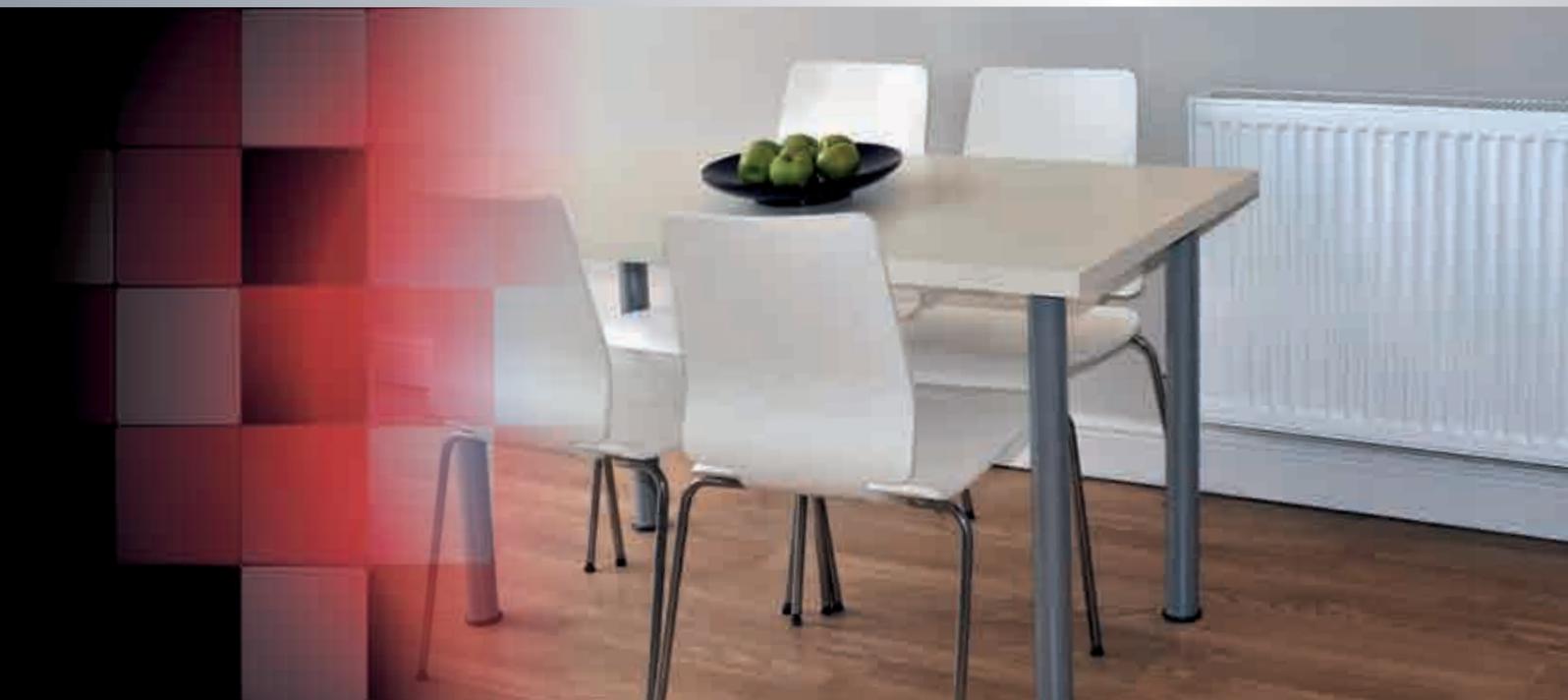


# savona

innovative heating • european style



Get the Cosy Feeling with Savona

# Welcome...

...To the Savona 2011 Catalogue.

Savona are pleased to present our range of innovative heating solutions. This comprehensive catalogue will provide all your heating solutions.

We invite you to discover the future in New Zealand home heating today!

Continuous investment in research and development by Savona now satisfies the heating needs of its customers in homes throughout New Zealand.

With a proven reputation for quality, reliability, performance and efficiency, Savona offers you a full and extensive range of products.

When you have your Savona product installed, we are always on hand to help. Our friendly and experienced technical support team is available to advise you on any aspect of your product purchase.

Our friendly team will help with choosing the right boiler or controls. We can advise on cost-saving renewable systems like solar water heating products.

Savona will recommend a 'Savona Approved Installer' to help with your system installation.

When purchasing Savona you receive a lifetime of care.

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# Savona Innovative Heating

## Savona

New Zealand's leading supplier of innovative central heating systems. Savona brings first class technology and design with our great range of products, service and technical advice.

With the high heating capacity of our energy efficient range of radiators and boilers, we create a perfectly comfortable indoor climate with controllable heating throughout your home.

A range of programmable thermostat controllers, giving you finger tip control, are available with your system.

With a Savona heating system you are getting an individually designed system incorporating the best quality products. We have a team for designing and specifying the particular requirements for each individual project.

The team are ready right now to discuss your most suited choice on heating options.

Savona only uses quality products from Europe, giving you the total peace of mind and unparalleled quality. Fully installed by our expert team of qualified and preferred installers and supported by our team of dedicated heating engineers.

Savona have a team of specialist "preferred installers" nationwide that carry out the installation of our innovative heating systems.

Included in the installation of your system is your first annual service. Done yearly your Savona system will last a lifetime.

With Savona heating you are making an investment in your families' health. Studies have shown that a radiant heating system is hugely benefit to our general health. Especially those with respiratory conditions such as asthma.

