Each convector has got two bottom connecting openings, each with external thread G ¾", enabling bottom connection. Four side openings with internal thread G ½" are normally designed for mounting the Danfoss thermostatic valve insert with pre-regulation, plus the air vent and closing plugs. Narbonne V VT convectors are equipped with two side covers, but no top masking grille. The heating profiles are mounted vertically, so that to retain the 2 mm-wide distancing between each two, necessary to compensate for the heat expansion of the elements, and enabling the perfect varnish cover of the entire convector's surface. Most models are equipped with convective elements, increasing the heating efficiency of the convectors.

technical specification

- Material : high quality steel profiles of a rectangular cross section, dimensions: 70 x 11 x 1.5 mm (high pressure version: 70 x 11 x 2.0 mm)
- Metal sheet thickness : heating profiles – 1.50 mm; convectors – 0.50 mm
- Height : 1600, 1800, 2000 mm
- Width : from 214 up to 862 mm
- Depth : from 68 up to 93 mm
- Connections : 2 x G ¾", bottom connectors,
4 x G ½", side connectors
- Max. operating pressure : 5 bar for the standard version, 8 bar for the high pressure version
- Max. temperature : 110°C
- Colour : RAL 9016, other RAL colours available, surcharge at each order
- Accessories : plug and air vent, Danfoss thermostatic valve insert included in the convector's kit

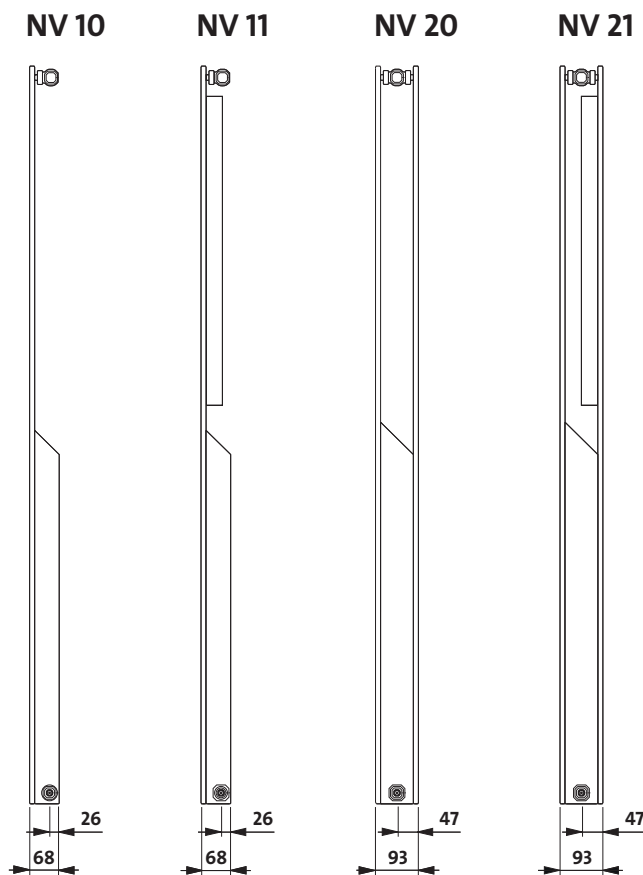


front view

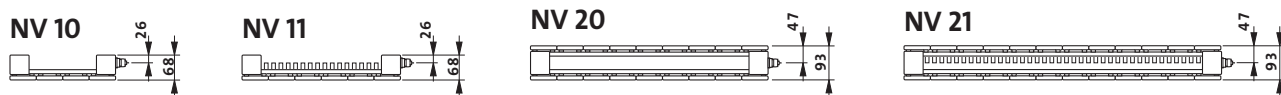


H - height [mm]
L - length [mm]

side view



top view



Note: the diagrams show the right-hand side versions of the convectors.

weight and water volume

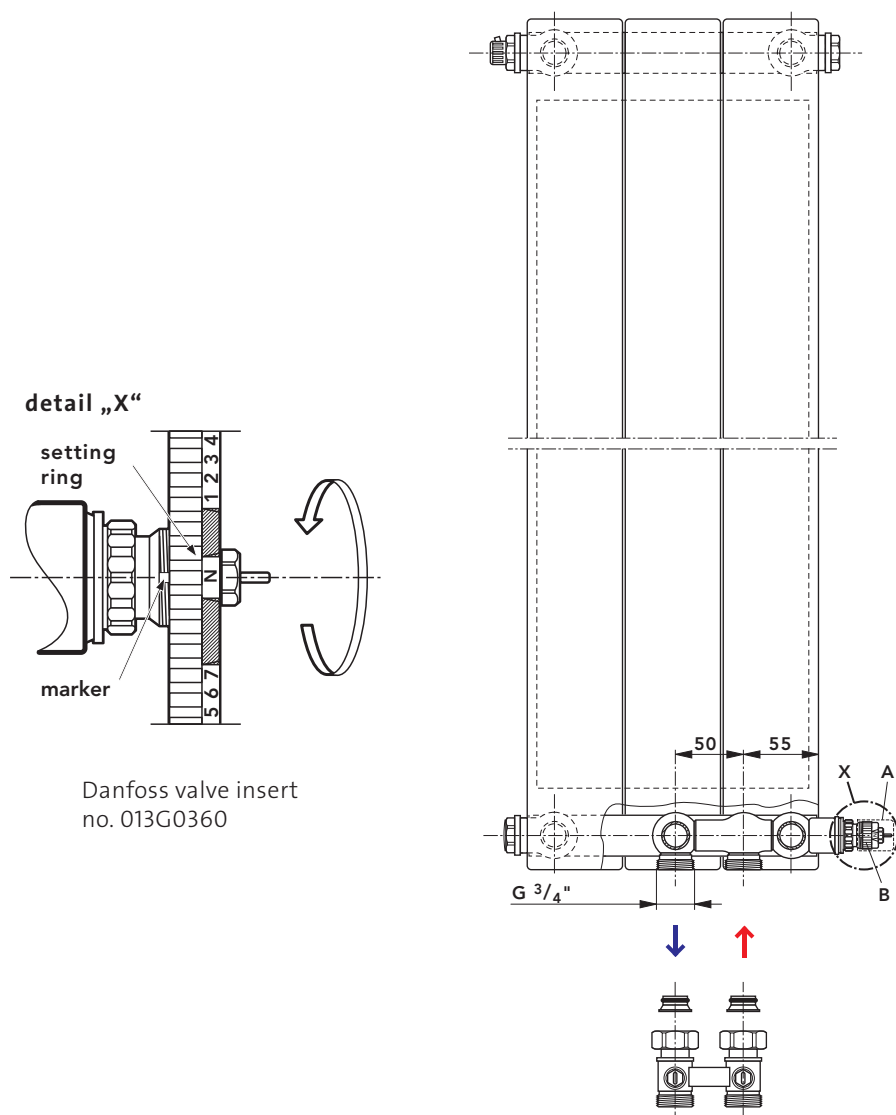
weight : kg/m

type	height [mm]		
	1600	1800	2000
10	44.5	49.6	54.8
11	63.4	68.5	73.7
20	85.4	95.5	105.5
21	104.4	114.4	124.4

water volume : l/m

type	height [mm]		
	1600	1800	2000
10	11.4	12.5	13.9
11	11.4	12.5	13.9
20	22.7	24.3	27.7
21	22.7	24.3	27.7

Proper initial preset can be easily and precisely obtained with no necessity of using any dedicated tools (see the diagrams below).



Note!!!: Narbonne V VT connection (supply and return) is opposite to Narbonne VT!

After the valve's masking cover has been removed (pos. A), a built-in valve insert (not included in the convector's set) will be mounted (pos. B):

Danfoss (RA 2994, RAW 5115), **Oventrop Uni XD**, **Heimeier VK**, **Herz D**, **Honeywell thera-DA**.

