

Decoral Range

High output, low water content die cast aluminium radiators



- Quicker reaction times of heating/cooling offering greater comfort
- Made from 100% recycled/recyclable material
- Maximum working pressure 6 bar (test 8 bar)

Models: Horizontal & Vertical Outputs Per Section: 92.0 – 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 Decoral 97 and Vertical 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.

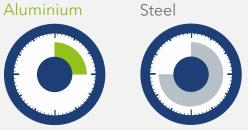
Indeed, the Decoral range from MHS offers energy savings of up to 30% when compared to standard panel radiators, while a low thermal inertia ensures aluminium models heat up and cool down faster than their steel counterparts, thereby offering greater levels of comfort.

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*

Aluminium

Steel





2.16 litres 4.1 litres *(Using a 600mm x 800mm single panel, single fin steel radiator with the same output as an example.)

Key benefits











heating costs







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*

Aluminium





Steel

8.9kg

19.7kg *(Using a 600mm x 800mm single panel, single fin steel radiator with the same output as an example.)



Efficient

conductivity



Operates at low water temperatures





Space saving

Cost saving benefits to the developer

	Alu	Steel
Light & easy to handle, save £000's on installation costs	v	X
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	~	X
10-30% lower heating costs	v	X
Highly durable long lasting finish	v	×
Faster heat up time	v	×
Efficient & maintenance free	v	X
Visually appealing	V	X
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	~	×

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.

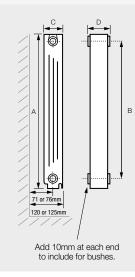
The Decoral 97 range with its low water content and a high output to size ratio make it absolutely ideal for lower temperature systems, its lightweight also makes it a perfect choice for installation on dry lined walls.

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						
-							

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Decoral 97 (Per section data)



	Heights mm					
	407	557	657	757		
Height A	407	557	657	757		
Centres B	350	500	600	700		
Depth C	97	97	97	97		
Width D	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 Length	25	25	25	25		
Max Working Pressure	6	6	6	6		
Max Test Pressure	8	8	8	8		

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

Width mm	c	Heights mm				
including bushes)	Sections	407	557	657	757	
260	3	DEC97-B-350-03	DEC97-B-500-03	DEC97-B-600-03	DEC97-B-700-03	Code
200	3	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
340	4	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
420	3	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
500	0	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
300	1	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
000	0	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
740	9	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
820	10	924	1195	1435	1625	Output (w)
000		DEC97-B-350-11	DEC97-B-500-11	DEC97-B-600-11	DEC97-B-700-11	Code
900	11	1016	1315	1579	1788	Output (w)
000	980 12	DEC97-B-350-12	DEC97-B-500-12	DEC97-B-600-12	DEC97-B-700-12	Code
980		1109	1434	1722	1950	Output (w)
40/0	1060 13	DEC97-B-350-13	DEC97-B-500-13	DEC97-B-600-13	DEC97-B-700-13	Code
1060		1201	1554	1866	2113	Output (w)
		DEC97-B-350-14	DEC97-B-500-14	DEC97-B-600-14	DEC97-B-700-14	Code
1140	14	1294	1673	2009	2275	Output (w)
4000	45	DEC97-B-350-15	DEC97-B-500-15	DEC97-B-600-15	DEC97-B-700-15	Code
1220	15	1386	1793	2153	2438	Output (w)
4000		DEC97-B-350-16	DEC97-B-500-16	DEC97-B-600-16	DEC97-B-700-16	Code
1300	16	1478	1912	2296	2600	Output (w)
4000	47	DEC97-B-350-17	DEC97-B-500-17	DEC97-B-600-17	DEC97-B-700-17	Code
1380	17	1571	2032	2440	2763	Output (w)
		DEC97-B-350-18	DEC97-B-500-18	DEC97-B-600-18	DEC97-B-700-18	Code
1460	18	1663	2151	2583	2925	Output (w)
		DEC97-B-350-19	DEC97-B-500-19	DEC97-B-600-19	DEC97-B-700-19	Code
1540	19	1756	2271	2727	3088	Output (w)
		DEC97-B-350-20	DEC97-B-500-20	DEC97-B-600-20	DEC97-B-700-20	Code
1620	20	1848	2390	2870	3250	Output (w)
		DEC97-B-350-21	DEC97-B-500-21	DEC97-B-600-21	DEC97-B-700-21	Code
1700	21	1940	2510	3014	3413	Output (w)
		DEC97-B-350-22	DEC97-B-500-22	DEC97-B-600-22	DEC97-B-700-22	Code
1780	22	2033	2629	3157	3575	Output (w)
		DEC97-B-350-23	DEC97-B-500-23	DEC97-B-600-23	DEC97-B-700-23	Code
1860	23	2125	2749	3301	3738	Output (w)
		DEC97-B-350-24	DEC97-B-500-24	DEC97-B-600-24	DEC97-B-700-24	Code
1940	24	2218	2868	3444	3900	Output (w)
		DEC97-B-350-25	DEC97-B-500-25	DEC97-B-600-25	DEC97-B-700-25	Code
2020	25	2310	2988	3588	4063	Output (w)

