



COMMERCIAL HEATING SOLUTIONS

Units 13-14 Charlwoods Road East Grinstead, West Sussex, RH19 2HU www.clyderadiators.co.uk 01342 305550

A brand of IRSAP, Italy's leading manufacturer of design led radiators.



MINI CONVECTOR

CONVECTOR HEATING

EDS 900/1 04.09.18

Contents

Clyde is a brand of the IRSAP, Italy's leading manufacturer of design led radiators. With over 50 years experience, we have the expertise to produce the best in quality & customer service.

Clyde provides bespoke solutions for LSTs, Cast Iron, Multi Column and Aluminium radiators. With a wide range of traditional and contemporary radiators, Clyde's solution based approach is designed to ensure we supply the ideal solution for all commercial and industrial requirements.

Our dedicated team of technical advisors and estimators will discuss your installation including the calculation of your heat output requirements (from drawings if necessary), arrange a full quotation based on your exact project specifications and provide lead times. They can also arrange a site visit from our National Sales Network if required.

For more information about Clyde or any of our products, please contact our customer service department: 01342 305522 / 305566

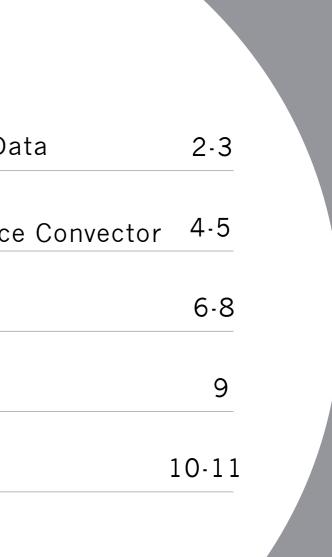
Key Features & Technical Data

Alumaxx® High Performance Convector

Radiator Models & Codes

Connection Configurations

Installation



MINI CONVECTOR

The Mini is a robust and practical product that is floor mounted so it can be positioned almost anywhere.

Range of pipework connection options are available to suit any application; a choice of thermostatic controls for the

Convector heat exchanger suitable for MTHW with a maximum flow temperature of 130°C and 10 bar pressure rating

A convector is especially suitable for this type of emitter, where heat exchange by convection is more desirable than

The one-piece cover is manufactured from 1mm electrolytically galvanised steel to EN 101052 and polyester/epoxy

powder coated for a high quality finish. Easy to clean and a poor harbour for dust and micro-organisms.

The Herz combination valve, shown below, is the standard configuration valve offered by Clyde.

The Herz valve is exceptionally versatile with connections for copper, steel or plastic pipe.

A choice of three alternative valve heads are available for the combination valve and are shown below;

KEY FEATURES

- Aluminium and Copper convector
- Alumaxx[®] High Performance Convector
- 2 Heights, Widths ranging from 600mm to 2600mm
- Depths from 130mm to 280mm
- Floor mounted so can be positioned almost anywhere

Pipework connection size is R¹/₂ Flow and Return same end.

Maximum operating pressure 6 Bar. Test Pressure 6 Bar

The standard valve from Clyde is for 2-pipe systems.

A 1-pipe system valve is available to special order.

Pipe connections are nominal 15mm.

- Available in White RAL 9010
- 5 year guarantee

TECHNICAL DATA

combination valve (see below).

is available to special order.

Maximum working temperature 130°C,

900

radiation

MINI CONVECTOR

TECHNICAL DATA

The Mini is quick and easy to install, The convector can be installed and connected to the system during first fix, and the cover and TRV thermostatic control head fitted during second fix. See page 11 for more installation information and drawings.

