

hurlcon hydronic central heating

- Ideal for asthma & allergy sufferers
- Pleasant & comfortable warmth
- Highly efficient natural heat
- Safe, efficient & reliable
- No noise or draughts
- Low maintenance

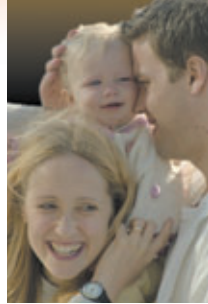


What is Hydronic Heating?



Hydronic central heating is the most natural and pleasant form of central heating. The ancient Romans are credited with first using radiant heating to warm their celebrated bath houses where patrons luxuriated in the natural warmth.

2000 years later the comfort and natural warmth is still as luxuriant however modern state of the art equipment makes it much simpler to enjoy.



The heart of a modern hydronic central heating system is a sophisticated electronic thermostat and high efficiency gas fired boiler that heats water and silently circulates it to radiators or convectors located in each room of the house before returning to the boiler to be reheated.

One of the many benefits that Hurlcon hydronic heating offers, is that each room can be individually thermostatically controlled, providing the ultimate in comfort and flexibility.

Hurlcon has been a leading specialist in Hydronic central heating for over three decades. Hurlcon products and systems have stood the test of time with satisfied customers giving glowing testimonials of long and reliable service.

Hurlcon have a wide range of radiators and convectors that can be fitted in your home to suit your lifestyle. Hydronic central heating can be fitted to new and existing homes and requires very little space within walls or under floors unlike bulky ducting for forced air systems.

The diagram below illustrates the flow of water through a typical two pipe system.



Features

Comfortable - Hydronic Heating is the most pleasant and comfortable form of heating as it is provided by natural convection and radiation. Much more comfortable than blowing hot air. No more suffering from dry air, draughts or unbalanced hot and cold spots from high temperature fires, burners or ducted systems.

Healthy - Ideal for allergy or asthma sufferers. Hydronic heating warms with minimal air movement so there are less dust and allergens and no drying of the air.

Individual control - each radiator has a control which will increase, decrease or turn off the heat. Living areas can be warmer than bedrooms and seldom used rooms can be turned off to provide the comfort you want and savings on your gas bill.

Efficient - a central heating system with low running costs using a highly efficient boiler. With a control on each unit, you only pay for the heat and comfort you need.

Silent - there are no fans blowing hot air so there is no noise or draughts, just quiet, comfortable warmth.

Reliable - Hurlcon Hydronic Heating is very reliable, simply install and relax. The only moving parts are in the pump which is used to circulate the hot water to the radiators and convectors. Hurlcon use special pumps designed to give long, trouble-free life. Hurlcon boilers are also designed to withstand the ravages of time. Spare parts although seldom needed are kept in stock for all Hurlcon systems.

Add value - Installing a Hurlcon hydronic central heating system will add value to your home should you decide to sell.

Hurlcon hydronic central heating systems may include any of the following equipment.

- Wall mounted panel radiators which radiate heat and also distribute it by natural convection. Radiant heat is like the warmth provided by the sun. Convection is the natural process which pleasantly circulates warm air. Hot air rises and cooler air flows in, which is in turn heated so the circulation continues.
- Our Thermaboard range can take the place of a skirting board and provide a very even distribution of heat by natural convection.
- Fan convectors have an electric fan to provide circulation in difficult to heat areas. The key to Hurlcon Hydronic heating is comfort, flexibility and style.