Tips for setting:

- remove the plastic valve's masking cover;
- rotate the setting ring to achieve the required setting (1, 2,...7, N) opposite the marker;
- the preset can be adjusted in the range between 1 and 7, with the resolution of 0.5 of the scale. The factory default preset values correspond to the highest kv value, which in turn corresponds to the "N" setting.

Note: adjustment of preset values between the scale's elements, in the crossed-out area, is not allowed!

Narbonne V VT - height 1600 mm

convectors

An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE V VT 21 1600 430**

NARBONNE V VT 21



name _____
type _____
height _____
length _____



L length [mm]	parameters $t_z / t_p / t_i$	height 1600 mm			
		10	11	20	21
214 (3)	75/65/20 °C 55/45/20 °C	372 182	424 211	627 305	681 333
286 (4)	75/65/20 °C 55/45/20 °C	497 243	566 281	839 408	911 446
358 (5)	75/65/20 °C 55/45/20 °C	622 304	708 352	1050 511	1140 558
430 (6)	75/65/20 °C 55/45/20 °C	747 365	851 423	1261 614	1369 670
502 (7)	75/65/20 °C 55/45/20 °C	872 427	993 493	1472 716	1598 782
574 (8)	75/65/20 °C 55/45/20 °C	998 488	1136 564	1683 819	1828 894
646 (9)	75/65/20 °C 55/45/20 °C	1123 549	1278 635	1894 922	2057 1006
718 (10)	75/65/20 °C 55/45/20 °C	1248 610	1421 706	2105 1024	2286 1118
790 (11)	75/65/20 °C 55/45/20 °C	1373 672	1563 776	2316 1127	2515 1230
862 (12)	75/65/20 °C 55/45/20 °C	1498 733	1706 847	2527 1230	2745 1343

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.40	1.37	1.41	1.40
------------	------	------	------	------

All Narbonne convectors available on request.



An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE V VT 21 1800 430**

NARBONNE V VT 21



name _____
type _____
height _____
length _____

L length [mm]	parameters $t_z / t_p / t_i$	height 1800 mm			
		10	11	20	21
214 (3)	75/65/20 °C 55/45/20 °C	424 207	473 235	706 345	768 376
286 (4)	75/65/20 °C 55/45/20 °C	566 277	632 314	944 462	1026 502
358 (5)	75/65/20 °C 55/45/20 °C	708 346	791 393	1182 578	1285 629
430 (6)	75/65/20 °C 55/45/20 °C	851 416	950 472	1419 694	1543 755
502 (7)	75/65/20 °C 55/45/20 °C	993 486	1109 551	1657 810	1801 881
574 (8)	75/65/20 °C 55/45/20 °C	1136 556	1268 630	1895 927	2060 1008
646 (9)	75/65/20 °C 55/45/20 °C	1278 625	1427 709	2132 1043	2318 1134
718 (10)	75/65/20 °C 55/45/20 °C	1421 695	1586 788	2370 1159	2576 1260
790 (11)	75/65/20 °C 55/45/20 °C	1563 764	1745 867	2608 1276	2835 1387
862 (12)	75/65/20 °C 55/45/20 °C	1706 834	1904 946	2845 1392	3093 1513

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.40	1.37	1.40	1.40
------------	------	------	------	------

All Narbonne convectors available on request.

Narbonne V VT - height 2000 mm

convectors

An example
of the convector

RADIATOR DESCRIPTION - AN EXAMPLE : **NARBONNE V VT 21 2000 430**

NARBONNE V VT 21



name _____
type _____
height _____
length _____



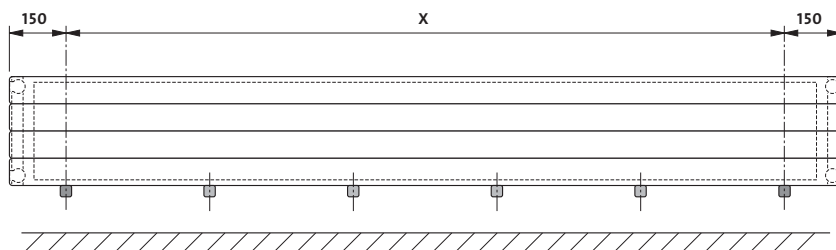
L length [mm]	parameters $t_z / t_p / t_i$	height 2000 mm			
		10	11	20	21
214 (3)	75/65/20 °C 55/45/20 °C	478 235	524 262	786 386	859 424
286 (4)	75/65/20 °C 55/45/20 °C	638 314	701 350	1050 516	1147 567
358 (5)	75/65/20 °C 55/45/20 °C	799 393	877 438	1315 646	1436 710
430 (6)	75/65/20 °C 55/45/20 °C	960 472	1054 526	1579 776	1725 852
502 (7)	75/65/20 °C 55/45/20 °C	1120 551	1230 614	1843 906	2014 995
574 (8)	75/65/20 °C 55/45/20 °C	1281 630	1406 702	2108 1036	2303 1138
646 (9)	75/65/20 °C 55/45/20 °C	1442 709	1583 790	2372 1166	2592 1281
718 (10)	75/65/20 °C 55/45/20 °C	1603 788	1759 878	2636 1296	2881 1424
790 (11)	75/65/20 °C 55/45/20 °C	1763 867	1936 966	2901 1426	3169 1566
862 (12)	75/65/20 °C 55/45/20 °C	1924 946	2112 1054	3165 1556	3458 1709

Convectors' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 55/45/20°C.

exponent n	1.39	1.36	1.39	1.38
------------	------	------	------	------

All Narbonne convectors available on request.

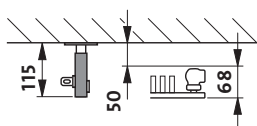
WK 10-13 wall brackets: positioning for Narbonne convectors



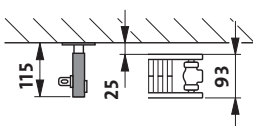
Note: When using more than two wall brackets, additional brackets should be evenly placed within the **X** segment

WK 10 brackets

NA 11

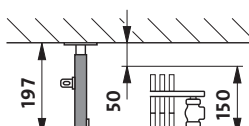


NA 22

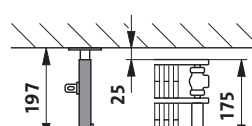


WK 11-M brackets

NA 23

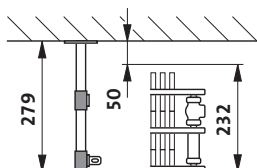


NA 34

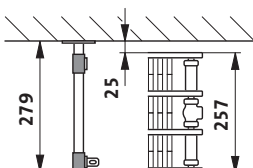


WK 12 brackets

NA 35

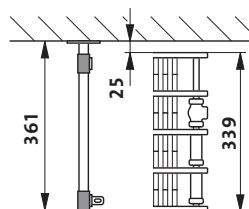


NA 46

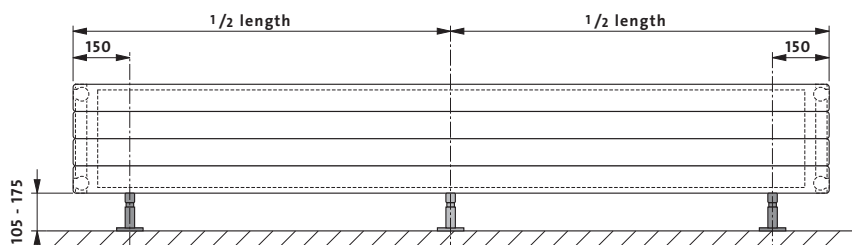


WK 13 brackets

NA 58



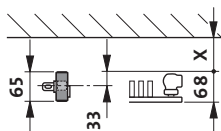
SK 10-18 stands: positioning for Narbonne convectors



Note: For length values exceeding 2200 mm, it is necessary to apply the additional **third** SK stand!

