



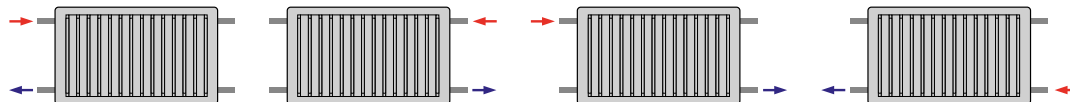
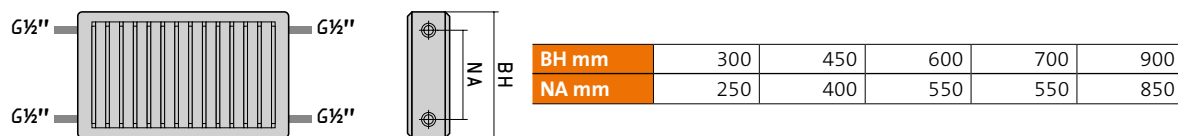
COMPACT

The Compact 4-connector profile radiator is fitted with 4 x ½" BSP connections at the side. The vertical profile is 33 mm and this in combination with the convection fins gives high performance, even in the low temperature range.

- Accessories included in the packaging and the price : brackets, 1 airvent, 1 blank cap.
- Connections : 4 x ½" BSP, ISO 228, at the side.
- Installation : ≤1600 mm : 2 fixing brackets
>1600 mm : 3 fixing brackets
- Vertical profile : 33 mm.
- Colours : prices are based on white RAL 9016. Other RAL and special colours are available upon request with a 25% supplement (excludes 700mm height). See p. 131/158 for more details and colour options.
- Accessories : see p. 152.

CONNECTION OPTIONS

dimensions in mm



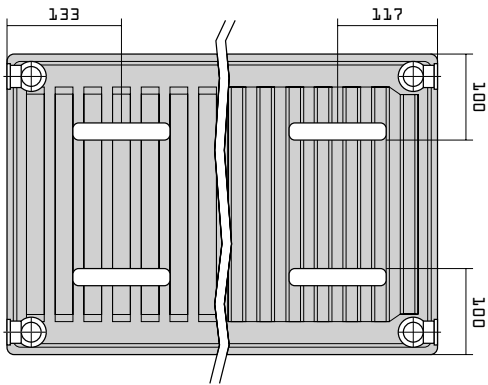
COMPACT

INSTALLATION

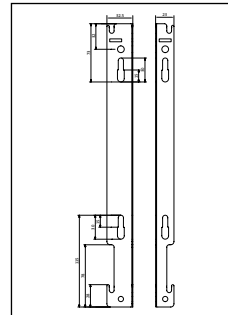
dimensions in mm

types 21S, 22, 33

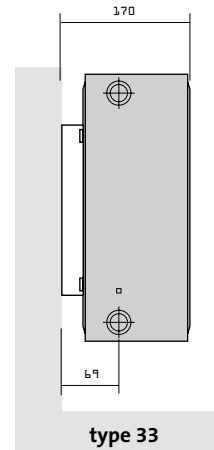
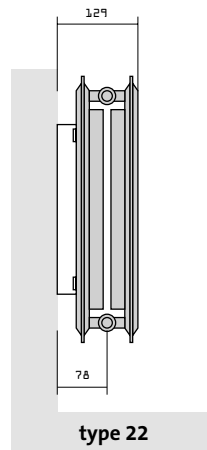
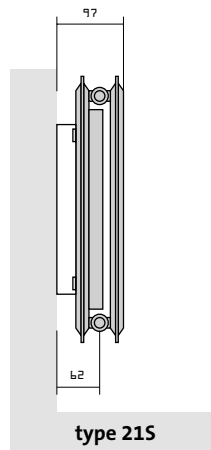
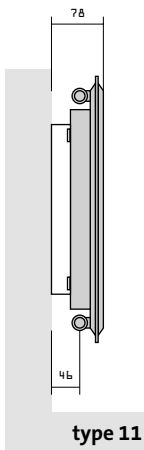
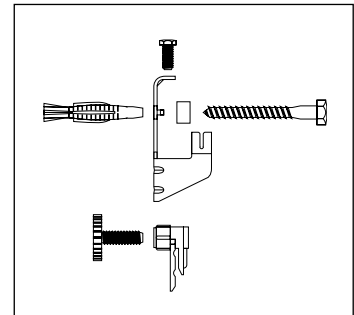
type 11



bracket



bracket height 900 mm - all types



water content : l/m

type	300	450	600	700	900
11	1.50	2.50	3.40	3.70	4.50
21S		5.00	6.50		9.00
22	3.40	5.00	6.60	7.40	8.60
33	5.10	7.50	9.80		13.30

weight : kg/m

type	300	450	600	700	900
11	9.00	13.90	19.50	21.90	29.00
21S		21.20	28.30		42.30
22	16.30	24.90	33.40	39.20	50.70
33	24.50	37.40	50.20		75.80