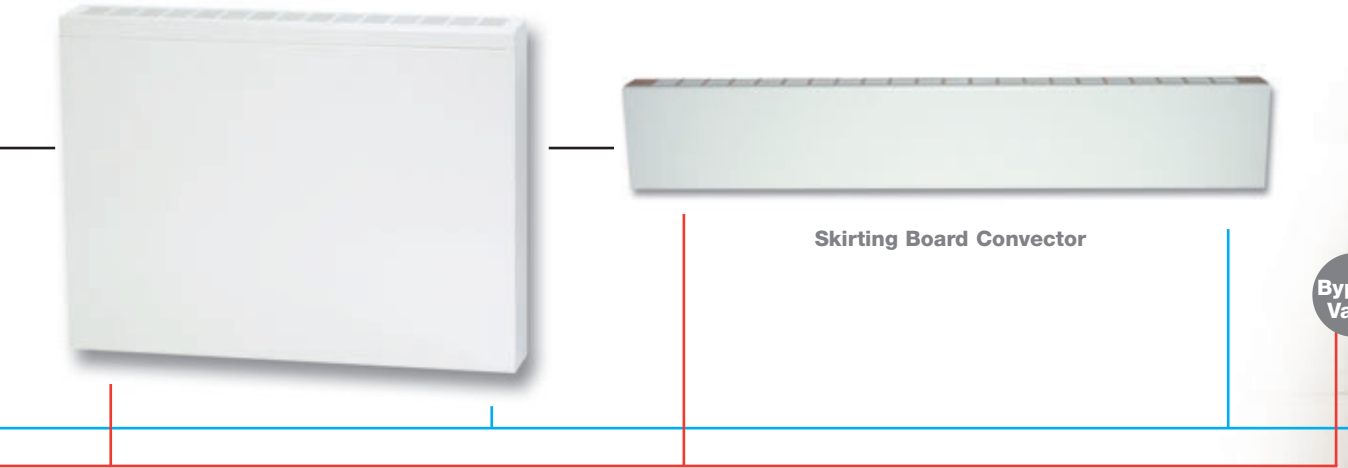
Natural Convector



Skirting Board Convector



Bypass Valve



Hurlcon Hydronic Boilers

Wall Hung or Free standing Hot Water Boilers

Hurlcon Boilers are specifically designed for most domestic hydronic heating applications. Hot water from your Hurlcon boiler is pumped to every corner of your home quietly and with high energy efficiency utilizing any combination of panel radiators, natural convectors or fan convection.

All of the Hurlcon hot water boilers are efficient to save on your gas bill, and provide high performance heating on demand.

Features

High Efficiency - Up to 82% thermal efficiency. On Wall Hung models efficiency is further increased because less heat escapes from the heat exchanger during off cycles.

Accurate Water Temperature Control - Achieved by an electronic temperature Control, energy management system and digital display.

Electronic Ignition - With Hurlcon boilers, you will never need to worry about relighting a pilot on a cold, wet and windy night.

Designed for years of trouble free service - High quality, longlife components inside a fully marine grade powder coated steel cabinet. All copper waterways ensure corrosion resistance and long life.

Enhanced Safety Features - Flow switch, automatic high temperature cut-out and pressure relief valve, expansion tank, pump run-on timer.

Compact Size, Various Installation Options - Install inside the home, outside, floor or wall mounted, and available in natural gas or LP gas.

Minimal Installation Costs - Complete package comes ready to install, with all connections conveniently located outside the unit for quick, easy access and labels for correct identification.



Genus IV

Hydronic Central Heating Thermostat

The design brief for the Hurlcon Genus IV central heating thermostat was, **“make it easy to program and operate”**.

The Hurlcon Genus controls have been a leader in their field and this proven technology is now available in a central heating thermostat.

The fully programmable Genus IV not only provides simple and accurate control of your hydronic central heating system but actually communicates with

Hurlcon GIV compliant boilers to give boiler status indication and ensure the ultimate in comfort, energy savings and convenience.

- Easy to program 5 / 2 day room thermostat.
- Displays actual room and set point temperatures.
- Large backlit LCD display and buttons.
- Neutral white housing.



Therma-rad Panel Radiators

Therma-rad Panel Radiators provide the most pleasant and natural form of Heating. Hot water from a central boiler is circulated through the panels, which provide warmth by radiating heat without noise or draughts.