PRODUCT FEATURES Easy to fit, first fix option Housing from one part Fixed foot design Robust High Efficiency

- Low water content
- Aluminium & copper convector
- Highly Durable powder coated finish prevent corrosion

HEAT EMISSION RATES

- ΔT50 (75°C / 65°C / 20°C)
- AT55.5 (82°C / 71°C / 21°C)
- ΔT60 (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of ∆T50

RANGE SELECTION

- 2 heights from 130mm / 200mm
- 4 depths from 130mm-280mm
- 11 standard widths 600mm-2600mm
- Other lengths available to special order (up to a maximum of 2600mm)
- Altenative postions; bottom left. top right or top left (for remote sensing valve) or no cut-out (bottom entry connections) will be made to order.
- Standard connection TBSE (Top Bottom Same End)
- Alternative connection options on page 9

Heigh





THERMOSTATIC RADIATOR VALVES & CONTROLS





Standard Herz valve for 2-pipe system, shown with standard manual wheelhead

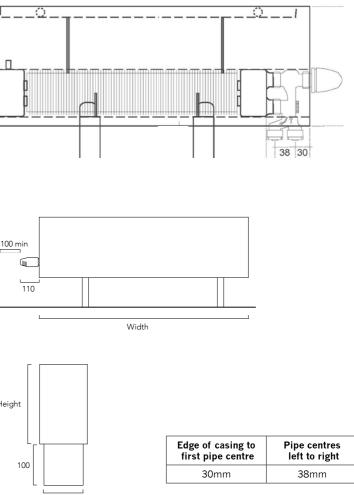
Standard TRV Valve

Anti-tamper TRV valve

Remote TRV valve



TECHNICAL DRAWINGS





Depth

ALUMAXX® HIGH PERFOMANCE CONVECTOR

ALUMAXX® HPC; A UNIQUE HIGH PERFORMANCE CONVECTOR

The Alumaxx® High Performance Convector uses a unique combination of steel and aluminium, guaranteeing a high heat output, low weight and superior construction. The design and number of the aluminium fins contribute to the unique character of the patented Alumaxx® HPC convector.

TOP VIEW

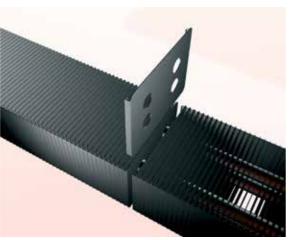
SOPHISTICATED DESIGN

The patented design of the fins of the Alumaxx® HPC convector is essential to delivering a superior product, with double-angled edges creating both a larger surface area and a strong rigid construction.

With a greater surface area than simple flat fins, the Alumax® achieves high heat output for its size.

The double edge 'U' shaped design of the fins creates rigid, flat side walls with no sharp edges, reducing the chance of them being bent or crumpled when handled or fitted. This helps maintain the flow of air through the convector.





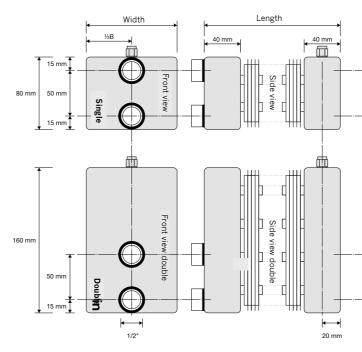
Each fin has shaped & interlocking edges for added strength

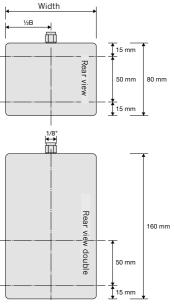
COLLECTOR

The Alumaxx® HPC is extremely versatile with 6 connection options for installation (see the illustrations and dimensions on pages 5 and 12). The standard version is Type B with flow and return on the same end, alternative configurations are available on request at no extra cost.



