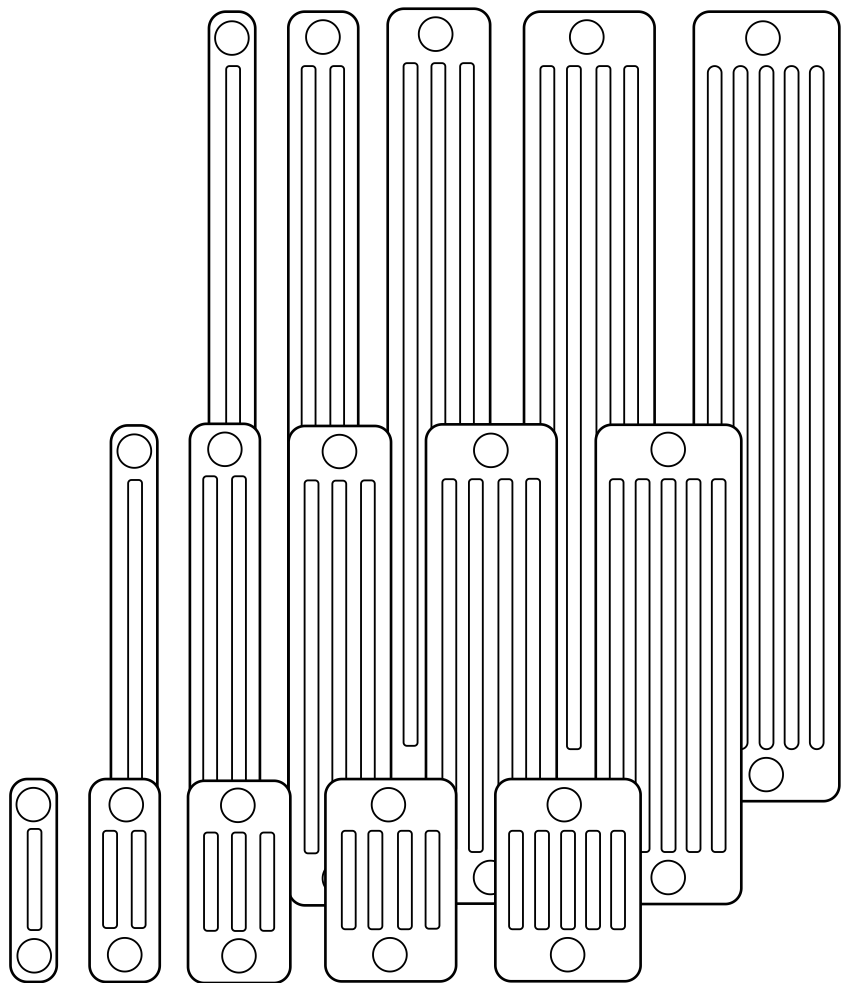


Tesi

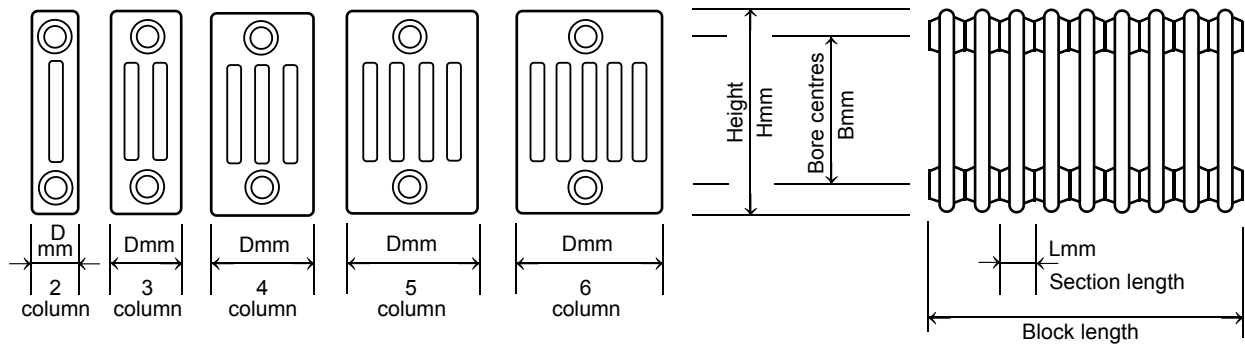
Multicolumn steel radiators



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General information

Dimensions - refer Table, page 3



Manufacturing standards

Clyde Tesi 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 Tesi radiators are suitable for use in either open vented or sealed heating systems with a maximum operating pressure of 6 bar.

