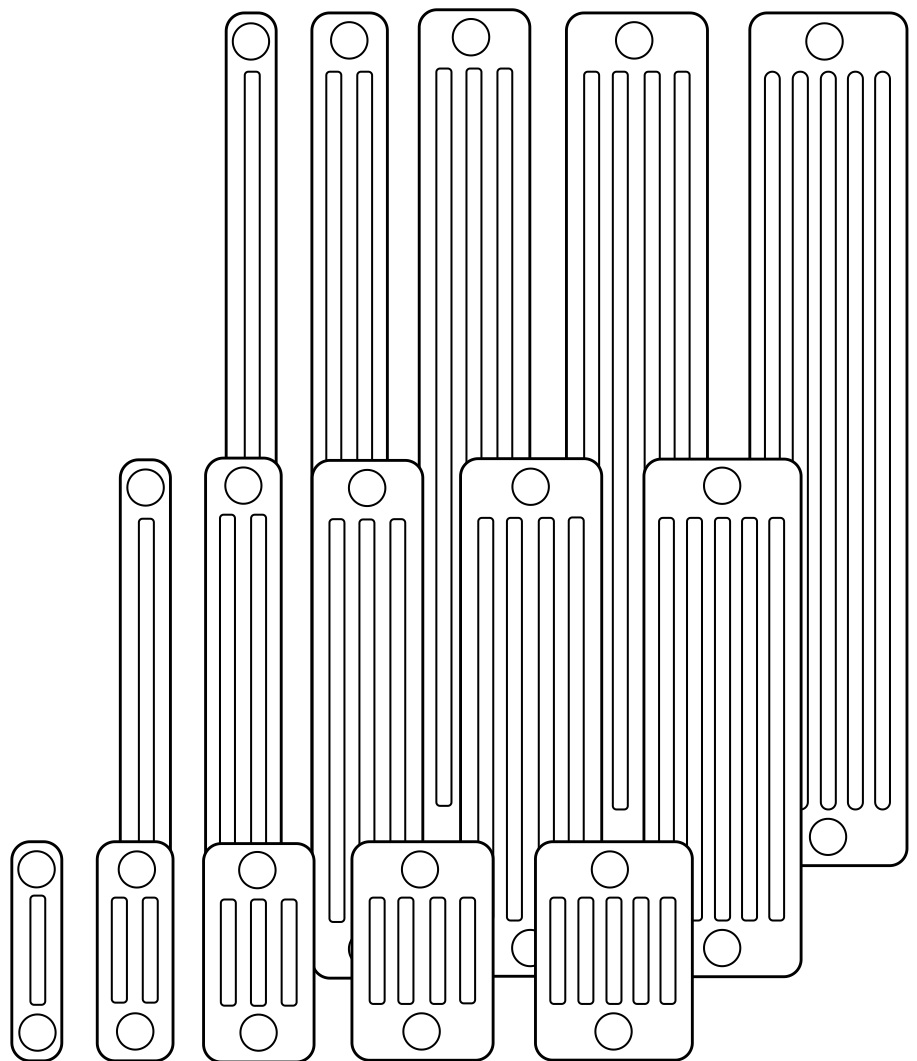


Ardesia

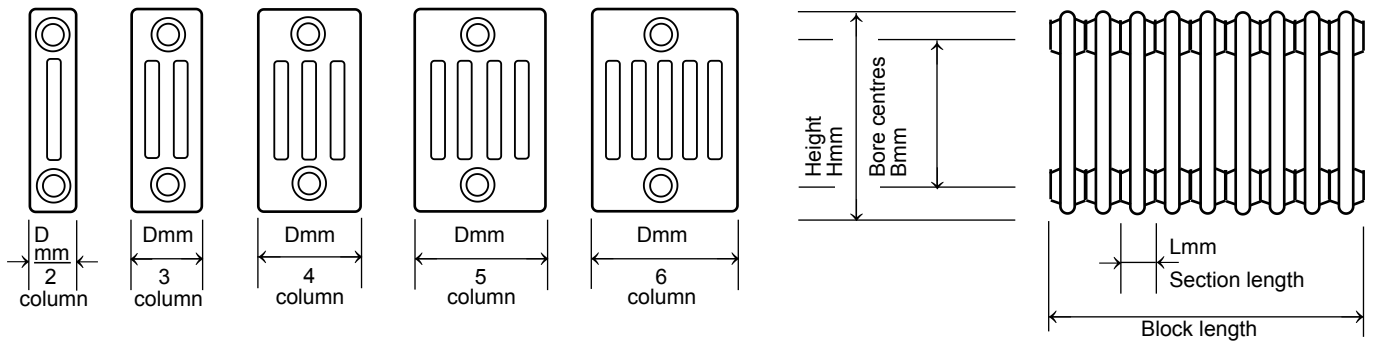
Multicolumn steel radiators



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General information

Dimensions - refer Table, page 3



Manufacturing standards

Clyde Ardesia radiators are tested and supplied in accordance with BS EN 442-1:1995. As required by this Standard, emission rates are quoted for the standard thermal output of $\Delta T=50$ (75/65/20°C) with the relevant exponent of excess temperature.

Heat emission rates

For convenience the emission rates are also quoted for typical United Kingdom applications of $\Delta T=55.5$ (82/71/21°C) and $\Delta T=60$ (90/70/20°C).