They also distribute warmth by natural convection, with cooler air entering the bottom of the panel being heated as it passes through the warm fins behind the front panel and rising out of the top, gently circulating warm air to

provide an even temperature throughout the room.

Therma-rad can add style to your home with their attractive modern design and finish in a neutral off white colour to compliment any decor.

What Sizes are Available?

The most popular sizes are 600mm high of various lengths between 400mm to 2000mm in single or double or triple panel models. A wide range of non-stock sizes are available.

Supplied complete with

- Concealed wall brackets with plastic inserts.
- Side covers and top grille.
- Air bleed valve 1/2" BSP with "O" ring seal.
- Plain plug 1/2" BSP with "O" ring seal.
- 10 year warranty.



Coanda Natural Convectors

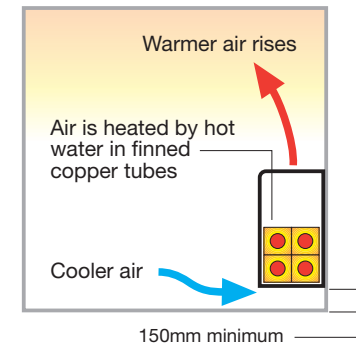
"Coanda" Natural Convectors combine the advantages of central heating with the compactness and silence of panel radiators. The attractive casing never gets hotter than body temperature - that's why Coanda convectors are the natural choice when the safety of young children and the elderly is paramount. Natural Convectors are ideal for the home as well as kindergartens, child minding centres, schools, and aged care hostels.

Hot water from a central boiler is pumped through copper tubes in the natural convector and nature does the rest. Cooler air enters through the

bottom of the "Coanda". As the air flows past the finned copper tubes it is heated and escapes through the top. Warm air is gently circulated throughout the room without draughts or noise. And its maintenance free, there are no moving parts and waterways are all copper.

What Sizes are Available?

The most popular sizes are 600mm high of various lengths between 600mm to 2400mm. Other sizes are available of between 300 and 900 high. All Coandas are made to order. Contact Hurlcon for more details and sizes.



Thermo Line Towel Rails

Thermo Line Hydronic Towel Rails are ideal radiators for bathroom, kitchen and utility rooms as it heats the room and can dry your towels or clothes at the same time. Its tubular design makes cleaning a breeze and is produced with materials and technology exceeding European standards. Available in neutral off white and chrome powdercoat finish for durability.

Features

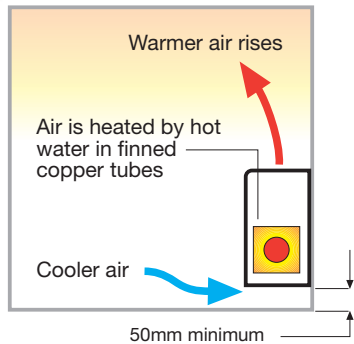
- Heats the room and dries your towels at the same time
- Slim design maximizes room area
- Several sizes to choose from.



Thermaboard

Skirting Board Convectors

Thermaboard Skirting Board Convectors take the place of a traditional skirting board and deliver an even distribution of warmth throughout the whole room. Because Skirting Board Convectors are mounted at low level they can be more discrete than a taller panel radiator or Coanda convector if this is a requirement. Hot water from a central boiler is pumped through copper tubes within the convectors and nature does the rest.



The attractive slim line casing never gets hotter than body temperature and will not burn children or the elderly. Ideal for the home as well as kindergartens, child minding centres, schools, public buildings, hospitals, aged care hostels and independent living centres.

What Sizes are Available?

Skirting convectors are available in lengths between 900mm and 3000mm in increments of 300mm. Case joiners are available to achieve longer lengths.