*Thank you for choosing Savona.*



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# Savona innovative heating



## Innovative Heating European Style

Central heating is a means of providing heat throughout your entire home by using a single energy source or combining eco-friendly energy systems. Worldwide central heating systems account for in excess of 70% of all home heating systems. It is a highly controllable heat, as you can separate your home into zones giving you the comfort you require. A well designed system will give controllable, efficient and healthy heat throughout the entire home. With New Zealand's unpredictable climate, radiators, with their quick response time, are the most efficient way to transmit heat into the rooms followed by underfloor heating.

**To get the most out a central heating system it has to be designed to meet your specific requirements and assembled from following components:**



## Heat Source

This is the heart of the system where warmth is created. By burning of fuels, solar capture or electrical input the following systems or combination of, generate a heat source that can be manipulated through the home.

- **Boilers** - burn a fuel to create a hydronic heat flow through a heat exchanger. Boiler fuels range from natural gas, LPG, diesel, wood, coal and pellet feed, each with its own advantages depending on location.
- **Heat pumps** - the electrical option that efficiently extracts renewable energy stored in the air or from a more constant temperature ground source.
- **Solar- panels** that capture free energy from the sun and can be integrated into any system.



## Control

This is where the finger tips decide how, when and where warmth is required for true comfort. Control stations can be 'wired, together to heat source or 'RF' wireless for ease of installation.

- **Program station** - electronic master control that can brings management of system all together.
- **Thermostats** - a temperature sensor that range from electrical units to accurately control comfort to electronic panels that are a integrated program station.
- **TRV/lockshield** - a mechanical temperature valve set to control radiators with options for electronic programmable interface. TRV's can be replaced with actuators to have full electronic control over system.



## Pipe Works

Are the unseen arteries that move warmth through hydronic flow from source to room requirement. Pipe works includes piping, connectors, pumps, manifolds and valves for zoning areas to be controlled.



## Heat Diffuser

Where the warmth becomes comfort. The part of the system that transfers the heat into room or area where warmth is required. This can be achieved through radiators, underfloor pipe work or fan assisted heating element.

- **Radiators** - Have excellent heating capacity, coupled with low energy consumption. Radiators both radiate heat from the panel face as well as through natural convection from a concealed heat sink. The natural convection of radiators ensures that heat rolls gently around the room distributing an even comfortable heat. Savona's progressive range of radiators includes Steel Panel radiators, Canal In-floor radiators, Designer Tubular radiators, Ladder heated towel rails and Hygienic Antimicrobial radiators for hospitals, rest homes and schools. There are even fan assisted units for very confined spaces or very large open areas. Savona offers a radiator solution for every application.
- **Underfloor Heating** - Offers heating with versatility and flexibility that does not interfere with interior design or de'cor. Any size or shape of space can be heated efficiently and silently by circulating heated water through a series of continuous loops piped in the floor. By spreading the heat through the floor, a large radiant surface is created to allow heat to gradually rise uniformly heating the entire room space.

Savona offer a range of systems giving superb heating performance and long lasting durability compatible with various flooring systems and floor coverings. Systems include options for In Slab, Screed Layer, Suspended or Floating floor formats to be incorporated in the floor design.

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# Savona Boiler Options

## System Boilers

A heating boiler with single heat exchanger, primarily designed for heating of rooms with option of heating DHW (domestic hot water) through an additional hot water storage cylinder. The cylinder can have options for dual fuel or backup electric element.

## Combi Boilers

A central heating boiler and high efficiency water heater, all in one unit. Because your water is heated directly from the mains, this means you won't need a hot water storage cylinder or cold water storage cistern.

As a result, your hot water is delivered to your shower or taps at mains pressure. This means the system is very convenient and can offer you added benefits.

## EXCLUSIVE to Savona **Exterior Combi Boilers**

External gas boilers are an innovative wall hung option for outdoor installation. The exterior option gives you ease of placement and assurance of the gas lines being on the outside of your building. The Savona units (30e) have a sealed chamber and forced draught; this means that the combustion air inlet and flue outlet circuit is completely isolated from the surrounding environment. The Savona 30e casing has been developed for local conditions.

## High Efficiency (HE) Condensing Boilers

The range of high efficiency condensing boilers, combines the utmost levels of comfort with an energy saving performance, designed with proven components to ensure the best reliability. The stylish, compact design also allows for easy siting and flexibility and its simple controls provide ease of use and serviceability. The design of the "high efficiency boiler" incorporates condenser technology, a special heat exchanger which reclaims normally wasted heat from the flue gases, saving energy, lowering your fuel bills and protecting the environment.

- SEDBUK\*, A band and B band rated
- Built-in frost protection

## Storage Boilers

Wall-hung efficient storage combis can match a traditional system's higher flow rate whilst also offering the benefit of hot water on demand whenever you need it. And with no separate tanks or cylinders required.

Savona efficient storage boilers incorporate this clever all-in-one designed tank to maximise efficiency. The particular shape of the tank, with a capacity of 55 litres, satisfies the highest demands for hot water and heating whilst reducing energy consumption and allowing a powerful high exchange that fully recharges the store in approximately six minutes.

- Built in 55 Litre storage cylinder
- Quick 6 minute recovery time
- Wall hung space saving solution
- Compatible with Solar water heating

## Boiler Fuel Types

**GAS BOILERS:** are available in both, piped NG or bottled LPG gas options. Gas is the efficient option giving clean, effective, quick responding heat from compact wall hung boilers. Boilers can be located internally with through wall or roof flue options.

