

General Specifications

Approval and Certification



BS EN 442

All MYSON Panel radiators are manufactured and tested to BS EN 442. Every radiator carries the BS Kitemark which certifies independent approval of heat output and verifies production under a quality system to BS EN ISO 9001.



All MYSON Panel radiators carry a ten year guarantee from date of manufacture against defects caused by faulty materials or manufacture.

Paint Finish

Every MYSON Panel radiator is de-greased, phosphated and primer coated.

An epoxy polyester finishing coat in white (RAL 9016) is applied to all front and rear surfaces allowing the radiator to be fitted without further painting.

Packaging

Every MYSON Panel radiator has plastic corner protection with durable cardboard edge packaging as well as being fully wrapped in strong polythene. Each radiator is clearly labelled with size and type, and packed with the appropriate number of brackets.

Fixings

All MYSON Panel radiators are supplied with concealed wall mounting brackets. The table of dimensions gives further details.

For the correct installation of radiators it is essential that the fixing of the radiator is carried out in such a way that it is suitable for intended use AND predictable misuse. A number of elements need to be taken into consideration including the fixing method used to secure the radiator to the wall, the type and condition of the wall itself, and any additional potential forces or weights that may happen to be applied to the radiator, prior to finalising installation. **IN ALL CASES IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

PLEASE NOTE: The fixing materials provided are only intended for installation on walls made of solid wood, bricks, concrete or on timber-frame stud walls where the fixing is into the timber. All walls being considered should have no more than a maximum of 3mm wall finishing. For walls made of other materials, for example hollow bricks, please consult your installer and/or specialist supplier. **ONCE AGAIN, IF YOU ARE UNSURE, IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

Accessories

Touch up Paint

A handy 12ml container of touch up paint with integral brush applicator in RAL 9016 is available on request.

Air Vent Key

An alloy key for bleeding and venting is available on request. Order Code: PREMRAKEY

Application

MYSON Panel radiators are for use on two pipe pumped indirect domestic and commercial central heating installations, with a maximum working temperature of 100°C. The system should be designed in accordance with BS EN 12828:2003 or BS EN 12831:2003 as appropriate, with particular care taken to avoid air entry or water discharge.

We do not recommend the use of single feed indirect cylinders, as the possibility of aeration due to water interchange may lead to corrosion.

The installation work must be carried out in accordance with recognised good practice, and precautions taken to avoid contamination which could lead to corrosion. If a corrosion inhibitor or other water treatment is to be used, the Manufacturer's Instructions must be strictly followed.

The recommendations of BS 7593, Code of Practice for treatment of water in domestic hot water central heating systems, should be followed where appropriate.

Safety Precautions

Radiators are hot when in use, and as such, present a risk of burns to users on prolonged contact. The temperature of a radiator is dependent on the temperature of the system water, as set by the system installer or user. Installers and users should ensure that those who may come into close proximity to hot radiators are aware of the risk of burns. Installers and users should take all necessary steps to minimise the risks of burns. If the risk is significant, consideration should be given to installing low surface temperature radiators, or to placing guards in front of the radiators.

Heat Output

Careful design of an optimum profile for the convector plate, and welding directly onto the wet and dry sections of the radiator, have combined to give high heat output per surface area of radiator.

The heat outputs shown in the table below are based on a mean water to air temperature difference of 50°C. When the difference is not 50°C, the output should be multiplied by the appropriate factor from within the table:

Centigrade	Factor	Fahrenheit
20°C	0.30	36°F
25°C	0.41	45°F
30°C	0.51	54°F
35°C	0.63	63°F
40°C	0.75	72°F
45°C	0.87	81°F
50°C	1.00	90°F
55°C	1.13	99°F
60°C	1.27	108°F
65°C	1.41	117°F
70°C	1.55	126°F

Example:

Heat emission required: 2000 Watts
 Room air temperature required: 20°C
 Mean water temperature in radiator: 65°C

- Temperature difference = 65-20 = 45°C
- From Factor Table 45°C gives a factor of: 0.87
- Divide required heat emission by factor = $\frac{2000}{0.87}$ = 2298 Watts
- From selection tables choose any radiator rated at 2298 Watts or more.