Space Savers

Hydronic Fan Convectors

Hurlcon Space Saver Fan Convectors offer a range of economical, attractive, space saving hydronic fan convectors which provide warmth for all areas of your home. Connect these fan convectors to a Hurlcon Hydronic Boiler for safe efficient and affordable warmth. Space Saver fan convectors can be happily combined with panel radiators or skirting convectors for that "ideal heating system"

Features

Individual control - 2 speed fan control on all models, temperature control thermostat is supplied on Wall Mount and optional Remote Thermostat for Kickboard. The fan only runs when hot water is available so cold air is not blown into the room.

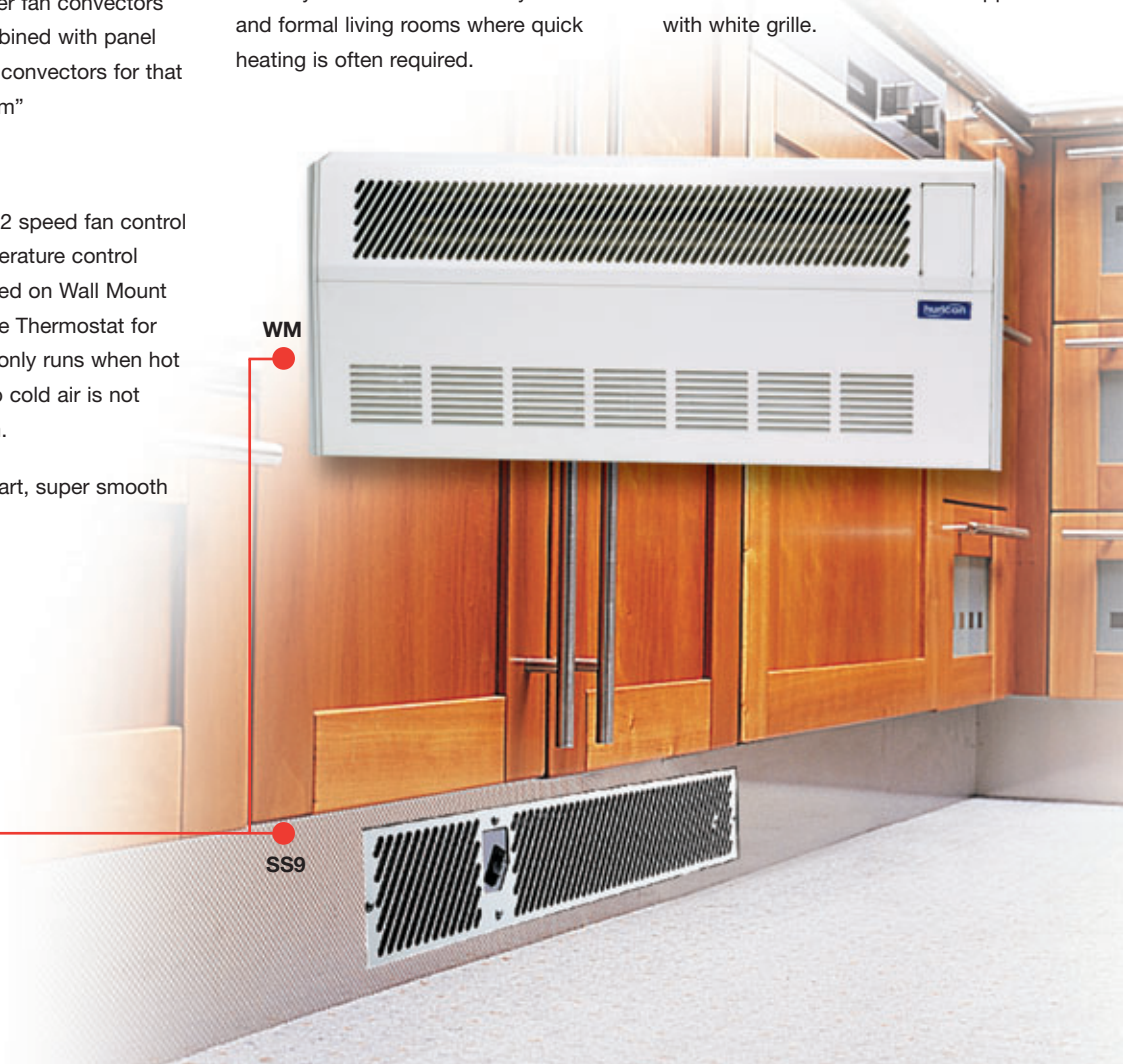
Quiet - state of the art, super smooth fan.