**DIESEL BOILERS:** Oil boilers are for rural settings or where gas is of limited supply. Savona diesel boilers are manufactured from cast iron fire box offering more intricate heat channelling and trouble free life span and fitted with burners to most efficiently burn standard transport diesel. Requires on site diesel storage tank.

**SOLID FUEL OR MULTI-FUEL:** A range of boilers that support wood or pellets with possible options for coal or oil as fuel source. Wood is the environmentally friendly renewable energy source option that is considered to have a carbon neutral footprint. Wood boilers are well suited to lifestyle or rural settings while pellet burners offer automatic feed and are economically comparable with LPG or Diesel as a fuel.

*\*Sedbuk rating is Seasonal Efficiency of Domestic Boilers UK rating and shouldn't be compared to manufacturers peak efficiency rating.*

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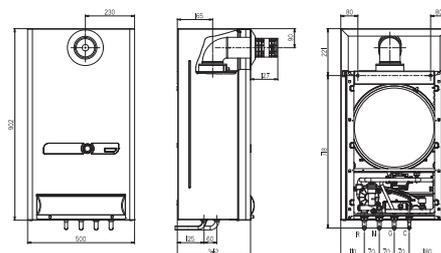


# Gas Boilers



## Format 30 DGTe 27.8 kW EXTERIOR COMBI BOILER

- Circulating pump and expansion pack
- External installation is designed for local conditions
- Adjustable from 9.0kW to 27.8kW
- Manufactured under ISO 9001 Quality Assurance
- Flue kit included with boiler
- External, combi, standard non-condensing

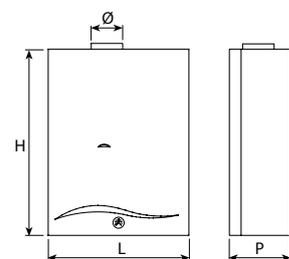


Model	Heat Output	Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Format DGTe 30BF	9.0-27.8	93.3	13.0	7	500	345	905	BF



## Open DGT

- Wall hung gas boiler, two exchangers, for outdoor installation & framing
- Room sealed fan flue
- 2 Combi models available, outputs from 23.3 up to 29.5kW
- Integrated weather compensation
- Frost protection up to -15°C
- Provision of the coupling with a solar thermal heating system
- External, combi, standard non-condensing

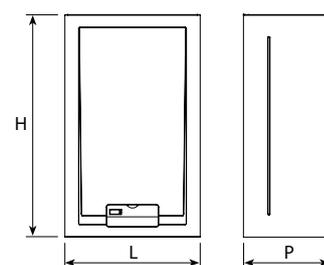


Model	Heat Output	Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Open DGT 25BF	7.5-23.6	93.0	11.3	7	600	245	810	BF
Open DGT 30BF	9.0-27.8	93.3	13.0	7	600	245	810	BF



## Format DGT

- Wall hung gas boiler, two exchangers
- Two room sealed fanned flue, combi instantaneous models available, output from 23.6 up to 27.8kW
- Integrated weather compensation
- Provision of the coupling with a solar thermal heating system
- Combi, standard non-condensing



Model	Heat Output	Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Format DGT 25	7.5-23.6	93.0	11.3	8	400	290	790	BF
Format DGT 30	9.0-27.8	93.3	13.0	8	450	290	790	BF

• Efficiency is factory rating unless otherwise stated.

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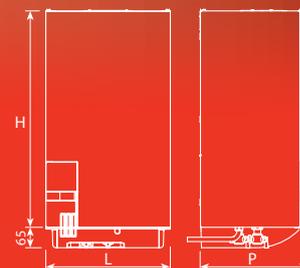
# Gas Boilers



## Murelle EV HE

- Wall hung, premix condensing boiler
- Room sealed fanned flue
- Stainless steel overcoils heat exchanger
- Integrated weather compensation
- Management of two heating loops with different temperatures
- Provision of the coupling with a solar thermal heating system
- **Combi, pre-mix HE condensing**

These units are protected to a high electrical safety standard of IPX5D. The control interface also uses “capacitive sensing technology,” meaning no moving parts and total control at your fingertips

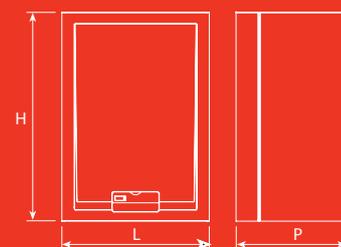


Model	Heat Output	Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Murelle eV HE 25	4.7-23.9	97.5	11.2	8	450	350	700	BF
Murelle eV HE 30	5.9-28.9	98.0	13.6	10	450	350	700	BF
Murelle eV HE 35	7.9-34.1	98.0	16.1	10	450	350	700	BF



## Format DGT 25/55-30/55

- Combined accumulation wall hung boiler
- Integrated 55 litre glass porcelain boiler
- 2 Sealed chamber versions from 25.1 to 29.8kW
- **Storage Combi, standard non-condensing**

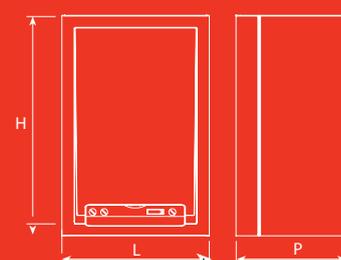


Model	Heat Output	Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Format DGT 25/55 BF	9.3-25.1	93.0	14.7	60	600	493	865	BF
Format DGT 30/55 BF	10.9-29.8	93.0	15.0	60	600	493	865	BF



## Riva Compact HE Mk2

- Wall hung condensing boiler
- Room sealed fan flue
- 4 Models available - 3 combi models for instantaneous DHW  
1 system model for C.H.
- **Combi or System, HE condensing**



Model	Heat Output	Sedbuick Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Riva Compact HE MK2 24 Combi	24.3kW	87.5 (B)	10.0 L @35° rise	8	400	350	803	BF
Riva Compact HE MK2 24 Combi	28.4kW	88.4 (B)	11.6 L @35° rise	8	400	350	803	BF
Riva Compact HE MK2 24 Combi	32.2kW	87.9 (B)	13.2 L @35° rise	8	400	350	803	BF
Riva Compact HE MK2 24 Combi	28.4kW	88.5 (B)	N/A	8	400	350	803	BF

• Efficiency is factory rating unless otherwise stated.

