

Victorian 4 Column Cast Iron Radiator

The plain four-column pattern of the late Victorian house · five heights, 353 to 935 mm



The Victorian 4 column is the classic British cast iron radiator: square-shouldered columns and a plain face, true to the radiators fitted in houses, schools and institutions from the 1880s onwards.

Its restraint is its strength. The plain pattern sits quietly against panelled joinery, lime plaster and original fireplaces, and it is the pattern conservation officers usually prefer where a radiator is to be replaced or introduced in a listed building.

Choosing a height

The 353 mm height fits beneath low sills, window seats and bay windows. The 485 and 636 mm heights suit most sash windows in bedrooms and reception rooms. The 785 and 935 mm heights give the most heat per metre of wall on halls, landings and pier walls.

Boilers and heat pumps

Outputs are published at $\Delta T50$, which suits a conventional boiler. At the $\Delta T30$ typical of a heat pump each section gives about half its rated output, so size each radiator at the temperature the system will actually run at. The mass of cast iron suits long, steady, low-temperature running.



At a glance

Pattern	Plain four-column, square-shouldered, late Victorian
Heights	353, 485, 636, 785 and 935 mm on integral feet
Depth	140 mm (four columns)
Output	40.8 to 116.4 W per section at $\Delta T50$
Sections	3 to 30 per radiator; factory built up to 20 (17 at 935 mm)
Test standard	Outputs to BS EN 442
Pressure	6 bar working, 7.8 bar test
Connections	½" BSP; plugs, bushes and air vent supplied
Mounting	Integral feet with wall ties as standard; wall-hung to order
Finish	Primer for site painting, or one of 13 factory colours
Guarantee	10 years against manufacturing defects

Finishes

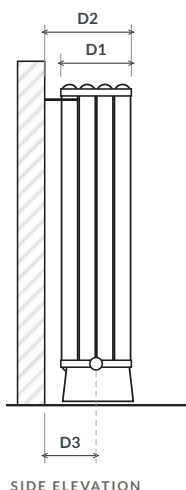
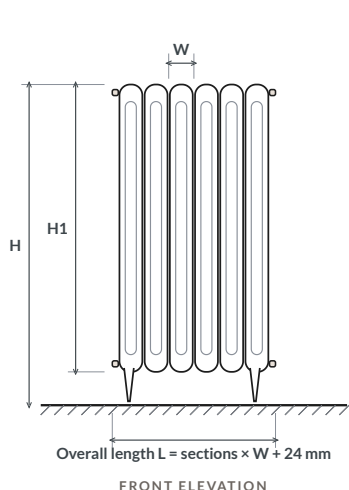
Primer is the usual choice on conservation work: the radiator arrives ready to be painted on site, so it can match the room's joinery or a historic scheme in the same paint system. Lead time is typically 14 days.

Factory colour arrives finished and ready to fit, typically in two to three weeks:

Slate Grey	Jet Black	Ruby Red	Ultramarine Blue	Cobalt Blue	Steel Blue	Bronze
Grass Green	Grey Aluminium	Moss Green	Pearl Dark Grey	Gun Metal	Light Grey	

Do not powder coat. Powder coating invalidates the guarantee. Inset image illustrative, shown in primer.

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KEY · ALL DIMENSIONS IN mm

H	Height on integral feet 353 · 485 · 636 · 785 · 935 mm
H1	Height wall-hung (no feet) 288 · 420 · 570 · 720 · 870 mm
W	Section width 50 (353-636) · 55 (785-935) mm
D1	Depth of radiator 140 mm
D2	Wall to front face 172 or 182* mm
D3	Wall to pipe centre 102 or 112* mm

* depends on wall tie / bracket used · schematic, not to scale

Data by height

Height on feet H (mm)	Height wall-hung H1 (mm)	Section width W (mm)	Output per section ΔT50 (W)	Output per section ΔT30 (W)	Dry weight per section (kg)	Water content per section (L)	Max factory- built sections	Tuscan code
353	288	50	40.8	21.0	2.58	0.40	20	V4-35
485	420	50	58.2	30.0	3.19	0.49	20	V4-48
636	570	50	75.4	38.8	4.19	0.60	20	V4-63
785	720	55	98.3	50.6	5.17	0.85	20	V4-78
935	870	55	116.4	59.9	6.54	0.97	17	V4-93

Radiator output by number of sections

Sections	Overall length L (mm)		Height H (mm)				
	W 50	W 55	353	485	636	785	935
4	224	244	163	233	302	393	466
6	324	354	245	349	452	590	698
8	424	464	326	466	603	786	931
10	524	574	408	582	754	983	1,164
12	624	684	490	698	905	1,180	1,397
15	774	849	612	873	1,131	1,474	1,746
20	1,024	1,124	816	1,164	1,508	1,966	2,328

Any number of sections from 3 to 30. Outputs to BS EN 442 at 75/65/20 °C. W 50 applies to 353-636 mm heights, W 55 to 785-935 mm.

Correction

Mean ΔT	Factor
ΔT30	0.515
ΔT35	0.629
ΔT40	0.748
ΔT45	0.872
ΔT50	1.000
ΔT55	1.132
ΔT60	1.267

Multiply ΔT50 output by the factor. Exponent n = 1.3.

Mounting and fixing

Sections	Feet (floor-standing)	Brackets (wall-hung)
3 to 17	2, one at each end	4
18 to 20	2, one at each end	6
21 to 30	3 (odd) or 4 (even)	6

- Floor-standing on integral feet with wall ties as standard.
- Wall-hung version must be specified when ordering; ¾" connections available on request.
- Radiators over the factory-built limit are joined on site.
- Bottom opposite-end connections: add 24 mm to L for the bushes; top and bottom same end: add 12 mm plus valves.
- Allow ±2 mm tolerance per section; set valve tails once the radiator is on site.
- Closed heating systems only. Flush and dose with inhibitor to BS EN 12828 and BS 7593.
- Valves sold separately: Kentwell and Chartwell angled valve sets.

Model specification clause

Cast iron radiators: Tuscan Foundry Products Victorian 4 column cast iron radiator, plain pattern, outputs tested to BS EN 442.

Height: 353 / 485 / 636 / 785 / 935 mm on integral feet or wall-hung on brackets.

Depth: 140 mm. Sections: ; overall length mm.

Output: W at ΔT50 / W at design ΔT.

Finish: factory primer for site painting or factory colour .

Connections: ½" BSP with plugs, bushes and air vent. Working pressure 6 bar.

Valves: Tuscan Foundry Kentwell / Chartwell angled valve set, finish .

Install to manufacturer's instructions. Do not powder coat.

Send us room heat losses and we will prepare a radiator schedule: section counts, lengths and outputs at boiler and heat pump temperatures. Call 0333 987 4452.