Softline

Extra performance to guaranteed standards

With beautifully curved top grille and end panels, the Stelrad Softline radiator is the mould-breaking next generation compact from Stelrad.

Combining the most sophisticated production resources in Europe, with substantial investment directed towards testing and verification of performance data, Stelrad has created a high output Compact radiator with heating performance that exceeds expectation.

Strictly controlled independent laboratory testing ensures that all Softline radiators are guaranteed to perform to a maximum working pressure of 116 psi (8 bar) and conform to BS EN 442 - the European Standard for radiators.

As a measure of the all round dependable quality and performance, the Stelrad Softline comes complete with a 10 year Manufacturer's Warranty.

Superb quality from design to installation

The elegant, beautifully curved top grille and end panels have been specifically designed to eradicate any movement, providing a tight, professional fit, that will remain in place, even after storage, transit and installation.

As you would expect from a radiator with the Stelrad pedigree, the convectors are precision welded directly onto the waterways for greater efficiency and economy, with flexible connection options for the highest of domestic application specifications.

Every radiator comes wrapped in robust, practical packaging that will keep the product pristine, right through to hand over. Protective through storage and transit, the new packaging design also allows installation prior to removal.

10 TEN YEAR WARRANTY

EN EURONORM 442

CE

Stelrad Softline

50 Δt

Height	Length mm	Sections	K1 Heat output Watts	K1 Heat output Btu/hr	P+ Heat output Watts	P+ Heat output Btu/hr	K2 Heat output Watts	K2 Heat output Btu/hr
300	500	15	255	870	-	-	491	1675
	1000	30	509	1737	-	-	982	3351
	1500	45	764	2607	-	-	1473	5026
	2000	60	1018	3473	-	-	1964	6701
450	400	12	302	1030	-	-	548	1870
	500	15	378	1290	-	-	686	2341
	600	18	454	1549	-	-	823	2808
	700	21	529	1805	-	-	960	3276
	800	24	605	2064	-	-	1097	3743
	900	27	680	2320	-	-	1234	4210
	1000	30	756	2579	1055	3600	1371	4678
	1100	33	832	2839	1161	3961	1508	5145
	1200	36	907	3095	1266	4320	1645	5613
	1400	42	1058	3610	1477	5040	1919	6548
	1600	48	1210	4129	1787	6097	2194	7486
	1800	54	1361	4644	-	-	2468	8421
	2000	60	1512	5159	-	-	2742	9356
600	400	12	392	1338	538	1836	693	2365
	500	15	490	1672	673	2296	866	2955
	600	18	588	2006	807	2753	1039	3545
	700	21	686	2341	942	3214	1212	4135
	800	24	784	2675	1076	3671	1386	4729
	900	27	882	3009	1211	4132	1559	5319
	1000	30	980	3344	1345	4589	1732	5910
	1100	33	1078	3678	1480	5050	1905	6500
	1200	36	1176	4013	1614	5507	2078	7090
	1400	42	1372	4681	1883	6425	2425	8274
	1600	48	1568	5350	2152	7343	2771	9455
	1800	54	1764	6019	-	-	3118	10639
	2000	60	1960	6688	-	-	3464	11819
700	400	12	447	1525	-	-	784	2675
	500	15	559	1907	-	-	981	3347
	600	18	670	2286	-	-	1177	4016
	700	21	782	2668	-	-	1373	4685
	800	24	894	3050	-	-	1569	5353
	900	27	1005	3429	-	-	1765	6022
	1000	30	1117	3811	-	-	1961	6691
	1100	33	1229	4193	-	-	2157	7360
	1200	36	1340	4572	-	-	2353	8028
	1400	42	1564	5336	-	-	2745	9366
	1600	48	1787	6097	-	-	3138	10707
	1800	54	2011	6862	-	-	3530	12044
	2000	60	2234	7622	-	-	3922	13382