STANDARD - TYPE B







MINI SIZES AT50 (75°C / 65°C / 20°C)

RADIATOR MODELS & CODES

- Tables below give outputs for each model height at ∆t50
- 1st column = model reference (see right)
- 2nd/3rd column = standard height & width
- 4th column = depth; 130mm, 180mm, 230mm, 280mm, please specfiy at time of order and add the first 2 digits of your chosen depth to your Model code (see example right)
- Bespoke lengths are available to special order to perfectly match any application

MODEL CODE (example) MINI 1H 60 13 → 130 Deep → 600 Wide → 130 High 🗕 Mini

SELECTING YOUR MINI CONVECTOR;

- Choose model, height, width, depth and output as above
- Choose valve connection configuration from page 8. If no preference stated, standard configuration B (TBSE) will be provided
- Select the optionally available valve and TRV valve head from page 2

MINI SIZES AT50 (75°C / 65°C / 20°C)

Model	Height	eight Width	Depth =	130mm	Depth = 3	180mm	Depth = 2	Depth = 280mm		
	(mm)	(mm)	Weight (kg)	∆T50 (watts)	Weight (kg)	∆T50 (watts)	Weight (kg)	∆T50 (watts)	Weight (kg)	∆T50 (watts)
MINI1H60	130	600	7.2	385	10.8	499	14.4	680	18	817
MINI1H80	130	800	9.7	514	14.4	665	19.2	907	24	1089
MINI1H10	130	1000	12	642	18	831	24	1134	30	1361
MINI1H12	130	1200	14.4	770	21.6	997	28.8	1361	36	1633
MINI1H14	130	1400	16.8	899	25.2	1163	33.6	1588	42	1905
MINI1H16	130	1600	19.2	1027	28.8	1330	38.4	1814	48	2178
MINI1H18	130	18000	21.6	1156	32.4	496	43.2	2041	54	2450
MINI1H20	130	2000	24	1284	36	1662	48	2268	60	2722
MINI1H22	130	2200	26.4	1412	39.6	1828	52.8	2495	66	2994
MINI1H24	130	2400	28.8	1541	43.2	1994	57.6	2722	72	3266
MINI1H26	130	2600	31.2	1669	46.8	2161	62.4	2948	78	3539
MINI2H60	200	600	8.4	450	12	630	15.6	853	19.2	1035
MINI2H80	200	800	11.2	600	16	840	20.8	1137	25.6	1380
MINI2H10	200	1000	14	749	20	1049	26	1421	32	1725
MINI2H12	200	1200	16.8	899	24	1259	31.2	1706	38.4	2070
MINI2H14	200	1400	19.6	1049	28	1469	36.4	1990	44.6	2414
MINI2H16	200	1600	22.4	1199	32	1679	41.6	2274	51.2	2759
MINI2H18	200	18000	25.2	1349	36	1889	46.8	2559	57.6	3104
MINI2H20	200	2000	28	1499	40	2099	52	2843	64	3449
MINI2H22	200	2200	30.8	1649	44	2309	57.2	3127	70.6	3794
MINI2H24	200	2400	33.6	1799	48	2519	62.4	3412	76.8	4139
MINI2H26	200	2600	36.4	1948	52	2728	67.6	3696	83.2	4484

MINI SIZES AT55.5 (82°C / 71°C / 21°C)

RADIATOR MODELS & CODES

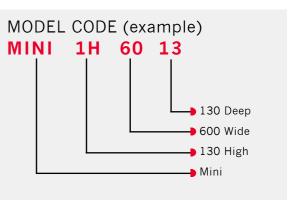
- Tables below give outputs for each model height at ∆t55.5
- 1st column = model reference (see right)
- 2nd/3rd column = standard height & width
- 4th column = depth; 130mm, 180mm, 230mm, 280mm, please specfiy at time of order and add the first 2 digits of your chosen depth to your Model code (see example right)
- Bespoke lengths are available to special order to perfectly match any application

SELECTING YOUR MINI CONVECTOR;

- Choose model, height, width, depth and output as above
- Choose valve connection configuration from page 8. If no preference stated, standard configuration B (TBSE) will be provided
- Select the optionally available valve and TRV valve head from page 2

MINI SIZES AT55.5 (82°C / 71°C / 21°C)