COMPACT

type 11



ORDER CODE : C11XXXXYYY
EXAMPLE : C116001200

radiator _____
type _____
height _____
length _____



length		height				
		300	450	600	700	900
400	75/65/20 Watt	218	316	407	464	571
	75/65/20 BTU	745	1078	1389	1583	1949
	55/45/20 Watt	113	162	208	237	291
	55/45/20 BTU	384	554	711	810	994
	£	110.75	73.06	94.53	109.12	181.17
500	75/65/20 Watt	273	395	509	581	713
	75/65/20 BTU	932	1348	1737	1982	2434
	55/45/20 Watt	141	203	260	297	364
	55/45/20 BTU	480	692	889	1013	1243
	£	138.55	91.36	118.14	136.42	203.87
600	75/65/20 Watt	328	474	611	697	856
	75/65/20 BTU	1119	1617	2085	2378	2922
	55/45/20 Watt	169	243	313	356	437
	55/45/20 BTU	576	831	1067	1216	1491
	£	166.36	109.61	141.73	163.65	226.93
700	75/65/20 Watt	382	553	713	813	999
	75/65/20 BTU	1304	1887	2433	2774	3411
	55/45/20 Watt	197	284	365	416	510
	55/45/20 BTU	672	969	1245	1418	1740
	£	173.12	127.94	165.36	190.95	250.39
800	75/65/20 Watt	437	632	814	929	1142
	75/65/20 BTU	1491	2156	2777	3170	3899
	55/45/20 Watt	225	325	417	475	583
	55/45/20 BTU	768	1108	1422	1621	1988
	£	175.58	146.21	188.91	218.22	274.12
900	75/65/20 Watt	491	711	916	1045	1284
	75/65/20 BTU	1677	2426	3125	3566	4384
	55/45/20 Watt	253	365	469	534	655
	55/45/20 BTU	864	1246	1600	1823	2237
	£	180.46	164.47	212.53	260.42	301.70
1000	75/65/20 Watt	546	790	1018	1161	1427
	75/65/20 BTU	1863	2695	3473	3961	4872
	55/45/20 Watt	281	406	521	594	728
	55/45/20 BTU	960	1385	1778	2026	2485
	£	184.44	182.75	236.16	289.37	325.92
1100	75/65/20 Watt	601	869	1120	1277	1570
	75/65/20 BTU	2050	2965	3821	4357	5360
	55/45/20 Watt	309	446	573	653	801
	55/45/20 BTU	1056	1523	1956	2228	2734
	£	202.86	201.03	259.76	318.24	353.68
1200	75/65/20 Watt	655	948	1222	1393	1712
	75/65/20 BTU	2236	3235	4169	4753	5845
	55/45/20 Watt	338	487	625	712	874
	55/45/20 BTU	1152	1661	2134	2431	2982
	£	221.31	219.29	283.37	347.22	380.69