Stelrad Softline

40 Δt



Height	Length mm	Sections	K1 Heat output Watts	K1 Heat output Btu/hr	P+ Heat output Watts	P+ Heat output Btu/hr	K2 Heat output Watts	K2 Heat output Btu/hr
300	500	15	191	651	-	-	367	1253
	1000	30	381	1299	-	-	735	2506
	1500	45	571	1950	-	-	1102	3759
	2000	60	761	2598	-	-	1469	5012
450	400	12	226	771	-	-	410	1399
	500	15	283	965	-	-	513	1751
	600	18	340	1159	-	-	616	2100
	700	21	396	1350	-	-	718	2450
	800	24	453	1544	-	-	821	2800
	900	27	509	1735	-	-	923	3149
	1000	30	565	1929	789	2693	1026	3499
	1100	33	622	2123	868	2963	1128	3849
	1200	36	678	2315	947	3231	1230	4198
	1400	42	791	2700	1105	3770	1435	4898
	1600	48	905	3088	1337	4561	1641	5599
	1800	54	1018	3474	-	-	1846	6299
	2000	60	1131	3859	-	-	2051	6998
600	400	12	293	1000	402	1373	518	1769
	500	15	367	1251	503	1718	648	2210
	600	18	440	1501	604	2060	777	2652
	700	21	513	1751	705	2404	907	3093
	800	24	586	2001	805	2746	1037	3537
	900	27	660	2251	906	3091	1166	3979
	1000	30	733	2501	1006	3433	1296	4420
	1100	33	806	2751	1107	3777	1425	4862
	1200	36	880	3001	1207	4119	1554	5303
	1400	42	1026	3502	1408	4806	1814	6189
	1600	48	1173	4002	1610	5492	2073	7072
	1800	54	1319	4502	-	-	2332	7958
	2000	60	1466	5002	-	-	2591	8841
700	400	12	334	1141	-	-	586	2001
	500	15	418	1427	-	-	734	2504
	600	18	501	1710	-	-	880	3004
	700	21	585	1996	-	-	1027	3504
	800	24	669	2282	-	-	1174	4004
	900	27	752	2565	-	-	1320	4505
	1000	30	836	2851	-	-	1467	5005
	1100	33	919	3137	-	-	1613	5505
	1200	36	1002	3420	-	-	1760	6005
	1400	42	1170	3992	-	-	2053	7006
	1600	48	1337	4561	-	-	2347	8009
	1800	54	1504	5132	-	-	2640	9009
	2000	60	1671	5702	-	-	2934	10010

Stelrad Softline

30 Δt

Height	Length mm	Sections	K1 Heat output Watts	K1 Heat output Btu/hr	P+ Heat output Watts	P+ Heat output Btu/hr	K2 Heat output Watts	K2 Heat output Btu/hr
300	500	15	131	448	-	-	253	863
	1000	30	262	894	-	-	506	1726
	1500	45	393	1342	-	-	759	2588
	2000	60	524	1789	-	-	1011	3451
450	400	12	156	531	-	-	282	963
	500	15	195	664	-	-	353	1205
	600	18	234	798	-	-	424	1446
	700	21	272	930	-	-	494	1687
	800	24	312	1063	-	-	565	1928
	900	27	350	1195	-	-	636	2168
	1000	30	389	1328	543	1854	706	2409
	1100	33	428	1462	598	2040	777	2650
	1200	36	467	1594	652	2225	847	2891
	1400	42	545	1859	761	2595	988	3372
	1600	48	623	2126	920	3140	1130	3855
	1800	54	701	2392	-	-	1271	4337
	2000	60	779	2657	-	-	1412	4818
600	400	12	202	689	277	945	357	1218
	500	15	252	861	347	1183	446	1522
	600	18	303	1033	416	1418	535	1826
	700	21	353	1205	485	1655	624	2130
	800	24	404	1378	554	1891	714	2435
	900	27	454	1550	624	2128	803	2739
	1000	30	505	1722	693	2363	892	3043
	1100	33	555	1894	762	2601	981	3347
	1200	36	606	2066	831	2836	1070	3651
	1400	42	707	2411	970	3309	1249	4261
	1600	48	808	2755	1108	3781	1427	4869
	1800	54	908	3100	-	-	1606	5479
	2000	60	1009	3444	-	-	1784	6087
700	400	12	230	785	-	-	404	1378
	500	15	288	982	-	-	505	1724
	600	18	345	1177	-	-	606	2068
	700	21	403	1374	-	-	707	2413
	800	24	460	1571	-	-	808	2757
	900	27	518	1766	-	-	909	3101
	1000	30	575	1963	-	-	1010	3446
	1100	33	633	2160	-	-	1111	3790
	1200	36	690	2355	-	-	1212	4135
	1400	42	805	2748	-	-	1414	4823
	1600	48	920	3140	-	-	1616	5514
	1800	54	1036	3534	-	-	1818	6203
	2000	60	1151	3926	-	-	2020	6892