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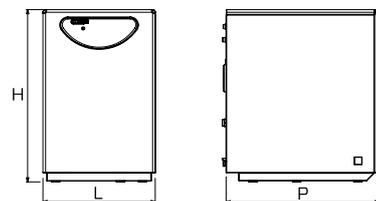
# Diesel & Wood Boilers



## Solo

- Cast Iron oil fired integrated units for C.H. only
- Factory adjusted burner, noise proof casing
- Two room sealed fanned flue models available, output 25 and 32.3kW
- Open flue models available on request

System Boiler - Diesel



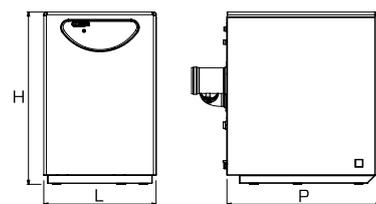
Model	Heat Output	Efficiency Rating	Section Elements	Expansion vessel	Dimensions			
					W	D	H	Ø
Solo 25 BF TS	25.0	92.9	4	10	550	750	850	BF
Solo 35 BF TS	32.4	93.1	5	10	550	850	850	BF



## Duetto

- Cast Iron oil fired integrated units for C.H. and instantaneous D.H.W. production
- Factory adjusted burner, noise proof casing
- All models are equipped with ex factory with two circulating pumps
- Open flue models available on request

Combi Boiler - Diesel



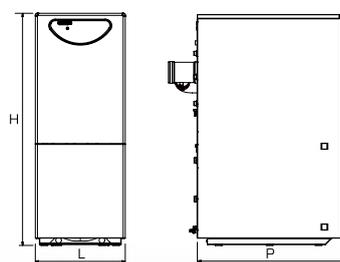
Model	Heat Output	Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Duetto 25 BF TS	25.0	92.9	12.2	10	550	750	850	BF
Duetto 35 BF TS	32.0	93.1	15.3	10	550	850	850	BF



## Aqua

- Cast Iron oil fired integrated units for C.H. and D.H.W. storage tank
- Factory adjusted burner, noise proof casing
- Two room sealed fanned flue models available, output 25 and 32.3kW
- 110L Stainless steel D.H.W. storage tank
- Open flue models available on request

Storage Combi Boilers



Model	Heat Output	Efficiency Rating	D.H.W Flow Rate	Expansion vessel	Dimensions			
					W	D	H	Ø
Aqua 25 BF TS	25.0	92.9	19.7	10	550	850	1430	BF
Aqua 35 BF TS	32.4	93.1	20.9	12	550	850	1430	BF

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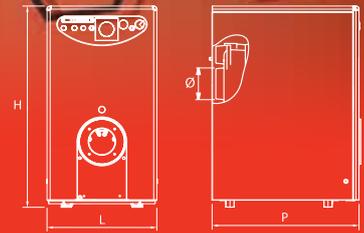
# Diesel & Wood Boilers



## Rondo Estelle

- Cast Iron oil fired boiler for C.H. only
- Combustion chamber, DIN compliant
- Self supporting door with reversible hinge
- 5 Conventional flue models available 23.5 - 57.5kW
- Two balanced flue models available upon request

System Boiler - Diesel



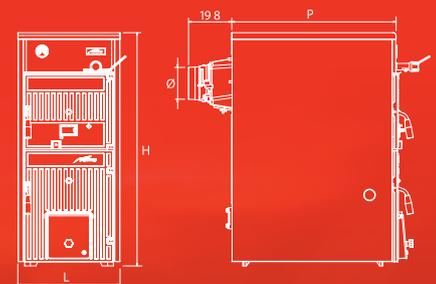
Model	Heat Output	Efficiency Rating	Section Elements	Max. Head (m)	Dimensions			
					W	D	H	Ø
R Rondo-estelle 3 OF	23.5	89.7	3	4	460	415	850	130
R Rondo-estelle 4 OF	31.3	90.0	4	4	460	515	850	130
R Rondo-estelle 5 OF	40.0	90.3	5	4	460	615	850	130
R Rondo-estelle 6 OF	48.1	90.5	6	4	460	715	850	130
R Rondo-estelle 7 OF	57.5	90.8	7	4	460	815	850	130



## Solida

- Cast Iron oil fired boiler for C.H. only
- Self supporting door with reversible hinge
- Automatic adjustment of the air inlet according to the set-out temperature
- Five versions from 20.9 and 39.5kW

System Boiler - Wood or Coal



Model	Heat Output	Section Elements	Water Content	Max. Head (m)	Dimensions			
					W	D	H	Ø
Solida 3	16.3	3	23	4	470	355	1078	150
Solida 4	20.9	4	27	4	470	455	1078	150
Solida 5	25.6	5	31	4	470	555	1078	150



## Solida a pellet

- Cast Iron oil fired boiler for C.H. only
- Self supporting door with reversible hinge
- Automatic adjustment of the air inlet according to the set-out temperature
- One version from 25kW
- Standard supply of the KIT PL: two-step burner, pellet feeder, pellet tanks from 200 up to 500L capacity, burner regulation

System Boiler - Pellet



Model	Heat Output	Section Elements	Water Content	Max. Head (m)	Dimensions			
					W	D	H	Ø
Solida 8 P I	25.0	8	43	4	470	855	1078	150

- Efficiency is factory rating unless otherwise stated.