Materials

Clyde Tesi radiators are manufactured by a UNI EN ISO 9000:2000 certified company from 1.25mm thick tubular mild steel. The standard finish is a high gloss white epoxy powder coating, RAL 9016. Grey RAL 9023 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 individually wrapped in plastic film with protective corner pieces. Large orders are delivered to site on pallets to facilitate handling. Accessories are delivered packed separately for fitting by the installer.

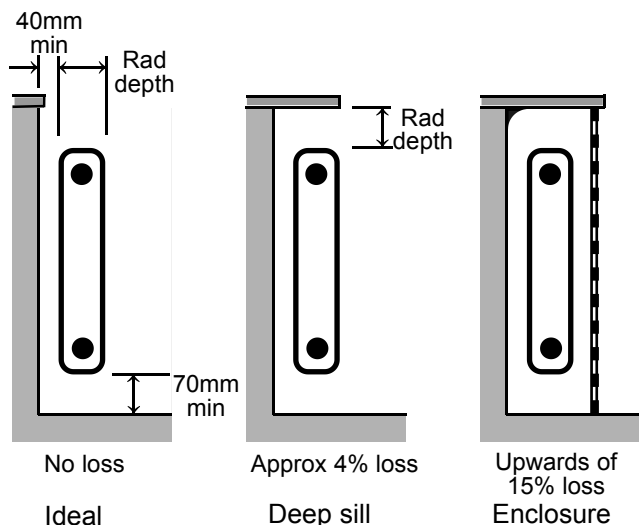
It is important that radiators are protected from the elements during offloading and are stored in dry and adequately heated premises.

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.

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.