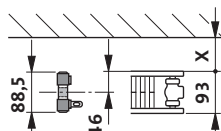
SK 10 / SK 11

NA 11

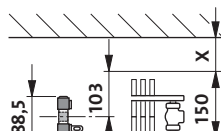


SK 12 / SK 13

NA 22

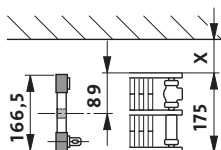


NA 23

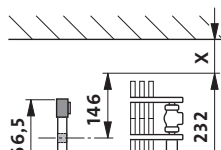


SK 14 / SK 15

NA 34

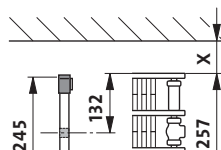


NA 35



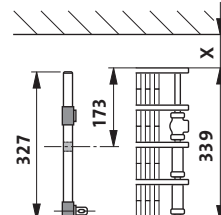
SK 16 / SK 17

NA 46



SK 18

NA 58



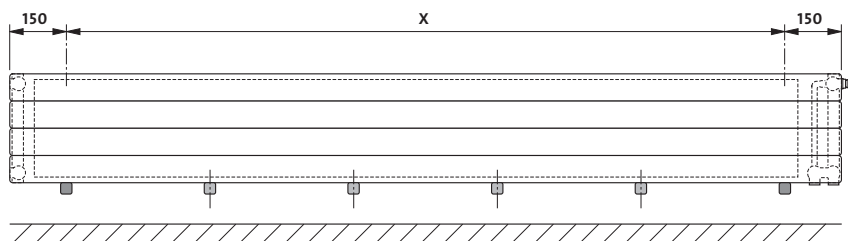
X dimension:

the required distance from the wall, or glass surface, as measured from the rear wall of the convector

Mounting distances for Narbonne VT

additional info

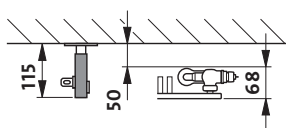
WK 10-12 wall brackets: positioning for Narbonne VT convectors



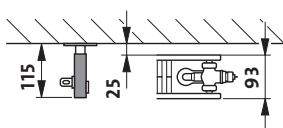
Note: When using more than **two** wall brackets, additional brackets should be evenly placed within the **X** segment.

WK 10 brackets

NA 11

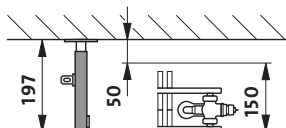


NA 22

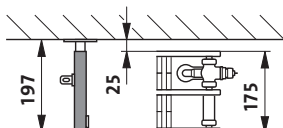


WK 11-M brackets

NA 23

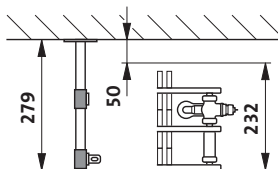


NA 34

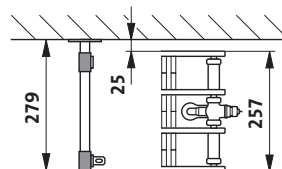


WK 12 brackets

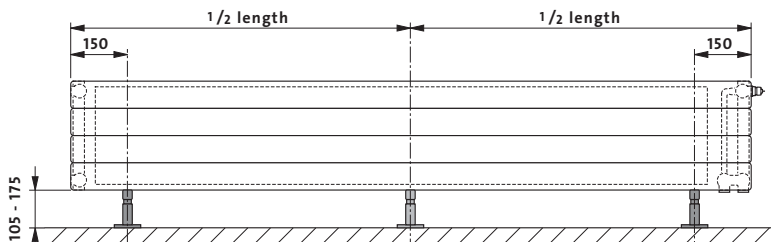
NA 35



NA 46



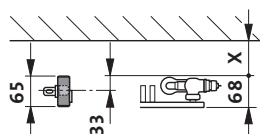
SK 10-17 stands: positioning for Narbonne VT convectors



Note: For length values exceeding **2200 mm**, it is necessary to apply the additional **third** SK stand!

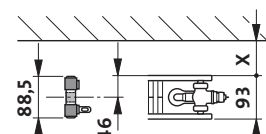
SK 10 / SK 11

NA 11

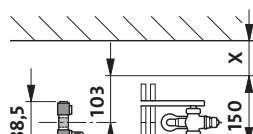


SK 12 / SK 13

NA 22

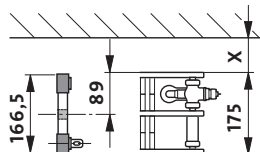


NA 23

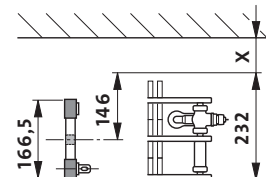


SK 14 / SK 15

NA 34

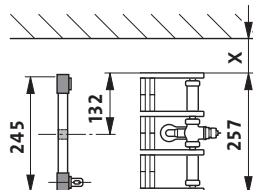


NA 35



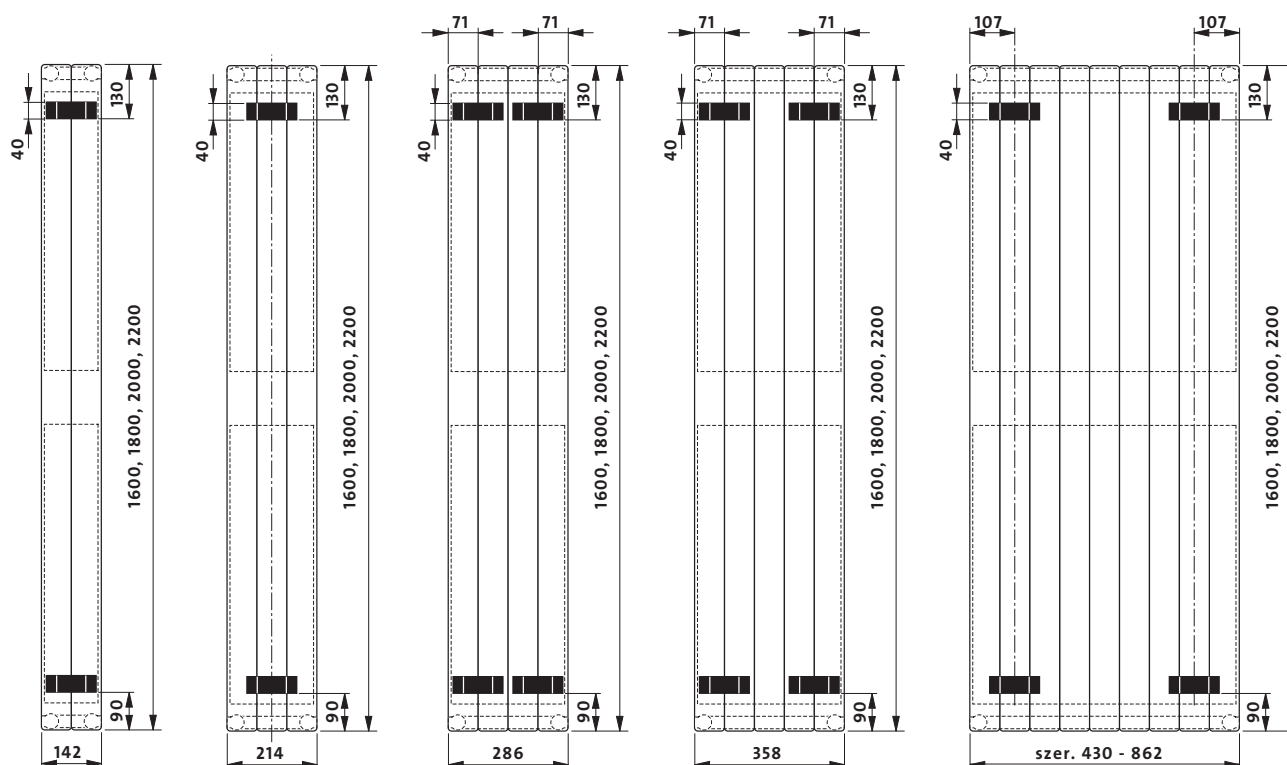
SK 16 / SK 17

NA 46



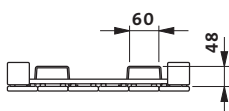
dimension x:
the required distance from the wall, or glass surface, as measured from the rear wall of the convector

rear view

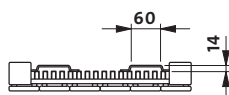


top view

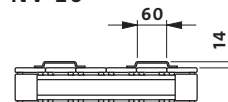
NV 10



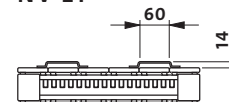
NV 11



NV 20



NV 21



Wall distancing: WA 10 and WA 11 wall brackets for Narbonne V convectors

	bracket type	convector's type	W dimension [mm]
	WA 10	NV 10/11*	35
	WA 10	NV 20/21	79.5
	WA 11	NV 10/11*	45
	WA 11	NV 20/21	89.5