according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item

COMPACT

type 11



ORDER CODE : C11XXXXYYY
EXAMPLE : C116001200

radiator _____
type _____
height _____
length _____



length		height				
		300	450	600	700	900
1300	75/65/20 Watt	710	1027	1304	1509	
	75/65/20 BTU	2423	3504	4449	5149	
	55/45/20 Watt	366	527	677	772	
	55/45/20 BTU	1248	1800	2311	2634	
	£	239.77	245.86	306.99	376.14	
1400	75/65/20 Watt	764	1106	1425	1625	1998
	75/65/20 BTU	2609	3774	4862	5545	6821
	55/45/20 Watt	394	568	729	831	1019
	55/45/20 BTU	1344	1938	2489	2836	3479
	£	258.20	264.74	330.62	454.70	436.41
1600	75/65/20 Watt	874	1264	1629	1858	2283
	75/65/20 BTU	2982	4313	5558	6339	7794
	55/45/20 Watt	450	649	834	950	1165
	55/45/20 BTU	1536	2215	2845	3241	3977
	£	298.00	350.35	437.00	519.62	511.29
1800	75/65/20 Watt	983	1422	1832	2090	2569
	75/65/20 BTU	3354	4852	6251	7131	8771
	55/45/20 Watt	506	730	938	1068	1311
	55/45/20 BTU	1728	2492	3200	3647	4474
	£	331.98	394.12	491.25	584.58	575.87
2000	75/65/20 Watt	1092	1580	2036	2322	2854
	75/65/20 BTU	3726	5391	6947	7923	9744
	55/45/20 Watt	563	811	1042	1187	1456
	55/45/20 BTU	1920	2769	3556	4052	4971
	£	351.72	453.90	587.00	649.54	626.33
2300	75/65/20 Watt	1256	1817	2342	2670	
	75/65/20 BTU	4286	6200	7991	9114	
	55/45/20 Watt	647	933	1198	1365	
	55/45/20 BTU	2208	3184	4089	4660	
	£	424.18	521.95	675.08	746.99	
2600	75/65/20 Watt	1420	2054	2647	3019	
	75/65/20 BTU	4845	7010	9034	10302	
	55/45/20 Watt	731	1055	1354	1543	
	55/45/20 BTU	2496	3600	4623	5267	
	£	479.51	590.00	763.15	844.44	
3000	75/65/20 Watt	1638	2370	3054	3483	
	75/65/20 BTU	5590	8089	10423	11887	
	55/45/20 Watt	844	1217	1563	1781	
	55/45/20 BTU	2881	4154	5334	6078	
	£	553.29	680.72	880.61	974.36	

value n	1.2981	1.3048	1.3115	1.3133	1.3170
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according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item

COMPACT

type 21S



ORDER CODE : C21XXXXYYY

EXAMPLE : C216001200

radiator _____
type _____
height _____
length _____



length		height				
		300	450	600	700	900
400	75/65/20 Watt		424	536		744
	75/65/20 BTU		1447	1829		2540
	55/45/20 Watt		218	273		376
	55/45/20 BTU		745	931		1282
	£		116.35	142.00		247.88
500	75/65/20 Watt		530	670		930
	75/65/20 BTU		1808	2286		3175
	55/45/20 Watt		273	341		470
	55/45/20 BTU		931	1164		1602
	£		140.23	177.56		284.05
600	75/65/20 Watt		636	804		1117
	75/65/20 BTU		2170	2743		3813
	55/45/20 Watt		327	409		563
	55/45/20 BTU		1117	1397		1923
	£		161.80	197.03		324.74
700	75/65/20 Watt		742	938		1303
	75/65/20 BTU		2532	3200		4448
	55/45/20 Watt		382	478		657
	55/45/20 BTU		1303	1630		2243
	£		181.48	229.67		363.22
800	75/65/20 Watt		843	1072		1489
	75/65/20 BTU		2876	3658		5083
	55/45/20 Watt		436	546		751
	55/45/20 BTU		1489	1863		2564
	£		207.32	262.59		401.22
900	75/65/20 Watt		954	1206		1675
	75/65/20 BTU		3255	4115		5718
	55/45/20 Watt		491	614		845
	55/45/20 BTU		1675	2096		2884
	£		233.32	295.43		442.67
1000	75/65/20 Watt		1060	1340		1861
	75/65/20 BTU		3617	4572		6353
	55/45/20 Watt		545	682		939
	55/45/20 BTU		1861	2329		3205
	£		259.35	328.29		484.67
1100	75/65/20 Watt		1166	1474		2047
	75/65/20 BTU		3978	5029		6988
	55/45/20 Watt		600	751		1033
	55/45/20 BTU		2048	2562		3525
	£		285.14	360.97		523.82
1200	75/65/20 Watt		1272	1608		2233
	75/65/20 BTU		4340	5486		7623
	55/45/20 Watt		654	819		1127
	55/45/20 BTU		2234	2794		3846
	£		311.16	393.84		566.89