Guarantee

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



Section emission rates and details

Model	BS EN 442		Emission rates		Recommended max. number of sections **	Section details						
	75/65/20		82/71/21	90/70/20		Section length	Overall height	Bore centres	Depth	Dry weight	Water content	Surface area
	ΔT50 watts	Exponent	ΔT55.5 watts	ΔT60 watts								
TC200/2	15.0	1.3	17.2	19.0	54	45	200	133	65	0.35	0.30	0.032
TC200/3	22.2	1.3	25.4	28.1	54				101	0.51	0.40	0.047
TC200/4	29.2	1.3	33.4	37.0	54				139	0.71	0.55	0.063
TC200/5	33.9	1.3	38.8	43.0	54				177	0.88	0.62	0.080
TC200/6	38.7	1.3	44.3	49.1	54				210	1.08	0.81	0.097
TC300/2	23.0	1.3	26.3	29.2	54				45	300	235	65
TC300/3	32.3	1.3	37.0	40.9	54	101	0.77	0.52				0.070
TC300/4	41.8	1.3	47.9	53.0	54	139	1.08	0.65				0.095
TC300/5	50.5	1.3	57.8	64.0	54	177	1.32	0.84				0.119
TC300/6	60.0	1.3	68.7	76.0	54	210	1.60	1.05				0.144
TC400/2	30.0	1.3	34.4	38.0	54	45	400	335				65
TC400/3	43.4	1.3	49.7	55.0	54				101	1.02	0.64	0.094
TC400/4	55.3	1.3	63.3	70.1	54				139	1.32	0.83	0.126
TC400/5	67.9	1.3	77.8	86.1	54				177	1.72	1.03	0.158
TC400/6	78.9	1.3	90.4	100.0	54				210	2.09	1.27	0.191
TC500/2	38.7	1.3	44.3	49.1	54				45	500	435	65
TC500/3	54.4	1.3	62.3	69.0	54	101	1.37	0.75				0.117
TC500/4	68.6	1.3	78.6	86.9	54	139	1.79	0.98				0.158
TC500/5	84.5	1.3	96.8	107.1	54	177	2.14	1.22				0.198
TC500/6	99.5	1.3	114.0	126.1	47	210	2.60	1.50				0.238
TC600/2	46.5	1.3	53.3	58.9	54	45	600	535				65
TC600/3	63.9	1.3	73.2	81.0	54				101	1.49	0.86	0.141
TC600/4	81.3	1.3	93.1	103.0	54				139	2.03	1.13	0.189
TC600/5	100.3	1.3	114.9	127.1	47				177	2.63	1.41	0.237
TC600/6	119.2	1.3	136.5	151.1	39				210	3.22	1.76	0.285
TC750/2	58.5	1.3	67.0	74.1	54				45	750	685	65
TC750/3	79.7	1.3	91.3	101.0	54	101	1.89	1.03				0.176
TC750/4	101.0	1.3	115.7	128.0	46	139	2.53	1.36				0.236
TC750/5	123.9	1.3	141.9	157.0	38	177	3.17	1.69				0.296
TC750/6	145.3	1.3	166.4	184.2	32	210	3.92	2.05				0.356
TC900/2	71.0	1.3	81.3	90.0	54	45	900	835				65
TC900/3	93.9	1.3	107.5	119.0	50				101	2.18	1.20	0.211
TC900/4	118.4	1.3	135.6	150.1	39				139	3.10	1.59	0.283
TC900/5	146.0	1.3	167.2	185.0	32				177	3.94	1.98	0.355
TC900/6	172.9	1.3	198.0	219.1	27				210	4.53	2.45	0.427
TC1000/2	77.4	1.3	88.6	98.1	54				45	1000	935	65
TC1000/3	103.4	1.3	118.4	131.1	45	101	2.48	1.32				0.235
TC1000/4	131.0	1.3	150.0	166.0	36	139	3.30	1.74				0.315
TC1000/5	160.2	1.3	183.5	203.0	29	177	4.18	2.17				0.394
TC1000/6	190.2	1.3	217.8	241.1	24	210	5.00	2.65				0.474
TC1500/2	112.1	1.3	128.4	142.1	42	45	1500	1435				65
TC1500/3	151.6	1.3	173.6	192.1	31				101	3.65	1.89	0.353
TC1500/4	191.0	1.3	218.8	242.1	24				139	4.93	2.50	0.472
TC1500/5	227.3	1.3	260.3	288.1	20				177	6.11	3.12	0.590
TC1500/6	264.4	1.3	302.8	335.1	17				210	7.31	3.90	0.709
TC1800/2	131.8	1.3	151.0	167.1	35				45	1800	1735	65
TC1800/3	180.0	1.3	206.2	228.1	26	101	4.36	2.26				0.423
TC1800/4	226.5	1.3	259.4	287.1	20	139	5.83	2.98				0.566
TC1800/5	270.8	1.3	310.1	343.2	17	177	7.22	3.72				0.708
TC1800/6	315.0	1.3	360.8	399.3	15	210	8.64	4.62				0.851
TC2000/2	148.4	1.3	170.0	188.1	31	45	2000	1935				65
TC2000/3	199.7	1.3	228.7	253.1	23				101	4.86	2.46	0.470
TC2000/4	251.1	1.3	287.6	318.3	18				139	6.50	3.25	0.629
TC2000/5	298.4	1.3	341.8	378.2	15				177	8.04	4.07	0.786
TC2000/6	348.9	1.3	399.6	442.2	13				210	9.81	5.00	0.945
TC2500/2	183.9	1.3	210.6	233.1	25				45	2500	2435	65
TC2500/3	249.5	1.3	285.8	316.2	18	101	6.12	3.03				0.588
TC2500/4	311.8	1.3	357.1	395.2	15	139	8.10	4.02				0.786
TC2500/5	367.0	1.3	420.3	465.2	12	177	10.17	5.02				0.983
TC2500/6	427.1	1.3	489.2	541.3	11	210	12.20	6.10				1.180

