



Decoral® Range

High output, low water content die cast aluminium radiators



Features and Benefits

- *Lightweight, low water content construction*
- *Modular – Assembled to specified lengths/outputs*
- *Electric Models*
- *Horizontal & Vertical Models*
- *Energy savings of 10-30% compared to standard panel radiators.*
- *Quicker reaction times of heating/cooling offering greater comfort*
- *Made from 100% recycled/recyclable material*
- *Maximum working pressure 16 bar (24 bar test)*

Models: Horizontal & Vertical

Outputs per section: 92 - 324 watts

Heights: 407, 557, 657, 757, 966, 1066, 1266, 1466, 1666, 1866 and 2066mm

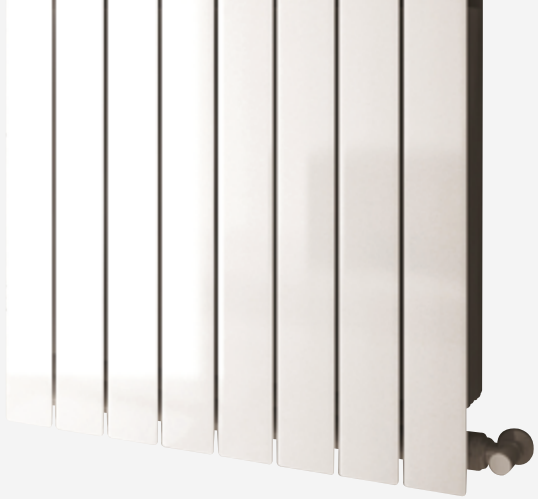
Widths: 260 - 2020mm

Depth: 97mm Horizontal models, 90mm Vertical models

Finish: RAL 9010 Warm White (other colours available for non-electric models)



Why aluminium?



First impressions and finishing touches really do make a difference – especially when selling a property. With this in mind, MHS Radiators has introduced a range of outstanding aluminium models especially for new build properties, suitable for all styles of homes and interiors.

Boasting significantly lower water content than standard steel panel radiators, aluminium radiators are already established as the heat emitters of choice by house builders and developers all over Southern Europe – and now they are readily available in the UK.

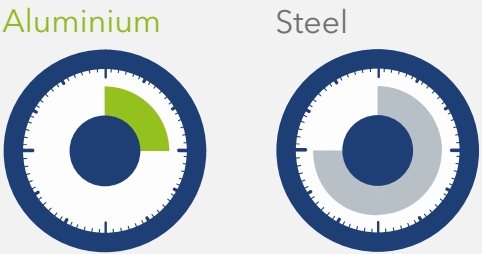
Indeed, the Decoral range from MHS offers energy savings of up to 30% when compared to standard panel radiators, while a low thermal inertia ensures aluminium models heat up and cool down faster than their steel counterparts, thereby offering greater levels of comfort.

The attractive Decoral is a lightweight, high output radiator ideal for use with heat pumps and other renewable heating technologies. Plus, with condensing boilers now being installed in the latest housing developments, using aluminium radiators alongside them allows the heating system to run at optimum efficiency.



Heat up time to 80°C

Due to low thermal inertia, an aluminium radiator heats up approximately three times faster than an ordinary steel panel radiator.



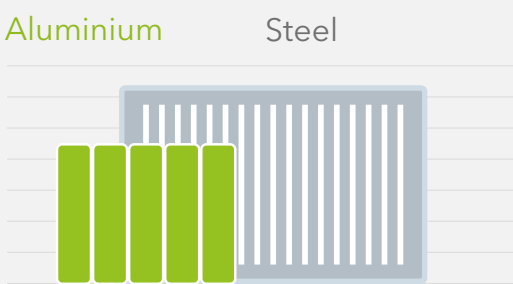
Water content comparison*



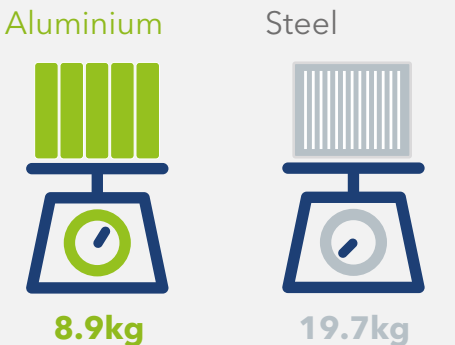
*(Using a 600mm x 800mm single panel, single fin steel radiator with the same output as an example.)