	Height Width (mm) (mm)	Height Width	Depth =	130mm	130mm Depth = 180mm		Depth = 230mm		Depth = 280mm	
Model			Weight (kg)	∆T55.5 (watts)	Weight (kg)	∆T55.5 (watts)	Weight (kg)	∆T55.5 (watts)	Weight (kg)	∆T55.5 (watts)
MINI1H60	130	600	7.2	443	10.8	574	14.4	782	18	940
MINI1H80	130	800	9.7	591	14.4	765	19.2	1043	24	1252
MINI1H10	130	1000	12	738	18	956	24	1304	30	1565
MINI1H12	130	1200	14.4	886	21.6	1147	28.8	1565	36	1878
MINI1H14	130	1400	16.8	1034	25.2	1337	33.6	1826	42	2191
MINI1H16	130	1600	19.2	1181	28.8	1530	38.4	2086	48	2505
MINI1H18	130	18000	21.6	1329	32.4	1720	43.2	2347	54	2818
MINI1H20	130	2000	24	1477	36	1911	48	2608	60	3130
MINI1H22	130	2200	26.4	1624	39.6	2102	52.8	2869	66	3443
MINI1H24	130	2400	28.8	1772	43.2	2293	57.6	3130	72	3756
MINI1H26	130	2600	31.2	1919	46.8	2485	62.4	3390	78	4070
MINI2H60	200	600	8.4	518	12	725	15.6	964	19.2	1190
MINI2H80	200	800	11.2	690	16	966	20.8	1308	25.6	1587
MINI2H10	200	1000	14	861	20	1206	26	1634	32	1984
MINI2H12	200	1200	16.8	1034	24	1448	31.2	1962	38.4	2381
MINI2H14	200	1400	19.6	1206	28	1689	36.4	2289	44.6	2776
MINI2H16	200	1600	22.4	1379	32	1931	41.6	2615	51.2	3173
MINI2H18	200	18000	25.2	1551	36	2172	46.8	2943	57.6	3570
MINI2H20	200	2000	28	1724	40	2414	52	3269	64	3966
MINI2H22	200	2200	30.8	1896	44	2655	57.2	3596	70.6	4363
MINI2H24	200	2400	33.6	2069	48	2897	62.4	3924	76.8	4760
MINI2H26	200	2600	36.4	2240	52	3137	67.6	4250	83.2	5157





MINI SIZES **AT60 (90°C / 70°C / 20°C)**

RADIATOR MODELS & CODES

- Tables below give outputs for each model height at $\Delta t60$
- 1st column = model reference (see right)
- 2nd/3rd column = standard height & width
- 4th column = depth; 130mm, 180mm, 230mm, 280mm, please specfiy at time of order and add the first 2 digits of your chosen depth to your Model code (see example right)
- Bespoke lengths are available to special order to perfectly match any application

MODEL	COD	E (exa	ample)	
MINI	1H	60	13	
				30 Deep
			6	00 Wide
			 1	30 High
			N	lini

SELECTING YOUR MINI CONVECTOR;

- Choose model, height, width, depth and output as above
- Choose valve connection configuration from page 8. If no preference stated, standard configuration B (TBSE) will be provided
- Select the optionally available valve and TRV valve head from page 2

MINI SIZES AT60 (90°C / 70°C / 20°C)