Weight and Water Contents per Section

Type		Height (in)							
		12		15		21		27	
		Weight per Section (kg)	Water Content per Section (l)	Weight per Section (kg)	Water Content per Section (l)	Weight per Section (kg)	Water Content per Section (l)	Weight per Section (kg)	Water Content per Section (l)
11	SC	0.37	0.14	0.49	0.16	0.69	0.20	0.90	0.25
21	DPX			0.84	0.32	1.18	0.41	1.54	0.49
22	DC	0.74	0.29	0.97	0.32	1.38	0.41	1.81	0.49

Mounting Positions, Dimensions and Wall Brackets

2 connections*

4 connections**

12" Wall Bracket

15/21/27" Wall Bracket

Bracket Plan View

N.B. Figures in brackets apply when hanging with long leg.
Long leg suitable for hanging Type 11 (SC) radiators only.
Short leg suitable for radiator Types 11, 21 & 22.

Nominal Height (in)	A		B	
	(in)	(mm)	(in)	(mm)
12	6.65	170	N/A	N/A
15	6.93	177	13.2	335
21	9.81	250	18.7	475
27	16.10	410	25.0	635

*Available for full range **Available for selected sizes

Bracket Positions and Dimensions

(View from back of radiator)

N.B. Radiators up to and including 69" long have two brackets. Radiators 77" and longer have three brackets. The position of the centre bracket is given in the above table.

Nominal Height (in)	C		D	
	(in)	(mm)	(in)	(mm)
12	11.8	300	2.75	70
15	15.4	390	3.03	77
21	20.9	530	5.91	150
27	27.2	690	12.20	310

Nominal Length (in)	E	
	(in)	(mm)
77	34	864
79	35	889
85	38	965

Connections

All MYSON PREMIER HE radiators are fitted with 2 - 1/2 inch BSP connections. Selected sizes are available with 4 - 1/2 inch BSP connections, please refer to size guide pages 12-13.

Air Vents

An integral air vent is situated at the top right-hand corner of each panel.

Operating Pressures

Every MYSON PREMIER HE radiator is tested to a pressure of 7 bar (101.5 psi) and is suitable for a working pressure of up to 5.4 bar (78 psi).



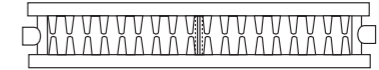
Single Convector - Type 11



Double Panel "Xtra" - Type 21



Double Convector - Type 22



Nominal Height
12 inch
(300mm)

Nominal Length (inches - mm)	No. of sections
15 - 400	8
31 - 800	16
47 - 1200	24
63 - 1600	32
79 - 2000	40

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
199	680	104	356	12 SC 15
409	1395	214	730	12 SC 31
618	2109	323	1103	12 SC 47
828	2824	433	1477	12 SC 63

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
795	2712	413	1408	12 DC 31
1201	4098	624	2129	12 DC 47
1609	5489	835	2851	12 DC 63
2015	6875	1047	3571	12 DC 79

Nominal Height
15 inch
(390mm)

Nominal Length (inches - mm)	No. of sections
21 - 540	11
25 - 641	13
29 - 743	15
37 - 946	19
41 - 1047	21
45 - 1149	23
49 - 1251	25
53 - 1352	27
57 - 1454	29
61 - 1556	31
69 - 1759	35
77 - 1962	39
85 - 2165	43

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
354	1207	185	630	15 SC 21
420	1433	219	748	15 SC 25
487	1661	254	867	15 SC 29
620	2114	323	1104	15 SC 37*
686	2342	358	1222	15 SC 41*
753	2568	393	1340	15 SC 45*
819	2796	428	1459	15 SC 49*
886	3024	463	1578	15 SC 53*
952	3249	497	1696	15 SC 57
1019	3477	532	1815	15 SC 61
1152	3931	601	2052	15 SC 69
1285	4385	671	2289	15 SC 77

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
723	2467	375	1279	15 DPX 29
920	3141	477	1629	15 DPX 37*
1020	3479	529	1805	15 DPX 41*
1118	3815	580	1979	15 DPX 45*
1217	4153	631	2154	15 DPX 49*
1316	4492	683	2330	15 DPX 53*
1415	4827	734	2504	15 DPX 57*
1514	5166	785	2680	15 DPX 61
1712	5840	888	3029	15 DPX 69
1909	6514	990	3379	15 DPX 77

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
675	2303	348	1186	15 DC 21
801	2734	413	1408	15 DC 25
929	3169	478	1632	15 DC 29*
1183	4035	609	2078	15 DC 37*
1310	4470	675	2302	15 DC 41*
1436	4900	740	2524	15 DC 45*
1564	5336	805	2748	15 DC 49*
1691	5771	871	2972	15 DC 53*
1818	6201	936	3194	15 DC 57
1945	6636	1002	3418	15 DC 61
2199	7509	1133	3864	15 DC 69
2453	8368	1263	4310	15 DC 77
2706	9234	1394	4756	15 DC 85

Nominal Height
21 inch
(530mm)