Flexibility in sizing

Aluminium radiator (428mm x 640mm) is 30% smaller than a standard 600mm x 800mm single panel, single fin steel radiator with the same output.



Weight comparison*



*(Using a 600mm x 800mm single panel, single fin steel radiator with the same output as an example.)

Cost saving benefits to the developer

	Alu	Steel
Light & easy to handle, save £000's on installation costs	✓	✗
Higher outputs means smaller/fewer radiators required	✓	✗

Marketing benefits for the developer

You will be able to market your property with the following advantages:

	Alu	Steel
10-year guarantee	✓	✗
10-30% lower heating costs	✓	✗
Highly durable long lasting finish	✓	✗
Faster heat up time	✓	✗
Efficient & maintenance free	✓	✗
Visually appealing	✓	✗
Optimising latest condensing boiler technology	✓	✗
Space saving - frees up valuable wall space	✓	✗
Space saving - similar outputs from a far smaller radiator	✓	✗
Environmentally friendly - 100% recyclable	✓	✗

Key benefits

kg kg
Lightweight

Low water content

100% Recyclable

One man lift

Compatible with renewables

ECO
Environmentally friendly

5 min
Fast heat-up

£
Save on heating costs

Electric options

Operates at low water temperatures

Efficient conductivity

Space saving

Decoral® 97



Aluminium radiators are the products of choice for heating engineers all over Southern Europe - and now they are readily available in the UK. The Decoral 97 from MHS brings together the superb benefits of aluminium with designer style to create a highly practical and beautiful heat emitter.

The Decoral 97 range with its low water content and a high output to size ratio make it absolutely ideal for lower temperature systems, its lightweight also makes it a perfect choice for installation on dry lined walls.

The sectional design of the Decoral 97 range ensures exact matching to the required outputs. Supplied in RAL 9010 Warm White as standard, with other colours available on request. Each Decoral 97 radiator carries a 10-year guarantee.

Optional end panels	
Code	For model height (mm)
DEC97-EPR-350	407
DEC97-EPR-500	557
DEC97-EPR-600	657
DEC97-EPR-700	757

End panels are available at an additional cost

Decoral 97 (Per section data)

	Height (mm)			
	407	557	657	757
Height A (mm)	407	557	657	757
Centres B (mm)	350	500	600	700
Depth C (mm)	97	97	97	97
Width D (mm)	80	80	80	80
Weight (kg)	1.12	1.34	1.51	1.92
Water Content (litres)	0.24	0.26	0.30	0.36
Max Factory Sections	25	25	25	25
Max Working Pressure	16 bar	16 bar	16 bar	16 bar
Max Test Pressure	24 bar	24 bar	24 bar	24 bar

Decoral 97 (Built radiator information - outputs - EN442 Δt 50°C)