according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item

COMPACT

type 21S



ORDER CODE : C21XXXXYYY

EXAMPLE : C216001200

radiator _____
type _____
height _____
length _____



length		height				
		300	450	600	700	900
1300	75/65/20 Watt		1378	1742		
	75/65/20 BTU		4702	5944		
	55/45/20 Watt		709	887		
	55/45/20 BTU		2420	3027		
	£		336.96	426.71		
1400	75/65/20 Watt		1484	1876		2605
	75/65/20 BTU		5063	6401		8893
	55/45/20 Watt		764	955		1315
	55/45/20 BTU		2606	3260		4487
	£		362.99	459.58		654.49
1600	75/65/20 Watt		1696	2144		2978
	75/65/20 BTU		5787	7315		10167
	55/45/20 Watt		873	1092		1502
	55/45/20 BTU		2978	3726		5128
	£		448.68	567.99		798.02
1800	75/65/20 Watt		1908	2412		3350
	75/65/20 BTU		6510	8230		11437
	55/45/20 Watt		982	1228		1690
	55/45/20 BTU		3351	4192		5769
	£		504.75	639.08		891.97
2000	75/65/20 Watt		2120	2680		3722
	75/65/20 BTU		7233	9144		12707
	55/45/20 Watt		1091	1365		1878
	55/45/20 BTU		3723	4657		6410
	£		560.76	726.95		972.20
2300	75/65/20 Watt		2544	3082		
	75/65/20 BTU		8680	10516		
	55/45/20 Watt		1254	1569		
	55/45/20 BTU		4281	5356		
	£		644.98	816.62		
2600	75/65/20 Watt		2756	3484		
	75/65/20 BTU		9406	11891		
	55/45/20 Watt		1418	1774		
	55/45/20 BTU		4840	6055		
	£		729.19	906.31		
3000	75/65/20 Watt		3180	4020		
	75/65/20 BTU		10853	13720		
	55/45/20 Watt		1636	2047		
	55/45/20 BTU		5548	6986		
	£		841.49	1025.88		
value n			1.3008	1.3213		1.3390

according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item

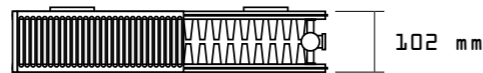
COMPACT

type 22

ORDER CODE : C22XXXXYYY

EXAMPLE : C226001200

radiator _____
type _____
height _____
length _____



length	height					
	300	450	600	700	900	
400	75/65/20 Watt	384	539	684	777	955
	75/65/20 BTU	1312	1839	2334	2651	3260
	55/45/20 Watt	197	274	346	391	478
	55/45/20 BTU	672	936	1179	1335	1631
	£	144.88	129.89	161.76	185.99	263.29
500	75/65/20 Watt	481	674	855	971	1194
	75/65/20 BTU	1640	2300	2917	3313	4076
	55/45/20 Watt	246	343	432	489	597
	55/45/20 BTU	840	1170	1474	1669	2038
	£	181.13	162.33	202.29	232.51	304.00
600	75/65/20 Watt	577	808	1025	1165	1433
	75/65/20 BTU	1969	2757	3497	3975	4892
	55/45/20 Watt	295	411	518	587	717
	55/45/20 BTU	1008	1404	1769	2003	2446
	£	248.36	194.79	242.74	278.99	349.32
700	75/65/20 Watt	673	943	1196	1359	1672
	75/65/20 BTU	2296	3218	4081	4637	5708
	55/45/20 Watt	345	480	605	685	836
	55/45/20 BTU	1176	1638	2064	2337	2854
	£	253.56	227.30	283.16	334.52	392.61
800	75/65/20 Watt	769	1078	1367	1554	1910
	75/65/20 BTU	2624	3678	4664	5302	6521
	55/45/20 Watt	394	548	691	783	956
	55/45/20 BTU	1344	1871	2358	2671	3261
	£	289.78	259.70	323.62	382.31	434.19
900	75/65/20 Watt	865	1212	1538	1748	2149
	75/65/20 BTU	2952	4135	5248	5964	7337
	55/45/20 Watt	443	617	777	880	1075
	55/45/20 BTU	1512	2105	2653	3005	3669
	£	326.01	292.20	364.05	447.84	478.83
1000	75/65/20 Watt	961	1347	1709	1942	2388
	75/65/20 BTU	3279	4596	5831	6626	8153
	55/45/20 Watt	492	685	864	978	1194
	55/45/20 BTU	1680	2339	2948	3338	4077
	£	362.22	324.69	404.52	497.64	524.60
1100	75/65/20 Watt	1057	1482	1880	2136	2627
	75/65/20 BTU	3608	5057	6415	7288	8969
	55/45/20 Watt	542	754	950	1076	1314
	55/45/20 BTU	1848	2573	3243	3672	4485
	£	398.44	357.08	444.93	547.38	567.62
1200	75/65/20 Watt	1153	1616	2051	2330	2866
	75/65/20 BTU	3936	5514	6998	7950	9785
	55/45/20 Watt	591	822	1037	1174	1433
	55/45/20 BTU	2016	2807	3538	4006	4892
	£	434.67	397.80	485.39	597.15	613.79