Different water and /or room temperatures will change the emission rate of a radiator. The method of calculation and correction factors for various temperatures are given in Clyde's radiator emission guide EDS 732, available on request. The emissions rates stated are all based upon TBOE (top & bottom opposite end) connections.

Application

Clyde Ardesia radiators are suitable for use in either open vented or sealed heating systems with a maximum operating pressure of 10 bar.

Materials

Clyde Ardesia radiators are manufactured by a UNI EN ISO 9001:2008 certified company from mild steel. The standard finish is a high gloss white epoxy powder coating, RAL 9016. Grey RAL 9007 finish is optionally available. Colour-matched ½" BOE bushes are supplied fitted. ¾" bushes and other configurations are available and must be specified at time of order.

Packing, handling & site work

Radiator sections are wrapped in polyethylene with cardboard protectors. Large orders are delivered to site on pallets to facilitate handling. Accessories are delivered packed separately for fitting by the installer.

It is important that radiators are protected from the elements during offloading and are stored in dry and adequately heated premises.

To avoid damage to the section joints radiators must be kept vertical after having been removed from their pallets and whilst being carried to their installation locations. They MUST NOT be carried stretcher fashion. For stock orders, factory welded and tested radiator blocks are warehouse assembled. Non-stock models are despatched as a single welded and tested block from the factory.

Commissioning

In accordance with Part L1 2006 of the Building Regulations and BS7593:1992 code of practice for the treatment of hot water and central heating systems, we strongly recommend flushing the heating system post installation of new radiators and then adding the correct quantity and type of inhibitor for use with your radiator and system to prevent corrosion. Damage caused to systems not protected by a suitable inhibitor will not be covered by manufacturer's guarantee.

Guarantee

Subject to correct handling and installation, Clyde Ardesia radiators are guaranteed for 5 years from the date of despatch against manufacturing defects.



Section emission rates and details

Model	BS EN 442		Emissions Rate		Recommended Max number of sections	Section details						
	75/65/20	Exponent	82/71/21	90/70/20		Section length	Overall height	Bore centres	Depth	Dry weight	Water content	Surface area
	watts at T50		Watts at T55.5	Watts at T60		Lmm	Hmm	Bmm	dmm	Kg	Litres	m2
AR200/2	17.5	1.3	20.0	22.2	40	46	207	151	66	0.35	0.29	0.03
AR200/3	24.8	1.3	28.4	31.5	40				107	0.53	0.42	0.05
AR200/4	32	1.3	36.7	40.7	40				148	0.71	0.56	0.07
AR200/5	39.7	1.3	45.6	50.6	40				189	0.89	0.7	0.09
AR200/6	48.7	1.3	55.9	61.9	40				230	1.07	0.8	0.11
AR300/2	25.6	1.2	29.2	32.1	40	46	300	244	66	0.49	0.37	0.05
AR300/3	34.7	1.3	39.6	43.8	40				107	0.74	0.54	0.07
AR300/4	46.8	1.3	53.4	58.9	40				148	0.99	0.72	0.1
AR300/5	56.5	1.3	64.8	71.9	40				189	1.24	0.9	0.12
AR300/6	67.7	1.3	77.7	86.1	40				230	1.49	1.1	0.15
AR400/2	33	1.3	37.6	41.5	40	46	400	344	66	0.63	0.45	0.06
AR400/3	45.1	1.3	51.6	57.0	40				107	0.95	0.66	0.1
AR400/4	59.8	1.3	68.3	75.5	40				148	1.27	0.88	0.13
AR400/5	72.4	1.3	83.1	92.1	40				189	1.59	1.1	0.16
AR400/6	87.3	1.3	100.1	110.9	40				230	1.92	1.3	0.19
AR500/2	40.1	1.3	45.8	50.6	40	46	500	444	66	0.77	0.53	0.08
AR500/3	55.2	1.3	63.2	69.9	40				107	1.16	0.79	0.12
AR500/4	72.4	1.3	82.9	91.7	40				148	1.55	1.04	0.16
AR500/5	87.7	1.3	100.7	111.7	40				189	1.95	1.3	0.2
AR500/6	106.2	1.3	121.7	134.7	40				230	2.34	1.6	0.24
AR556/2	44	1.3	50.3	55.6	40	46	556	544	66	0.85	0.58	0.09
AR556/3	60.9	1.3	69.8	77.2	40				107	1.28	0.85	0.13
AR556/4	79.3	1.3	90.9	100.6	40				148	1.71	1.13	0.18
AR556/5	96.2	1.3	110.5	122.6	40				189	2.14	1.41	0.22
AR556/6	116.5	1.3	133.4	147.7	35				230	2.58	1.7	0.27
AR600/2	47.1	1.3	53.9	59.6	40	46	600	544	66	0.91	0.61	0.09
AR600/3	65.2	1.3	74.7	82.7	40				107	1.37	0.91	0.14
AR600/4	84.7	1.3	97.1	107.6	40				148	1.84	1.2	0.19
AR600/5	102.7	1.3	118.0	130.9	40				189	2.3	1.5	0.24
AR600/6	124.5	1.3	142.5	157.7	35				230	2.76	1.8	0.29
AR656/2	51	1.3	58.4	64.6	40	46	656	544	66	0.99	0.66	0.19
AR656/3	70.8	1.3	81.2	90	40				107	1.49	0.97	0.15
AR656/4	91.6	1.3	105.1	116.5	40				148	1.99	1.29	0.21
AR656/5	111	1.3	127.5	141.5	36				189	2.5	1.61	0.26
AR656/6	134.5	1.3	153.9	170.2	30				230	3	1.9	0.31
AR750/2	57.6	1.3	66	73.1	40	46	750	694	66	1.12	0.73	0.12
AR750/3	80	1.3	91.9	101.9	40				107	1.69	1.09	0.18
AR750/4	102.9	1.3	118.3	131.3	40				148	2.26	1.44	0.23
AR750/5	124.8	1.3	143.4	159.2	33				189	2.83	1.8	0.29
AR750/6	150.9	1.3	172.5	190.7	27				230	3.4	2.2	0.35