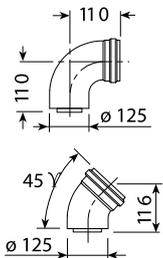
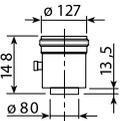
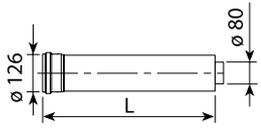
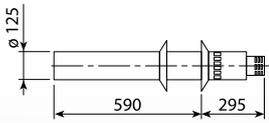
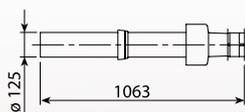
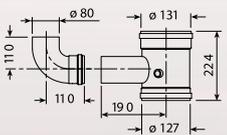
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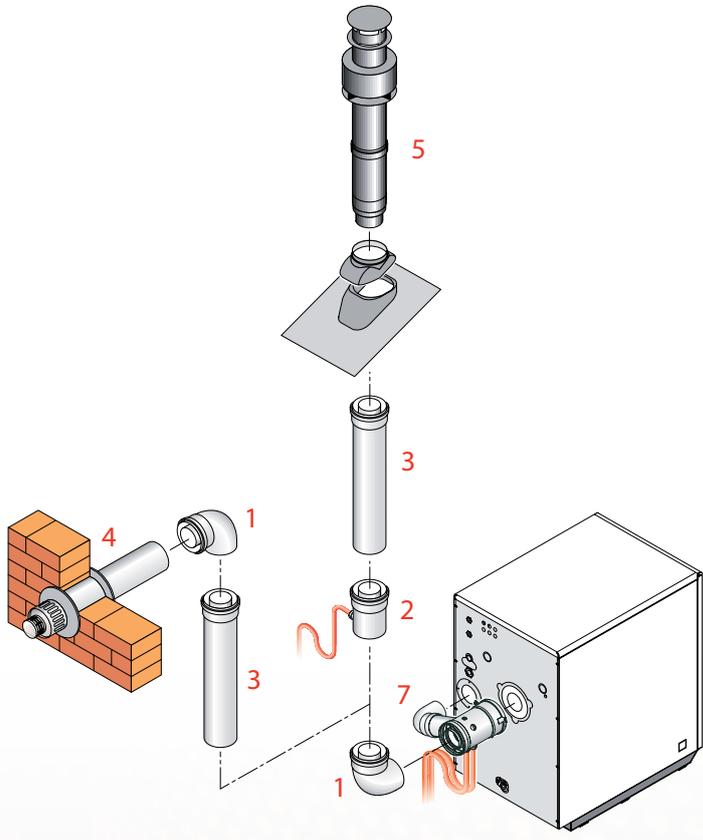
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# Diesel Boiler Flue Kits

## Floor Standing Option, Balanced or Coaxial

	Code	Description
	8095820	90° Elbow
	8095920	45° Elbow
	8092820	Condenser Recovery L. 135
	8096121	Extension L. 1000
	8096120	Extension L. 500
	8096220	Extension L. 500
	8091203	Roof Outlet Terminal
	8098810	Flue Kit
	8098810	Outlet Flue Kit



Open Flue Boilers require flue to be custom built for application to meet local resource requirements.

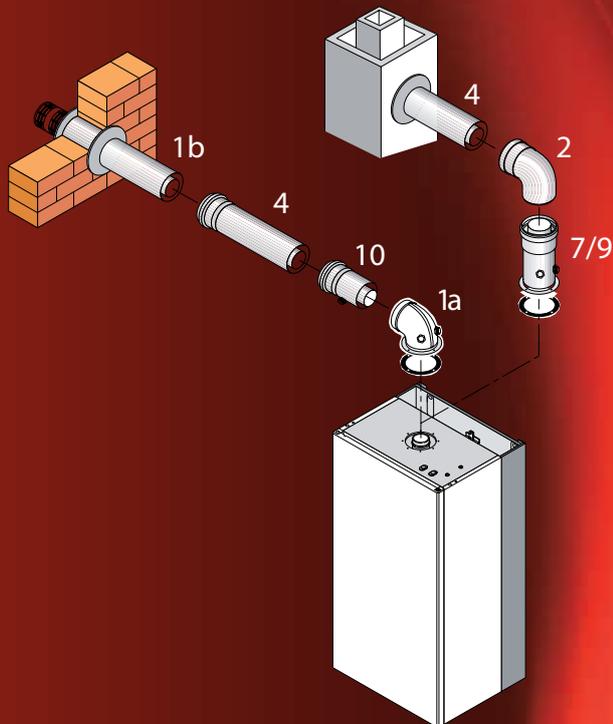
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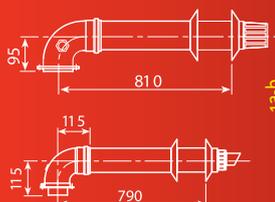
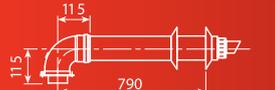
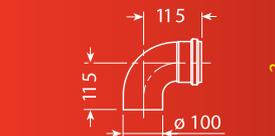
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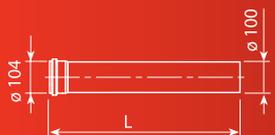
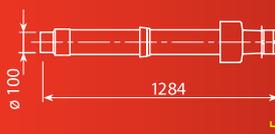
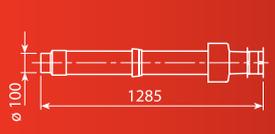
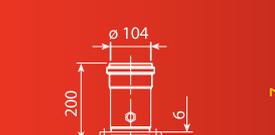