according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item

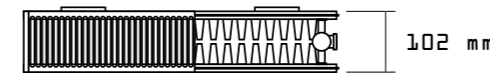
COMPACT

type 22

ORDER CODE : C22XXXXYYY

EXAMPLE : C226001200

radiator _____
type _____
height _____
length _____



length	height					
	300	450	600	700	900	
1300	75/65/20 Watt	1249	1750	2222	2524	
	75/65/20 BTU	4264	5971	7581	8612	
	55/45/20 Watt	640	891	1123	1272	
	55/45/20 BTU	2184	3041	3832	4340	
	£	470.90	430.96	525.83	646.96	
1400	75/65/20 Watt	1345	1886	2393	2719	3343
	75/65/20 BTU	4592	6435	8166	9277	11413
	55/45/20 Watt	689	960	1209	1369	1672
	55/45/20 BTU	2352	3275	4127	4674	5708
	£	507.10	464.09	566.28	815.52	708.92
1600	75/65/20 Watt	1538	2155	2734	3107	3821
	75/65/20 BTU	5248	7353	9328	10601	13045
	55/45/20 Watt	788	1097	1382	1565	1911
	55/45/20 BTU	2688	3743	4717	5341	6523
	£	565.80	590.56	748.40	929.61	859.71
1800	75/65/20 Watt	1730	2425	3076	3498	4298
	75/65/20 BTU	5904	8274	10495	11935	14673
	55/45/20 Watt	886	1234	1555	1761	2150
	55/45/20 BTU	3024	4211	5306	6009	7338
	£	652.00	688.97	841.89	1052.27	959.48
2000	75/65/20 Watt	1922	2694	3418	3884	4776
	75/65/20 BTU	6558	9192	11662	13256	16305
	55/45/20 Watt	985	1371	1728	1956	2389
	55/45/20 BTU	3360	4679	5896	6677	8154
	£	705.40	765.54	1004.76	1167.40	1047.13
2300	75/65/20 Watt	2210	3097	3931	4467	
	75/65/20 BTU	7544	10567	13413	15245	
	55/45/20 Watt	1132	1576	1987	2250	
	55/45/20 BTU	3865	5380	6780	7678	
	£	833.11	880.40	1155.43	1345.74	
2600	75/65/20 Watt	2499	3505	4443	5049	
	75/65/20 BTU	8528	11962	15165	17233	
	55/45/20 Watt	1280	1782	2246	2543	
	55/45/20 BTU	4369	6082	7665	8680	
	£	941.78	995.26	1306.09	1524.08	
3000	75/65/20 Watt	2883	4044	5127	5826	
	75/65/20 BTU	9840	13802	17498	19884	
	55/45/20 Watt	1477	2056	2591	2934	
	55/45/20 BTU	5041	7018	8844	10015	
	£	1086.66	1148.40	1506.98	1884.01	

value n	1.3094	1.3226	1.3358	1.3426	1.3561
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according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item