SI conversion factor : 1 watt = 3.412 Btu/h

** For maximum emission of 6kW at ΔT60
or 54 sections maximum

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 emission in kilowatts											
		0.6	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0	4.0	5.0	6.0
		Nearest number of sections required											
TC200/2	15.0	40	53	—	—	—	—	—	—	—	—	—	—
TC200/3	22.2	27	36	45	—	—	—	—	—	—	—	—	—
TC200/4	29.2	21	27	34	43	51	—	—	—	—	—	—	—
TC200/5	33.9	18	24	29	37	44	52	—	—	—	—	—	—
TC200/6	38.7	16	21	26	32	39	45	52	—	—	—	—	—
TC300/2	23.0	26	35	43	54	—	—	—	—	—	—	—	—
TC300/3	32.3	19	25	31	39	46	54	—	—	—	—	—	—
TC300/4	41.8	14	19	24	30	36	42	48	—	—	—	—	—
TC300/5	50.5	12	16	20	25	30	35	40	50	—	—	—	—
TC300/6	60.0	10	13	17	21	25	29	33	42	50	—	—	—
TC400/2	30.0	20	27	33	42	50	—	—	—	—	—	—	—
TC400/3	43.4	14	18	23	29	35	40	46	—	—	—	—	—
TC400/4	55.3	11	14	18	23	27	32	36	45	54	—	—	—
TC400/5	67.9	9	12	15	18	22	26	29	37	44	—	—	—
TC400/6	78.9	8	10	13	16	19	22	25	32	38	51	—	—
TC500/2	38.7	16	21	26	32	39	45	52	—	—	—	—	—
TC500/3	54.4	11	15	18	23	28	32	37	46	—	—	—	—
TC500/4	68.6	9	12	15	18	22	26	29	36	44	—	—	—
TC500/5	84.5	7	9	12	15	18	21	24	30	36	47	—	—
TC500/6	99.5	6	8	10	13	15	18	20	25	30	40	50	—
TC600/2	46.5	13	17	22	27	32	38	43	54	—	—	—	—
TC600/3	63.9	9	13	16	20	23	27	31	39	47	—	—	—
TC600/4	81.3	7	10	12	15	18	22	25	31	37	49	—	—
TC600/5	100.3	6	8	10	12	15	17	20	25	30	40	50	—
TC600/6	119.2	5	7	8	10	13	15	17	21	25	34	42	50
TC750/2	58.5	10	14	17	21	26	30	34	43	51	—	—	—
TC750/3	79.7	8	10	13	16	19	22	25	31	38	50	—	—
TC750/4	101.0	6	8	10	12	15	17	20	25	30	40	50	—
TC750/5	123.9	5	6	8	10	12	14	16	20	24	32	40	48
TC750/6	145.3	4	6	7	9	10	12	14	17	21	28	34	41
TC900/2	71.0	8	11	14	18	21	25	28	35	42	—	—	—
TC900/3	93.9	6	9	11	13	16	19	21	27	32	43	53	—
TC900/4	118.4	5	7	8	11	13	15	17	21	25	34	42	51
TC900/5	146.0	4	5	7	9	10	12	14	17	21	27	34	41
TC900/6	172.9	—	5	6	7	9	10	12	14	17	23	29	35
TC1000/2	77.4	8	10	13	16	19	23	26	32	39	52	—	—
TC1000/3	103.4	6	8	10	12	15	17	19	24	29	39	48	—
TC1000/4	131.0	5	6	8	10	11	13	15	19	23	31	38	46
TC1000/5	160.2	4	5	6	8	9	11	12	16	19	25	31	37
TC1000/6	190.2	—	4	5	7	8	9	11	13	16	21	26	32
TC1500/2	112.1	5	7	9	11	13	16	18	22	27	36	45	54
TC1500/3	151.6	4	5	7	8	10	12	13	16	20	26	33	40
TC1500/4	191.0	—	4	5	7	8	9	10	13	16	21	26	31
TC1500/5	227.3	—	4	4	5	7	8	9	11	13	18	22	26
TC1500/6	264.4	—	—	4	5	6	7	8	9	11	15	19	23
TC1800/2	131.8	5	6	8	9	11	13	15	19	23	30	38	46
TC1800/3	180.0	—	4	6	7	8	10	11	14	17	22	28	33
TC1800/4	226.5	—	4	4	6	7	8	9	11	13	18	22	26
TC1800/5	270.8	—	—	4	5	6	6	7	9	11	15	18	22
TC1800/6	315.0	—	—	—	4	5	6	6	8	10	13	16	19
TC2000/2	148.4	4	5	7	8	10	12	13	17	20	27	34	40
TC2000/3	199.7	—	4	5	6	8	9	10	13	15	20	25	30
TC2000/4	251.1	—	—	4	5	6	7	8	10	12	16	20	24
TC2000/5	298.4	—	—	—	4	5	6	7	8	10	13	17	20
TC2000/6	348.9	—	—	—	4	4	5	6	7	9	11	14	17
TC2500/2	183.9	—	4	5	7	8	10	11	14	16	22	27	33
TC2500/3	249.5	—	—	4	5	6	7	8	10	12	16	20	24
TC2500/4	311.8	—	—	—	4	5	6	6	8	10	13	16	19
TC2500/5	367.0	—	—	—	—	4	5	5	7	8	11	14	16
TC2500/6	427.1	—	—	—	—	4	4	5	6	7	9	12	14