***Tip:** when mounting NV 10 and NV 11 convectors with angle connection, it is necessary to apply the adequate wall plugs, optionally the wall brackets, in order to achieve the required wall distancing.

additional info

heating agent temperature [°C]		conversion coefficient for the convector's heat output selection at temperatures other than 75/65/20 °C							
		t _a air temperature in the heated room [°C]							
t _s	t _p	5	8	12	16	18	20	22	24
95	90	0.48	0.50	0.54	0.57	0.59	0.61	0.64	0.66
	85	0.50	0.52	0.56	0.60	0.62	0.64	0.67	0.70
	80	0.52	0.55	0.59	0.63	0.65	0.68	0.70	0.73
	75	0.54	0.57	0.61	0.66	0.69	0.72	0.75	0.78
	70	0.57	0.60	0.65	0.70	0.73	0.76	0.79	0.83
90	85	0.52	0.55	0.58	0.63	0.65	0.67	0.70	0.73
	80	0.54	0.57	0.61	0.66	0.68	0.71	0.74	0.77
	75	0.57	0.60	0.64	0.69	0.72	0.75	0.78	0.82
	70	0.59	0.63	0.67	0.73	0.76	0.80	0.83	0.87
	65	0.62	0.66	0.71	0.77	0.81	0.85	0.89	0.93
85	80	0.56	0.59	0.64	0.69	0.72	0.75	0.78	0.81
	75	0.59	0.62	0.67	0.72	0.75	0.79	0.82	0.86
	70	0.62	0.65	0.70	0.77	0.80	0.84	0.88	0.92
	65	0.65	0.69	0.75	0.81	0.85	0.89	0.94	0.99
	60	0.68	0.73	0.79	0.87	0.91	0.96	1.01	1.07
80	75	0.61	0.65	0.70	0.76	0.79	0.83	0.87	0.91
	70	0.64	0.68	0.74	0.81	0.84	0.88	0.93	0.97
	65	0.68	0.72	0.78	0.86	0.90	0.94	0.99	1.05
	60	0.72	0.76	0.83	0.91	0.96	1.01	1.07	1.13
	55	0.76	0.81	0.89	0.98	1.04	1.10	1.16	1.24
75	70	0.67	0.72	0.78	0.85	0.89	0.94	0.98	1.04
	65	0.71	0.75	0.82	0.90	0.95	1.00	1.05	1.12
	60	0.75	0.80	0.88	0.97	1.02	1.08	1.14	1.21
	55	0.80	0.85	0.94	1.04	1.10	1.17	1.24	1.32
	50	0.85	0.91	1.01	1.13	1.20	1.28	1.37	1.47
70	65	0.75	0.79	0.87	0.96	1.01	1.07	1.13	1.19
	60	0.79	0.84	0.93	1.03	1.08	1.15	1.22	1.30
	55	0.84	0.90	0.99	1.11	1.17	1.25	1.33	1.42
	50	0.89	0.96	1.07	1.20	1.28	1.37	1.47	1.58
65	60	0.83	0.89	0.98	1.10	1.16	1.23	1.31	1.40
	55	0.88	0.95	1.05	1.18	1.26	1.34	1.43	1.54
	50	0.94	1.02	1.14	1.29	1.37	1.47	1.59	1.71
60	55	0.94	1.01	1.13	1.27	1.36	1.45	1.56	1.68
	50	1.00	1.08	1.22	1.39	1.48	1.60	1.73	1.87
	45	1.08	1.17	1.33	1.53	1.65	1.78	1.94	2.13
55	50	1.07	1.16	1.31	1.50	1.62	1.75	1.90	2.07
	45	1.15	1.26	1.43	1.66	1.80	1.96	2.15	2.37
	40	1.25	1.37	1.59	1.86	2.03	2.24	2.48	2.78
50	45	1.23	1.36	1.56	1.82	1.98	2.17	2.40	2.67
	40	1.34	1.48	1.73	2.05	2.25	2.50	2.79	3.15
	35	1.47	1.65	1.94	2.36	2.63	2.96	3.38	3.92
45	40	1.45	1.62	1.90	2.28	2.53	2.83	3.19	3.66
	35	1.60	1.80	2.15	2.64	2.96	3.37	3.89	4.58
40	35	1.75	1.98	2.40	3.00	3.41	3.93	4.62	5.54
	30	1.96	2.25	2.79	3.61	4.21	5.01	6.14	7.87

The table has been prepared for n = 1.3

example:

The calculated room heat demand is 800 W. For the supply water the designed temperature is 55 °C, and for the return water it is 45°C. The designed air temperature in the room is 20 °C. For the values of parameters 55/45/20 °C, the correction factor value of 1.96 is red off.

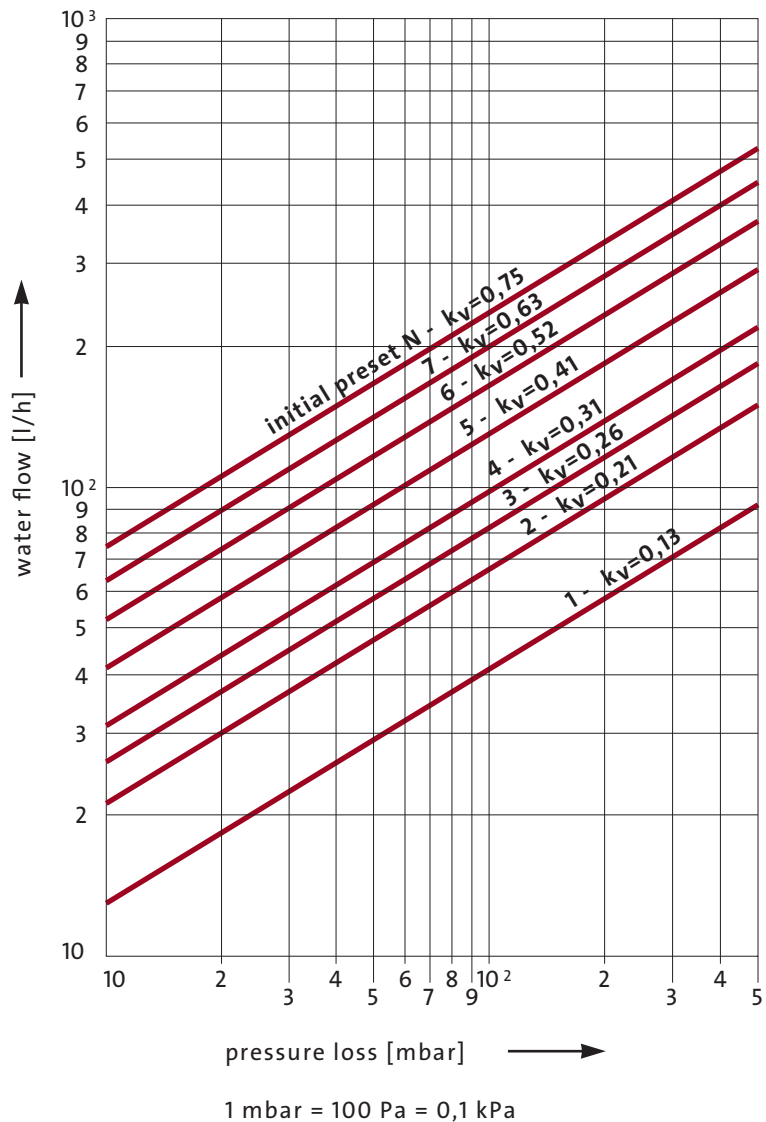
As a result of multiplying heat demand (800 W) by the correction factor (1.96), the value of heat output (800 W) by the correction factor (1.96), the value of heat output is found (1568 W). This value is used for selection of the radiator for the values of parameters 75/65/20 °C.