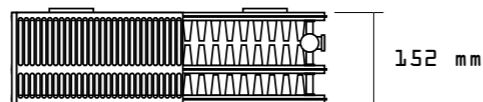
COMPACT

type 33

ORDER CODE : C33XXXXYYY

EXAMPLE : C336001200

radiator _____
type _____
height _____
length _____



length	height				
	300	450	600	700	900
400	75/65/20 Watt	539	680	942	1304
	75/65/20 BTU	1839	2319	3216	4451
	55/45/20 Watt	275	345	437	651
	55/45/20 BTU	940	1178	1615	2222
	£	241.55	284.56	339.18	507.12
500	75/65/20 Watt	674	850	1178	1630
	75/65/20 BTU	2299	2899	4021	5563
	55/45/20 Watt	344	432	592	814
	55/45/20 BTU	1175	1473	2019	2777
	£	269.73	322.20	388.67	588.26
600	75/65/20 Watt	808	1019	1414	1956
	75/65/20 BTU	2758	3479	4825	6676
	55/45/20 Watt	413	518	710	976
	55/45/20 BTU	1410	1768	2423	3333
	£	298.55	360.53	441.82	671.21
700	75/65/20 Watt	943	1189	1649	2282
	75/65/20 BTU	3218	4059	5629	7788
	55/45/20 Watt	482	604	828	1139
	55/45/20 BTU	1645	2062	2826	3888
	£	326.20	398.17	494.62	751.67
800	75/65/20 Watt	1078	1359	1885	2608
	75/65/20 BTU	3678	4639	6433	8901
	55/45/20 Watt	551	691	946	1302
	55/45/20 BTU	1880	2357	3230	4444
	£	355.01	436.48	547.77	834.97
900	75/65/20 Watt	1212	1529	2120	2934
	75/65/20 BTU	4138	5219	7237	10014
	55/45/20 Watt	620	777	1065	1465
	55/45/20 BTU	2115	2652	3634	4999
	£	384.17	476.13	602.75	918.29
1000	75/65/20 Watt	1347	1699	2356	3260
	75/65/20 BTU	4597	5799	8041	11126
	55/45/20 Watt	688	863	1183	1627
	55/45/20 BTU	2350	2946	4038	5554
	£	417.82	518.44	657.72	1005.91
1100	75/65/20 Watt				
	75/65/20 BTU				
	55/45/20 Watt				
	55/45/20 BTU				
	£				
1200	75/65/20 Watt	1616	2039	2827	3912
	75/65/20 BTU	5517	6958	9649	13352
	55/45/20 Watt	826	1036	1420	1953
	55/45/20 BTU	2820	3535	4845	6665
	£	477.64	600.73	766.01	1174.50

according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item

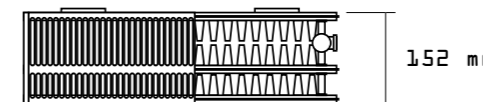
COMPACT

type 33

ORDER CODE : C33XXXXYYY

EXAMPLE : C336001200

radiator _____
type _____
height _____
length _____



length	height				
	300	450	600	700	900
1300	75/65/20 Watt				
	75/65/20 BTU				
	55/45/20 Watt				
	55/45/20 BTU				
	£				
1400	75/65/20 Watt	1886	2379	3298	4564
	75/65/20 BTU	6436	8118	11257	15577
	55/45/20 Watt	964	1209	1656	2278
	55/45/20 BTU	3289	4125	5653	7776
	£	536.95	681.39	876.45	1346.10
1600	75/65/20 Watt	2155	2718	3770	5216
	75/65/20 BTU	7356	9278	12866	17802
	55/45/20 Watt	1101	1381	1893	2604
	55/45/20 BTU	3759	4714	6460	8887
	£	600.92	767.35	988.42	1522.19
1800	75/65/20 Watt	2425	3058	4241	5868
	75/65/20 BTU	8275	10438	14474	20027
	55/45/20 Watt	1239	1554	2129	2929
	55/45/20 BTU	4229	5303	7268	9998
	£	668.88	858.15	1105.87	1705.43
2000	75/65/20 Watt	2694	3398	4712	6520
	75/65/20 BTU	9195	11597	16082	22253
	55/45/20 Watt	1377	1726	2366	3255
	55/45/20 BTU	4699	5892	8075	11109
	£	733.86	940.75	1216.99	1881.38
2300	75/65/20 Watt	3098	3908	5419	
	75/65/20 BTU	10574	13337	18494	
	55/45/20 Watt	1583	1985	2721	
	55/45/20 BTU	5404	6776	9287	
	£	831.15	1070.87	1399.40	
2600	75/65/20 Watt	3502	4417	6126	
	75/65/20 BTU	11953	15077	20907	
	55/45/20 Watt	1790	2244	3076	
	55/45/20 BTU	6109	7660	10498	
	£	927.94	1201.66	1702.11	
3000	75/65/20 Watt	4041	5097	7068	
	75/65/20 BTU	13792	17396	24123	
	55/45/20 Watt	2065	2590	3549	
	55/45/20 BTU	7049	8839	12113	
	£	1065.37	1377.07	1770.56	
value n	1.3140	1.3255	1.3486	1.3600	

according EN 442 - 75/65/20 °C (ΔT 50) and 55/45/20 °C (ΔT 30)