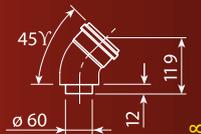
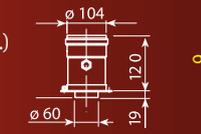
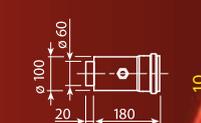
# Gas Boiler Flue Kits

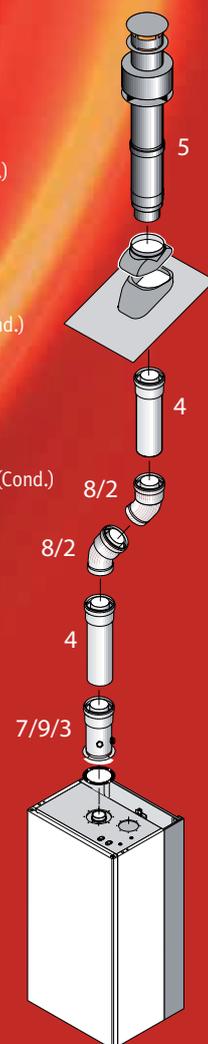
## Wall Hung Boiler Options



	Code	Description
	8084813	Coaxial Flue Kit L. 810 (std.)
	8096250	Coaxial Flue Kit L. 790 (Cond.)
	8095801	Additional 90° Elbow (std.)
	8095850	Additional 90° Elbow (std.)

	8096103	Extension L. 1000 (std.)
	8096102	Extension L. 500 (std.)
	8096150	Extension L. 1000 (Cond.)
	8096151	Extension L. 500 (Cond.)
	8091200	Roof Outlet Terminal L. 1284 (std.)
	8091205	Roof Outlet Terminal (Cond.)
	8086908	Vertical Extension L. 200 (std.)

	Code	Description
	8095900	Additional 45° Elbow (std.)
	8095950	Additional 45° Elbow (Cond.)
	8086950	Vertical Extension L. 120 (Cond.)
	8092801	Horizontal Condensation Outlet L. 180 (Cond.)



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# Heat Pump Air to Water



Heat pumps are considered an ecological heating solution designed to be energy efficient while having respect for the environment. With the use of ultra-efficient heat transfer fluids and latest high-tech components Savona heat pumps effectively reduce energy consumption even in the coldest of conditions.

Types of Heat pump.

Air to air which is known as 'air conditioning' common in many buildings already. This not a system offered by Savona.

Air to water heat pump which draws heat from outside air and transfers heat to a fluid that can be pumped to underfloor systems or radiators or even hot water storage. This is the cheaper heat pump option to install for hydronic heating. A convenient external location is sited for placement of the heat pump where it can be connected to power and pipework.

Air to water heat pumps are available in varying power options in both standard heat for underfloor heating or high temp for radiators and DHW supply.

Heat pumps are available in a range of sizes to suit required heating output and in two temperature ranges. Standard heat pumps put out a temperature of approximately 45° which is designed for underfloor heating where a constant low temperature is required to radiate warmth. High temp heat pumps that put out a temperature of 65° are designed for radiator systems and heating domestic hot water. Choice of heat pump will depend on maximum temperature requirement.



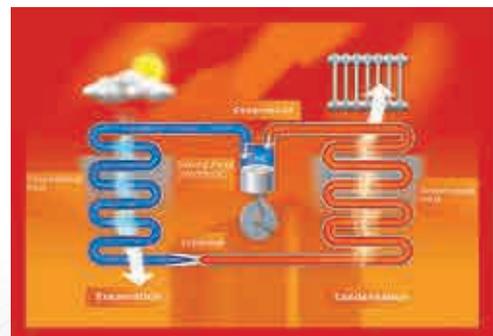
Model	Heat Capacity Power 7 to 45° kW/kW	Heat Capacity Power 2 to 45° kW/kW	Heat Capacity Power Power -7 to 45° kW/kW	Max. Output Heating Temp	Compressor	Airflow m³/hr
AW09 *	9.1/3.0	7.9 / 3.0	6.1 / 3.0	55°	Scroll	3000
AW12*	12.5 / 4.2	10.8 / 4.2	7.9 / 4.2	55°		3000

\* Available in heating only model and heating + cooling model.

- All pumps single phase models - 3 phase models available on request.
- For full technical data contact Savona.
- Models also available in Stainless steel cabinets.

Heat pumps work by moving a transfer fluid around a closed circuit. The circuit is made up of:

- A compressor – fluid arriving from the evaporator in low pressure is taken high pressure and absorbs a quantity of heat in this process.
- A condenser – fluid arriving from the compressor releases heat to the environment.
- An expansion valve – fluid passing through the expansion valve is partly transformed and cools in the process
- An evaporator – coldness is transferred to the environment and heat is absorbed to start process again.