SI conversion factor : 1 watt = 3.412 Btu/h

Section emission rates and details

Model	BS EN 442		Emissions Rate		Recommended Max number of sections	Section details						
	75/65/20	Exponent	82/71/21	90/70/20		Section length	Overall height	Bore centres	Depth	Dry weight	Water content	Surface area
	watts at T50		Watts at T55.5	Watts at T60		Lmm	Hmm	Bmm	dmm	Kg	Litres	m2
AR900/2	68.1	1.3	78.2	86.6	40	46	900	844	66	1.33	0.85	0.14
AR900/3	94.6	1.3	108.8	120.8	35				107	2.01	1.27	0.21
AR900/4	120.8	1.4	139.2	154.8	35				148	2.68	1.68	0.28
AR900/5	146.4	1.3	168.4	186.9	28				189	3.36	2.1	0.35
AR900/6	176.4	1.3	201.4	222.4	23				230	4.03	2.5	0.42
AR1000/2	75.2	1.3	86.4	95.9	40	46	1000	944	66	1.48	0.93	0.15
AR1000/3	104.3	1.3	120.0	133.3	35				107	2.22	1.39	0.23
AR1000/4	132.7	1.4	152.9	169.9	35				148	2.96	1.84	0.31
AR1000/5	160.6	1.3	184.9	205.3	25				189	3.71	2.3	0.39
AR1000/6	192.9	1.3	220.8	244.3	20				230	4.46	2.8	0.47
AR1200/2	89.5	1.3	103.0	114.3	35	46	1200	1144	66	1.76	1.09	0.18
AR1200/3	123.5	1.4	142.2	158.0	35				107	2.64	1.63	0.28
AR1200/4	156.2	1.3	179.8	199.7	25				148	3.53	2.17	0.37
AR1200/5	188.8	1.4	217.7	242.2	20				189	4.41	2.7	0.46
AR1200/6	224.7	1.3	258.5	287.1	15				230	5.3	3.2	0.56
AR1500/2	111.4	1.4	128.3	142.6	35	46	1500	1444	66	2.18	1.33	0.23
AR1500/3	151.9	1.4	175.0	194.6	25				107	3.28	1.99	0.35
AR1500/4	191.4	1.3	220.1	244.3	20				148	4.37	2.65	0.46
AR1500/5	230.4	1.4	266.4	297	15				189	5.47	3.3	0.58
AR1500/6	270	1.4	313.1	349.7	15				230	6.57	4	0.69
AR1656/2	123.1	1.4	141.8	157.6	35	46	1656	1744	66	2.4	1.46	0.25
AR1656/3	166.7	1.3	191.9	213.2	25				107	3.61	2.18	0.38
AR1656/4	209.7	1.3	241.3	268	20				148	4.81	2.9	0.51
AR1656/5	251.9	1.4	291.0	324	15				189	6.02	3.62	0.64
AR1656/6	292.5	1.4	338.8	378	14				230	7.23	4.36	0.76
AR1800/2	134.1	1.4	154.5	171.7	35	46	1800	1744	66	2.6	1.58	0.28
AR1800/3	180.2	1.3	207.3	230.1	22				107	3.91	2.35	0.41
AR1800/4	226.6	1.4	261.0	290.0	20				148	5.22	3.13	0.55
AR1800/5	271.6	1.4	313.4	348.7	12				189	6.53	3.91	0.69
AR1800/6	312.7	1.4	361.8	403.4	10				230	7.84	4.7	0.83
AR2000/2	149.8	1.4	172.6	191.8	30	46	2000	1944	66	2.89	1.74	0.31
AR2000/3	199	1.3	228.6	253.6	22				107	4.33	2.59	0.46
AR2000/4	250.3	1.4	288.6	320.9	15				148	5.78	3.45	0.61
AR2000/5	299	1.4	344.4	382.8	12				189	7.23	4.31	0.77
AR2000/6	339.8	1.4	392.5	437.2	10				230	8.69	5.2	0.92
AR2500/2	190.9	1.4	219.9	244.4	25	46	2500	2444	66	3.59	2.14	0.38
AR2500/3	245.9	1.3	281.6	311.7	18				107	5.39	3.19	0.57
AR2500/4	310.2	1.4	358.6	399.6	15				148	7.19	4.25	0.76
AR2500/5	367.4	1.3	421.6	467.2	12				189	9	5.31	0.95
AR2500/6	403.4	1.3	464.2	515.5	10				230	10.8	6.4	1.14