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

Codes in red are available with 10 bar working pressure 13 bar test (to be specified with order) at 20% additional cost.

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.

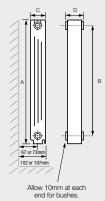
Decoral Vertical is easy to handle during transportation and installation, while benefitting from higher outputs for its size when compared to many conventional panel radiators - allowing for smaller models to be fitted while still achieving a comfortable temperature. Its modular design ensures exact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



		Heights mm					
	966	1066	1266	1466	1666	1866	2066
Height A	966	1066	1266	1466	1666	1866	2066
Centres B	900	1000	1200	1400	1600	1800	200
Depth C	90	90	90	90	90	90	90
Width D	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 Length	8	8	8	8	8	8	8
Max Working Pressure	10	10	10	10	10	10	10
Max Test Pressure	13	13	13	13	13	13	13

Max Test Pressure1313131313131313Decoral Vertical (Built radiator information - outputs - EN442 Δt 50°C)

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Width mm including Sections			Heights mm						
bushes	Sections	966	1066	1266	1466				
260	3	FDEC900-B-03	FDEC1000-B-03	FDEC1200-B-03	FDEC1400-B-03	Code			
200	3	546	585	669	750	Output (w)			
340	4	FDEC900-B-04	FDEC1000-B-04	FDEC1200-B-04	FDEC1400-B-04	Code			
340	4	728	780	892	1000	Output (w)			
420	5	FDEC900-B-05	FDEC1000-B-05	FDEC1200-B-05	FDEC1400-B-05	Code			
420		910	975	1115	1250	Output (w)			
500	6	FDEC900-B-06	FDEC1000-B-06	FDEC1200-B-06	FDEC1400-B-06	Code			
500	0	1092	1170	1338	1500	Output (w)			
580	7	FDEC900-B-07	FDEC1000-B-07	FDEC1200-B-07	FDEC1400-B-07	Code			
560	1	1274	1365	1561	1750	Output (w)			
660	8	FDEC900-B-08	FDEC1000-B-08	FDEC1200-B-08	FDEC1400-B-08	Code			
000	0	1456	1560	1784	2000	Output (w)			

Width mm	c .:		ım				
including bushes	Sections	1666	1866	2066			
260	3	FDEC1600-B-03	FDEC1800-B-03	FDEC2000-B-03	Code		
200	3	825	900	972	Output (w)		
340	4	FDEC1600-B-04	FDEC1800-B-04	FDEC2000-B-04	Code		
340	4	4	1100	1200	1296	Output (w)	
420	5	FDEC1600-B-05	FDEC1800-B-05	FDEC2000-B-05	Code		
420		5	5	5	1375	1500	1620
500	6	FDEC1600-B-06	FDEC1800-B-06	FDEC2000-B-06	Code		
500		1650	1800	1944	Output (w)		
580	7	FDEC1600-B-07	FDEC1800-B-07	FDEC2000-B-07	Code		
580	/	1925	2100	2268	Output (w)		
660	8	FDEC1600-B-08	FDEC1800-B-08	FDEC2000-B-08	Code		
660	ð	2200	2400	2592	Output (w)		

