



Multisec

Laser welded tubular steel column radiators



Features and Benefits

- *Modular - Manufactured to specified lengths/outputs*
- *Finishes - RAL9016 Traffic White, plus 78 exclusive colours*
- *Fully laser welded using latest technology*
- *Complete radiators supplied - No need for any on-site assembly*
- *Mounting Options - Wall brackets and floor supports to suit any application*
- *Connections - For flexibility multisec can be specified in 8 different configurations*
- *Curved radiators now available on application*

Models: 2, 3, 4, 5 and 6 column

Outputs per section: 17.5 - 403.4 watts

Maximum working pressure: 10 bar (test 13 bar)

Heights: 207 - 2500mm

Depths: 66, 107, 148, 189 and 230mm

Types: Wall mounted or floor mounted with welded or slip-on feet



Multisec Wall

From one basic cylindrical column concept, the Multisec offers a variety of options. This smart range of elegant and efficient radiators allows an architect or designer to provide highly versatile heating solutions without ever compromising on style.

An asset anywhere, Multisec is a stylish contemporary radiator based on a traditional theme. Lighter than cast iron, Multisec spans the gap between contemporary and classic, equally at home in either application.

Multisec is available in 5 depths from 2 to 6 columns and 15 heights. It is fabricated from 25mm diameter tubes with a wall thickness of 1.2mm and 1.5mm headers.



Multisec radiators are made up of sections supplied as fully assembled blocks with factory built sizes from 3 to 40 sections as standard.

Multisec Wall is available with a variety of fixing/mounting options and can therefore be configured to suit almost any application. Note: it is recommended that floor mounted models with welded feet still utilise the wall retaining stays supplied.

All radiators have a maximum working pressure of 10 bar (test 13 bar) and carry a 5 year guarantee against manufacturing defect. Standard colour is 9016 Traffic White. There are however 78 exclusive colours and special finishes also available and a comprehensive colour matching service is also offered.

Physical colour charts are available on request.

IMPORTANT: Do not powder coat this product. Failure to observe this will render the warranty void.

Multisec Floor (welded feet)



The Multisec Floor is a cost-effective alternative to cast iron radiators, utilising fixed, welded feet for floor-mounting. Its lightweight, column-style design is perfect for period or contemporary interiors. The versatile, sectional construction also allows for the creation of an infinite number of variations and heat outputs.

These elegant radiators are available in factory-welded configurations in depths of either 2, 3, 4, 5 or 6 columns, offering build quality of the highest standard. In addition, MHS Radiators offers a full range of complementary accessories, including angled valves and TRVs.

Each radiator is professionally painted, enabling them to be easily matched to a wide mixture of decors. Models are supplied from stock in RAL 9016 Traffic White powder coated finish with further RAL colours available to order.



3 Column

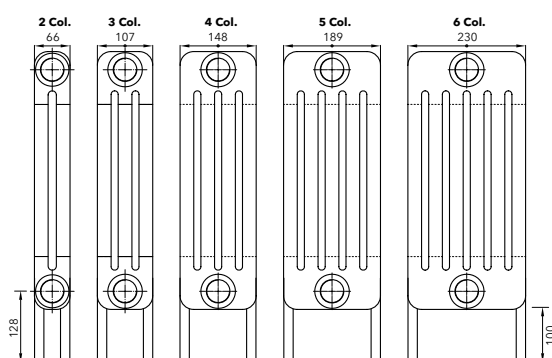


4 Column



6 Column

Welded feet



Feet positions/ numbers

Size	No. feet
Up to 20 Sections	2 Feet, one at each end
Odd numbers (21-49 Sections)	3 Feet, one at each end and one central
Even numbers (22-50 Sections)	4 Feet, one at each end and two evenly spaced