SI conversion factor : 1 watt = 3.412 Btu/h

Quick sizing chart

For exact emissions, refer table, page 3

ΔT50

Inlet 75°C
 Outlet 65°C
 Room 20°C BS
 EN 442-1 1995

Model	Watts per section	Radiator emissions in Kilowatts											
		0.6	0.8	1	1.25	1.5	1.75	2	2.5	3	4	5	6
		Nearest number of sections required											
AR200/2	17.5	35											
AR200/3	24.8	25	33										
AR200/4	32	19	25	32									
AR200/5	39.7	16	21	26	32	38							
AR200/6	48.7	13	17	21	26	31	36						
AR300/2	25.6	24	32										
AR300/3	34.7	18	24	29	37								
AR300/4	46.8	13	18	22	27	33	38						
AR300/5	56.5	11	15	18	23	27	31	36					
AR300/6	67.7	9	12	15	19	23	26	30	37				
AR400/2	33	19	25	31	38								
AR400/3	45.1	14	18	23	28	34	39						
AR400/4	59.8	11	14	17	21	26	30	34					
AR400/5	72.4	9	12	14	18	21	25	28	35				
AR400/6	87.3	7	10	12	15	18	21	23	29	35			
AR500/2	40.1	15	20	25	32	38							
AR500/3	55.2	11	15	19	23	28	32	37					
AR500/4	72.4	9	12	14	18	21	25	28	35				
AR500/5	87.7	7	10	12	15	18	20	23	29	35			
AR500/6	106.2	6	8	10	12	15	17	19	24	29	38		
AR556/2	44	14	19	23	29	35							
AR556/3	60.9	10	14	17	21	25	29	33					
AR556/4	79.3	8	11	13	16	19	23	26	32	38			
AR556/5	96.2	7	9	11	13	16	19	21	26	32			
AR556/6	116.5	6	7	9	11	13	16	18	22	26			
AR600/2	47.1	13	17	22	27	32	38						
AR600/3	65.2	10	13	16	20	24	27	31	39				
AR600/4	84.7	8	10	12	15	18	21	24	30	36			
AR600/5	102.7	6	8	10	13	15	18	20	25	30	39		
AR600/6	124.5	5	7	9	11	13	15	17	21	25	33		
AR656/2	51	12	16	20	25	30	35	40					
AR656/3	70.8	9	12	15	18	22	25	29	36				
AR656/4	91.6	7	9	11	14	17	20	22	28	33			
AR656/5	111	6	8	10	12	14	16	19	23	28			
AR656/6	134.5	5	6	8	10	12	14	15	19	23			
AR750/2	57.6	11	14	18	22	27	31	35					
AR750/3	80	8	10	13	16	19	22	25	32	38			
AR750/4	102.9	6	8	10	13	15	18	20	25	30	39		
AR750/5	124.8	5	7	9	11	13	15	17	21	25			
AR750/6	150.9	4	6	7	9	10	12	14	17	20			

Quick sizing chart

For exact emissions, refer table, page 3

ΔT50

Inlet 75°C
 Outlet 65°C
 Room 20°C BS
 EN 442-1 1995

Model	Watts per section	Radiator emissions in Kilowatts											
		0.6	0.8	1	1.25	1.5	1.75	2	2.5	3	4	5	6
		Nearest number of sections required											
AR900/2	68.1	9	12	15	19	23	26	30	37				
AR900/3	94.6	7	9	11	14	16	19	22	27	32			
AR900/4	120.8	5	7	9	11	13	15	17	21	25	34		
AR900/5	146.4	5	6	7	9	11	12	14	18	21	28		
AR900/6	176.4	4	5	6	8	9	10	12	15	18	23		
AR1000/2	75.2	8	11	14	17	20	24	27	34	40			
AR1000/3	104.3	6	8	10	12	15	17	20	24	29			
AR1000/4	132.7	5	7	8	10	12	14	16	19	23	31		
AR1000/5	160.6	5	7	8	10	12	14	16	19	23	25		
AR1000/6	192.9	4	5	6	7	8	10	11	13	16			
AR1200/2	89.5	7	9	12	14	17	20	23	28	34			
AR1200/3	123.5	5	7	9	11	13	15	17	21	25	33		
AR1200/4	156.2	4	6	7	9	10	12	13	17	20			
AR1200/5	188.8	4	5	6	7	8	10	11	14	16			
AR1200/6	224.7	3	4	5	6	7	8	9	12	14			
AR1500/2	111.4	6	8	9	12	14	16	18	23	27			
AR1500/3	151.9	4	6	7	9	10	12	14	17	20			
AR1500/4	191.4	4	5	6	7	8	10	11	14	16			
AR1500/5	230.4	3	4	5	6	7	8	9	11	14			
AR1500/6	270	3	3	4	5	6	7	8	10	12	15		
AR1656/2	123.1	5	7	9	11	13	15	17	21	25	33		
AR1656/3	166.7	4	5	6	8	9	11	12	15	18	24		
AR1656/4	209.7	3	4	5	6	8	9	10	12	15	20		
AR1656/5	251.9	3	4	4	5	6	7	8	10	12			
AR1656/6	292.5	3	3	4	5	6	6	7	9	11	14		
AR1800/2	134.1	5	6	8	10	12	14	15	19	23	30		
AR1800/3	180.2	4	5	6	7	9	10	12	14	17			
AR1800/4	226.6	3	4	5	6	7	8	9	12	14	18		
AR1800/5	271.6	3	3	4	5	6	7	8	10	12			
AR1800/6	312.7	2	3	4	4	5	6	7	8	10			
AR2000/2	149.8	5	6	7	9	11	12	14	17	21	27		
AR2000/3	199	4	5	6	7	8	9	11	13	16	21		
AR2000/4	250.3	3	4	4	5	6	7	8	10	12			
AR2000/5	299	3	3	4	5	6	6	7	9	11			
AR2000/6	339.8	2	3	3	4	5	6	6	8	9			
AR2500/2	190.9	4	5	6	7	8	10	11	14	16	21		
AR2500/3	245.9	3	4	5	6	7	8	9	11	13	17		
AR2500/4	310.2	2	3	4	5	5	6	7	9	10	13		
AR2500/5	367.4	2	3	3	4	5	5	6	7	9	11		
AR2500/6	403.4	2	2	3	4	4	5	5	7	8	10		

