

AEL Flat Fronted Steel Panel Radiator Range

Available in 9 heights, 7 depths and 16 lengths, vertical or horizontal and finished in a choice of 22 factory colours or any *RAL colour for larger projects.



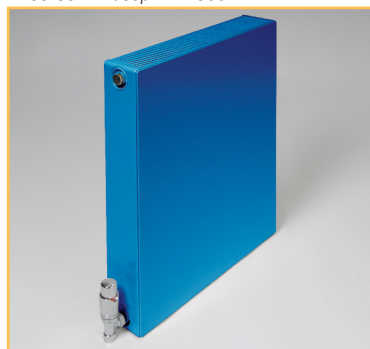
HF49 49mm deep - RAL9016



HF65 65mm deep - RAL3001



HF68 68mm deep - (Code22 Manhattan)



HF102 102mm deep - RAL5015

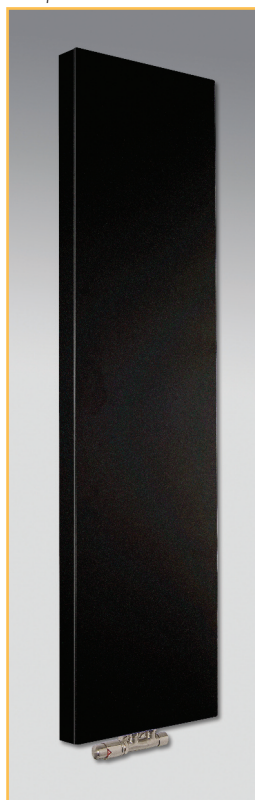


HF157 157mm deep - RAL9005

Efficient, cost effective, strong, reliable steel radiators, Suitable for up to 10 bar pressure and 110°C as standard.



VF53 53mm deep - RAL9016



VF68 68mm deep - RAL9005

Available in every RAL colour

AEL Flat Fronted Range

Flat Fronted

AEL high quality flat fronted steel panel radiators

AEL flat fronted steel panel radiators are manufactured under ISO 9001 quality procedures and outputs are tested and verified to EN442 standards providing you with a selection of the most reliable steel panel radiators available in the UK. The AEL flat fronted radiator range comes in two styles, the Horizontal Flatrad (**HF**) and the Vertical Flatrad (**VF**), each style is available in a choice of 24 factory colours (see back page) or any RAL colour for larger projects.

Vertical Flatrad Technical Data:

All AEL **VF** radiators:

- Operate at any pressure up to 10 bar.
- Operate at any water temperature up to 110°C
- Provide the flow and return at the bottom middle of the radiator with an option to have the flow or return on the left or right side to suit your pipework. The **VF** radiators are suitable for pressurised heating systems.

Radiator Type VF53 (53mm Depth)					
Length	Height mm	1600	1800	2000	2300
400mm	Output W	602	661	717	797
600		829	909	986	1097
900		1141	1251	1358	-

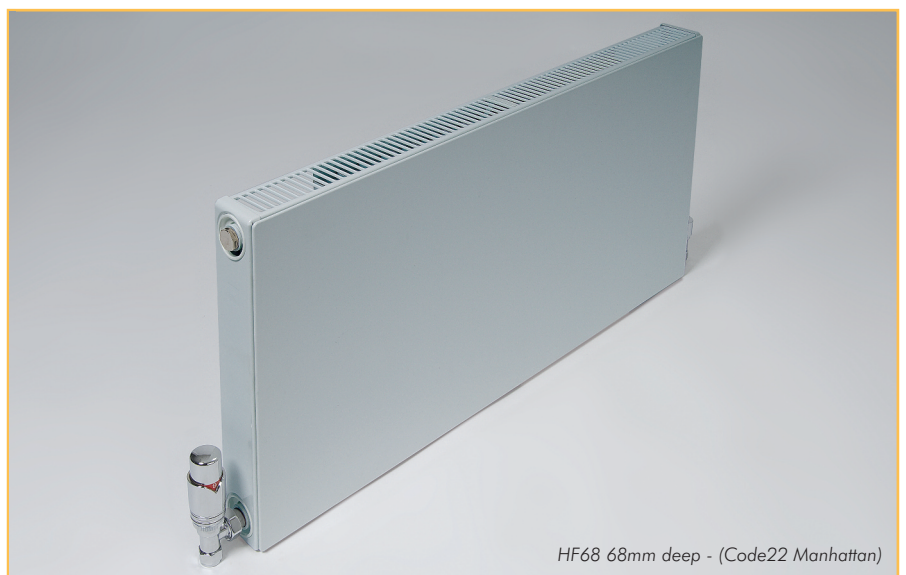
Radiator Type VF68 (68mm Depth)					
Length	Height mm	1600	1800	2000	2300
400mm	Output W	847	927	1004	1114
600		1185	1297	1404	1559
900		1659	1814	1965	-



TA 23 BN 15 Brushed Nickel



The White TA8W15 thermostatic valve set, see our comprehensive valve range catalogue.