stocked item



Compact



Compact Ventil



Plan Compact



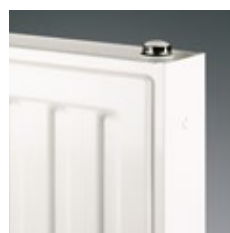
Plan Compact Ventil



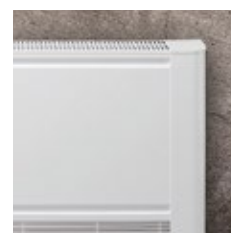
Plan Compact
Ventil M



Ramo Ventil



Vertical



Safety Radiator

CHARACTERISTICS

- All Purmo panel radiators are produced with a cold rolled, high quality steel plate 125mm thick according to EN 10130.
- Certain models have vertical profiles of 33 mm or 50 mm. Other models are provided with a flat front.
- Testing pressure 13 bar. Ramo Ventil + Vertical : 8 bar.
- Working pressure 10 bar. Ramo Ventil + Vertical : 6 bar.
- Working temperature max. 110 °C.

COLOURS

Our standard colour is white RAL 9016. Other RAL and special colours are available upon request with a 25% supplement. See p. 131/158 for more details and colour options.

HEAT OUTPUT

Heat outputs were measured according to the EN 442 standard, with a water temperature of 75/65 °C and a room temperature of 20 °C (delta $\Delta T=50$).



PACKAGING

The radiators are protected with cardboard, including corner edge protections. The radiators are shrink-wrapped. The radiator can remain inside the packaging until installation is complete, to prevent any damage. The entire packaging is recyclable.

	Compact	Compact Ventil	Plan Compact	Plan Compact Ventil	Plan Compact Ventil M	Ramo Ventil	Vertical	Safety Radiator
profiled front - 33 mm	✓	✓	x	x	x	x	x	x
profiled front - 50 mm	x	x	x	x	x	x	✓	x
flat front	x	x	✓	✓	✓	✓	x	✓
testing pressure - bar	13	13	13	13	13	8	8	10
working pressure - bar	10	10	10	10	10	6	6	8
side covers	✓	✓	✓	✓	✓	✓	✓	✓
top grill	✓	✓	✓	✓	✓	✓	x	✓
welded on assembly points								
type 10	✓	✓	✓	✓	✓	✓	✓	-
type 11	✓	✓	✓	✓	✓	✓	-	✓
type 21S	✓	x	✓	x	x	✓	-	-
type 22	✓	x	✓	x	x	✓	-	✓
type 33	✓	x	✓	x	x	✓	-	-
number of connections	4	6	4	6	6	6	6	4
supply and return pipes visible	✓	x	✓	x	x	x	✓	✓
thermostatic valve body included	x	✓	x	✓	✓	✓	x	x
including attachment kit	✓	✓	✓	✓	✓	✓	✓	x
assembly packaging	✓	✓	✓	✓	✓	✓	x	✓
bore template	x	x	x	x	x	x	✓	x

✓ = yes; x = no

PRODUCTION & COATING PROCESS

Panel radiators are produced on fully automated, ultra-modern lines. They may be inspected at any time during the production process. The water tightness of each radiator is individually tested at the end of the production line.

Radiators are coated in a modern facility specially designed to protect the environment.

PRE-TREATMENT

Pre-treatment of radiators consists of degreasing and phosphating. In combination with the base coat, the phosphate layer provides excellent rust protection. After pre-treatment, the radiators are rinsed with deionised water.

COATING

This process consists of 2 main stages. First, the radiators are immersed in a 2nd generation KTL bath to cover them with a layer of anti-rust base by means of cataphoresis. They are then dried in hot air at a temperature of around 175 °C. The final coat is then applied. This powder coat of epoxy-polyester is applied to the radiators by electrophoresis. The powder coating is then heated at a temperature of almost 185 °C. Outstandingly hard and stable, the finishing coat is resistant to scratches, moisture and acids and complies with the DIN 55900 and EN 442 standards.

tested heat output Φ ,

According to EN 442:

$t_1 = 75^\circ\text{C}$, $t_2 = 65^\circ\text{C}$, $t_r = 20^\circ\text{C}$
Temperature difference $\Delta T = 50\text{K}$

For other ΔT 's use the following correction factor:

$$U_f = \left(\frac{\Delta T}{50}\right)^n$$

where n shown in table below.