Quick sizing chart

For exact emissions, refer table, page 3

ΔT55.5 Inlet 82°C
 Outlet 71°C
 Room 21°C

Model	Watts per section	Radiator emissions in Kilowatts											
		0.6	0.8	1	1.25	1.5	1.75	2	2.5	3	4	5	6
		Nearest number of sections required											
AR200/2	20.0	30	40										
AR200/3	28.4	22	29	36									
AR200/4	36.7	17	22	28	35								
AR200/5	45.6	14	18	22	28	33	39						
AR200/6	55.9	11	15	18	23	27	32	36					
AR300/2	29.2	21	28	35									
AR300/3	39.6	16	21	26	32	38							
AR300/4	53.4	12	15	19	24	29	33	38					
AR300/5	64.8	10	13	16	20	24	27	31	39				
AR300/6	77.7	8	11	13	17	20	23	26	33	39			
AR400/2	37.6	16	22	27	34	40							
AR400/3	51.6	12	16	20	25	30	34	39					
AR400/4	68.3	9	12	15	19	22	26	30	37				
AR400/5	83.1	8	10	13	16	19	22	25	31	37			
AR400/6	100.1	6	8	10	13	15	18	20	25	30	40		
AR500/2	45.8	14	18	22	28	33	39						
AR500/3	63.2	10	13	16	20	24	28	32	40				
AR500/4	82.9	8	10	13	16	19	22	25	31	37			
AR500/5	100.7	6	8	10	13	15	18	20	25	30	40		
AR500/6	121.7	5	7	9	11	13	15	17	21	25	33		
AR556/2	50.3	12	16	20	25	30	35	40					
AR556/3	69.8	9	12	15	18	22	26	29	36				
AR556/4	90.9	7	9	12	14	17	20	23	28	34			
AR556/5	110.5	6	8	10	12	14	16	19	23	28	37		
AR556/6	133.4	5	6	8	10	12	14	15	19	23	30		
AR600/2	54	12	15	19	24	28	33	38					
AR600/3	74.8	9	11	14	17	21	24	27	34				
AR600/4	97.2	7	9	11	13	16	19	21	26	31			
AR600/5	118.5	6	7	9	11	13	15	17	22	26	34		
AR600/6	142.7	5	6	8	9	11	13	15	18	22	29		
AR656/2	58.4	11	14	18	22	26	30	35					
AR656/3	81.2	8	10	13	16	19	22	25	31	37			
AR656/4	105.1	6	8	10	12	15	17	20	24	29	39		
AR656/5	127.5	5	7	8	10	12	14	16	20	24	32		
AR656/6	153.9	4	6	7	9	10	12	14	17	20	26		
AR750/2	66	10	13	16	19	23	27	31	38				
AR750/3	91.9	7	9	11	14	17	20	22	28	33			
AR750/4	118.3	6	7	9	11	13	15	17	22	26	34		
AR750/5	143.4	5	6	7	9	11	13	14	18	21	28		
AR750/6	172.5	4	5	6	8	9	11	12	15	18	24		

