

# autron

## LST Radiators

### Products Available

**Autron produce premium quality LSTs from the Slenderline, Euroline, Sterling and Sovereign ranges, all boasting energy efficient copper aluminium emitters.**



#### **Slenderline**

The Autron "Slenderline" LST radiator range is the slimmest LST currently available in the UK, suitable for applications where unobtrusive heating is required with a choice of emitters designed for conventional or condensing boiler applications.



#### **Euroline**

The Autron "Euroline" LST radiator range is designed to complement the "Slenderline" LST where a higher output is required with a choice of emitters designed for conventional or condensing boiler applications.



#### **Sterling**

The Autron "Sterling" LST radiator range is designed for universal applications with a choice of emitters designed for conventional or condensing boiler applications.



#### **Sovereign**

The Autron "Sovereign" LST radiator range is the top of the range model with safety, strength and performance for the most demanding environments. Available with a choice of emitters designed for conventional or condensing boiler applications.



#### **Sovereign Double**

The Autron "Sovereign DBL" LST radiator range is designed to complement the "Sovereign" LST where a higher output is required and a choice of emitters designed for conventional or condensing boiler applications.

#### **Special features include:**

- Bespoke Designs
- Mental Health Environments
- Slimmest ever LST
- Outputs up to 8000w  $\Delta t$  50°C

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## LST Radiators

### Water Treatment

Our products are not suitable for installation on secondary HWS circuits. They are for use on closed heating systems only. The entire system must be flushed and cleaned thoroughly to remove unwanted debris, flux residues and such like. If a chemical cleaner has been used it must be completely flushed from the system. To prevent corrosion, the system must be dosed with a good eminance of water treatment. The system design, all flushing and dosing must be in accordance with BS 5449: 1990, BS EN 12828: 2003 and BS 7593: 1992.

#### Warning:

Failure to adhere to these requirements will render the product guarantee void.

Corrosion inhibitor must be used in accordance with the manufacturer's recommendations and instructions whilst also taking the particular metals in the system into account.

## 3 Step Easy Installation



**Fit brackets  
to wall**



**Fit emitter**



**Fit case**

**DISCLAIMER:** Due to a policy of continuous product development Autron Products Ltd reserves the right to alter any of the specifications without prior notice. Our standard current terms and conditions of sale apply. Figures and specifications are correct at time of printing but subject to alteration or withdrawal without notice. All illustrations and images are as accurate as possible but some deviations from the original may occur during the printing process.

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## LST Radiators



# Sovereign

**Range of Low Surface Temperature radiator models to suit all budgets and applications**



**Sales 01787 274135 [www.autron.co.uk](http://www.autron.co.uk)**



Cert. No. 7402

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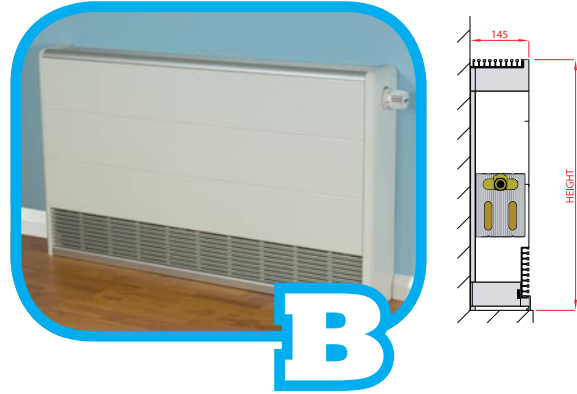
## LST Radiators

The Autron "Sovereign" LST radiator range is the top of the range model with safety, strength and performance for the most demanding environments. Available with a choice of emitters designed for conventional or condensing boiler applications.

### Style A Wall Mounted



### Style B Wall Mounted with Inlet Grille



### Product Range

The "Sovereign" range comprises of wall mounted or wall mounted with bottom inlet grille or free standing floor models and is available in a choice of 3 heights with lengths from 663mm to 2915mm as standard.