	Height	Height Width (mm) (mm)	Depth =	130mm	Depth = 180mm		Depth = 230mm		Depth = 280mm	
Model			Weight (kg)	∆T60 (watts)	Weight (kg)	∆T60 (watts)	Weight (kg)	∆T60 (watts)	Weight (kg)	∆T60 (watts)
MINI1H60	130	600	7.2	501	10.8	649	14.4	884	18	1062
MINI1H80	130	800	9.7	668	14.4	865	19.2	1179	24	1416
MINI1H10	130	1000	12	835	18	1080	24	1474	30	1769
MINI1H12	130	1200	14.4	1001	21.6	1296	28.8	1769	36	2123
MINI1H14	130	1400	16.8	1169	25.2	1512	33.6	2064	42	2477
MINI1H16	130	1600	19.2	1335	28.8	1729	38.4	2358	48	2831
MINI1H18	130	18000	21.6	1503	32.4	1945	43.2	2653	54	3185
MINI1H20	130	2000	24	1669	36	2161	48	2948	60	3539
MINI1H22	130	2200	26.4	1624	39.6	2376	52.8	3243	66	3892
MINI1H24	130	2400	28.8	2003	43.2	2592	57.6	3539	72	4246
MINI1H26	130	2600	31.2	2170	46.8	2809	62.4	3832	78	4601
MINI2H60	200	600	8.4	585	12	819	15.6	1109	19.2	1346
MINI2H80	200	800	11.2	780	16	102	20.8	1478	25.6	1794
MINI2H10	200	1000	14	974	20	1364	26	1847	32	2243
MINI2H12	200	1200	16.8	1169	24	1637	31.2	2218	38.4	2691
MINI2H14	200	1400	19.6	1364	28	1910	36.4	2587	44.6	3138
MINI2H16	200	1600	22.4	1559	32	2183	41.6	2956	51.2	3587
MINI2H18	200	18000	25.2	1754	36	2456	46.8	3327	57.6	4035
MINI2H20	200	2000	28	1949	40	2729	52	3696	64	4484
MINI2H22	200	2200	30.8	2144	44	3002	57.2	4065	70.6	4932
MINI2H24	200	2400	33.6	2339	48	3275	62.4	4436	76.8	5381
MINI2H26	200	2600	36.4	2532	52	3546	67.6	4805	83.2	5829

CONNECTION CONFIGURATIONS

PIPEWORK AND VALVE CONNECTION

The available connection configurations are shown below. All connections are $\mathsf{R}^1\!\!/_2$.

FIG 3 CONNECTION CONFIGURATIONS

Please note that standard configuration B, highlighted below, would be used with the Herz valves supplied by Clyde.

Configuration A



Configuration B (Standard)



Configuration C



0

Configuration D

Configuration E

Configuration F



00



Configuration G





VBSE (Vertical Bottom Same End



TBSE (Top Bottom Same End)



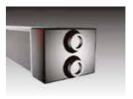
VBBE (Vertical Bottom Both End)



CBE (Centre Both End)



VBTBOE (Vertical Bottom & Top Bottom Other End)



TBBE (Top Bottom Both Ends)



SCOE (Single Centre One End)



INSTALLATION

PRELIMARY

Before unpacking, please ensure that the delivered sizes and quantity are correct. Any shortages or damages must be notifed to Clyde Radiators in writing within 7 days; Clyde Radiators, 13-14 Charlwoods Road, East Grinstead, West Sussex, RH19 2HU.

Unpack carefully and inspect the convector, cover and fittings. The following items should be identified;

- Convector
- Casing •
- 1 Grille
- 2 Floor mounts •
- Herz valve, TRV thermostatic valve head & changefix spanner if ordered •
- 1 Manifold •
- 1 Airvent
- 2 Retaining Bars

Fig 4 below is a diagram of the Mini. Refer page 3 for bracket fixing dimensions and pipe centres.

INSTALLATION

The Mini Convector is quick and easy to install, as shown in the six steps on page 11. The convector can be installed and connected to the system during first fix, and the cover and TRV thermostatic control head fitted during second fix.