Quick sizing chart

For exact emissions, refer table, page 3

$\Delta T_{55.5}$ Inlet 82°C
 Outlet 71°C
 Room 21°C

Model	watts per section	Radiator emission in kilowatts											
		0.6	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0	4.0	5.0	6.0
		Nearest number of sections required											
TC200/2	17.2	35	47	—	—	—	—	—	—	—	—	—	—
TC200/3	25.4	24	31	39	49	—	—	—	—	—	—	—	—
TC200/4	33.4	18	24	30	37	45	52	—	—	—	—	—	—
TC200/5	38.8	15	21	26	32	39	45	52	—	—	—	—	—
TC200/6	44.3	14	18	23	28	34	39	45	—	—	—	—	—
TC300/2	26.3	23	30	38	47	—	—	—	—	—	—	—	—
TC300/3	37.0	16	22	27	34	41	47	54	—	—	—	—	—
TC300/4	47.9	13	17	21	26	31	37	42	52	—	—	—	—
TC300/5	57.8	10	14	17	22	26	30	35	43	52	—	—	—
TC300/6	68.7	9	12	15	18	22	25	29	36	44	—	—	—
TC400/2	34.4	17	23	29	36	44	51	—	—	—	—	—	—
TC400/3	49.7	12	16	20	25	30	35	40	50	—	—	—	—
TC400/4	63.3	9	13	16	20	24	28	32	39	47	—	—	—
TC400/5	77.8	8	10	13	16	19	23	26	32	39	51	—	—
TC400/6	90.4	7	9	11	14	17	19	22	28	33	44	—	—
TC500/2	44.3	14	18	23	28	34	39	45	—	—	—	—	—
TC500/3	62.3	10	13	16	20	24	28	32	40	48	—	—	—
TC500/4	78.6	8	10	13	16	19	22	25	32	38	51	—	—
TC500/5	96.8	6	8	10	13	15	18	21	26	31	41	52	—
TC500/6	114.0	5	7	9	11	13	15	18	22	26	35	44	53
TC600/2	53.3	11	15	19	23	28	33	38	47	—	—	—	—
TC600/3	73.2	8	11	14	17	20	24	27	34	41	—	—	—
TC600/4	93.1	6	9	11	13	16	19	21	27	32	43	54	—
TC600/5	114.9	5	7	9	11	13	15	17	22	26	35	44	52
TC600/6	136.5	4	6	7	9	11	13	15	18	22	29	37	44
TC750/2	67.0	9	12	15	19	22	26	30	37	45	—	—	—
TC750/3	91.3	7	9	11	14	16	19	22	27	33	44	—	—
TC750/4	115.7	5	7	9	11	13	15	17	22	26	35	43	52
TC750/5	141.9	4	6	7	9	11	12	14	18	21	28	35	42
TC750/6	166.4	4	5	6	8	9	11	12	15	18	24	30	36
TC900/2	81.3	7	10	12	15	18	22	25	31	37	49	—	—
TC900/3	107.5	6	7	9	12	14	16	19	23	28	37	46	—
TC900/4	135.6	4	6	7	9	11	13	15	18	22	29	37	44
TC900/5	167.2	4	5	6	7	9	10	12	15	18	24	30	36
TC900/6	198.0	—	4	5	6	8	9	10	13	15	20	25	30
TC1000/2	88.6	7	9	11	14	17	20	23	28	34	45	—	—
TC1000/3	118.4	5	7	8	11	13	15	17	21	25	34	42	51
TC1000/4	150.0	4	5	7	8	10	12	13	17	20	27	33	40
TC1000/5	183.5	—	4	5	7	8	10	11	14	16	22	27	33
TC1000/6	217.8	—	4	5	6	7	8	9	11	14	18	23	28
TC1500/2	128.4	5	6	8	10	12	14	16	19	23	31	39	47
TC1500/3	173.6	—	5	6	7	9	10	12	14	17	23	29	35
TC1500/4	218.8	—	4	5	6	7	8	9	11	14	18	23	27
TC1500/5	260.3	—	—	4	5	6	7	8	10	12	15	19	23
TC1500/6	302.8	—	—	—	4	5	6	7	8	10	13	17	20
TC1800/2	151.0	4	5	7	8	10	12	13	17	20	26	33	40
TC1800/3	206.2	—	4	5	6	7	8	10	12	15	19	24	29
TC1800/4	259.4	—	—	4	5	6	7	8	10	12	15	19	23
TC1800/5	310.1	—	—	—	4	5	6	6	8	10	13	16	19
TC1800/6	360.8	—	—	—	—	4	5	6	7	8	11	14	17
TC2000/2	170.0	4	5	6	7	9	10	12	15	18	24	29	35
TC2000/3	228.7	—	—	4	5	7	8	9	11	13	17	22	26
TC2000/4	287.6	—	—	—	4	5	6	7	9	10	14	17	21
TC2000/5	341.8	—	—	—	4	4	5	6	7	9	12	15	18
TC2000/6	399.6	—	—	—	—	4	4	5	6	8	10	13	15
TC2500/2	210.6	—	4	5	6	7	8	9	12	14	19	24	28
TC2500/3	285.8	—	—	—	4	5	6	7	9	10	14	17	21
TC2500/4	357.1	—	—	—	4	4	5	6	7	8	11	14	17
TC2500/5	420.3	—	—	—	—	4	4	5	6	7	10	12	14
TC2500/6	489.2	—	—	—	—	—	4	4	5	6	8	10	12