Radius Valves

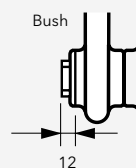


2 Column - 66mm depth (per section data)

Height (mm)	Centres (mm)	Weight (kg)	Water content (litres)	Max no of sections		Output (watts Δt 50°C)
				White & Colours	Bare Metal	
207	151	0.35	0.29	40	28	17.5
300	244	0.49	0.37	40	28	25.6
400	344	0.63	0.45	40	40	33.0
500	444	0.77	0.53	40	40	40.1
556	500	0.85	0.58	40	40	44.0
586	530	0.89	0.60	40	40	46.1
600	544	0.91	0.61	40	40	47.1
626	570	0.95	0.63	40	40	48.9
656	600	0.99	0.66	40	40	51.0
676	620	1.02	0.67	40	40	52.4
750	694	1.12	0.73	40	40	57.6
756	700	1.13	0.74	40	40	58.0
786	730	1.18	0.76	40	40	60.1
856	800	1.27	0.82	40	40	65.1
876	820	1.30	0.83	40	40	66.5
900	844	1.33	0.85	40	40	68.1
1000	944	1.48	0.93	40	40	75.2
1200	1144	1.76	1.09	35	35	89.5
1500	1444	2.18	1.33	35	35	111.4
1656	1600	2.40	1.46	35	35	123.1
1800	1744	2.60	1.58	35	35	134.1
1856	1800	2.69	1.62	35	35	138.4
2000	1944	2.89	1.74	30	30	149.8
2056	2000	2.98	1.78	30	30	154.2
2200	2144	3.17	1.90	30	30	165.9
2500	2444	3.59	2.40	25	25	190.9

Note - Add 100mm to height for models with welded feet.

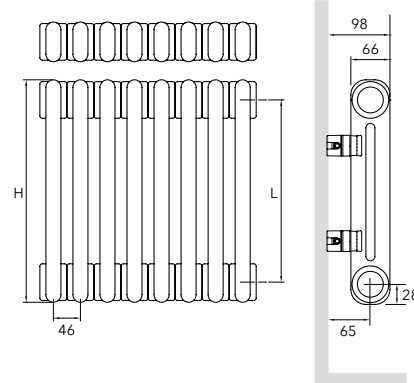
Calculate pipe centres



To calculate pipe centres
no. of sections x 46 add 24

Example

10 section = $46 \times 10 + 24 =$
484mm plus valves

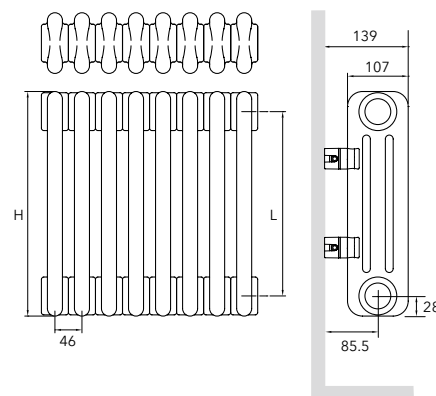


3 Column - 107mm depth (per section data)

Height (mm)	Centres (mm)	Weight (kg)	Water content (litres)	Max no of sections		Output (watts Δt 50°C)
				White & Colours	Bare Metal	
207	151	0.53	0.42	40	28	24.8
300	244	0.74	0.54	40	28	34.7
400	344	0.95	0.66	40	40	45.1
500	444	1.16	0.79	40	40	55.2
556	500	1.28	0.85	40	40	60.9
586	530	1.34	0.89	40	40	63.8
600	544	1.37	0.91	40	40	65.2
626	570	1.43	0.94	40	40	67.8
656	600	1.49	0.97	40	40	70.8
676	620	1.53	1.00	40	40	72.8
750	694	1.69	1.09	40	40	80.0
756	700	1.70	1.09	40	40	80.6
786	730	1.77	1.13	40	40	83.6
856	800	1.91	1.21	40	40	90.4
876	820	1.96	1.24	40	40	92.3
900	844	2.01	1.27	35	35	94.6
1000	944	2.22	1.39	35	35	104.3
1200	1144	2.64	1.63	35	35	123.5
1500	1444	3.28	1.99	25	25	151.9
1656	1600	3.61	2.18	25	25	166.7
1800	1744	3.91	2.35	22	22	180.2
1856	1800	4.04	2.42	22	22	185.5
2000	1944	4.33	2.59	22	22	199.0
2056	2000	4.47	2.66	22	22	204.3
2200	2144	4.76	2.83	18	18	217.8
2500	2444	5.39	3.19	18	18	245.9

Note - Add 100mm to height for models with welded feet.
Manufacturing Tolerance of +/-0.2mm per section.