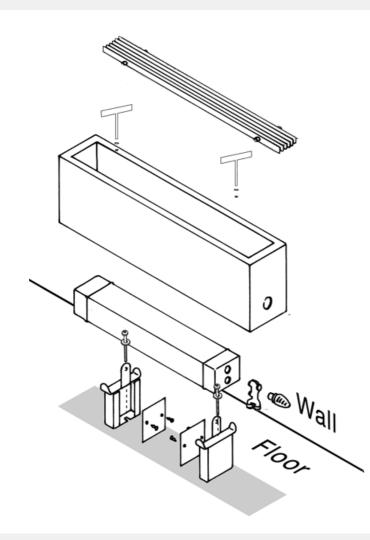
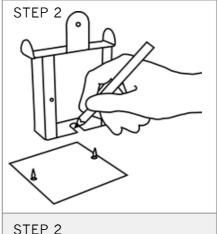


FIG 4 MINI DIAGRAM

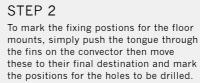
INSTALLATION

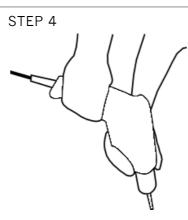


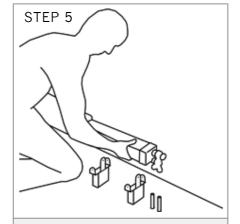


STEP 1

The Mini is free standing and therefore can be placed anywhere in the room. The floor mounts are fixed to the floor using suitable fixings. For a smooth apperance the removable panels are ideally placed inwards facing each other. The panels should not be fixed in place until the installation is complete (retain and keep safe the panels and plastic push fit fixings ready for use in step 6).







Using a suitable drill bit, accurately drill the pre-marked holes, securely fix and align the floor mounts.

Please note It is essential that the floor mounts are in alignment prior to positioning the convector

connected. Do not fit the TRV head at this point. Please note: the convector sits off-centre due to the allowance required by the TRV and the manifold as shown in step 3.

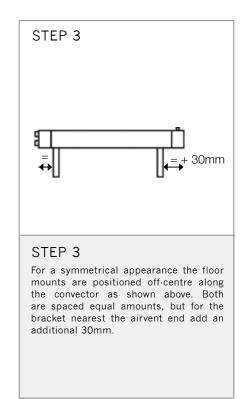
STEP 5

PLEASE NOTE:

STEP 4

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.





With the floor mounts firmly fixed to the floor, the convector is pushed down so the bracket tongues are forced between the fins to their predetermined positions.

With the convector securely positioned the manifold airvent & pipe work can be

STEP 6

With the convector positioned and connected the casing can be lowered and secured onto the floor mounts.

First place the screw thread of the retaining bars through the hole in the floor mount and secure loosely with the nuts and washers provided (please note the fins through which the bar passes may be bent slightly, this will not affect performance).

Turn the retaining bar at right angles to the fins and lower the casing into position. With the casing positioned turn the retaining bar parallel to the fins and tighten securely. When the casing is secure, the grille can be put in place and the panels on the floor mounts can be fixed in place using the plastic push fit fixing pins.

The casing and grille can be easily removed for cleaning and / or decorating purposes by simply removing the TRV head and removing the retaining bars.



ALTERNATIVE CONVECTOR - THE CENTURION

An alternatvie option to the Mini is the Centurion. The Centurion LST range has been specifically designed to provide safe, durable and practical heating for areas where the care and safety of occupants is a primary concern.

PRODUCT FEATURES

- Quick and easy to install, first fix option
- Alumaxx[®] High Performance Convector
- Sturdy single piece casing
- Robust High Efficiency
- Low water content
- Aluminium & steel heat emitter
- Highly Durable powder coated finish prevent corrosion
- BSRIA tested

See EDS 812/2 for full details



OTHER CLYDE PRODUCTS



COMMERCIAL HEATING SOLUTIONS

- 4 Flat Panel radiators
- Lightweight & Efficient Sectional Aluminum
- Sectional Cast Iron in 4 styles
- Sectional Steel Multi Column in over 3200 sizes
- Trench: Practical aluminium convector for underfloor heating
- 2 Bespoke LST options, made to specification