### Emitters

The "Sovereign" range has a 3H2W copper aluminium emitters for conventional heating applications or a purpose designed "5H2W" emitter suitable for use with the lower flow temperatures associated with condensing boilers. Suitable for a two pipe system.

### Casings

Autron 145mm deep "Sovereign" casings are supplied fully assembled for easy on site installation. The casing is supplied in a durable SteriTouch® antimicrobial powder coated paint finish; RAL9010 semi gloss. The end casings and the front panel are manufactured from 1.2mm zinc coated steel. The front panel is made up of a number of individual panels which are spot welded together on their double profile return bends to create a robust panel. Rounded edges are an integral feature of this casing.



All LST casings are protected with SteriTouch® antimicrobial surface treatment in the paint and moulded components. Tested to JIS Z 2801:2000. It is laboratory proven on Autron components to reduce MRSA and E.coli by 99.995% over a 24 hour period.

### Grilles

The attractive anodised aluminium outlet and optional inlet grilles are easily removed for cleaning and maintenance. All grilles have SteriTouch® antimicrobial surface treatment.

### Outputs

The output of the "Sovereign" range has been type tested by BSRIA in accordance with BSEN 442; with the casing and grille temperatures being in general accordance with the NHS Guidance Notes: Safe hot water and surface temperatures.

The case length excludes TRV valves. The units having the 3H emitter are compliant with the NHS guidelines. The option of a 5H emitter will achieve a higher output with the front and side panels complying with the guidelines but the outlet grille temperature may exceed 43°C dependent upon operational factors.

### CORRECTION FACTORS

At °C CF

30	0.509
32	0.554
34	0.6
36	0.646
38	0.695
40	0.744
42	0.793
44	0.843
46	0.895
48	0.948
50	1.0
52	1.053
54	1.105
56	1.161
58	1.213
60	1.269

### Testing

All "Sovereign" emitters are pressure tested to 105 PSI (7bar).

### Warranty

Each "Sovereign" LST Radiator is backed by a 5 year warranty in respect of defective materials and manufacture.

### Air Vent

An 1/8" BSP air vent and drain are incorporated into the emitter connection of all "Sovereign" LST Radiators.

### Installation

Full easy to read instructions are supplied with each "Sovereign" LST which detail bracket positions and tapping dimensions.

### Valve Options



#### VK3

The VK3 valve kit is an internal control and comprises a 1/2" angle pattern valve body with presetting key, remote sensing phial and TRV head, plus a 1/2" angle lockshield valve on the return connection.



#### VK4

The VK4 valve kit is an external control for remote mounting and comprises 1/2" angle pattern presettable valve body, remote transmitter and TRV head, plus a 1/2" angle lockshield valve on the return connection.



#### VK5

The VK5 valve kit is an external control mounted partially recessed into the top right hand side of the casing and comprises 1/2" angle pattern valve body with presetting key, remote transmitter and TRV head, plus a 1/2" angle lockshield valve on the return connection.

# Sovereign Style **A** LST Radiator

MODEL	CASE LENGTH (mm)	OUTPUT (Watts)		WATER CONTENT		WEIGHT		Casing (kg)
		3H2W $\Delta t$ 50°C	5H2W $\Delta t$ 50°C	3H2W litres	5H2W litres	Emitter		
						3H2W (kg)	5H2W (kg)	
<b>SOV 325A</b> Height 325mm	663	480	N/A	0.628	N/A	2.60	N/A	3.83
	867	687	N/A	0.850	N/A	3.53	N/A	5.02
	1072	882	N/A	1.062	N/A	4.41	N/A	6.21
	1278	1089	N/A	1.285	N/A	5.33	N/A	7.39
	1483	1284	N/A	1.497	N/A	6.21	N/A	8.58
	1688	1481	N/A	1.709	N/A	7.09	N/A	9.77
	1892	1681	N/A	1.921	N/A	7.97	N/A	10.95
	2096	1882	N/A	2.144	N/A	8.90	N/A	12.13
	2301	2083	N/A	2.361	N/A	9.80	N/A	13.32
	2506	2280	N/A	2.573	N/A	10.68	N/A	14.51
	2710	2481	N/A	2.791	N/A	11.58	N/A	15.69
	2915	2688	N/A	3.003	N/A	12.46	N/A	16.88