Radiators over the stated maximum sections must be assembled on site.
Please contact our sales office for more information

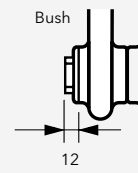


4 Column - 148mm depth (per section data)

Height (mm)	Centres (mm)	Weight (kg)	Water content (litres)	Max no of sections		Output (watts Δt 50°C)
				White & Colours	Bare Metal	
207	151	0.71	0.56	40	28	32.0
300	244	0.99	0.72	40	28	46.8
400	344	1.27	0.88	40	40	59.8
500	444	1.55	1.04	40	40	72.4
556	500	1.71	1.13	40	40	79.3
586	530	1.79	1.18	40	40	83.0
600	544	1.84	1.20	40	40	84.7
626	570	1.91	1.24	40	40	87.9
656	600	1.99	1.29	40	40	91.6
676	620	2.05	1.32	40	40	94.0
750	694	2.26	1.44	40	40	102.9
756	700	2.28	1.45	40	40	103.6
786	730	2.37	1.50	40	40	107.2
856	800	2.56	1.61	35	35	115.6
876	820	2.61	1.65	35	35	118.0
900	844	2.68	1.68	35	35	120.8
1000	944	2.96	1.84	35	35	132.7
1200	1144	3.53	2.17	25	25	156.2
1500	1444	4.37	2.65	20	20	191.4
1656	1600	4.81	2.90	20	20	209.7
1800	1744	5.22	3.13	20	20	226.6
1856	1800	5.40	3.22	20	20	233.3
2000	1944	5.78	3.45	15	15	250.3
2056	2000	5.96	3.54	15	15	256.9
2200	2144	6.35	3.77	15	15	274.1
2500	2444	7.19	4.25	15	15	310.2

Note - Add 100mm to height for models with welded feet.

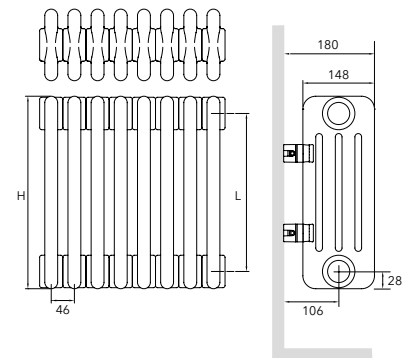
Calculate pipe centres



To calculate pipe centres
no. of sections x 46 add 24

Example

10 section = $46 \times 10 + 24 =$
484mm plus valves

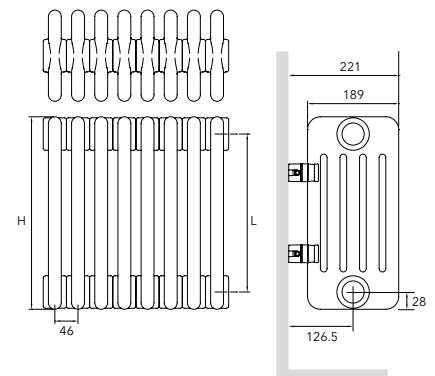


5 Column - 189mm depth (per section data)

Height (mm)	Centres (mm)	Weight (kg)	Water content (litres)	Max no of sections		Output (watts Δt 50°C)
				White & Colours	Bare Metal	
207	151	0.89	0.70	40	28	39.7
300	244	1.24	0.90	40	28	56.5
400	344	1.59	1.10	40	40	72.4
500	444	1.95	1.30	40	40	87.7
556	500	2.14	1.41	40	40	96.2
586	530	2.24	1.47	40	40	100.7
600	544	2.30	1.50	40	40	102.7
626	570	2.39	1.55	36	36	106.6
656	600	2.50	1.61	36	36	111.0
676	620	2.57	1.65	36	36	114.0
750	694	2.83	1.80	33	33	124.8
756	700	2.80	1.81	33	33	125.7
786	730	2.97	1.87	33	33	130.0
856	800	3.20	2.01	28	28	140.1
876	820	3.27	2.05	28	28	143.0
900	844	3.36	2.10	28	28	146.4
1000	944	3.71	2.30	20	20	160.6
1200	1144	4.41	2.70	15	15	188.8
1500	1444	5.47	3.30	15	15	230.4
1656	1600	6.02	3.62	15	15	251.9
1800	1744	6.53	3.91	12	12	271.6
1856	1800	6.75	4.02	12	12	279.3
2000	1944	7.23	4.31	12	12	299.0
2056	2000	7.45	4.42	12	12	306.7
2200	2144	7.94	4.71	12	12	326.4
2500	2444	9.00	5.31	12	12	367.4

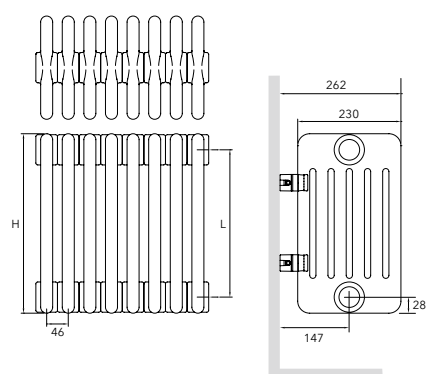
Note - Add 100mm to height for models with welded feet.
Manufacturing Tolerance of ± 0.2 mm per section.