Symbols used;

Φ = Greek letter pronounced fi

W = Watts (1W = 0.86kcal/h)

$^\circ\text{C}$ = Degrees Celsius

K = Degrees Kelvin

Definition	Symbol	Unit
Heat Output	Φ	W
Flow Temperature	t_1	$^\circ\text{C}$
Return Temperature	t_2	$^\circ\text{C}$
Temperature Drop	$t_1 - t_2$	K
Ambient Air Temperature	t_r	$^\circ\text{C}$
Temperature Difference	ΔT	K
$\frac{t_1 + t_2}{2} - t_r$		

temperature difference for other ΔT 's

For flow temperatures t_1 from 85°C to 40°C and return temperatures t_2 from 70°C to 35°C .

Please refer to specific radiator page for the correct n value.

temperature difference ΔT

Flow Temperature (t_1 , $^\circ\text{C}$)	Ambient Air Temperature (t_r , $^\circ\text{C}$)	Return Temperature (t_2 , $^\circ\text{C}$)							
		70	65	60	55	50	45	40	35
85	15	63	60	58	55	53	50	48	45
	18	60	57	55	52	50	47	45	42
	20	58	55	53	50	48	45	43	40
	22	56	53	51	48	46	43	41	38
80	24	54	51	49	46	44	41	39	36
	15	60	58	55	53	50	48	45	43
	18	57	55	52	50	47	45	42	40
	20	55	53	50	48	45	43	40	38
75	22	53	51	48	46	43	41	38	36
	24	51	49	46	44	41	39	36	34
	15	58	55	53	50	48	45	43	40
	18	55	52	50	47	45	42	40	37
70	20	53	50	48	45	43	40	38	35
	22	51	48	46	43	41	38	36	33
	24	49	46	44	41	39	36	34	31
	15	-	53	50	48	45	43	40	38
65	18	-	50	47	45	42	40	37	35
	20	-	48	45	43	40	38	35	33
	22	-	46	43	41	38	36	33	31
	24	-	44	41	39	36	34	31	29
60	15	-	-	48	45	43	40	38	35
	18	-	-	45	42	40	37	35	32
	20	-	-	43	40	38	35	33	30
	22	-	-	41	38	36	33	31	28
55	24	-	-	39	36	34	31	29	26
	15	-	-	-	43	40	38	35	33
	18	-	-	-	40	37	35	32	30
	20	-	-	-	38	35	33	30	28
50	22	-	-	-	36	33	31	28	26
	24	-	-	-	34	31	29	26	24
	15	-	-	-	-	38	35	33	30
	18	-	-	-	-	35	32	30	27
45	20	-	-	-	-	33	30	28	25
	22	-	-	-	-	31	28	26	23
	24	-	-	-	-	29	26	24	21
	15	-	-	-	-	-	33	30	28
40	18	-	-	-	-	-	30	27	25
	20	-	-	-	-	-	28	25	23
	22	-	-	-	-	-	26	23	21
	24	-	-	-	-	-	24	21	19
35	15	-	-	-	-	-	-	28	25
	18	-	-	-	-	-	-	25	22
	20	-	-	-	-	-	-	23	20
	22	-	-	-	-	-	-	21	18
30	24	-	-	-	-	-	-	19	16
	15	-	-	-	-	-	-	-	23
	18	-	-	-	-	-	-	-	20
	20	-	-	-	-	-	-	-	18
25	22	-	-	-	-	-	-	-	16
	24	-	-	-	-	-	-	-	14



Colour options

Our standard colour is white RAL 9016.

Any RAL or special colour is available on request*. To order simply add RAL or special colour code to the end of the order code eg. **AP06500830/3003** for a radiator in RAL 3003. Please note, there is a 25% supplement for non-standard colours.

*Some exclusions apply. Please see individual product pages for more details.

RAL colours

Purmo offers the choice of any RAL colour.



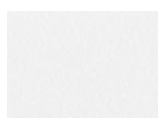
Special colours

Purmo also offers the following textured, metallic and shimmer metallic colours.

Textured



black textured
SO141



white textured
SO142

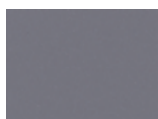
Metallic



cream
SO145



light grey
SO143



brown grey
SO144



anodic natural
SO149



anodic bronze
SO146



anodic brown
SO147



anodic black
SO148

Shimmer metallic



metal alu
SO201



metal black
SO104



metal grey
SO102

Cancellation policy for non-stocked items

All our non-stocked and special colour items are made to order. Should an order be cancelled after it has been placed with the factory an administration fee of 30% of the product value may be applied.