HF68 68mm deep - (Code22 Manhattan)

VF53 53mm deep
- RAL9016

Steel panel radiators available in every *RAL colour

Horizontal Flatrad Technical Data:

All AEL **HF** radiators:

- Operate at any pressure up to 10 bar.
- Operate at any water temperature up to 110°C
- Provide the option to have the flow and return on either the left or right side (e.g. top bottom opposite ends, top bottom same end or bottom opposite ends as standard).

Radiator Type HF49 (49mm Depth)						
Length	Height mm	300	400	500	600	900
400mm	Output W	132	169	206	242	552
500mm		165	212	257	302	438
600mm		198	254	308	362	525
700mm		231	296	360	423	613
800mm		264	338	411	483	700
900mm		297	381	463	544	788
1000mm		330	423	514	604	875
1100mm		363	465	565	664	963
1200mm		396	508	617	725	1050
1400mm		462	592	720	846	1225
1600mm		528	677	822	966	1400
1800mm		594	761	925	1087	1575
2000mm		660	846	1028	1208	1750

Radiator Type HF65 (65mm Depth)						
Length	Height mm	300	400	500	600	900
400mm	Output W	220	283	343	401	558
500mm		275	354	429	501	679
600mm		329	425	515	601	836
700mm		384	496	601	701	976
800mm		439	566	686	802	1115
900mm		494	637	772	902	1255
1000mm		549	708	858	1002	1394
1100mm		604	779	944	1102	1533
1200mm		659	850	1030	1202	1673
1400mm		769	991	1201	1403	1952
1600mm		878	1133	1373	1603	2230
1800mm		988	1274	1544	1804	2509
2000mm		1098	1416	1716	2004	2788
2300mm		1263	1628	1973	2305	3206
2600mm		1427	1841	2231	2605	3624
3000mm		1647	2124	2574	3006	4182



HF65 65mm deep
- RAL3001

Radiator Type HF68 (68mm Depth)						
Length	Height mm	300	400	500	600	900
400mm	Output W	298	375	447	515	702
500mm		373	469	599	644	877
600mm		447	562	670	773	1052
700mm		522	656	782	902	1228
800mm		596	750	894	1030	1403
900mm		671	843	1005	1159	1597
1000mm		745	937	1117	1288	1754
1100mm		820	1031	1229	1417	1929
1200mm		894	1124	1340	1546	2105
1400mm		1043	1312	1564	1803	2456
1600mm		1192	1499	1787	2061	2806
1800mm		1341	1687	2011	2318	3157
2000mm		1490	1874	2234	2576	3508
2300mm		1714	2155	2569	2962	4034
2600mm		1937	2436	2904	3349	4560
3000mm		2235	2811	3351	3864	5262

Radiator Type HF102 (102mm Depth)						
Length	Height mm	300	400	500	600	900
400mm	Output W	386	486	581	672	925
500mm		483	608	726	840	1157
600mm		580	730	871	1007	1388
700mm		676	851	1016	1175	1619
800mm		773	973	1162	1343	1850
900mm		869	1094	1307	1511	2082
1000mm		966	1216	1452	1679	2313
1100mm		1063	1338	1597	1847	2544
1200mm		1159	1459	1742	2015	2776
1400mm		1352	1702	2033	2351	3238
1600mm		1546	1946	2323	2686	3701
1800mm		1739	2189	2614	3022	4163
2000mm		1932	2432	2904	3358	4626
2300mm		2222	2797	3340	3862	5320
2600mm		2512	3162	3775	4365	6014
3000mm		2898	3648	4356	5037	6939

Radiator Type HF157 (157mm Depth)						
Length	Height mm	300	400	500	600	900
400mm	Output W	552	695	832	962	1331
500mm		690	869	1040	1203	1664
600mm		827	1043	1247	1444	1997
700mm		965	1217	1455	1684	2330
800mm		1103	1390	1663	1925	2662
900mm		1241	1564	1871	2165	2995
1000mm		1379	1738	2079	2406	3328
1100mm		1517	1912	2287	2647	3661
1200mm		1655	2086	2495	2887	3994
1400mm		1931	2433	2911	3368	4659
1600mm		2206	2781	3326	3850	5325
1800mm		2482	3128	3742	4331	5990
2000mm		2758	3476	4158	4812	6656
2300mm		3172	3997	4782	5534	7654
2600mm		3585	4519	5405	6256	8653
3000mm		4137	5214	6237	7218	9984

Output correction factors

- Example: **A** Water flow in 80°C and out 60°C
B Average water temperature is 70°C
C Desired room temperature 20°C
D 70°C MINUS 20°C = dt 50°C

If you have a dt other than 50°C multiply the output W on the charts to get the new output of your flatrad

- dt of 46°C = .897
- dt of 48°C = .948
- dt of 50°C = 1.000
- dt of 52°C = 1.052
- dt of 54°C = 1.105
- dt of 56°C = 1.158
- dt of 58°C = 1.213
- dt of 60°C = 1.267



HF49 49mm deep - RAL9016

High Quality Surface Finish of AEL Flat Fronted Steel Panel Radiators

The AEL **HF** and **VF** steel panel radiator range has the finest quality surface finish found on a steel panel radiator in the UK. Not only does the ISO9001 inspected three stage process guarantee a high quality finish but it also includes an anti corrosion procedure that provides resistance against long term corrosion.