Wall Mount (WM 14 & 21)

An attractive approach to modern heating needs where wall space is at a premium. The neutral Ash Grey epoxy finish blends nicely with most colour schemes or you can paint it whatever colour you like. Ideal for family rooms and formal living rooms where quick heating is often required.

Kickboard (SS9)

Will fit into amazingly small spaces which are normally wasted such as under stair wells, kitchen cupboards, wall cavities, etc. This unique compact design will heat those "difficult to heat" areas that other heaters can't. Supplied with white grille.



Specifications and Dimensions

Hydronic Boilers

Technical Specifications

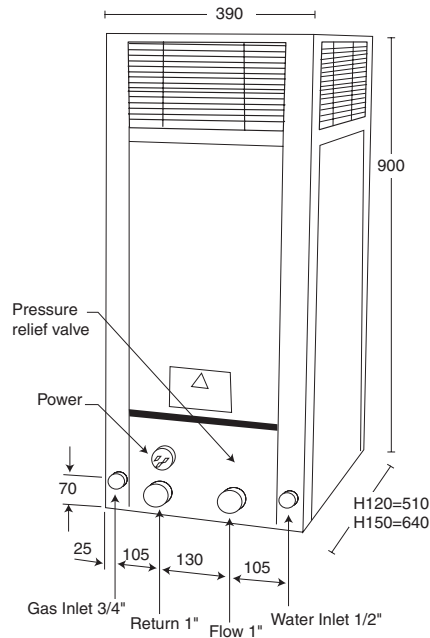
Model HW 160 & 130	
Height:	905mm
Width:	651mm, 520mm
Depth:	325mm
Gas Input:	144MJ, 105MJ
Gas type and pressure:	Natural Gas 1.1kPa or LPG (Propane) 2.75 kPa
Nominal Output:	35kw, 25kw
Temperature Range	55-90°C (35-55°C Floor Heat)
Expansion Vessel	7 litre diaphragm
Packed Weight	60kg, 50kg



Model Hydronic 150 & 120	
Height:	900mm
Length:	640mm, 510mm
Width:	390mm
Gas Input:	144MJ, 105MJ
Gas type and pressure:	Natural Gas 1.1kPa or LPG (Propane) 2.75 kPa
Nominal Output:	35kw, 25kw
Temperature Range	55-90°C (35-55°C Floor Heat)
Expansion Vessel	7 litre diaphragm
Packed Weight	60kg, 50kg



Dimensions



Genus IV

Technical Specifications

Program	5/2 program with 2 on/off periods weekday and weekend
Set point range	10°-40° (thermostat switches to off if set below 10°)
Resolution	Display resolution 1°. Actual measurement resolution 0.3°
Power	30vDC powered from Hurlcon GIV compliant boiler
Battery	CR2032 Lithium 3V (program back up only)
Battery Life	Approx 5 years
Display	2 line back lit LCD displays actual and set temp, program mode, time, boiler status. Back lighting activated by pressing any button, shuts off after 30 seconds with no activity



Connections	RJ13 at boiler and thermostat
Cable	6 core cat5 up to 100 metres (Available separately from Hurlcon)
Mounting	Flush or surface mount with brackets and housing provided
Compatibility	This thermostat is intended for use with Hurlcon GIV compliant boilers only and cannot be used with any other types