Width mm (including bushes)	Sections	Height (mm)				
		407	557	657	757	
260	3	DEC97-B-350-03	DEC97-B-500-03	DEC97-B-600-03	DEC97-B-700-03	Code
		277	359	431	488	Output (w)
340	4	DEC97-B-350-04	DEC97-B-500-04	DEC97-B-600-04	DEC97-B-700-04	Code
		370	478	574	650	Output (w)
420	5	DEC97-B-350-05	DEC97-B-500-05	DEC97-B-600-05	DEC97-B-700-05	Code
		462	598	718	813	Output (w)
500	6	DEC97-B-350-06	DEC97-B-500-06	DEC97-B-600-06	DEC97-B-700-06	Code
		554	717	861	975	Output (w)
580	7	DEC97-B-350-07	DEC97-B-500-07	DEC97-B-600-07	DEC97-B-700-07	Code
		647	837	1005	1138	Output (w)
660	8	DEC97-B-350-08	DEC97-B-500-08	DEC97-B-600-08	DEC97-B-700-08	Code
		739	956	1148	1300	Output (w)
740	9	DEC97-B-350-09	DEC97-B-500-09	DEC97-B-600-09	DEC97-B-700-09	Code
		832	1076	1292	1463	Output (w)
820	10	DEC97-B-350-10	DEC97-B-500-10	DEC97-B-600-10	DEC97-B-700-10	Code
		924	1195	1435	1625	Output (w)
900	11	DEC97-B-350-11	DEC97-B-500-11	DEC97-B-600-11	DEC97-B-700-11	Code
		1016	1315	1579	1788	Output (w)
980	12	DEC97-B-350-12	DEC97-B-500-12	DEC97-B-600-12	DEC97-B-700-12	Code
		1109	1434	1722	1950	Output (w)
1060	13	DEC97-B-350-13	DEC97-B-500-13	DEC97-B-600-13	DEC97-B-700-13	Code
		1201	1554	1866	2113	Output (w)
1140	14	DEC97-B-350-14	DEC97-B-500-14	DEC97-B-600-14	DEC97-B-700-14	Code
		1294	1673	2009	2275	Output (w)
1220	15	DEC97-B-350-15	DEC97-B-500-15	DEC97-B-600-15	DEC97-B-700-15	Code
		1386	1793	2153	2438	Output (w)
1300	16	DEC97-B-350-16	DEC97-B-500-16	DEC97-B-600-16	DEC97-B-700-16	Code
		1478	1912	2296	2600	Output (w)
1380	17	DEC97-B-350-17	DEC97-B-500-17	DEC97-B-600-17	DEC97-B-700-17	Code
		1571	2032	2440	2763	Output (w)
1460	18	DEC97-B-350-18	DEC97-B-500-18	DEC97-B-600-18	DEC97-B-700-18	Code
		1663	2151	2583	2925	Output (w)
1540	19	DEC97-B-350-19	DEC97-B-500-19	DEC97-B-600-19	DEC97-B-700-19	Code
		1756	2271	2727	3088	Output (w)
1620	20	DEC97-B-350-20	DEC97-B-500-20	DEC97-B-600-20	DEC97-B-700-20	Code
		1848	2390	2870	3250	Output (w)
1700	21	DEC97-B-350-21	DEC97-B-500-21	DEC97-B-600-21	DEC97-B-700-21	Code
		1940	2510	3014	3413	Output (w)
1780	22	DEC97-B-350-22	DEC97-B-500-22	DEC97-B-600-22	DEC97-B-700-22	Code
		2033	2629	3157	3575	Output (w)
1860	23	DEC97-B-350-23	DEC97-B-500-23	DEC97-B-600-23	DEC97-B-700-23	Code
		2125	2749	3301	3738	Output (w)
1940	24	DEC97-B-350-24	DEC97-B-500-24	DEC97-B-600-24	DEC97-B-700-24	Code
		2218	2868	3444	3900	Output (w)
2020	25	DEC97-B-350-25	DEC97-B-500-25	DEC97-B-600-25	DEC97-B-700-25	Code
		2310	2988	3588	4063	Output (w)

Note: Manufacturing tolerance of +/- 0.6mm per section.

Decoral® Vertical

The Decoral Vertical from MHS Radiators is perfect for areas where wall space is at a premium, thanks to its slender and practical design.

Made from versatile and energy efficient aluminium, this futuristic, die-cast sectional radiator is available in seven heights from 966mm to 2066mm and widths ranging from 260mm to 660mm, utilising an 80mm sectional design.

Decoral Vertical is easy to handle during transportation and installation, while benefitting from higher outputs for its size when compared to many conventional panel radiators - allowing for smaller models to be fitted while still achieving a comfortable temperature. Its modular design ensures exact sizing according to the required output, and makes for easy installation.

A modern, high performance radiator, the Decoral Vertical is supplied in RAL 9010 Warm White as standard, with other colours available on request. All models benefit from a 10-year guarantee.