Radiators over the stated maximum sections must be assembled on site.
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6 Column - 230mm depth (per section data)

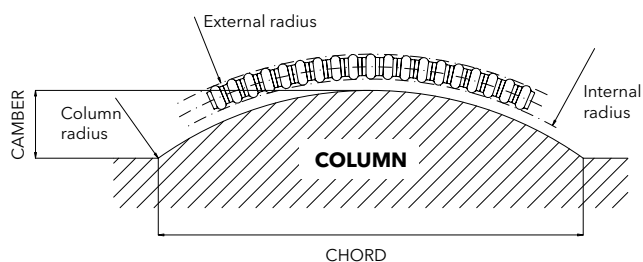
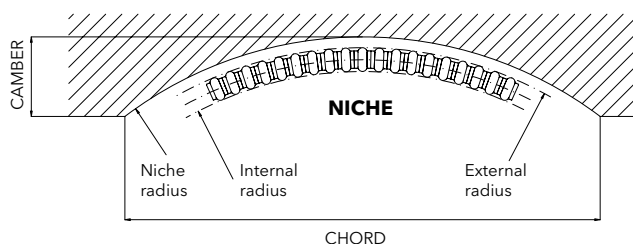
Height (mm)	Centres (mm)	Weight (kg)	Water content (litres)	Max no of sections		Output (watts Δt 50°C)
				White & Colours	Bare Metal	
207	151	1.07	0.80	40	28	48.7
300	244	1.49	1.10	40	28	67.7
400	344	1.92	1.30	40	40	87.3
500	444	2.34	1.60	40	40	106.2
556	500	2.58	1.70	35	35	116.5
586	530	2.70	1.77	35	35	121.9
600	544	2.76	1.80	35	35	124.5
626	570	2.87	1.85	30	30	129.1
656	600	3.00	1.90	30	30	134.5
676	620	3.09	2.00	23	23	138.0
750	694	3.40	2.20	27	27	150.9
756	700	3.42	2.20	27	27	152.0
786	730	3.56	2.25	27	27	157.1
856	800	3.85	2.40	23	23	169.0
876	820	3.93	2.50	23	23	172.4
900	844	4.03	2.50	23	23	176.4
1000	944	4.46	2.80	20	20	192.9
1200	1144	5.30	3.20	15	15	224.7
1500	1444	6.57	4.00	15	15	270.0
1656	1600	7.23	4.36	14	14	292.5
1800	1744	7.84	4.70	10	10	312.7
1856	1800	8.11	4.84	10	10	320.4
2000	1944	8.69	5.20	10	10	339.8
2056	2000	8.95	5.29	10	10	347.2
2200	2144	9.53	5.60	10	10	366.0
2500	2444	10.80	6.40	10	10	403.4



Note - Add 100mm to height for models with welded feet.
Manufacturing Tolerance of +/-0.2mm per section.

Radiators over the stated maximum sections must be assembled on site.
Please contact our sales office for more information

Multisec Curved



How to order

Multisec Curved radiators must have a minimum internal radius length of 1000mm for 2 and 3 column radiators, and 1300mm for 4, 5 and 6 column radiators. The angle covered by the radiators cannot be greater than 180°.

6 simple steps

When ordering a Multisec Curved please specify:

1. Number of columns
2. Height
3. Number of sections
4. Wall mounted or welded feet
5. Camber and chord as indicated in the technical drawing below
6. Niche or Column curve

Multisec Raw

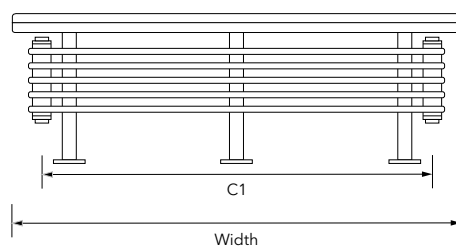
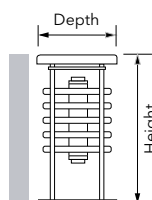


Note - The Multisec Raw is a finish that is available on request

Multisec Bench



A steel multi-column radiator with an Oak wooden top, the Multisec Bench is the perfect combination of seating and heating. Maximising both space and comfort, it is equally at home in the conservatory, locker room or bathroom.