If a heat pump is run in a reverse cycle the condenser becomes the evaporator and evaporator is the condenser and cooling is achieved rather than heating. For underfloor or fan forced air movement, this gives option of cooling for summer temperatures.

- Efficiency is factory rating unless otherwise stated.

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# Heat Pump Water to Water



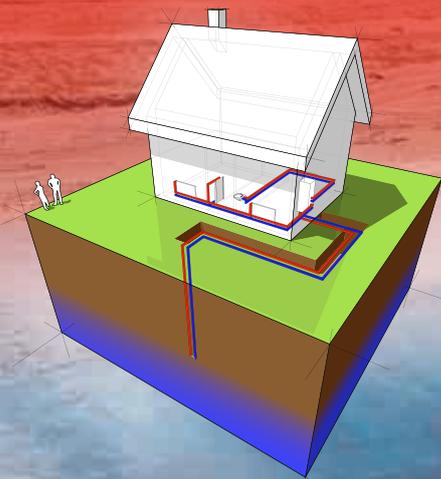
Water to water also known as ground source or geothermal Heat pump. The system uses an external loop in the ground to collect warmth or transfer coldness. Due to collection of heat from underground where the temperature is a more stable 10 to 14° depending on soil type, this is the most efficient system with expected energy gains to be 4 to 1 or 400% to input power. For setting up system either ground has to be excavated for laying coils of pipe in a trench or over a layer and then covered again or bores have to be drilled for vertical cores to be dropped into. Even though system is called ground source or geothermal, the heat source is actually solar with the sun's energy absorbed into surface soil and carried down by water movement. For this reason efficiencies are not as good in free draining earth structures or directly under paved zones.

Water to water heat pumps are available in varying power options in both standard heat for underfloor heating or high temp for radiators and DHW supply.

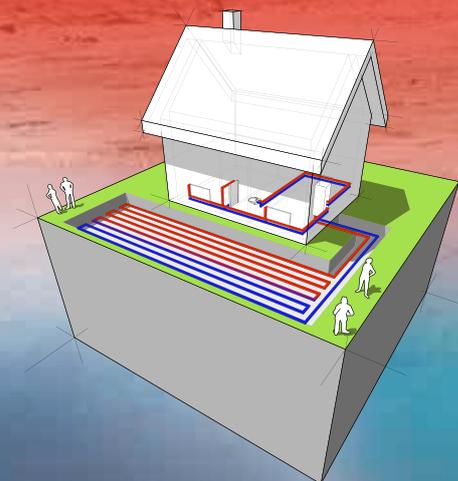
Model	Heat Capacity 80 to 45° kW/kW	Heat Capacity Power 10 to 45° kW/kW	Heat Capacity Power 10 to 35° kW/kW	Max. Output Heating Temp	Compressor
GHP09*	8.04 / 2.56	10.4 / 2.60	11.0 / 2.03	55°	Scroll
GHP12*	10.85 / 3.52	14.0 / 3.48	15.0 / 2.80	55°	Scroll

\* Available in heating only model and heating + cooling model.

- All pumps single phase models - 3 phase models available on request.
- For full technical data contact Savona.



Geothermal Deep Core  
renewable heatsource



Geothermal Trench or  
Layer renewable heatsource

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# Panel Radiators

Savona has one of the largest ranges of panel radiators on the market and provides a smart choice for ease of installation. Our modern radiators demand remarkably low water content, which ensures fast, controllable heat-up and a high output. This small amount of water, combined with a large convector plate, radiates heat to an economical energy level to ensure efficient comfort generation for your home.

## Product Range

The Savona panel radiator is made of two main parts:

The panel – that is the hydronic filled cavity that radiates heat from the face for close up warmth, and

The convector - a concealed heat sink that allows air to naturally flow through to equalize warmth around the room.

The range comprises of the following models which are various combinations of panels and convectors:

**Type 11:** A single radiator and single convector – The slim profile is suited for narrower or smaller spaces where radiant heat will dominate room space e.g. hallways.

**Type 21:** Two radiator panels and single convector between - Only slightly thicker than type 11 but more heat output for size. Suitable for bedrooms and other small to medium rooms

**Type 22:** Two radiator panels and twin convectors between- Designed for main living area or larger rooms where spread of warmth is required.

**Type 33:** Three radiator panels with triple convectors- More suited to commercial purposes where high output for low radiator height is required or room has large volume to heat.

Savona radiators are available in standard heights of 400 and 600mm with options for 300, 500 and 700mm on application. Lengths range from 400 to 3000mm. As the size of a radiator increases the power output increases offering versatility to supply correct size radiator for each room. All radiators are factory fitted with robust top grilles and side panels.

## Installation

Savona radiators can be used in indirect systems or closed heating systems, where free access to oxygen is prevented. A compact, well planned and constructed system saves energy and components making up the system. Draining the system requires more fresh water, which results in rust on the inside of the steel surface. Due to this, it is not advisable to empty the heating system for summer. The water temperature should be between 0-11°C, the pH water value between 7 & 9 and the maximum volume of oxygen 0.1mg/kg.

Savona radiators are intended for heating normal rooms. They must always be mounted on dry walls and not directly under a shower or similar item.

## Connections /Plugs & Vents

All Savona radiators are manufactured with four 1/2" ISO 2238 connectors. Each radiator pack contains air vents and nickel plated plugs for a watertight connection.

## Finish

Each compact radiator is subjected to a '5 Step' surface treatment, which includes a multi-stage cleaning process before the paint is applied.