Quick sizing chart

For exact emissions, refer table, page 3

$\Delta T60$

Inlet 90°C
Outlet 70°C
Room 20°C

Model	watts per section	Radiator emission in kilowatts											
		0.6	0.8	1.0	1.25	1.5	1.75	2.0	2.5	3.0	4.0	5.0	6.0
Nearest number of sections required													
TC200/2	19.0	32	42	53	—	—	—	—	—	—	—	—	—
TC200/3	28.1	21	28	36	44	53	—	—	—	—	—	—	—
TC200/4	37.0	16	22	27	34	41	47	54	—	—	—	—	—
TC200/5	43.0	14	19	23	29	35	41	47	—	—	—	—	—
TC200/6	49.1	12	16	20	25	31	36	41	51	—	—	—	—
TC300/2	29.2	21	27	34	43	51	—	—	—	—	—	—	—
TC300/3	40.9	15	20	24	31	37	43	49	—	—	—	—	—
TC300/4	53.0	11	15	19	24	28	33	38	47	—	—	—	—
TC300/5	64.0	9	12	16	20	23	27	31	39	47	—	—	—
TC300/6	76.0	8	11	13	16	20	23	26	33	39	53	—	—
TC400/2	38.0	16	21	26	33	39	46	53	—	—	—	—	—
TC400/3	55.0	11	15	18	23	27	32	36	45	—	—	—	—
TC400/4	70.1	9	11	14	18	21	25	29	36	43	—	—	—
TC400/5	86.1	7	9	12	15	17	20	23	29	35	46	—	—
TC400/6	100.0	6	8	10	12	15	17	20	25	30	40	50	—
TC500/2	49.1	12	16	20	25	31	36	41	51	—	—	—	—
TC500/3	69.0	9	12	15	18	22	25	29	36	44	—	—	—
TC500/4	86.9	7	9	12	14	17	20	23	29	35	46	—	—
TC500/5	107.1	6	7	9	12	14	16	19	23	28	37	47	—
TC500/6	126.1	5	6	8	10	12	14	16	20	24	32	40	48
TC600/2	58.9	10	14	17	21	25	30	34	42	51	—	—	—
TC600/3	81.0	7	10	12	15	19	22	25	31	37	49	—	—
TC600/4	103.0	6	8	10	12	15	17	19	24	29	39	49	—
TC600/5	127.1	5	6	8	10	12	14	16	20	24	31	39	47
TC600/6	151.1	4	5	7	8	10	12	13	17	20	26	33	40
TC750/2	74.1	8	11	13	17	20	24	27	34	40	54	—	—
TC750/3	101.0	6	8	10	12	15	17	20	25	30	40	49	—
TC750/4	128.0	5	6	8	10	12	14	16	20	23	31	39	47
TC750/5	157.0	4	5	6	8	10	11	13	16	19	25	32	38
TC750/6	184.2	—	4	5	7	8	10	11	14	16	22	27	33
TC900/2	90.0	7	9	11	14	17	19	22	28	33	44	—	—
TC900/3	119.0	5	7	8	11	13	15	17	21	25	34	42	50
TC900/4	150.1	4	5	7	8	10	12	13	17	20	27	33	40
TC900/5	185.0	—	4	5	7	8	9	11	14	16	22	27	32
TC900/6	219.1	—	4	5	6	7	8	9	11	14	18	23	27
TC1000/2	98.1	6	8	10	13	15	18	20	25	31	41	51	—
TC1000/3	131.1	5	6	8	10	11	13	15	19	23	31	38	46
TC1000/4	166.0	4	5	6	8	9	11	12	15	18	24	30	36
TC1000/5	203.0	—	4	5	6	7	9	10	12	15	20	25	30
TC1000/6	241.1	—	—	4	5	6	7	8	10	12	17	21	25
TC1500/2	142.1	4	6	7	9	11	12	14	18	21	28	35	42
TC1500/3	192.1	—	4	5	7	8	9	10	13	16	21	26	31
TC1500/4	242.1	—	—	4	5	6	7	8	10	12	17	21	25
TC1500/5	288.1	—	—	—	4	5	6	7	9	10	14	17	21
TC1500/6	335.1	—	—	—	4	4	5	6	7	9	12	15	18
TC1800/2	167.1	4	5	6	7	9	10	12	15	18	24	30	36
TC1800/3	228.1	—	4	4	5	7	8	9	11	13	18	22	26
TC1800/4	287.1	—	—	—	4	5	6	7	9	10	14	17	21
TC1800/5	343.2	—	—	—	4	4	5	6	7	9	12	15	17
TC1800/6	399.3	—	—	—	—	4	4	5	6	8	10	13	15
TC2000/2	188.1	—	4	5	7	8	9	11	13	16	21	27	32
TC2000/3	253.1	—	—	4	5	6	7	8	10	12	16	20	24
TC2000/4	318.3	—	—	—	4	5	5	6	8	9	13	16	19
TC2000/5	378.2	—	—	—	—	4	5	5	7	8	11	13	16
TC2000/6	442.2	—	—	—	—	—	4	5	6	7	9	11	14
TC2500/2	233.1	—	—	4	5	6	8	9	11	13	17	21	26
TC2500/3	316.2	—	—	—	4	5	6	6	8	9	13	16	19
TC2500/4	395.2	—	—	—	—	4	4	5	6	8	10	13	15
TC2500/5	465.2	—	—	—	—	—	4	4	5	6	9	11	13
TC2500/6	541.3	—	—	—	—	—	—	4	5	6	7	9	11