Quick sizing chart

For exact emissions, refer table, page 3

ΔT55.5 Inlet 90°C
Outlet 70°C
Room 20°C

Model	Watts per section	Radiator emissions in Kilowatts											
		0.6	0.8	1	1.25	1.5	1.75	2	2.5	3	4	5	6
		Nearest number of sections required											
AR900/2	78.2	8	11	13	16	20	23	26	32	39			
AR900/3	108.8	6	8	10	12	14	17	19	23	28			
AR900/4	139.2	5	6	8	9	11	13	15	18	22	29		
AR900/5	168.4	4	5	6	8	9	11	12	15	18	24		
AR900/6	201.4	3	4	5	7	8	9	10	13	15	20		
AR1000/2	86.4	7	10	12	15	18	21	24	29	35			
AR1000/3	120	5	7	9	11	13	15	17	21	25	34		
AR1000/4	152.9	4	6	7	9	10	12	14	17	20	27	33	
AR1000/5	184.9	4	5	6	7	9	10	11	14	17	22		
AR1000/6	220.8	3	4	5	6	7	8	10	12	14	19		
AR1200/2	103.0	6	8	10	13	15	17	20	25	30			
AR1200/3	142.2	5	6	8	9	11	13	15	18	22	29		
AR1200/4	179.8	4	5	6	7	9	10	12	14	17	23		
AR1200/5	217.7	3	4	5	6	7	9	10	12	14	18		
AR1200/6	258.5	3	4	4	5	6	7	8	10	12			
AR1500/2	128.3	5	7	8	10	12	14	16	20	24	32		
AR1500/3	175.0	4	5	6	8	9	10	12	15	18	23		
AR1500/4	220.1	3	4	5	6	7	8	10	12	14	19		
AR1500/5	266.4	3	4	4	5	6	7	8	10	12			
AR1500/6	313.1	2	3	4	4	5	6	7	8	10	13		
AR1656/2	141.8	5	6	8	9	11	13	15	18	22	29		
AR1656/3	191.9	4	5	6	7	8	10	11	14	16	21		
AR1656/4	241.3	3	4	5	6	7	8	9	11	13	17		
AR1656/5	291.0	3	3	4	5	6	7	7	9	11	14		
AR1656/6	338.8	2	3	3	4	5	6	6	8	9	12		
AR1800/2	154.5	4	6	7	9	10	12	13	17	20	26	33	
AR1800/3	207.3	3	4	5	7	8	9	10	13	15	20		
AR1800/4	261.0	3	4	4	5	6	7	8	10	12	16	20	
AR1800/5	313.4	2	3	4	4	5	6	7	8	10			
AR1800/6	361.8	2	3	3	4	5	5	6	7	9			
AR2000/2	172.6	4	5	6	8	9	11	12	15	18	24	29	
AR2000/3	228.6	3	4	5	6	7	8	9	11	14	18	22	
AR2000/4	288.6	3	3	4	5	6	7	7	9	11	14		
AR2000/5	344.6	2	3	3	4	5	6	6	8	9	12		
AR2000/6	392.5	2	3	3	4	4	5	6	7	8			
AR2500/2	219.9	3	4	5	6	7	8	10	12	14	19	23	
AR2500/3	281.6	3	3	4	5	6	7	8	9	11	15	18	
AR2500/4	358.6	2	3	3	4	5	5	6	7	9	12	14	
AR2500/5	421.6	2	2	3	3	4	5	5	6	8	10	12	
AR2500/6	464.2	2	2	3	3	4	4	5	6	7	9		

Quick sizing chart

For exact emissions, refer table, page 3

ΔT60 Inlet 90°C
Outlet 70°C
Room 20°C

Model	Watts per section	Radiator emissions in Kilowatts											
		0.6	0.8	1	1.25	1.5	1.75	2	2.5	3	4	5	6
		Nearest number of sections required											
AR200/2	22.2	28	37										
AR200/3	31.5	20	26	32	40								
AR200/4	40.7	15	20	25	31	37							
AR200/5	50.6	12	16	20	25	30	35	40					
AR200/6	61.9	10	13	17	21	25	29	33					
AR300/2	32.1	19	25	32	39								
AR300/3	43.8	14	19	23	29	35	40						
AR300/4	58.9	11	14	17	22	26	30	34					
AR300/5	71.9	9	12	14	18	21	25	28	35				
AR300/6	86.1	7	10	12	15	18	21	24	30	35			
AR400/2	41.5	15	20	25	31	37							
AR400/3	57.0	11	15	18	22	27	31	36					
AR400/4	75.5	8	11	14	17	20	24	27	34	40			
AR400/5	92.1	7	9	11	14	17	20	22	28	33			
AR400/6	110.9	6	8	10	12	14	16	19	23	28	37		
AR500/2	50.6	12	16	20	25	30	35	40					
AR500/3	69.9	9	12	15	18	22	26	29	36				
AR500/4	91.7	7	9	11	14	17	20	22	28	33			
AR500/5	111.7	6	8	9	12	14	16	18	23	27	36		
AR500/6	134.7	5	6	8	10	12	13	15	19	23	30	38	
AR556/2	55.6	11	15	18	23	27	32	36					
AR556/3	77.2	8	11	13	17	20	23	26	33	39			
AR556/4	100.6	6	8	10	13	15	18	20	25	30	40		
AR556/5	122.6	5	7	9	11	13	15	17	21	25	33		
AR556/6	147.7	5	6	7	9	11	12	14	17	21	28	34	
AR600/2	59.6	11	14	17	21	26	30	34					
AR600/3	82.7	8	10	13	16	19	22	25	31	37			
AR600/4	107.6	6	8	10	12	14	17	19	24	28	38		
AR600/5	130.9	5	7	8	10	12	14	16	20	23	31	39	
AR600/6	157.7	4	6	7	8	10	12	13	16	20	26	32	
AR656/2	64.6	10	13	16	20	24	28	31	39				
AR656/3	90	7	9	12	14	17	20	23	28	34			
AR656/4	116.5	6	7	9	11	13	16	18	22	26	35		
AR656/5	141.5	5	6	8	9	11	13	15	18	22	29	36	
AR656/6	170.2	4	5	6	8	9	11	12	15	18	24	30	
AR750/2	73.1	9	11	14	18	21	24	28	35				
AR750/3	101.9	6	8	10	13	15	18	20	25	30	40		
AR750/4	131.3	5	7	8	10	12	14	16	20	23	31	39	
AR750/5	159.2	4	6	7	8	10	11	13	16	19	26	32	
AR750/6	190.7	4	5	6	7	8	10	11	14	16	21	27	