Stelrad Softline

Weights & Measures

Height	Length mm	Length in	Wall to tap centre mm (K1)	Wall to tap centre mm (P+)	Wall to tap centre mm (K2)
300	500	19.7	133	-	141
	1000	39.4	133	-	141
	1500	59.1	267	-	275
	2000	78.7	267	-	275
450	400	15.7	133	-	125
	500	19.7	133	-	158
	600	23.6	133	-	158
	700	27.6	133	-	158
	800	31.5	133	-	158
	900	35.4	133	-	158
	1000	39.4	133	141	158
	1100	43.3	133	141	158
	1200	47.2	267	275	291
	1400	55.1	267	275	291
	1600	63.0	267	275	291
	1800	70.9	267	-	291
	2000	78.7	267	-	291
600	400	15.7	133	141	141
	500	19.7	133	141	141
	600	23.6	133	141	141
	700	27.6	133	141	141
	800	31.5	133	141	141
	900	35.4	133	141	141
	1000	39.4	133	141	141
	1100	43.3	133	141	141
	1200	47.2	267	275	275
	1400	55.1	267	275	275
	1600	63.0	267	275	275
	1800	70.9	267	-	275
	2000	78.7	267	-	275
700	400	15.7	133	-	141
	500	19.7	133	-	141
	600	23.6	133	-	141
	700	27.6	133	-	141
	800	31.5	133	-	141
	900	35.4	133	-	141
	1000	39.4	133	-	141
	1100	43.3	133	-	141
	1200	47.2	267	-	275
	1400	55.1	267	-	275
	1600	63.0	267	-	275
	1800	70.9	267	-	275
	2000	78.7	267	-	275

EN 442 Certification Data – CETIAT tested in accordance with BS EN 442

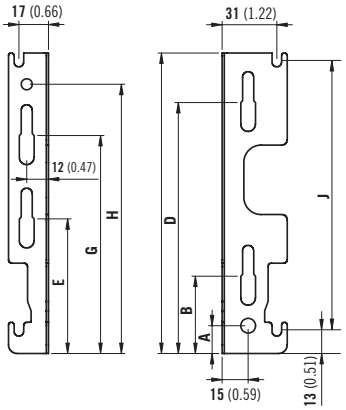
Type	K1				P+	
Height	300	450	600	700	450	600
W/m at 75/65/20	509	756	980	1117	1055	1345
n-coefficients	1.32	1.31	1.29	1.29	1.33	1.34
Heated Surface Area (m^2/m)	2.09	3.37	4.66	5.51	3.84	5.24
Weight (kg/m)	9.31	14.51	19.70	22.90	22.04	29.80
Water Contents (l/m)	1.89	2.57	3.25	3.77	5.15	6.60

EN 442 Certification Data – CETIAT tested in accordance with BS EN 442

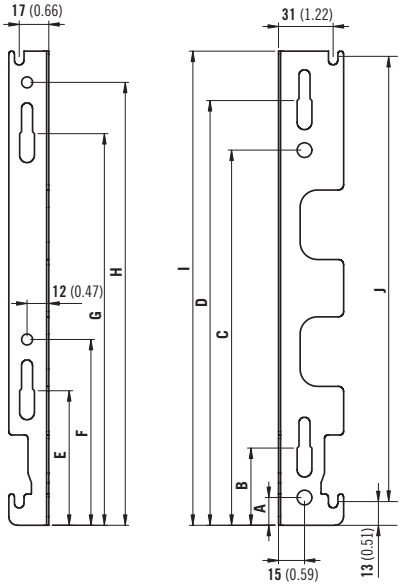
Type	K2			
Height	300	450	600	700
W/m at 75/65/20	982	1371	1732	1961
n-coefficients	1.33	1.33	1.33	1.34
Heated Surface Area (m^2/m)	3.51	5.62	7.74	9.15
Weight (kg/m)	16.80	25.90	35.00	40.53
Water Contents (l/m)	3.70	5.15	6.60	7.63

Softline mounting brackets

All dimensions in mm. Inches in brackets.