Pressure loss diagram for the convectors Narbonne VT and Narbonne V VT with Danfoss valve inserts

Initial preset value

Base:
 supply temperature **70 °C**
 return temperature **55 °C**
 room temperature **20 °C**

initial preset 1 for the convectors up to	$k_v = 0.13$ approx. 500 W
initial preset 2 for the convectors up to	$k_v = 0.21$ approx. 800 W
initial preset 3 for the convectors up to	$k_v = 0.26$ approx. 1000 W
initial preset 4 for the convectors up to	$k_v = 0.31$ approx. 1200 W
initial preset 5 for the convectors up to	$k_v = 0.41$ approx. 1600 W
initial preset 6 for the convectors up to	$k_v = 0.52$ approx. 2000 W
initial preset 7 for the convectors up to	$k_v = 0.63$ approx. 2400 W
initial preset N for the convectors from	$k_v = 0.75$ 2400 W

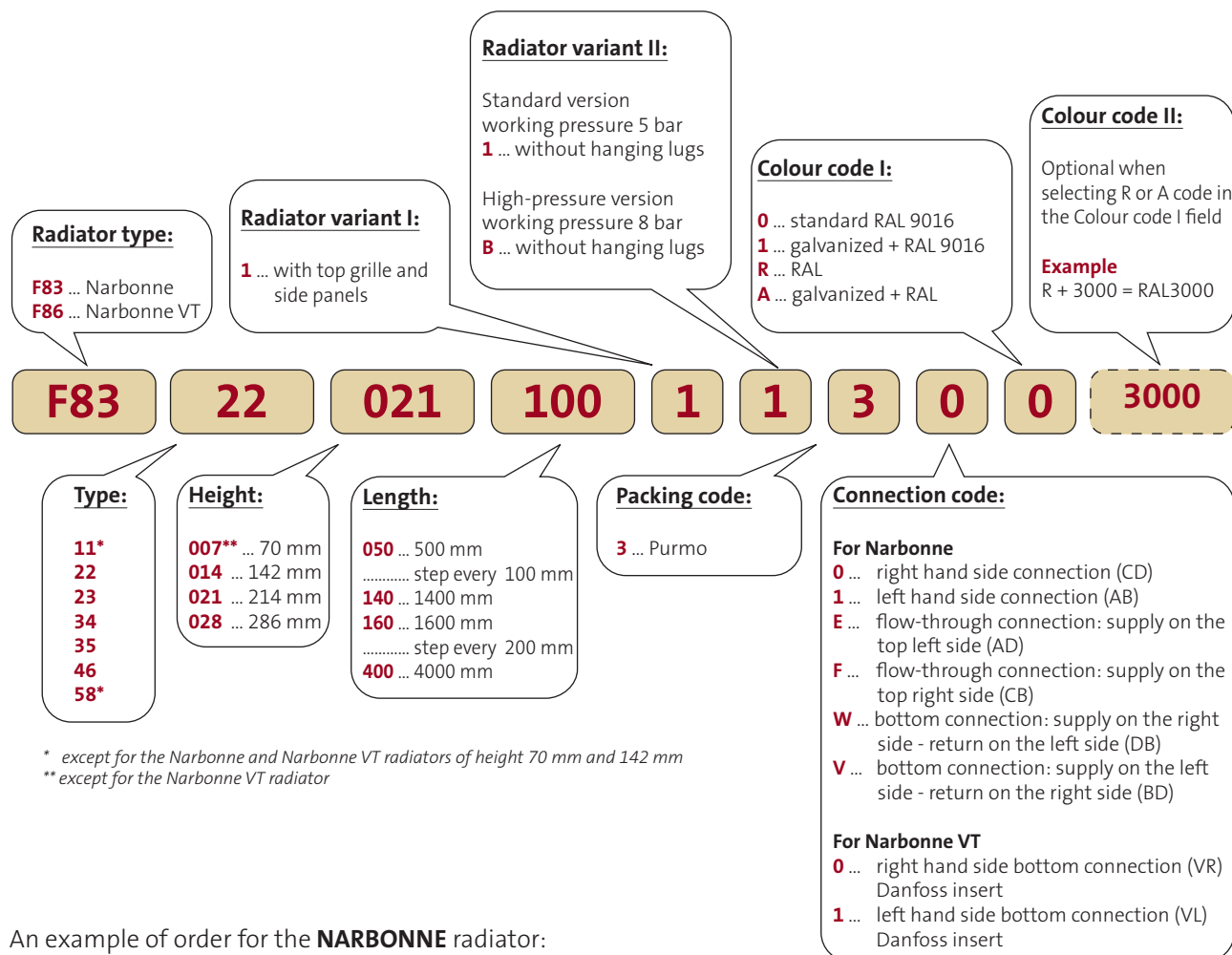


Pressure loss [mbar] – double-pipe system with proportional band 2K.

Corrections of the valve initial presets can also be entered in operating conditions (under working pressure).

When ordering the **NARBONNE** or **NARBONNE VT** radiator please use the following scheme describing its type, height, length, variant of execution, packing method, connection type and colour.

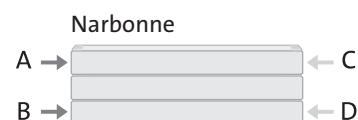
The WK type wall mounting brackets or the SK type floor stands for the **NARBONNE** and **NARBONNE VT** radiators must be ordered separately using the appropriate tables on the following pages and the order codes detailed in the chapter ACCESSORIES.



An example of order for the **NARBONNE** radiator:

- type: 22
- height: 142 mm
- length: 1000 mm
- connection: right hand side connection
- colour: RAL 9016

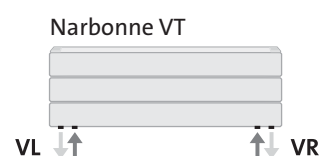
an example of order code - F832201410011300



An example of order for the **NARBONNE VT** radiator:

- type: 22
- height: 286 mm
- length: 1000 mm
- right hand side bottom connection
- colour: RAL 9016