Dimensions

Therma-rad

Technical Specifications

Panel gauge	1.25 mm cold rolled steel
Test Pressure	1300 kPa (13 bar) min
Working Pressure	1200 kPa (12 bar) max
Connections	1/2" BSP - use 2 of 4 provided
Finish	Powder coated - white RAL 9010
Packaging	Heavy duty cardboard, bubble pack and shrink wrap
Warranty	10 Years



Heat Output (kW)

Length (mm)	400 High		600 High	
	Single	Double	Single	Double
400	0.38	0.72	0.54	0.99
500	0.48	0.90	0.68	1.24
600	0.58	1.08	0.81	1.49
700	0.67	1.26	0.95	1.64
800	0.77	1.44	1.08	1.99
900	0.87	1.62	1.22	2.24
1000	0.97	1.80	1.36	2.49
1100	1.06	1.98	1.49	2.73
1200	1.16	2.16	1.63	2.98
1400	1.35	2.52	1.90	3.48
1600	1.55	2.88	2.17	3.98
1800	1.74	3.24	2.44	4.48
2000	1.94	3.60	2.72	4.98

Dimensions

Coanda

Technical Specifications

Accessories:	"Coanda" Natural Convectors are supplied with mounting brackets, heating element, and air bleeds. A range of accessories are available which include valves and fittings.
Finished:	Powdercoated Bond off white.

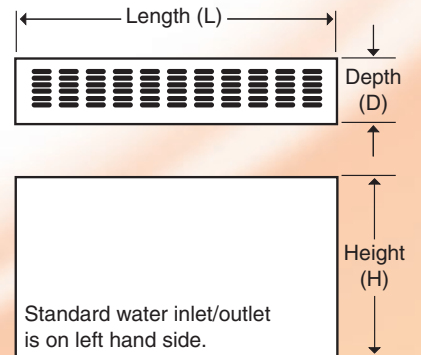


Heat Output (kW) & model nos, for 120mm & 180mm Case Depth (D).

Length (Lmm)	Height 600mm	Depth 120mm	Depth 180mm
600		0.94	1.35
800		1.35	1.93
1000		1.75	2.51
1200		2.16	3.10
1400		2.56	3.68
1600		2.97	4.27
1800		3.38	4.85
2000		3.76	5.44
2400		4.60	6.60

Emissions based on a mean effective temperature difference (M.E.D.) of 60°C

Dimensions



Specifications and Dimensions

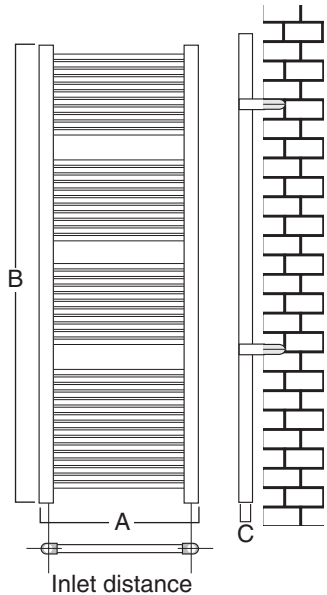
Thermo Line

Technical Specifications

Heat Output (kW)

Height (B)	Width (A)		
	500mm	600mm	750mm
764	0.48	0.56	0.68
1172	0.69	0.83	1.03
1750	1.01	1.21	1.49

Dimensions



Thermaboard

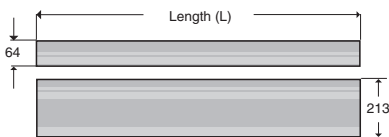
Technical Specifications

Heat Output (kW) for single and double elements

Length (Lmm)	Single	Double
900	0.54	0.63
1200	0.72	0.84
1500	0.90	1.05
1800	1.08	1.30
2100	1.30	1.47
2400	1.44	1.68
2700	1.62	1.89
3000	1.80	2.10