H300

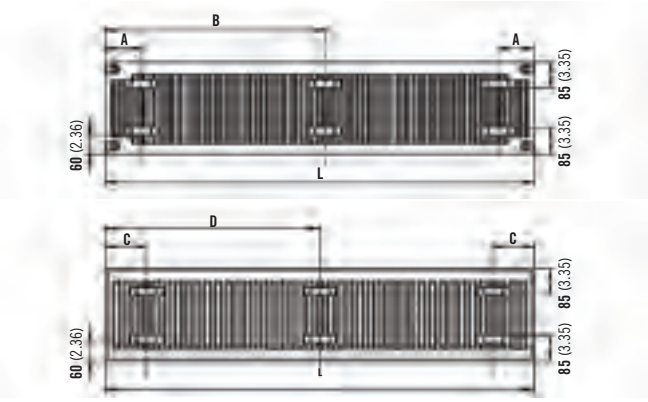


H450-600-700

Height	mm	in	mm	in	mm	in	mm	in
	300	**11.81**	**450**	**17.72**	**600**	**23.62**	**700**	**27.56**
A	16	0.63	16	0.63	16	0.63	16	0.63
B	44	1.73	44	1.73	44	1.73	44	1.73
C	-	-	266	10.47	416	16.38	516	20.31
D	144	5.67	294	11.57	444	17.48	544	21.42
E	77	3.03	77	3.03	77	3.03	77	3.03
F	-	-	107	4.21	107	4.21	107	4.21
G	125	4.92	275	10.83	425	16.73	525	20.67
H	155	6.10	305	12.01	455	17.91	555	21.85
I	173	6.81	323	12.72	473	18.62	573	22.56
J	155	6.10	305	12.01	455	17.91	555	21.85

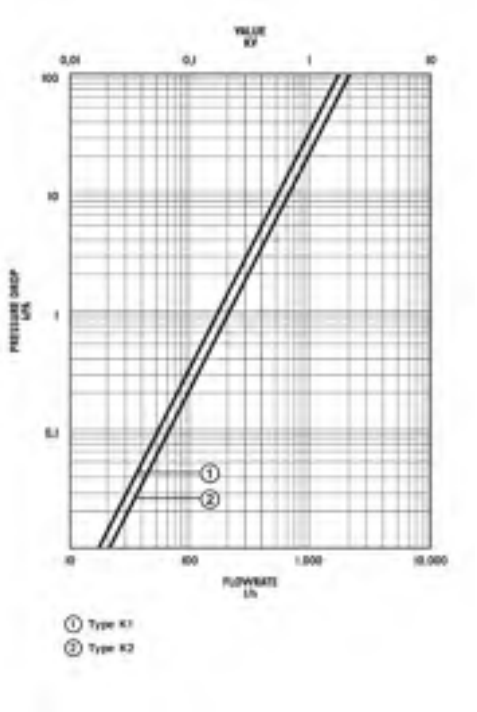
K1, P+ and K2 lug positions

All dimensions in mm. Inches in brackets.



	K1				TYPE P+/K2			
L	**A**		**B**		**C**		**D**	
	mm	**in**	**mm**	**in**	**mm**	**in**	**mm**	**in**
400	117	-	-	-	133	-	-	-
500 - 1100	150	-	-	-	133	-	-	-
1200 - 1600	283	-	-	-	267	-	-	-
1800 - 2000	283	-	(L/2) +17		267	-	(L/2)	

Pressure drops



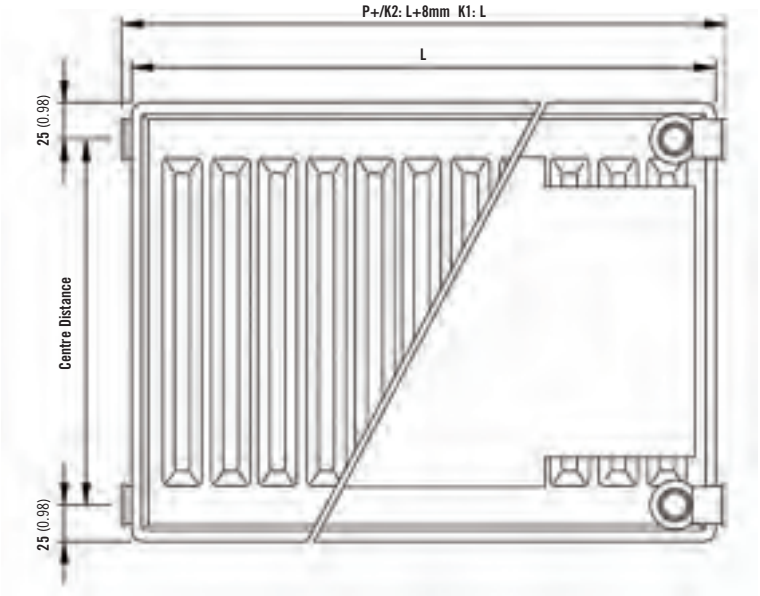
Softline wall mounting information

All dimensions in mm. Inches in brackets.