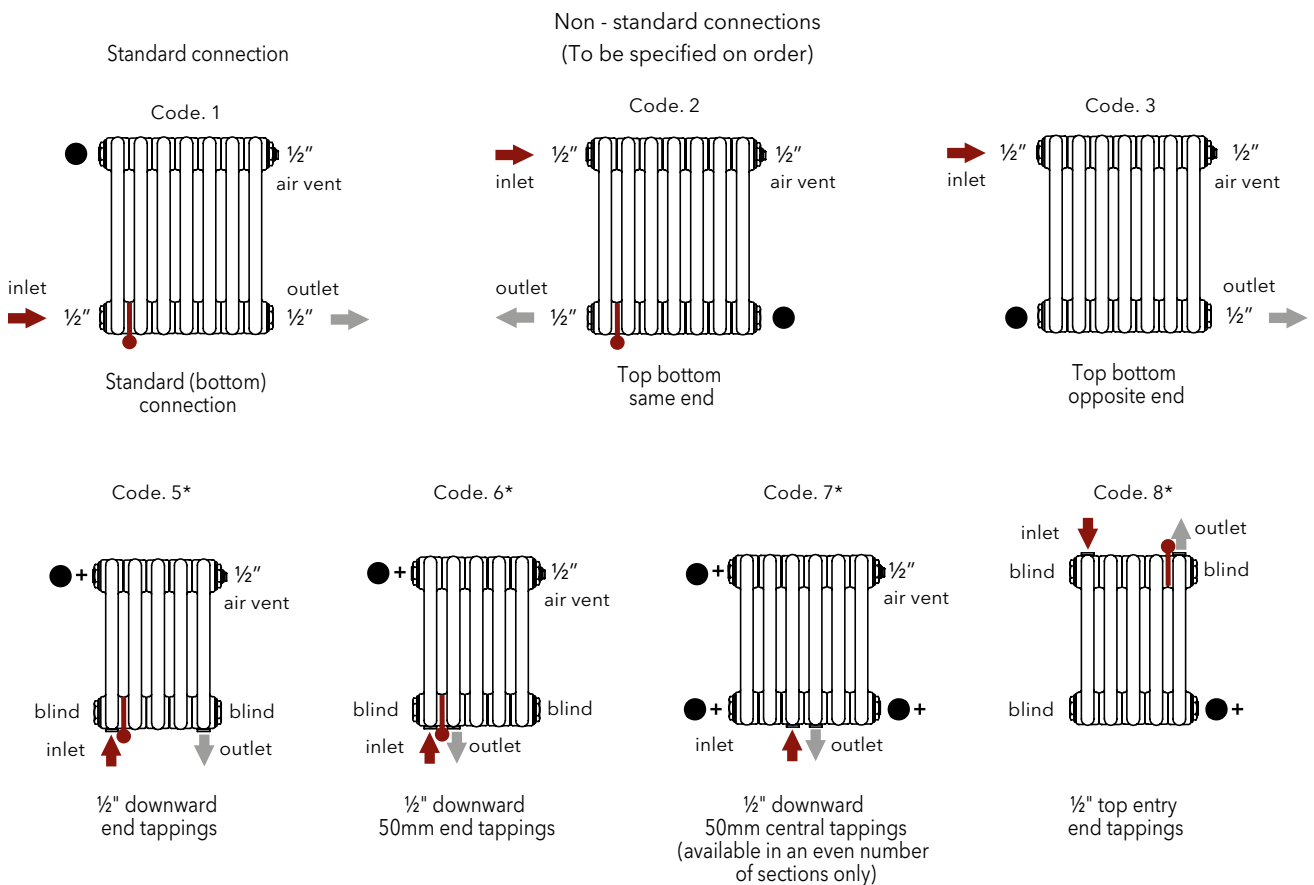
Code White (RAL 9016)	Sections	Height (mm)	Width (mm)	Depth (mm)	Tapping Centres (C1)	Output (Δt 50°C)		Dry Weight (kg)	Water content (litres)
						watts	Btu		
MSBWH-350-0650	4	350	650	290	444	424	1447	28	6.40
MSBWH-350-0806	4	350	806	290	600	536	1829	32	7.60
MSBWH-350-1006	4	350	1006	290	800	676	2307	38	9.60
MSBWH-350-1350	4	350	1350	290	1144	900	3071	45	13.00
MSBWH-350-1650	4	350	1650	290	1444	1080	3685	53	15.80
MSBWH-350-1950	4	350	1950	290	1744	1252	4272	62	18.70
MSBWH-350-2150	4	350	2150	290	1944	1360	4640	71	20.70
MSBWH-350-2350	4	350	2350	290	2144	1464	4995	77	22.60
MSBWH-350-2650	4	350	2650	290	2444	1612	5500	86	25.50
MSBWH-396-0650	5	396	650	290	444	530	1808	31	8.00
MSBWH-396-0806	5	396	806	290	600	670	2286	36	9.50
MSBWH-396-1006	5	396	1006	290	800	845	2883	43	12.00
MSBWH-396-1350	5	396	1350	290	1144	1125	3839	51	16.20
MSBWH-396-1650	5	396	1650	290	1444	1350	4606	61	19.80
MSBWH-396-1950	5	396	1950	290	1744	1565	5340	70	23.40
MSBWH-396-2150	5	396	2150	290	1944	1770	6039	81	25.80
MSBWH-396-2350	5	396	2350	290	2144	1830	6244	88	28.20
MSBWH-396-2650	5	396	2650	290	2444	2015	6875	98	31.80
MSBWH-442-0650	6	442	650	290	444	636	2170	34	9.60
MSBWH-442-0806	6	442	806	290	600	804	2743	40	11.40
MSBWH-442-1006	6	442	1006	290	800	1014	3460	48	14.40
MSBWH-442-1350	6	442	1350	290	1144	1350	4606	57	19.40
MSBWH-442-1650	6	442	1650	290	1444	1620	5527	68	23.80
MSBWH-442-1950	6	442	1950	290	1744	1878	6408	79	28.10
MSBWH-442-2150	6	442	2150	290	1944	2040	6960	91	31.00
MSBWH-442-2350	6	442	2350	290	2144	2196	7493	98	33.90
MSBWH-442-2650	6	442	2650	290	2444	2418	8250	109	38.20