Quick sizing chart

ΔT60 Inlet 90°C
Outlet 70°C
Room 20°C

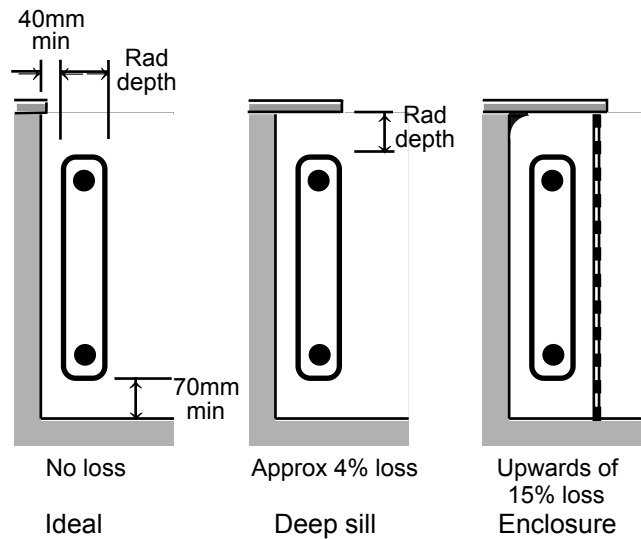
For exact emissions, refer table, page 3

Model	Watts per section	Radiator emissions in Kilowatts											
		0.6	0.8	1	1.25	1.5	1.75	2	2.5	3	4	5	6
		Nearest number of sections required											
AR900/2	86.8	7	10	12	15	18	21	24	29	35			
AR900/3	120.8	5	7	9	11	13	15	17	21	25	34		
AR900/4	154.8	4	6	7	9	10	12	13	17	20	26	33	
AR900/5	186.9	4	5	6	7	9	10	11	14	17	22	27	
AR900/6	222.4	3	4	5	6	7	8	9	12	14	18	23	
AR1000/2	95.9	7	9	11	14	16	19	21	27	32			
AR1000/3	133.3	5	7	8	10	12	14	16	19	23	31		
AR1000/4	169.9	4	5	6	8	9	11	12	15	18	24	30	
AR1000/5	205.3	3	4	5	7	8	9	10	13	15	20	25	
AR1000/6	244.3	3	4	5	6	7	8	9	11	13	17		
AR1200/2	114.3	6	7	9	11	14	16	18	22	27	35		
AR1200/3	158.0	4	6	7	8	10	12	13	16	19	26	32	
AR1200/4	199.7	4	5	6	7	8	9	11	13	16	21		
AR1200/5	242.2	3	4	5	6	7	8	9	11	13	17		
AR1200/6	287.1	3	3	4	5	6	7	7	9	11	14		
AR1500/2	142.6	5	6	8	9	11	13	15	18	22	29		
AR1500/3	194.6	4	5	6	7	8	9	11	13	16	21		
AR1500/4	244.3	3	4	5	6	7	8	9	11	13	17		
AR1500/5	297	3	3	4	5	6	6	7	9	11	14		
AR1500/6	349.7	2	3	3	4	5	6	6	8	9	12	15	
AR1656/2	157.6	4	6	7	8	10	12	13	16	20	26	32	
AR1656/3	213.2	3	4	5	6	8	9	10	12	15	19	24	
AR1656/4	268	3	3	4	5	6	7	8	10	12	15	19	
AR1656/5	324	2	3	4	4	5	6	7	8	10	13		
AR1656/6	378	2	3	3	4	4	5	6	7	8	11	14	
AR1800/2	171.7	4	5	6	8	9	11	12	15	18	24	30	35
AR1800/3	230.1	3	4	5	6	7	8	9	11	14	18	22	
AR1800/4	290.0	3	3	4	5	6	7	7	9	11	14	18	
AR1800/5	348.7	2	3	3	4	5	6	6	8	9	12		
AR1800/6	403.4	2	2	3	4	4	5	5	7	8	10		
AR2000/2	191.8	4	5	6	7	8	10	11	14	16	21	27	
AR2000/3	253.6	3	4	4	5	6	7	8	10	12	16	20	
AR2000/4	320.9	2	3	4	4	5	6	7	8	10	13		
AR2000/5	382.8	2	3	3	4	4	5	6	7	8	11		
AR2000/6	437.2	2	2	3	3	4	5	5	6	7	10		
AR2500/2	244.4	3	4	5	6	7	8	9	11	13	17	21	25
AR2500/3	311.7	2	3	4	5	5	6	7	9	10	13	17	
AR2500/4	399.6	2	3	3	4	4	5	6	7	8	11	13	
AR2500/5	467.2	2	2	3	3	4	4	5	6	7	9	11	
AR2500/6	515.5	2	2	2	3	3	4	4	5	6	8	10	

Boxing and enclosures

It is recommended that radiators are installed with a minimum gap of 70 mm above floor level. A full width sill above the radiator extending the depth of the radiator will reduce emission rates by approximately 4%.

Boxing of radiators or the use of decorative enclosures will reduce emission rates by upwards of 15%, according to the design of the boxing. Any restriction of the free flow of air over the radiator surface is detrimental to convected heat emission. Obscuring the front surface of the radiator eliminates the beneficial effect of radiated heat.



Fixing arrangements, wall brackets and floor mounts

Always use Clyde radiator brackets, supports and ties.

Clyde offer 3 different types of mounting options; wall brackets welded feet & cast feet (see drawings below), all are supplied with appropriate wall ties. If the wall on which the radiators are being installed is solid and sound, then wall mounting using standard wall brackets and ties is recommended - see fig 1 below. If the wall is generally unsound, a studwork partition wall or built of low density cellular blocks, welded feet or cast feet with wall ties are recommended - see figs 2 and 3.