an example of order code - F862202810011300

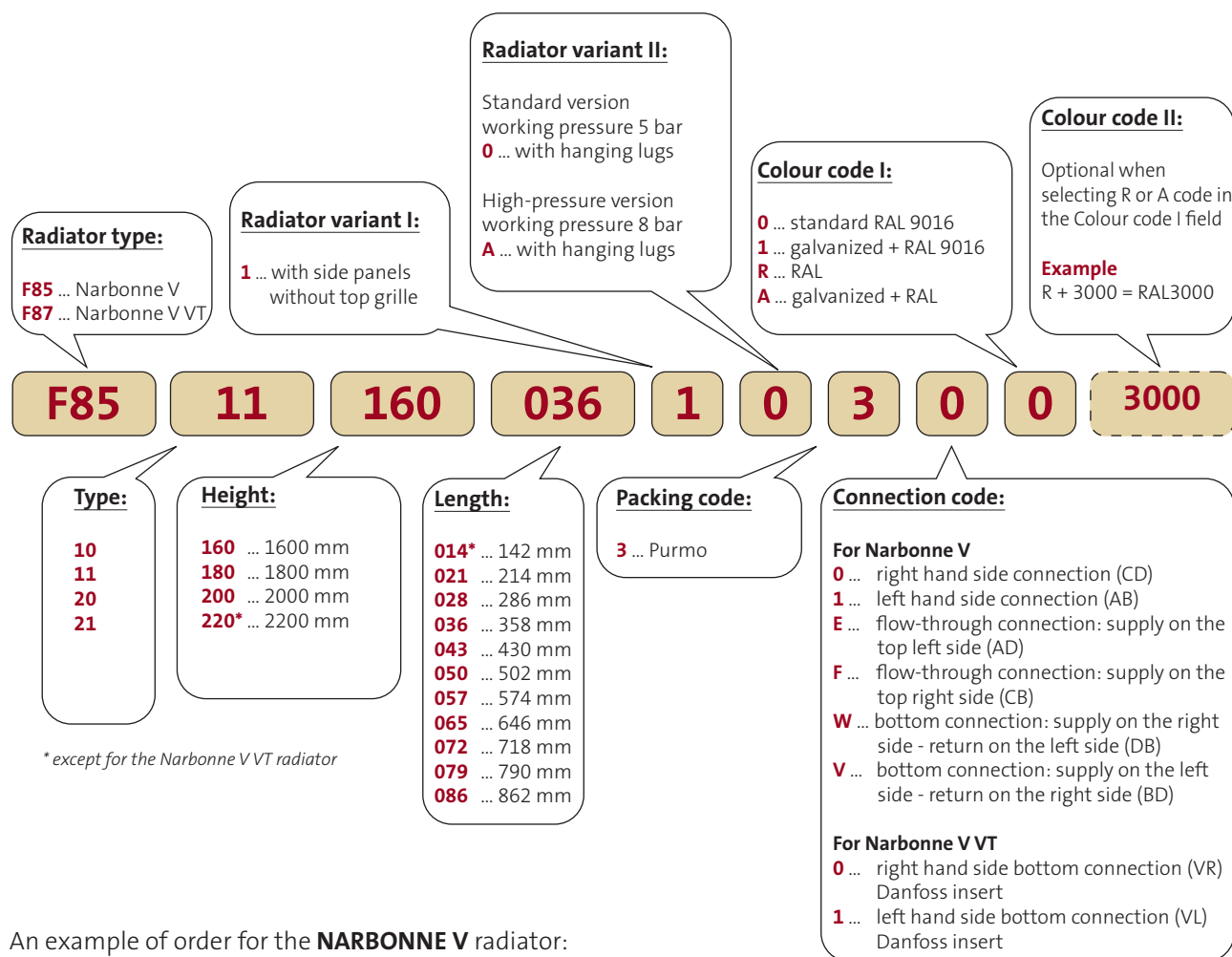


Order codes

additional info

When ordering the **NARBONNE V** or **NARBONNE V VT** radiator please use the following scheme describing its type, height, length, variant of execution, packing method, connection type and colour.

The WA 10 type or WA 11 type wall mounting brackets for the **NARBONNE V** and **NARBONNE V VT** radiators must be ordered separately using the appropriate order codes detailed in the chapter ACCESSORIES.



An example of order for the **NARBONNE V** radiator:

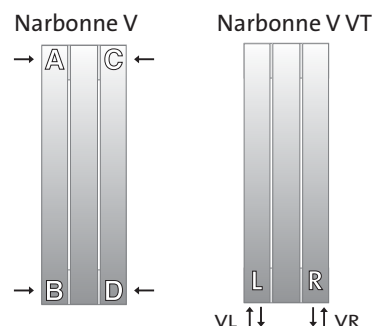
- type: 11
- height: 160 mm
- length: 358 mm
- connection: right hand side connection
- colour: RAL 9016

an example of order code - F851116003610300

An example of order for the **NARBONNE V VT** radiator:

- type: 11
- height: 160 mm
- length: 358 mm
- connection: right hand side connection
- colour: RAL 9016

an example of order code - F871116003610300

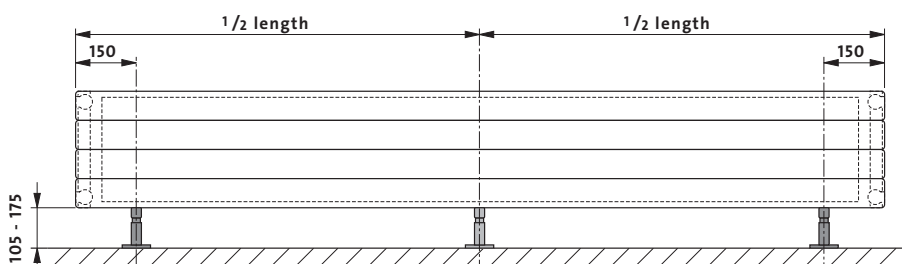


SK stands type and quantity selection table for the Narbonne convectors, of the height up to 286 mm (inclusive)

convector's type stand / convector's length [mm]	NA 11		NA 22	
	up to 2000	from 2200	up to 2000	from 2200
SK 10 for the finished floor	2	3		
SK 11 for the unfinished floor	2	3		
SK 12 for the finished floor			2	3
SK 13 for the unfinished floor			2	3

convector's type stand / convector's length [mm]	NA 23		NA 34		NA 35	
	up to 2000	from 2200	up to 2000	from 2200	up to 2000	from 2200
SK 12 for the finished floor	2	3				
SK 13 for the unfinished floor	2	3				
SK 14 for the finished floor			2	3	2	3
SK 15 for the unfinished floor			2	3	2	3

convector's type stand / convector's length [mm]	NA 46		NA 58	
	up to 2000	from 2200	up to 2000	from 2200
SK 16 for the finished floor	2	3		
SK 17 for the unfinished floor	2	3		
SK 18 for the finished floor			2	3



Note: For length values exceeding **2200 mm**, it is necessary to apply the additional **third** SK stand!

Selection tables for wall brackets

additional info

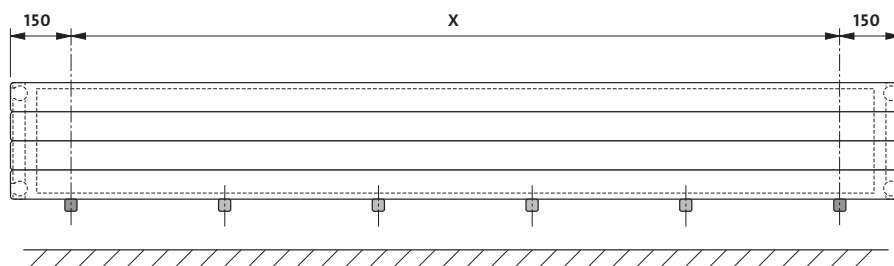
WK wall brackets type and quantity selection table for the Narbonne convectors, of the height up to 286 mm (inclusive)

convector's type wall bracket type length [mm]		NA 11		NA 22		NA 23		NA 34		NA 35	
		WK 10		WK 10		WK 11-M		WK 11-M		WK 12	
		500 up to 2000	2200 up to 4000	500 up to 2000	2200 up to 4000	500 up to 2000	2200 up to 4000	500 up to 2000	2200 up to 4000	500 up to 2000	2200 up to 4000
height [mm]	70			2	3	2	3	2	3	2	3
	142			2	3	2	3	2	3	2	3
	214	2	3	2	3	2	3	2	3	2	3
	286	2	3	2	3	2	3	2	3		

convector's type wall bracket type length [mm]		NA 35		NA 35		NA 46		NA 46		NA 46	
		WK 12		WK 12		WK 12		WK 12		WK 12	
		500 up to 1800	2000 up to 2600	2800 up to 3600	3800 up to 4000	500 up to 2000	2200 up to 3000	500 up to 1800	2000 up to 2800	3000	500 up to 1400
height [mm]	70					2	3				
	142					2	3				
	214							2	3	4	
	286	2	3	4	5					5	2

convector's type wall bracket type length [mm]		NA 46		NA 58		NA 58		NA 58		NA 58	
		WK 12		WK 13		WK 13		WK 13		WK 13	
		1600 up to 2200	2400 up to 2800	500 up to 2000	2200	500 up to 1600	1800 up to 2200	500 up to 1100	1200 up to 1600	1800 up to 2200	500 up to 800
height [mm]	70			2	3						
	142					2	3				
	214							2	3	4	
	286	3	4								2

convector's type wall bracket type length [mm]		NA 58		NA 58	
		WK 13		WK 13	
		900 up to 1300	1400 up to 1600	1800 up to 2000	2200
height [mm]	70				
	142				
	214				
	286	3	4	5	6