Configurations / Hydraulic Connections

Note: All connections are supplied as 1/2" as standard, with 3/4", 3/8" and 1/4" connections available on request.

Key

 Inlet	 1" blank plug
 Flow diverter	 Outlet



When ordering please state the connection code number and connection size.

Configurations marked with a * carry an additional charge.



CHART ONE

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.

Glossy colours

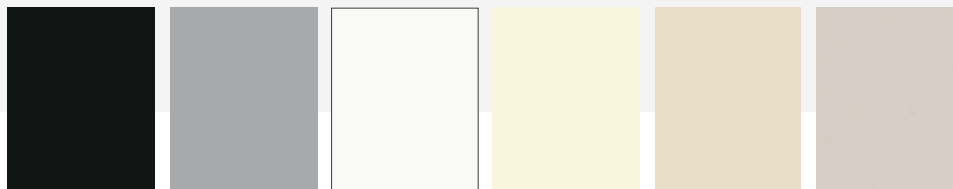
RAL 9010 - R01 * Bianco Pure White	RAL 9016 - R02 Traffic White	RAL 9001 - R14 Cream	S20 Jasmine	S03 Pergamon	S16 Canary	RAL 1013 - R40 Pearl White	S10 Anemone
S21 Pale Yellow	RAL 1021 - R05 Yellow Rape	RAL 1004 - R06 Gold	H04 Ice	H09 Lake	RAL 5015 - R11 Blue Sky	RAL 5017 - R18 Overseas Blue	RAL 5022 - R19 Blue Night
RAL 9005 - R13 Jet Black	H24 Mango	H25 Tangerine	RAL 2004 - R16 Pure Orange	H27 Bright Red	RAL 3003 - R08 Ruby Red	RAL 4008 - R25 Purple	H53 Bright Lilac
RAL 6019 - R26 Light Green	H30 Green Apple	RAL 6002 - R20 Green Leaf	RAL 8017 - R09 Dark Brown	S17 Bahama Beige	H48 Dove	H56 Lavic Stone	S07 Graphite
RAL 7030 - R22 Stone Grey	S02 Manhattan	RAL 7001 - R21 Silver Grey	R27 Metal Grey				