Decoral Electric



Key features include:

- Aluminium alloy body with low thermal inertia with integrated aluminium side panels
- LCD backlit control system with easy-to-reach buttons and digital display
- Detachable humidifier fitted in the left side of the radiator
- IP24 protection rated with class II insulation and NTC temperature probe
- Electronic temperature regulation via Pl controller
- Daily and weekly programming options
- Multiple operating modes, including: Programming/Comfort/Night/Freeze protection/Holiday/Boost/Eco/Stand-by
- Supplied with 3 Pin UK Plug
- Open window detection function



Decoral Electric

Code	Sections	Height mm	Width mm	Depth mm	Output Watts	Weight kg
FDEC500-05E	5	578	560	80	600	13.0
FDEC500-06E	6	578	640	80	1000	14.5
FDEC500-09E	9	578	880	80	1200	20.0
FDEC500-10E	10	578	960	80	1500	22.0
FDEC500-11E	12	578	1120	80	1800	26.0

Electrical components carry a 2-year warranty.



Decoral Electric Eco



Key features include:

- Aluminium alloy body with low thermal inertia
- IP24 protection rated with class II insulation and NTC temperature probe
- Electronic temperature regulation
- Open window detection function
- Operating modes: Comfort/Reduced temperature/Antifreeze/ Stand-by/Pilot wire mode
- Hourly and weekly programmable time frame
- Displayed consumption
- Child safety lock

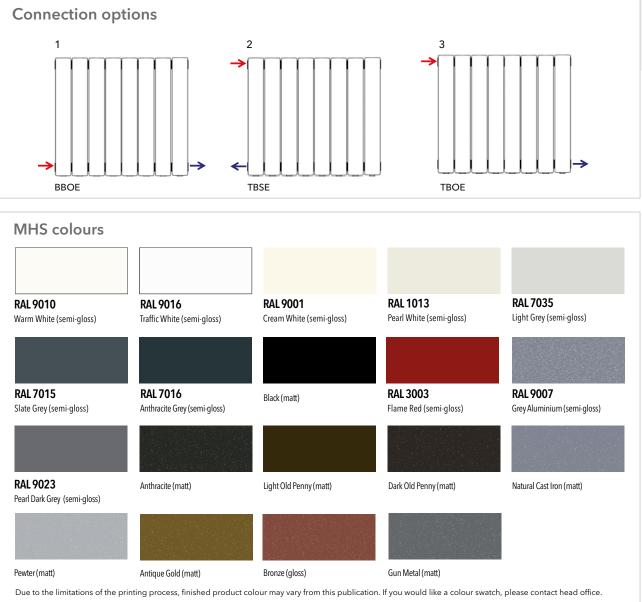


Decoral Electric Eco

Code	Sections	Height mm	Width mm	Depth mm	Output Watts	Weight kg
FDEC350-07EM	7	427	605	97	1000	10.50
FDEC350-12EM	12	427	1005	97	1500	17.20
FDEC350-13EM	13	427	1085	97	1800	18.50
FDEC500-04EM	4	578	365	80	700	7.20
FDEC500-06EM	6	578	525	80	1000	10.70
FDEC500-09EM	9	578	765	80	1200	16.00
FDEC500-10EM	10	578	845	80	1500	17.60
FDEC500-12EM	12	578	1120	80	1800	21.00
FDEC500-14EM	14	578	1280	80	2000	24.20

Electrical components carry a 2-year warranty.

Decoral



Other colours We can also offer any RAL colour. Please call head office to confirm price and availability.



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

Optional Sterling Valves

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



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

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

The outputs shown within this brochure are based on BS EN442, 75-65-20°C operating conditions, giving a Δt of 50°C, for Δts 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 Δ t 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.











RADIATORS

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