<b>SOV 475A</b> Height 475mm	663	519	635	0.628	1.046	2.60	4.14	5.35
	867	749	916	0.850	1.417	3.53	5.61	7.01
	1072	980	1200	1.062	1.771	4.41	7.01	8.67
	1278	1210	1481	1.285	2.142	5.33	8.48	10.32
	1483	1440	1762	1.497	2.495	6.21	9.88	11.98
	1688	1674	2048	1.709	2.849	7.09	11.28	13.64
	1892	1904	2329	1.921	3.202	7.97	12.68	15.29
	2096	2133	2609	2.144	3.573	8.90	14.15	16.95
	2301	2364	2892	2.361	3.935	9.80	15.59	18.61
	2506	2595	3175	2.573	4.289	10.68	16.99	20.27
	2710	2825	3456	2.791	4.651	11.58	18.42	21.92
	2915	3056	3740	3.003	5.005	12.46	19.82	23.58

<b>SOV 625A</b> Height 625mm	663	540	706	0.628	1.046	2.60	4.14	7.27
	867	779	1018	0.850	1.417	3.53	5.61	9.52
	1072	1019	1330	1.062	1.771	4.41	7.01	11.77
	1278	1258	1644	1.285	2.142	5.33	8.48	14.01
	1483	1498	1956	1.497	2.495	6.21	9.88	16.27
	1688	1740	2272	1.709	2.849	7.09	11.28	18.52
	1892	1979	2585	1.921	3.202	7.97	12.68	20.77
	2096	2218	2897	2.144	3.573	8.90	14.15	23.01
	2301	2459	3212	2.361	3.935	9.80	15.59	25.27
	2506	2699	3525	2.573	4.289	10.68	16.99	27.52
	2710	2938	3837	2.791	4.651	11.58	18.42	29.77
	2915	3178	4150	3.003	5.005	12.46	19.82	32.02

Sovereign 'A' Style LST Radiators must be mounted at least 100mm above floor level.

Order Code = Model + Length - Emitter Type eg SOV475A1483-3H2W

## Special Options

The Autron range of Sovereign radiators is available in various colours and in the following options:



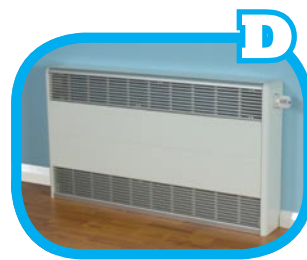
**Style AFM**  
Floor mounted



**Style BFM**  
Floor mounted



**Style C**  
Minimum Height 445mm



**Style D**  
Minimum Height 595mm

# Sovereign Style **B** LST Radiator

MODEL	CASE LENGTH (mm)	OUTPUT (Watts)		WATER CONTENT		WEIGHT		Casing (kg)
		3H2W Δt 50°C	5H2W Δt 50°C	3H2W litres	5H2W litres	Emitter		
						3H2W (kg)	5H2W (kg)	
<b>SOV 475B</b> Height 475mm	663	453	N/A	0.628	N/A	2.60	N/A	5.02
	867	648	N/A	0.850	N/A	3.53	N/A	6.57
	1072	832	N/A	1.062	N/A	4.41	N/A	8.13
	1278	1027	N/A	1.285	N/A	5.33	N/A	9.68
	1483	1211	N/A	1.497	N/A	6.21	N/A	11.24
	1688	1397	N/A	1.709	N/A	7.09	N/A	12.80
	1892	1586	N/A	1.921	N/A	7.97	N/A	14.35
	2096	1776	N/A	2.144	N/A	8.90	N/A	15.90
	2301	1965	N/A	2.361	N/A	9.80	N/A	17.46
	2506	2151	N/A	2.573	N/A	10.68	N/A	19.02
	2710	2341	N/A	2.791	N/A	11.58	N/A	20.57
2915	2536	N/A	3.003	N/A	12.46	N/A	22.12	
<b>SOV 625B</b> Height 625mm	663	485	593	0.628	1.046	2.60	4.14	6.48
	867	700	856	0.850	1.417	3.53	5.61	8.48
	1072	916	1122	1.062	1.771	4.41	7.01	10.49
	1278	1130	1383	1.285	2.142	5.33	8.48	12.49
	1483	1346	1647	1.497	2.495	6.21	9.88	14.49
	1688	1564	1913	1.709	2.849	7.09	11.28	16.50
	1892	1779	2176	1.921	3.202	7.97	12.68	18.50
	2096	1994	2439	2.144	3.573	8.90	14.15	20.50
	2301	2210	2704	2.361	3.935	9.80	15.59	22.51
	2506	2425	2967	2.573	4.289	10.68	16.99	24.52
	2710	2640	3230	2.791	4.651	11.58	18.42	26.52
2915	2856	3495	3.003	5.005	12.46	19.82	28.53	
<b>SOV 775B</b> Height 775mm	663	504	659	0.628	1.046	2.60	4.14	7.93
	867	728	951	0.850	1.417	3.53	5.61	10.38
	1072	952	1243	1.062	1.771	4.41	7.01	12.84
	1278	1175	1536	1.285	2.142	5.33	8.48	15.29
	1483	1400	1828	1.497	2.495	6.21	9.88	17.75
	1688	1627	2124	1.709	2.849	7.09	11.28	20.21
	1892	1850	2416	1.921	3.202	7.97	12.68	22.66
	2096	2073	2708	2.144	3.573	8.90	14.15	25.10
	2301	2298	3002	2.361	3.935	9.80	15.59	27.56
	2506	2522	3294	2.573	4.289	10.68	16.99	30.02
	2710	2746	3586	2.791	4.651	11.58	18.42	32.47
2915	2970	3878	3.003	5.005	12.46	19.82	34.93	

Order Code = Model + Length - Emitter Type eg SOV625B1483-3H2W

## Sovereign Anti Ligature and Security Features

The Autron Sovereign range of radiators is a robust LST with no easily removable parts. Anti ligature and additional security features are available for all the Sovereign range.



Enhanced safety 3mm thick steel casings are available.

### Anti Ligature Grilles

Anti Ligature Grilles consist of a stainless steel mesh which is securely sandwiched in place by a backing plate riveted through the complete grille. This mesh is designed to eliminate the possibility of inserting any object to cause harm and to prevent the hiding of contraband inside the radiator casing.

These are mounted on the inlet and outlet grilles. As these are an obstruction to the airflow, the output of the radiator is reduced by approximately 20%.

### Additional Security

Additional security features include the use of tamper resistant hexagonal head screws which need a special Allen key to be undone.

### Valve Options

To prevent the valve head being used to attach any object, we would normally recommend the use of the VK3 valve set which is an internal TRV with a remote phial placed inside the radiator cover at low level to detect the inlet air temperature. This option requires the removal of the grilles or casing to adjust the valve setting.

A shrouded cover can be used to attach a standard VK4 valve head to the outside of the casing. The cover is secured from the inside of the radiator to prevent unauthorised removal. This provides the occupant with the ability to control the radiator whilst preventing the attachment of a cord or wire around the valve head. This cover can be adapted to fit onto a standard recessed electrical box for remote mounting.

Autron Sovereign radiators using these features have been installed in prisons and secure establishments for many years.