Emissions based on a mean effective temperature difference (M.E.D.) of 60°C

Dimensions



Space Savers

Technical Specifications

Heat Output (kW) - Kickboard SS9

Fan Speed	Temperature Difference °C					
Normal	20.0	30.0	40.0	50.0	60.0	66.6
Low	0.78	0.99	1.31	2.01	2.61	2.90
Boost	0.55	0.69	0.91	1.41	1.83	2.03

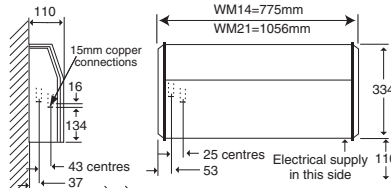
Heat Output (kW) - Wallmount WM14

Fan Speed	Temperature Difference °C					
Normal	20.0	30.0	40.0	50.0	60.0	66.6
Boost	1.38	1.83	2.44	3.09	3.66	4.07
Normal	1.03	1.37	1.83	2.32	2.74	3.05

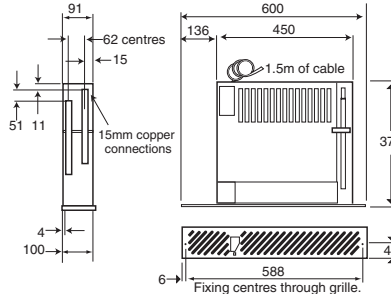
Heat Output (kW) - Wallmount WM21

Fan Speed	Temperature Difference °C					
Normal	20.0	30.0	40.0	50.0	60.0	66.6
Boost	2.04	2.71	3.61	4.58	5.42	6.02
Normal	1.53	2.03	2.71	3.43	4.06	4.52

Dimensions - Wallmount



Dimensions - Kickboard



Valves

Radiator Valves

Hurlcon offers a broad range of valves to suit most hydronic heating systems. We stock exclusively the premium German Oventrop brand.

Features:

- Right angle, reverse pattern or straight valves available to suit different installation methods.
- Thermostatic heads available to provide individual control
- Copper and PEX pipe connectors available to suit most piping systems.

Therma-Valve Modular Manifold

TV modular manifolds provide the perfect solution for hydronic in-floor heating systems using cross linked polyethylene barrier piping. Simply add as many blocks as required and bolt together with the bracket set supplied.

Therma-Plumb

Therma-Plumb fittings and cross linked polyethylene barrier pipe offer a complete system of plastic plumbing for Hydronic systems. Therma-Plumb Barrier Pipe is specifically manufactured for Hydronic heating systems to stop oxygen permeating through the pipe wall. Extensive tests have shown that Therma-Plumb products will withstand temperatures and pressure well in excess of normal working conditions. Therma-Plumb should be installed to conform with good Plumbing practice. Therma-Plumb must not be used for gas, fuel oil or compressed air applications.

Features:

- 25 year Guarantee
- No special tools required.
- Reduced installation time
- Corrosion resistant



Hurlcon Manufacturing & Sales Pty Ltd
 ABN 97 007 284 504
 Email sales@hurlcon.com.au
 Web www.hurlcon.com.au

Victorian Office
 42 Rocco Drive
 Scoresby Victoria 3179 Australia
 Telephone 03 9765 9765
 Facsimile 03 9764 9009

NSW Office
 2/21 Foundry Road
 Seven Hills NSW 2147
 Telephone 02 9674 8544
 Facsimile 02 9674 8522

Queensland Office
 1/27 Millenium Place
 Tingalpa QLD 4173
 Telephone 07 3393 3233
 Facsimile 07 3393 3255

South Australian Office
 157 William Street
 Beverley SA 5009
 Telephone 08 8345 5755
 Facsimile 08 8345 5211

West Australian Office
 97 Sheffield Road
 Welshpool WA 6106
 Telephone 08 9258 9322
 Facsimile 08 9258 9344

Available from:

* Specifications & Dimensions subject to change without notice