Fixing arrangements, wall brackets and floor mounts

Always use Clyde radiator brackets, supports and stays.

Clyde offer an extensive selection of wall supports, floor supports & mounts and wall stay brackets. If the wall on which the radiators are being installed is solid and sound, then wall mounting using standard wall support brackets and stays is recommended - see fig 1 below. If the wall is generally unsound, a studwork partition wall or built of low density cellular blocks, floor mounts with wall stays are recommended - see fig 2.

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 and the radiators must be installed using screw-on support/stay brackets - see fig 3. 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 supports, floor mounts and wall stays.

Wall stays must always be fitted with floor supports and with floor stands where the radiators are 500 mm or higher.

Wall stays are not normally required for 5 and 6 column radiators up to 400 mm high on floor stands provided that the stands are securely screwed to the floor.

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.

Fig 1 Standard wall support / stay brackets

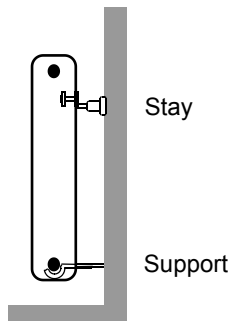


Fig 2 Floor mounts with stays

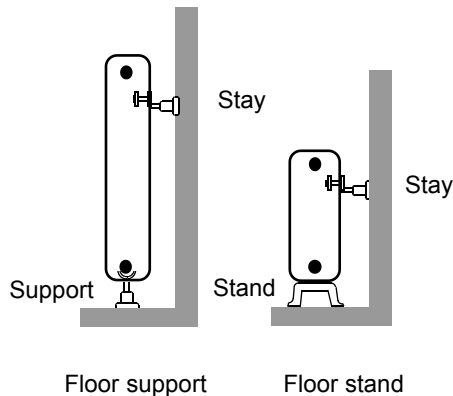
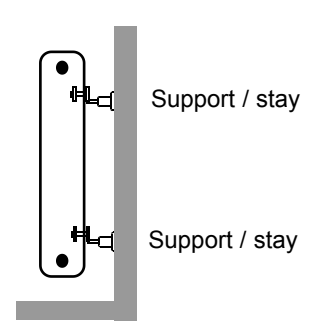