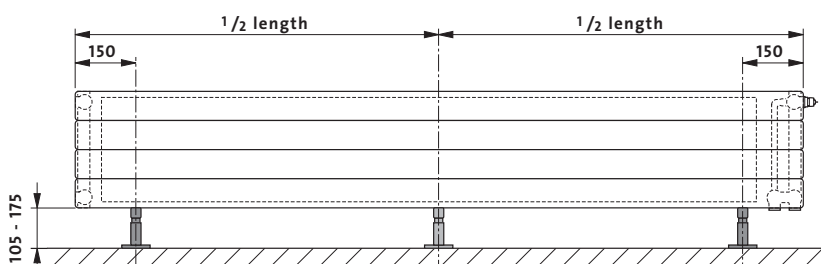


Note: When using more than two wall brackets, additional brackets should be evenly placed within the X segment

SK stands type and quantity selection table for the Narbonne VT convectors, of the height up to 286 mm (inclusive)

convector's type stand / convector's length [mm]	NA 11		NA 22		NA 23	
	up to 2000	from 2200	up to 2000	from 2200	up to 2000	from 2200
SK 10 for the finished floor	2	3				
SK 11 for the unfinished floor	2	3				
SK 12 for the finished floor			2	3	2	3
SK 13 for the unfinished floor			2	3	2	3

convector's type stand / convector's length [mm]	NA 34		NA 35		NA 46	
	up to 2000	from 2200	up to 2000	from 2200	up to 2000	from 2200
SK 14 for the finished floor	2	3	2	3		
SK 15 for the unfinished floor	2	3	2	3		
SK 16 for the finished floor					2	3
SK 17 for the unfinished floor					2	3



Note: For length values exceeding **2200 mm**, it is necessary to apply the additional **third** SK stand!

Selection tables for wall brackets

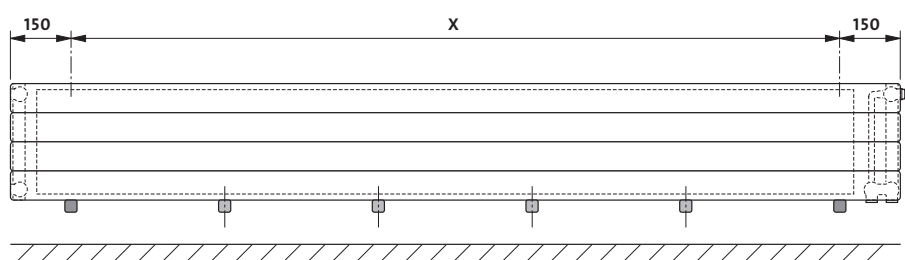
additional info

WK wall brackets type and quantity selection table for the Narbonne VT convectors, of the height up to 286 mm (inclusive)

convector's type wall bracket type length [mm]		NA 11		NA 22		NA 23		NA 34	
		WK 10		WK 10		WK 11-M		WK 10	
		500 up to 2000	2200 up to 4000	500 up to 2000	2200 up to 4000	500 up to 2000	2200 up to 4000	500 up to 2000	2200 up to 4000
height [mm]	142			2	3	2	3	2	3
	214	2	3	2	3	2	3	2	3
	286	2	3	2	3	2	3	2	3

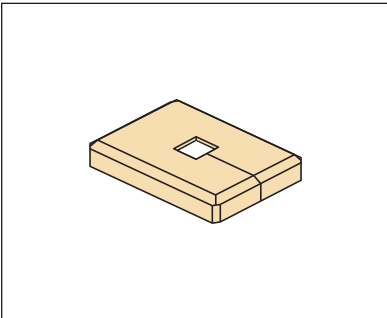
convector's type wall bracket type length [mm]		NA 35		NA 35		NA 35		NA 46	
		WK 10		WK 10		WK 11-M		WK 12	
		500 up to 2000	2200 up to 4000	500 up to 1800	2000 up to 2600	2800 up to 3600	3800 up to 4000	500 up to 2000	2200 up to 3000
height [mm]	142	2	3					2	3
	214	2	3						
	286			2	3	4	5		

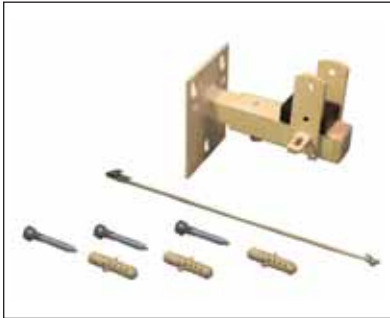
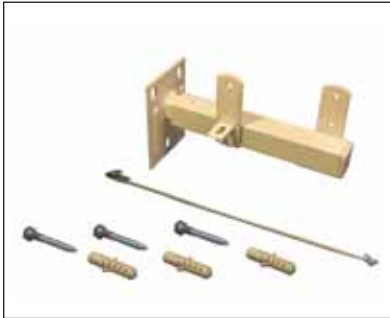
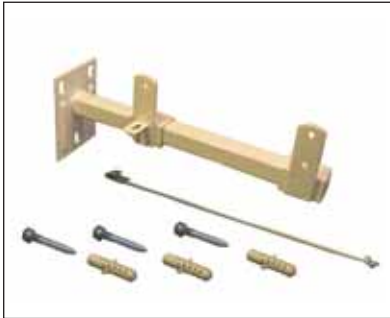
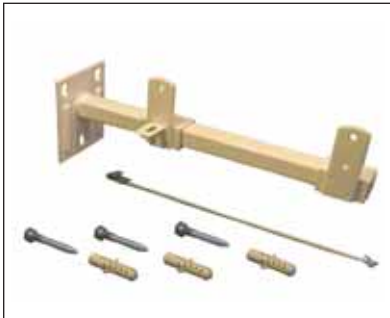
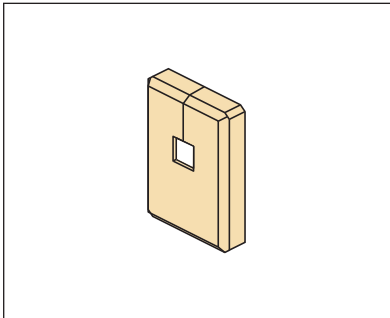
convector's type wall bracket type length [mm]		NA 46		NA 46		NA 46	
		WK 12		WK 12		WK 12	
		500 up to 1800	2000 up to 2800	3000	500 up to 1400	1600 up to 2200	2400 up to 2800
height [mm]	142						
	214	2	3	4			
	286			5	2	3	4



Note: When using more than two wall brackets, additional brackets should be evenly placed within the X segment.

	description	order code
	SK 10 stand (for the finished floor): Narbonne convector's type 11 Narbonne VT convector's type 11 includes: - bottom foot (80 mm) - 1 pc., - upper foot (175 mm) with sound-insulated convector contact area- 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000F1001000
	SK 11 stand (for the unfinished floor): Narbonne convector's type 11 Narbonne VT convector's type 11 includes: - bottom foot (175 mm) - 1 pc., - upper foot (200 mm) with sound-insulated convector contact area- 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000R1101000
	SK 12 stand (for the finished floor): Narbonne convector types 22, 23 Narbonne VT convector types 22, 23 includes: - bottom foot (80 mm) - 1 pc., - upper foot (175 mm) with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000F1201000
	SK 13 stand (for the unfinished floor): Narbonne convector types 22, 23 Narbonne VT convector types 22, 23 includes: - bottom foot (175 mm) - 1 pc., - upper foot (200 mm) with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000R1301000
	SK 14 stand (for the finished floor): Narbonne convector types 34, 35 Narbonne VT convector types 34, 35 includes: - bottom foot (80 mm) - 1 pc., - upper foot (175 mm) with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000F1401000

	description	order code
	SK 15 stand (for the unfinished floor): Narbonne convector types 34, 35 Narbonne VT convector types 34, 35 includes: - bottom foot (175 mm) - 1 pc., - upper foot (200 mm) with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000R1501000
	SK 16 stand (for the finished floor): Narbonne type: 46 Narbonne VT type: 46 includes: - bottom foot (80 mm) - 1 pc., - upper foot (175 mm) with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000F1601000
	SK 17 stand (for the unfinished floor): Narbonne type: 46 Narbonne VT type: 46 includes: - bottom foot (175 mm) - 1 pc., - upper foot (200 mm) with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000R1701000
	SK 18 stand (for the finished floor): Narbonne type: 58 includes: - bottom foot (80 mm) - 1 pc., - upper foot (175 mm) with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BS000F1801000
	stand cover: SK 10, SK 12, SK 14, SK 16, SK 18	AZ1MS000C1001000