K1

P+

K2



STARS

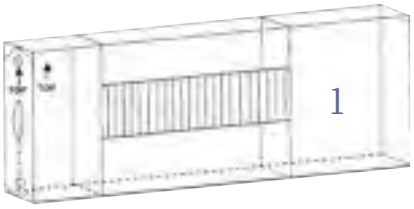
STELRAD'S ADVANCED HEATLOSS CALCULATOR

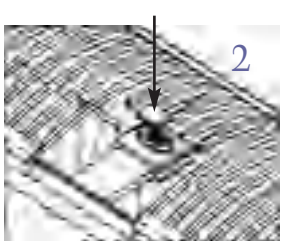
The Stelrad STARS Heatloss Calculator contains an inbuilt U value calculator.

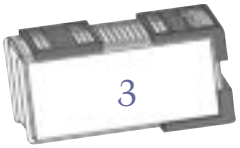
Save time and effort by using the Stelrad STARS program – the perfect solution for accurate sizing and design flexibility.

Softline packaging and components

1. End box design. 2. Grille retaining clip. 3. Plastic corner protection.







Softline temperature table

TEMPERATURES

Factors for differences between mean water temperature and room temperature in °C and °F other than 50°C (90°F)

°C		°F	
5	0.050	10	0.057
10	0.123	20	0.142
15	0.209	30	0.240
20	0.304	40	0.348
25	0.406	50	0.466
30	0.515	60	0.590
35	0.629	70	0.721
40	0.748	80	0.858
45	0.872	90	1.000
50	1.000	100	1.147
55	1.132	110	1.298
60	1.267	120	1.454
65	1.406	130	1.613
70	1.549	140	1.776
75	1.694	-	-

To apply the factors shown in the table above to our quoted outputs, multiply the quoted output by the chosen operating factor to give new output.

To apply the factor to required output, divide required output by factor to give correct radiator from the Stelrad Softline range.

Testing and operating pressures

All models are high pressure tested to withstand 152.3 psi (10.5 bar), to perform at a maximum working pressure of 116 psi (8 bar) at a maximum temperature of 95°C.

Caution

When designing for domestic systems we recommend that the Softline range be used only in heating systems complying with the British Standard Code of Practice for Central Heating for Domestic Premises BS EN 2828:2003 and BS EN 12831:2003.

Single feed, direct cylinders are not recommended as should interchange of water occur, fresh aerated water would enter the heating system, resulting in corrosion.

Installation

Everything required for installation can be found within the robust packaging. Brackets are of a strong design, with open top and deep slots, which facilitate easy and secure installation. Plastic inserts seat the radiator precisely on the bracket minimising expansion and contraction noise.

The neat nickel-plated plug and vent provide a watertight joint, whilst complementing the superior finish.
To facilitate easy one off replacement, nickelplated brass extension pieces are also available, complete with sealing washer, in 20mm, 30mm and 40mm options.
Recommended height from the floor to the base of the radiator is 150 mm minimum. This allows adequate airflow when the radiator is placed on the bracket.

Water treatment

On completion of the installation, the system should be properly flushed and filled in accordance with the British Standard Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems BS 7593:2006.

This will remove flux residues and installation debris, which might promote corrosion and damage within the system.

If it is decided to apply a high performance corrosion inhibitor to maximise the working life of the system, it should be applied in accordance with the manufacturer's instructions and should be suitable for the particular metals within the system.

A comprehensive range of quality chemicals including inhibitors, cleaners, leak sealers and noise reducers that protect and maintain central heating systems can be obtained from:

Sentinel Performance Solutions Ltd
The Heath Business & Technical Park, Runcorn,
Cheshire WA7 4QX

Tel: 01928 588 330 (UK)

Fernox - Cookson Electronics,
Forsyth Road, Sheerwater, Woking,
Surrey GU21 5RZ

Tel: 01483 793200

For further information and advice call Technical Support on: 01482 498663.