If the walls are not sound or are partition walls and the radiator is to be wall mounted, there must be studwork capable of supporting the weight of the filled radiator. Special arrangements

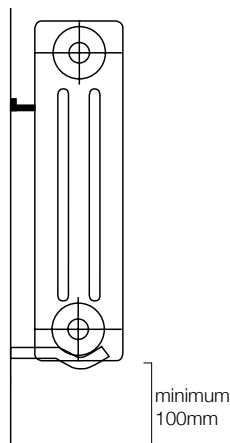
may be necessary for partition walling, dry lined and composite walls (eg flint aggregate) which are commonly encountered in period restoration projects.

Pipework should never be used to provide support for the radiator.

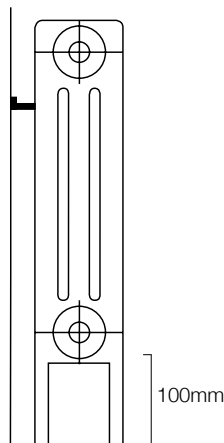
Assembling instructions are supplied with all Clyde radiator wall brackets, floor mounts and wall ties.

All screw fixes and wall plugs must be proprietary fittings selected by the installer to be suitable for the construction and fabric of the wall to which the supports, mounts and stays are being fixed. Fibre or ceramic plug materials should not be used as these degrade in time and become unreliable.

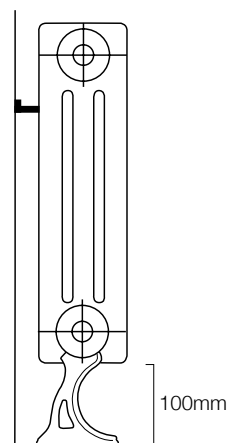
Wall Brackets - Fig 1



Welded Feet - Fig 2



Cast Feet - Fig 3



We recommend the following mounting options are used per section;

3 - 20 Sections	21 - 30 Sections	31 - 40 Sections
2 Cast Feet	3 Cast Feet	4 Cast Feet
2 Wall Brackets	3 Wall Brackets	4 Wall Brackets
2 Wall Ties	3 Wall Ties	4 Wall Ties
2 Welded Feet	3 Welded Feet	4 Welded Feet

Connections

A set of connection fittings is provided for each radiator.

Each set comprises :

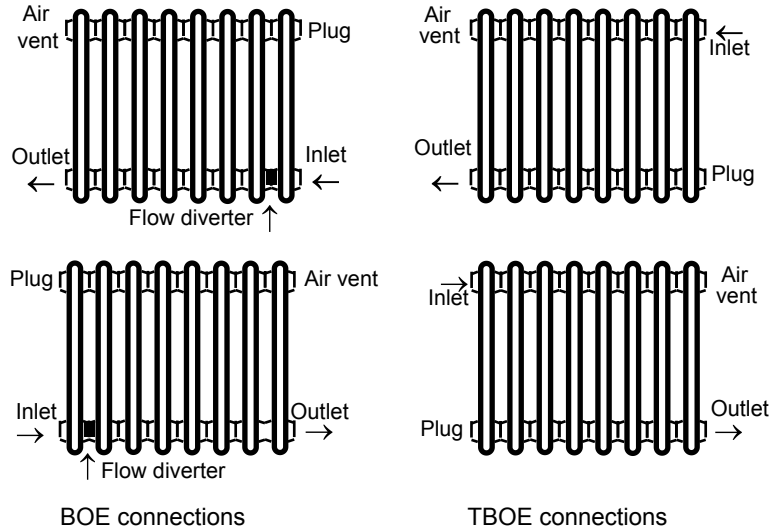
2 x R1¼ x R½ pipe connection bushes

1 x R1¼ plug (RH thread)

1 x R1¼ vent bush (LH thread) and R½ vent valve.

Radiators are normally installed with either BOE (bottom opposite end) or TBOE (top & bottom opposite end) connections. Unless notified at time of order, radiators are supplied with ½" BOE connections as standard. If you require different connections please contact us on **01342 305550** for more information.

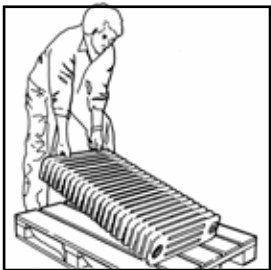
For installations with BOE connections, a flow diverter (supplied) should be fitted at the inlet connection for all radiators.



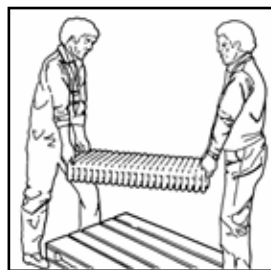
IMPORTANT : Inspect the radiator for any damage before installing and filling with water.

Carrying radiators

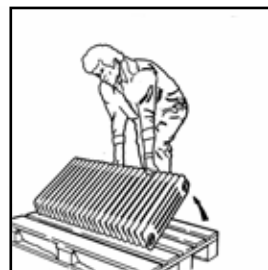
Multicolumn steel radiators are heavy. Always provide sufficient manpower to make carrying safe. Incorrect handling of radiator blocks can cause water leaks from section joints. Lift the radiator blocks in the centre to bring them to the vertical position before lifting and carrying. Never carry radiators stretcher fashion.



DO NOT !
Lift from one end



DO NOT !
Carry radiators flat



Always !
Lift in centre



Always !
Keep sections vertical



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www.clyderadiators.co.uk

Illustrations and technical data are not binding in detail, all measurements and outputs are in accordance with the manufacturer's terms of reference at the time of going to press. Please refer to current EDS documents for technical specifications prior to ordering.