Decoral Vertical (Per section data)

	Height (mm)						
	966	1066	1266	1466	1666	1866	2066
Height A (mm)	966	1066	1266	1466	1666	1866	2066
Centres B (mm)	900	1000	1200	1400	1600	1800	2000
Depth C (mm)	90	90	90	90	90	90	90
Width D (mm)	80	80	80	80	80	80	80
Weight (kg)	1.96	2.20	2.50	2.80	3.00	3.40	3.80
Water Content (litres)	0.43	0.47	0.55	0.62	0.70	0.78	0.86
Max Factory Sections	8	8	8	8	8	8	8
Max Working Pressure	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar
Max Test Pressure	24 bar	24 bar	24 bar	24 bar	24 bar	24 bar	24 bar

Decoral Vertical (Built radiator information - outputs - EN442 Δt 50°C)

Width (mm) including bushes	Sections	Height (mm)				
		966	1066	1266	1466	
260	3	FDEC900-B-03	FDEC1000-B-03	FDEC1200-B-03	FDEC1400-B-03	Code
		546	585	669	750	Output (w)
340	4	FDEC900-B-04	FDEC1000-B-04	FDEC1200-B-04	FDEC1400-B-04	Code
		728	780	892	1000	Output (w)
420	5	FDEC900-B-05	FDEC1000-B-05	FDEC1200-B-05	FDEC1400-B-05	Code
		910	975	1115	1250	Output (w)
500	6	FDEC900-B-06	FDEC1000-B-06	FDEC1200-B-06	FDEC1400-B-06	Code
		1092	1170	1338	1500	Output (w)

Width (mm) including bushes	Sections	Height (mm)			
		1666	1866	2066	
260	3	FDEC1600-B-03	FDEC1800-B-03	FDEC2000-B-03	Code
		825	900	972	Output (w)
340	4	FDEC1600-B-04	FDEC1800-B-04	FDEC2000-B-04	Code
		1100	1200	1296	Output (w)
420	5	FDEC1600-B-05	FDEC1800-B-05	FDEC2000-B-05	Code
		1375	1500	1620	Output (w)
500	6	FDEC1600-B-06	FDEC1800-B-06	FDEC2000-B-06	Code
		1650	1800	1944	Output (w)
580	7	-	FDEC1800-B-07	-	Code
		-	2100	-	Output (w)
660	8	-	FDEC1800-B-08	-	Code
		-	2400	-	Output (w)

Note: If larger radiators are required than shown in the table above, please contact our sales office.

Decoral® Electric WiFi



Key features include:

- Aluminium alloy body with low thermal inertia with integrated aluminium side panels
- Manageable remotely via Android & Apple smartphones
- Daily and weekly programming with start-up adaptive control
- Consumption display
- Built-in back-lit LCD interface
- NTC temperature probe and electronic temperature regulation
- Colour: White RAL 9010



Code	Output (watts)	Voltage (V)	Frequency (Hz)	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	No. of sections
FDEC500-04EW	750	230	50/60	583	390	80	8	4
FDEC500-05EW	1000	230	50/60	583	470	80	9.9	5
FDEC500-07EW	1250	230	50/60	583	630	80	13.7	7
FDEC500-09EW	1500	230	50/60	583	790	80	17.1	9
FDEC500-11EW	1800	230	50/60	583	950	80	19.7	11

Electrical components carry a 2-year warranty.



Domus One App

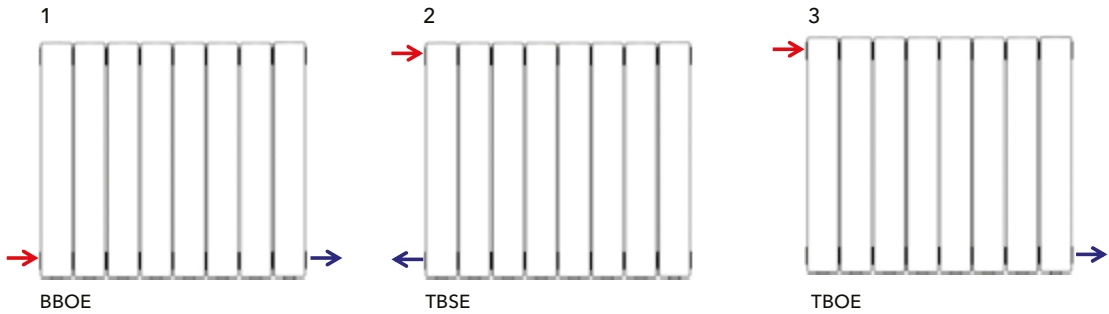
- Set the temperatures of each operating mode
- Set a weekly schedule for each thermostat
- Turn on and off all functions of each thermostat
- Conveniently organise your thermostats into groups
- Monitor the performance of your heating system



Control panel.