1. Preparation of the steel surface - includes degreasing, phosphating and rinsing.
2. Applying the first layer of paint by our KTL method which increases the anticorrosion and adhesive properties. This is then allowed to cool slowly in a drying pen for a long period to further increase the anticorrosion and adhesive properties.

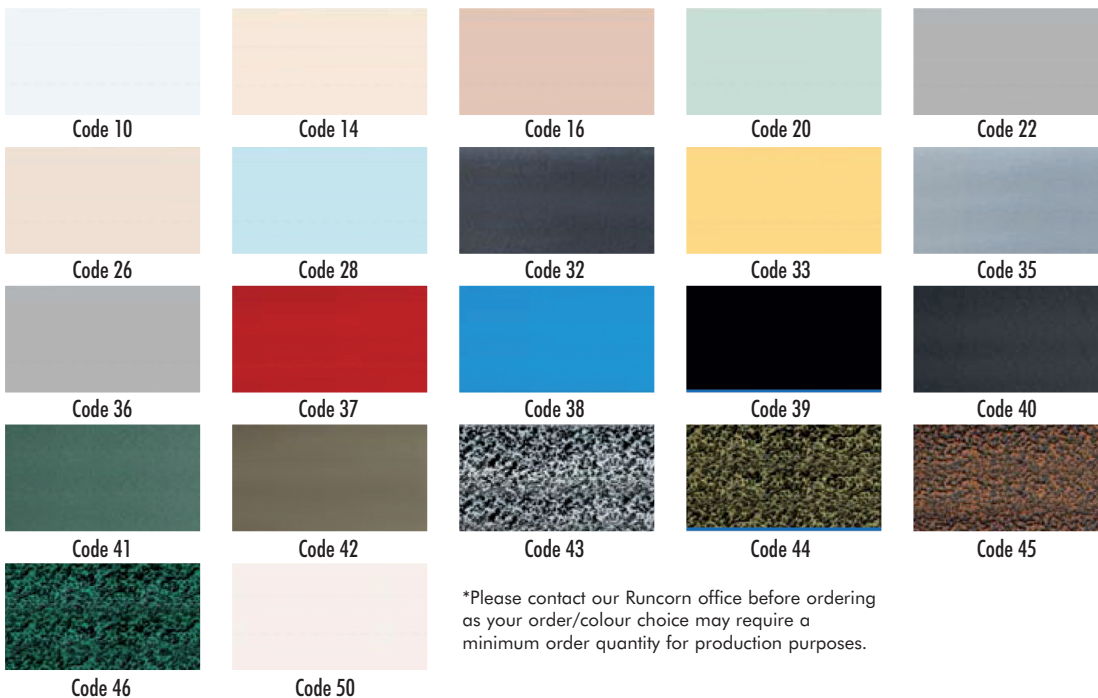
3. Apply a final layer of epoxy-polyester powder paint in an air cabin, then it is oven dried and slowly cooled. The final finish is very tough, durable and enhances the overall heat transfer efficiency of the radiator.

Available in every RAL colour including white

The standard colour of the **FF** steel panel radiator range is RAL9016, the 22 colours shown below are a popular option. Additional RAL colours not shown are also available.



HF102 102mm deep - RAL5015



*Please contact our Runcorn office before ordering as your order/colour choice may require a minimum order quantity for production purposes.

Radiators are finished in white powder coat (RAL 9016) as standard. The 24 colours shown above are available as an option. *Every RAL colour is available to special order on larger projects only, please call our sales office for further information.

European Standard EN442 was brought into force to define "heat measurement sampling" for hot water radiators in all European countries, a positive step forward to ensuring radiators tested and approved will provide the stated heat output required and also give a guarantee that the product will be fit for purpose. **EN442** provides a guarantee that the stated output of radiators from reputable manufacturers is correct and highlights and deters the use of poor quality untested radiators in European installations.

AEL

HEATING SOLUTIONS

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AEL reserve the right to alter designs and specifications without prior notice



Plate Heat Exchanger Packages Gas fired Condensing Boilers Cast Iron Sectional Boilers High Output Tubular Aluminium Radiators Steel Radiators Designer Bathroom Radiators Corgi Approved Engineers

Flat Fronted Range Available in every *RAL colour