CHART ONE

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Matt colours



T01
Matt Black

T12
Matt Light Grey

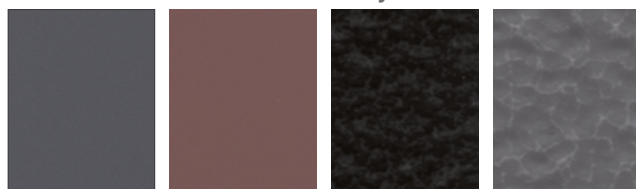
T11
Matt White

T10
Matt Beige

T15
Tela

T20
White Grey

Wavy finishes



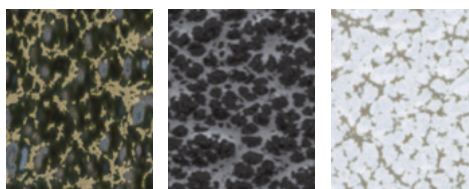
T19
British Grey

T17
Acai Matt

W02
Carbon

W03
Dolomite

Hammered finishes

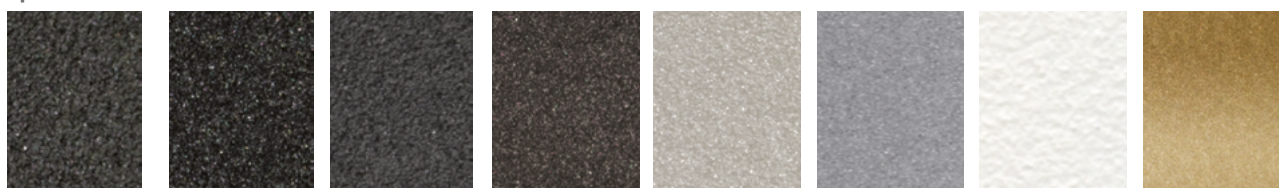


M01
Gold Black

M04
Black Silver 2

M06
Gold White

Special finishes



F06
Metal Rough Black

F15
Sparkling Black

F04
Graphite Black

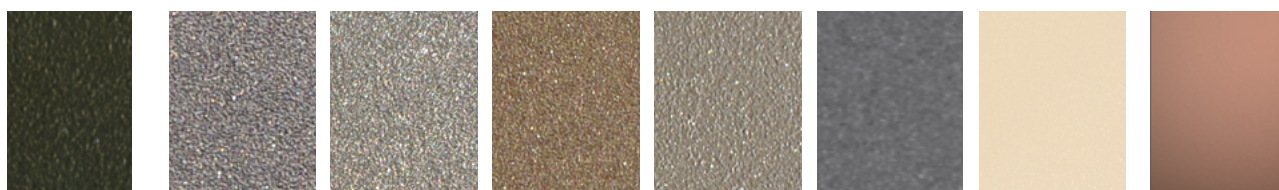
F03
Anthracite

F09
Graphite Grey

F07
Silver Effect

F20
Milky

F22
Classic Gold



F14
Old Bronze Effect

F24
Black Star

F23
Sparkling Grey

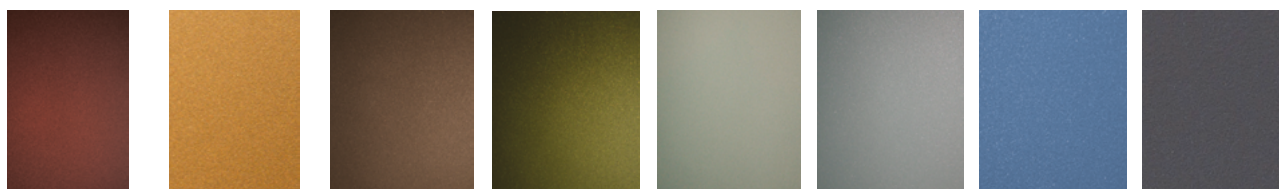
F25
Quartz Dust

F27
Moonshine

F26
Dark Aluminium

F30
White Sand

F38
Sand Stone



F34
Red Sand

F31
Corten Brown

F36
Terra

F35
Forest Green

F33
Emerald Sand

F32
Grey Sky

F37
Denim Blue

F43
Grey Anthracite



T18
Plum

F39
Balmoral Grey

F44
Clay

F41
Amber Gold

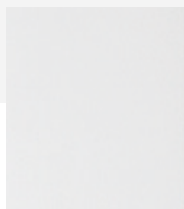
Pearl Bronze



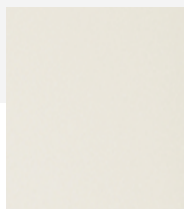
CHART TWO

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.