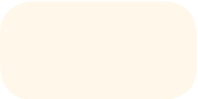
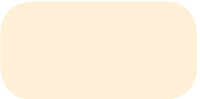
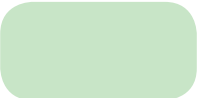
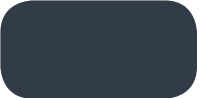
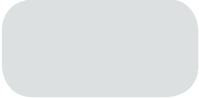
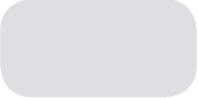
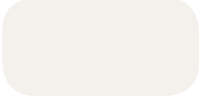
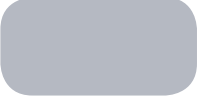
	description	order code
	WK 10 brackets: Narbonne convector's type 11, 22 Narbonne VT convector's type 11, 22 includes: - wall bracket - 1 pc., - detachable fixing bracket with sound-insulated convector contact are - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BW00011001000
	WK 11-M brackets: Narbonne convector types 23, 34 Narbonne VT convector types 23, 34 includes: - wall bracket - 1 pc., - detachable fixing bracket with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BW000111010A0
	WK 12 brackets: Narbonne convector types 35, 46 Narbonne VT convector types 35, 46 includes: - wall bracket - 1 pc., - detachable fixing bracket with sound-insulated convector contact are - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BW00011201000
	WK 13 brackets: Narbonne convector's type 58 includes: - wall bracket - 1 pc., - detachable fixing bracket with sound-insulated convector contact area - 1 pc., - grip protecting against accidental removal - 1 pc. Designed only for the convectors of up to 286 mm of height (inclusive).	AZ1BW00011301000
	wall bracket cover: WK 10, WK 11-M, WK 12, WK 13	AZ1MW00010001000

	description	order code
	wall bracket WA 10: Narbonne V convector types 10, 11, 20, 21 (for the widths 142 mm and 214 mm) Narbonne V VT convector types 10, 11, 20, 21 (for the widths 142 mm and 214 mm) includes: - wall bracket - 1 pc., - distancing grip - 1 pc., - screw - 1 pc., wall plug - 1 pc., - overall sound-insulated	AZ1BU00010001000
	wall bracket WA 11: Narbonne V convector types 10, 11, 20, 21 (for the width from 286 mm inclusive) Narbonne V VT convector types 10, 11, 20, 21 (for the width from 286 mm inclusive) includes: - wall bracket - 2 pc., - distancing grip - 2 pc., - screws and wall plugs, - overall sound-insulated	AZ1BU00011002000

Narbonne and Narbonne VT convectors types 11 and 22, of heights from 358 mm up to 790 mm, are available at request, and only in versions with dedicated wall brackets. Other Narbonne and Narbonne VT types are not available in heights exceeding 286 mm.

additional info

Basic colours

				
RAL 1003	RAL 1004	RAL 1013	RAL 1015	RAL 2002
				
RAL 3002	RAL 3003	RAL 3015	RAL 4005	RAL 4007
				
RAL 5000	RAL 5001	RAL 5002	RAL 5003	RAL 5011
				
RAL 5013	RAL 5014	RAL 5015	RAL 5017	RAL 5018
				
RAL 5020	RAL 5021	RAL 5022	RAL 5023	RAL 6000
				
RAL 6005	RAL 6016	RAL 6019	RAL 6027	RAL 6029
				
RAL 7001	RAL 7013	RAL 7015	RAL 7016	RAL 7030
				
RAL 7035	RAL 7036	RAL 7047	RAL 8003	RAL 8017
				
RAL 9001	RAL 9002	RAL 9005	RAL 9006*	RAL 9007*
				
RAL 9010	RAL 9016			

Colour samples presented above are for general information purpose only.

NOTE!!! The same colour shades can differ visually on the convectors of different types.

**1 metallic colours*

Additional colours

additional info

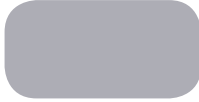
				
RAL 1000	RAL 1001	RAL 1002	RAL 1005	RAL 1006
				
RAL 1007	RAL 1011	RAL 1012	RAL 1014	RAL 1016
				
RAL 1017	RAL 1018	RAL 1019	RAL 1020	RAL 1021
				
RAL 1023	RAL 1024	RAL 1027	RAL 1028	RAL 1032
				
RAL 1033	RAL 1034	RAL 2000	RAL 2001	RAL 2003
				
RAL 2004	RAL 2008	RAL 2009	RAL 2010	RAL 2011
				
RAL 2012	RAL 3000	RAL 3001	RAL 3004	RAL 3005
				
RAL 3007	RAL 3009	RAL 3011	RAL 3012	RAL 3013
				
RAL 3014	RAL 3016	RAL 3017	RAL 3018	RAL 3020
				
RAL 3022	RAL 3027	RAL 3031	RAL 4001	RAL 4002

Colour samples presented above are for general information purpose only.

NOTE!!! The same color shades can differ visually on the convectors of different types.

additional info

Additional colours

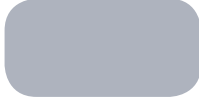
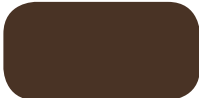
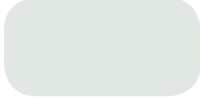
				
RAL 4003	RAL 4004	RAL 4006	RAL 4008	RAL 4009
				
RAL 4010	RAL 5004	RAL 5005	RAL 5007	RAL 5008
				
RAL 5009	RAL 5010	RAL 5012	RAL 5019	RAL 5024
				
RAL 6001	RAL 6002	RAL 6003	RAL 6004	RAL 6006
				
RAL 6007	RAL 6008	RAL 6009	RAL 6010	RAL 6011
				
RAL 6012	RAL 6013	RAL 6014	RAL 6015	RAL 6017
				
RAL 6018	RAL 6020	RAL 6021	RAL 6022	RAL 6024
				
RAL 6025	RAL 6026	RAL 6028	RAL 6032	RAL 6033
				
RAL 6034	RAL 7000	RAL 7002	RAL 7003	RAL 7004
				
RAL 7005	RAL 7006	RAL 7008	RAL 7009	RAL 7010

Colour samples presented above are for general information purpose only.

NOTE!!! The same colour shades can differ visually on the convectors of different types.

Additional colours

additional info

				
RAL 7011	RAL 7012	RAL 7021	RAL 7022	RAL 7023
				
RAL 7024	RAL 7026	RAL 7031	RAL 7032	RAL 7033
				
RAL 7034	RAL 7037	RAL 7038	RAL 7039	RAL 7040
				
RAL 7042	RAL 7043	RAL 7044	RAL 7045	RAL 7046
				
RAL 8000	RAL 8001	RAL 8002	RAL 8004	RAL 8007
				
RAL 8008	RAL 8011	RAL 8012	RAL 8014	RAL 8015
				
RAL 8016	RAL 8019	RAL 8022	RAL 8023	RAL 8024
				
RAL 8025	RAL 8028	RAL 9003	RAL 9004	RAL 9011
				
RAL 9017	RAL 9018			

Colour samples presented above are for general information purpose only.

NOTE!!! The same colour shades can differ visually on the convectors of different types.

notes

notes

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WWW.PURMO.PL

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