Decoral®

Connection options



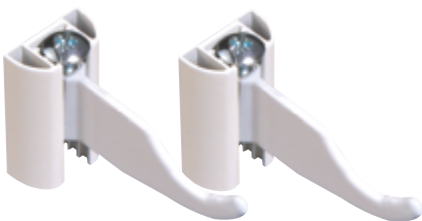
MHS colours

RAL 9016 Traffic White (semi-gloss)	RAL 9010 Warm White (semi-gloss)	RAL 9001 Cream White (semi-gloss)	RAL 1013 Pearl White (semi-gloss)	RAL 7035 Light Grey (semi-gloss)	RAL 7015 Slate Grey (semi-gloss)
RAL 7016 Anthracite Grey (semi-gloss)	RAL 7016 Anthracite Grey (matt)	RAL 3003 Flame Red (semi-gloss)	RAL 9007 Grey Aluminium (semi-gloss)	RAL 9023 Pearl Dark Grey (semi-gloss)	Black (matt)
Anthracite (matt)	Light Old Penny (matt)	Dark Old Penny (matt)	Natural Cast Iron (matt)	Pewter (matt)	Antique Gold (matt)
Bronze (gloss)	Gun Metal (matt)	Beaten Brass (semi-gloss)			

Due to the limitations of the printing process, finished product colour may vary from this publication. If you would like a colour swatch, please contact head office.

Standard Wall Bracket

(Horizontal & Vertical Models)



COLOUR MATCHING

If you're looking for a colour other than those shown in our colour chart, we can finish your radiator to any RAL colour in gloss, semi-gloss or matt finish.

We also offer a colour match to most designer paint brands.

Colours outside of our colour chart carry a €50.00 ex VAT (€61.50 inc VAT) special mixing charge (per colour).

Valves

Optional Studio Valves

The dynamic Studio Valve represents unrivalled aesthetics and value, combining gleaming futuristic sophistication and engineered precision.



Studio TRV (15mm)
Code: VLVST-ACTRV



Studio TRV (1/2" BSP)
Code: VLVST-ACTRV-BSP

Optional Sterling Valves

The simple and elegant Sterling Valve is a cost effective alternative, which still delivers reliable performance.



Sterling TRV Angled (15mm)
Code: VLVSTE-ACTRV

Sterling TRV Angled (1/2" BSP)
Code: VLVSTE-ACTRV-BSP

Δt	CF
60	1.267
59	1.24
58	1.213
57	1.186
56	1.159
55.5	1.145
55	1.132
54	1.105
53	1.079
52	1.052
51	1.026
50	1.000
45	0.872
40	0.748
35	0.629

Correction factor table

The outputs shown within this brochure are based on BS EN442, 75-65-20°C operating conditions, giving a Δt of 50°C, for Δt s other than this, a correction factor must be applied. This correction factor table assumes an averaged exponent of 1.30.

If a more accurate exponent / correction factor is required, please contact MHS Radiators.

Example: Output required @ 82-71-21°C Δt 55.5 the CF = 1.145, therefore multiply the listed output by the correction factor to give actual radiator output under these operating conditions.

Water treatment: These products are for use on closed heating systems only; they are not suitable for installation on secondary HWS circuits. On completion of the installation the entire system MUST be thoroughly cleaned and flushed to remove debris/flux residues etc. If a chemical cleanser is used, it must be thoroughly flushed from the system. Following this, the system MUST be dosed with a good eminence water treatment to prevent corrosion. System design, flushing and dosing must be in accordance with BS 5449: 1990, BS EN 12828 & 12831: 2003 and BS 7593: 2006

IMPORTANT: Failure to observe these requirements will render the guarantee on the product void.

Corrosion inhibitor must be used in accordance with the manufacturer's instructions and recommendations and should take into account the particular metals within the system.

This publication is issued subject to alteration or withdrawal without notice. The illustrations and specifications are not binding in detail.



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