MHS Classic colour finishes



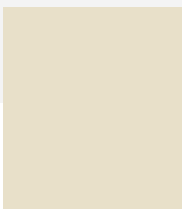
RAL 9016
Traffic White (semi-gloss)



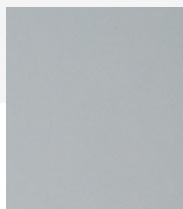
RAL 9010
Warm White (semi-gloss)



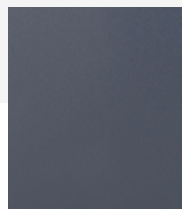
RAL 9001
Cream White (semi-gloss)



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)



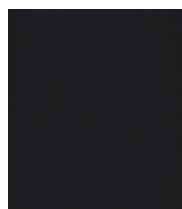
RAL 3003
Flame Red (semi-gloss)



RAL 9007
Grey Aluminium (semi-gloss)



RAL 9023
Pearl Dark Grey (semi-gloss)



Black (matt)



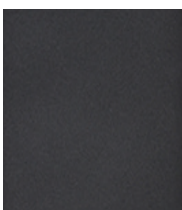
Anthracite (matt)



Light Old Penny (matt)



Dark Old Penny (matt)



Natural Cast Iron (matt)



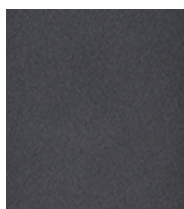
Pewter (matt)



Antique Gold (matt)



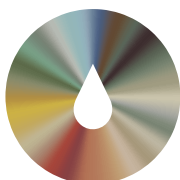
Bronze (gloss)



Gun Metal (matt)



Beaten Brass
(semi-gloss)



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.

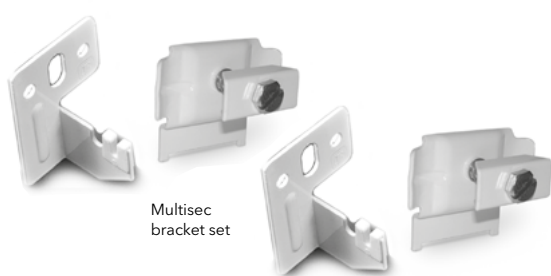
Colours outside of our colour chart carry a £50 ex VAT (£60 inc VAT) special mixing charge (per colour).

Bracketry Requirements

Wall Mounted up to 1200mm high radiator	
Sections	Qty
3 to 20	2 Pairs
21 to 40	3 Pairs
41 to 50	4 Pairs

1500mm+ high radiator	
Sections	Qty
3 to 14	2 Pairs
15 to 35	3 Pairs

With welded feet - all heights	
Sections	Qty
3 to 30	1 Pair
31 to 50	2 Pairs



Multisec bracket set

IMPORTANT: Always use wall ties in conjunction with the welded foot option to ensure stability.

Optional feet for wall mounted radiators



Optional cast feet

Optional slip-on feet

Feet positions	Slip on feet	Cast foot
Up to 20 sections	2 feet, one at each end	2 feet, one at each end
Odd numbers (21-49 sections)	3 feet, one at each end and one centrally	4 feet, one at each end and two evenly spaced
Even numbers (22-50 sections)	4 feet, one at each end and two evenly spaced	3 feet, one at each end and one centrally

How to generate codes for Multisec Bespoke radiators:

1. Start your code with either:
MSWW - For Multisec Wall
MSFW - Multisec Floor with welded feet
2. Add to this the code for your required model (eg. 3 column 750 high = 3-0750-)
3. Add to the end the amount of sections required.
For example: a 3 Column, wall mounted 750mm high x 15 section radiator in RAL9016 Traffic White (Standard) would have the code of: **MSWW-3-0750-15**
4. Specify colour if other than RAL9016 Traffic White (standard) is required

Foot options N.B. adds 100mm to overall height of radiator	Code
2 column slip-on foot	MSW-SLF02
3 column slip-on foot	MSW-SLF03
4 column slip-on foot	MSW-SLF04
Cast iron foot	ZXSEC-CAST

N.B. Slip on feet available in white only

Note: Orders for multiple radiators may increase the lead time. Manufacturing tolerance of ± 0.2 mm per section apply

Δt	CF
60	1.267
59	1.240
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, 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.



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