Fig 3 UWM wall support / stay brackets



Maximum block length (sections)

Radiator height mm	Fig 1 standard support / stay brackets				Fig 2 floor mounts with stays				Fig 3 UWM wall supports and stays			
	Maximum number of sections				Maximum number of sections				Maximum number of sections			
	2 supports & 2 stays	3 supports & 3 stays	4 supports & 4 stays	5 supports & 5 stays	2 stands & 2 stays	3 stands & 2 stays	4 stands & 2 stays	5 stands & 2 stays	4 UWM	5 UWM	6 UWM	7 UWM
200	20	30	40	54	20	30	40	54	20	30	40	54
300	20	30	40	54	20	30	40	54	20	30	40	54
400	20	30	40	54	20	30	40	54	20	30	40	54
500	20	30	40	54*	20	30	40	54*	20	30	40	54*
600	20	30	40	54*	20	30	40	54*	20	30	40	54*
750	20	30	40	54*	20	30	40	54*	20	30	40	54*
900	20	30	40	54*	20	30	40	54*	20	30	40	54*
1000	20	30	40	54*	20	30	40	54*	20	30	40	54*
1500	20	30	40	42*	20	30	40	42*	20	30	40	42*
1800	20	30	35*	NA	20	30	35*	NA	20	30	35*	NA
2000	20	30	31*	NA	20	30	31*	NA	20	30	31*	NA
2500	20	25*	NA	NA	20	25*	NA	NA	20	25*	NA	NA

Note: * denotes maximum radiator length - refer page 3

Connections

A set of connection fittings is provided for each radiator. Each set comprises :

2 x R1¼ x R½ pipe connection bushes

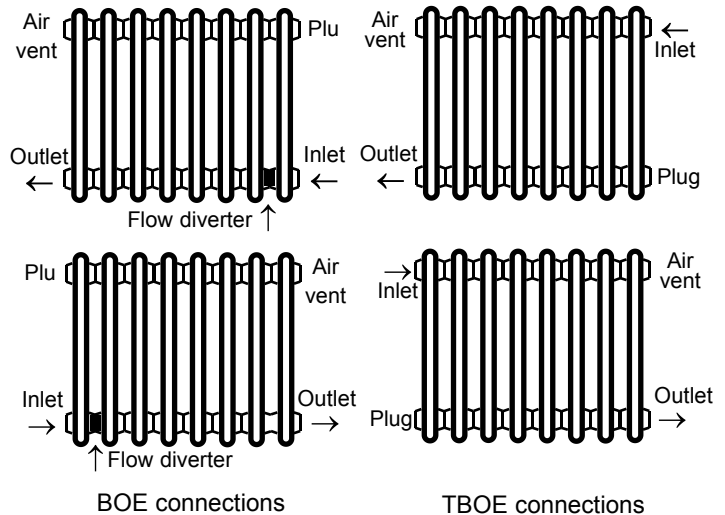
(or R1¼ x R¾ when requested)

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. All radiators supplied from stock will have ½" BOE connections.

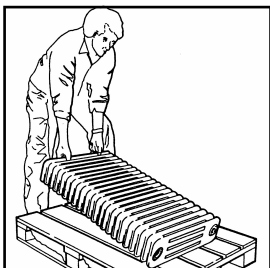
For installations with BOE connections, a flow diverter is fitted at the inlet connection for radiators up to 20 sections long. The flow diverter is attached to the inlet bush connection



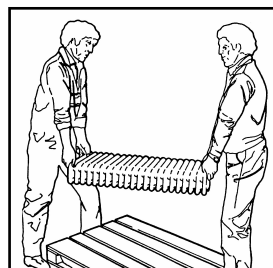
IMPORTANT : Inspect the radiator for any damage before installing and filling with water.

Carrying radiators

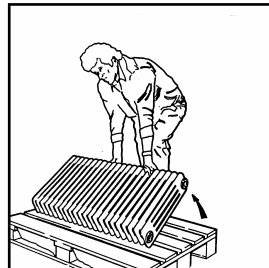
Multicolumn steel radiators are heavy. Always provide sufficient manpower to make carrying safe. Incorrect handling of radiator blocks can cause water leaks from section joints. Lift the radiator blocks in the centre to bring them to the vertical position before lifting and carrying. Never carry radiators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