Nominal Length (inches - mm)	No. of sections
17 - 438	9
21 - 540	11
25 - 641	13
29 - 743	15
33 - 844	17
37 - 946	19
41 - 1047	21
45 - 1149	23
49 - 1251	25
53 - 1352	27
57 - 1454	29
61 - 1556	31
69 - 1759	35
77 - 1962	39
85 - 2165	43

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
375	1281	195	667	21 SC 17*
463	1579	241	822	21 SC 21*
549	1874	286	976	21 SC 25*
637	2173	331	1131	21 SC 29*
724	2471	377	1286	21 SC 33*
811	2766	422	1440	21 SC 37*
898	3064	467	1595	21 SC 41*
985	3360	513	1749	21 SC 45*
1072	3658	558	1904	21 SC 49*
1160	3956	604	2059	21 SC 53*
1246	4252	649	2213	21 SC 57*
1333	4550	694	2368	21 SC 61*
1507	5143	785	2677	21 SC 69*
1681	5737	875	2986	21 SC 77
1855	6331	966	3295	21 SC 85

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
550	1876	283	966	21 DPX 17*
678	2312	349	1191	21 DPX 21*
804	2745	414	1413	21 DPX 25*
932	3182	480	1638	21 DPX 29*
1060	3618	546	1863	21 DPX 33*
1187	4051	611	2086	21 DPX 37*
1315	4488	677	2311	21 DPX 41*
1442	4920	742	2533	21 DPX 45*
1570	5357	808	2758	21 DPX 49*
1698	5794	874	2983	21 DPX 53*
1825	6226	940	3206	21 DPX 57
1953	6663	1005	3431	21 DPX 61
2208	7532	1137	3878	21 DPX 69
2462	8401	1268	4326	21 DPX 77

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
706	2411	359	1226	21 DC 17*
871	2972	443	1511	21 DC 21*
1034	3528	526	1794	21 DC 25*
1198	4089	609	2079	21 DC 29*
1363	4651	693	2365	21 DC 33*
1526	5206	776	2647	21 DC 37*
1690	5768	859	2933	21 DC 41*
1853	6324	942	3215	21 DC 45*
2018	6885	1026	3501	21 DC 49*
2182	7446	1110	3786	21 DC 53*
2345	8002	1192	4069	21 DC 57
2510	8564	1276	4354	21 DC 61
2837	9681	1443	4922	21 DC 69
3165	10798	1609	5490	21 DC 77
3492	11915	1776	6058	21 DC 85

Nominal Height
27 inch
(690mm)

Nominal Length (inches - mm)	No. of sections
11 - 286	6
17 - 438	9
21 - 540	11
25 - 641	13
29 - 743	15
33 - 844	17
37 - 946	19
41 - 1047	21
45 - 1149	23
53 - 1352	27
61 - 1556	31
69 - 1759	35

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
305	1042	157	534	27 SC 11*
468	1596	240	818	27 SC 17*
577	1968	296	1009	27 SC 21*
685	2336	351	1198	27 SC 25*
794	2708	407	1388	27 SC 29*
902	3079	463	1579	27 SC 33*
1010	3447	518	1767	27 SC 37*
1119	3819	574	1958	27 SC 41*
1227	4187	629	2147	27 SC 45*
1445	4930	741	2528	27 SC 53
1662	5670	852	2907	27 SC 61
1879	6410	963	3286	27 SC 69

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
687	2343	351	1198	27 DPX 17*
847	2889	433	1477	27 DPX 21*
1005	3429	514	1753	27 DPX 25*
1165	3975	596	2032	27 DPX 29*
1325	4521	677	2311	27 DPX 33*
1483	5061	758	2587	27 DPX 37*
1643	5607	840	2866	27 DPX 41
1802	6147	921	3142	27 DPX 45
2122	7239	1084	3700	27 DPX 53
2440	8325	1247	4255	27 DPX 61

Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
Watts	Btu/h	Watts	Btu/h	
572	1951	291	992	27 DC 11*
876	2987	445	1519	27 DC 17*
1079	3683	549	1872	27 DC 21*
1281	4372	651	2222	27 DC 25*
1485	5068	755	2576	27 DC 29*
1689	5763	859	2930	27 DC 33*
1891	6452	961	3280	27 DC 37*
2095	7148	1065	3633	27 DC 41*
2297	7837	1168	3984	27 DC 45*
2705	9228	1375	4691	27 DC 53
3110	10613	1581	5395	27 DC 61
3516	11997	1787	6099	27 DC 69

N.B. The tabulated heat outputs are quoted at a mean water to air temperature difference of 50°C and 30°C. *Available as 4 tap option.