- Laconically De-greased
- Phosphate
- Dipped in Primer (Catherphoretic)
- Coated with polyester-epoxy resin powder
- Stoved (at approx. 200°C)



CUSTOM COLOUR OPTIONS AVAILABLE

Standard colour of radiator is gloss finished white RAL 9016.

Consult with Savona if custom colours are required to compliment décor of room as colour options are endless and even available in Clinikill (see Hygienic Radiators)

## Pressure Endurance

The maximum working pressure of a Savona radiator is 10 Bar. This must not be exceeded when planning your heater system. In systems with high buildings, it's important to consider the dynamic additional pressure given by the pump device, in addition to the normal hydrostatic pressure. All Savona panel radiators are manufactured from high quality cold rolled steel plate, of nominal thickness of 1.2mm, to EN10130 Standards and pressured tested in production process.

## Brackets

Two or more concealed L shaped brackets are supplied with each radiator for wall mounting. Bracket gives the installer a choice of using the long or the short side. To minimise expansion and contraction noise, plastic inserts seat the radiator neatly on the brackets. Check the wall material before the brackets are mounted, in order to ensure a stable and flush fit. \*For ease of fitting, additional ADJUSTABLE brackets are available for all panel radiators.



## GUARANTEE

Each radiator is guaranteed for 10 years from the date of installation. The guarantee covers defects caused by faulty materials or manufacture. Faulty products will be replaced with a similar radiator.



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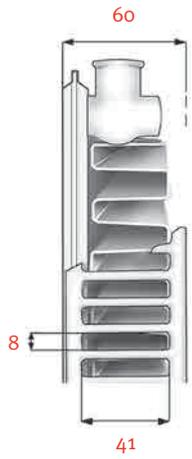
# Savona Radiator 11k • SINGLE RADIATOR SINGLE CONVECTOR TECHNICAL SPECIFICATIONS

## Height 300mm

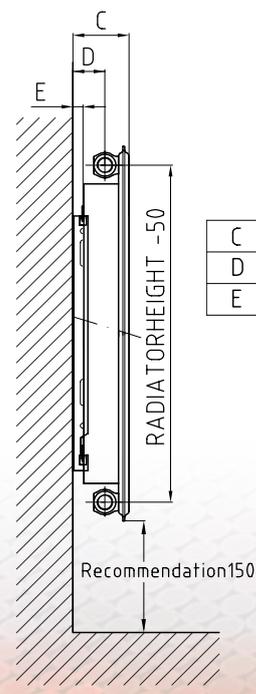
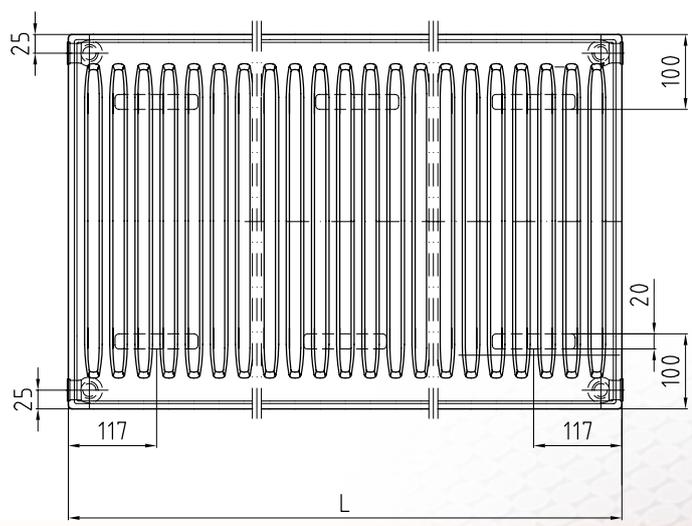
Product Code	Radiator Type	Length (L) mm	Output W EN4427/65/20°C	Output BTU	Weight kg	Volume Ltr
EB11-6-040	11k	400	407	1389	7.5	1.3

## Height 600mm

Product Code	Radiator Type	Length (L) mm	Output W EN4427/65/20°C	Output BTU	Weight kg	Volume Ltr
EB11-6-040	11k	400	407	1389	7.5	1.3
EB11-6-120	11K	1200	1222	4169	22.4	3.8
EB11-6-140	11K	1400	1425	4862	26.2	4.5
EB11-6-160	11K	1600	1629	5558	29.9	5.1
EB11-6-180	11K	1800	1832	6251	33.7	5.8
EB11-6-200	11K	2000	2036	6947	37.4	6.4
*EB11-6-230	11K	2300	2341	7987	43.0	7.4
*EB11-6-260	11K	2600	2647	9032	48.6	8.3
*EB11-6-300	11K	3000	3054	10420	56.1	9.6



\*NOT ALWAYS ACTIVELY STOCKED, PLEASE ENQUIRE  
Other sizes available on indent basis



	Bracket Long side	Bracket Short side
C	98.5	74
D	66.5	42
E	38	13.5

Adjustable brackets available for all Savona radiator panels



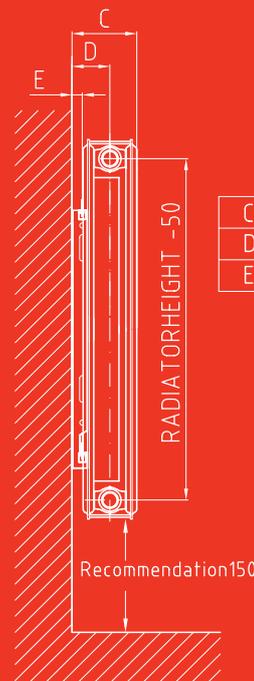
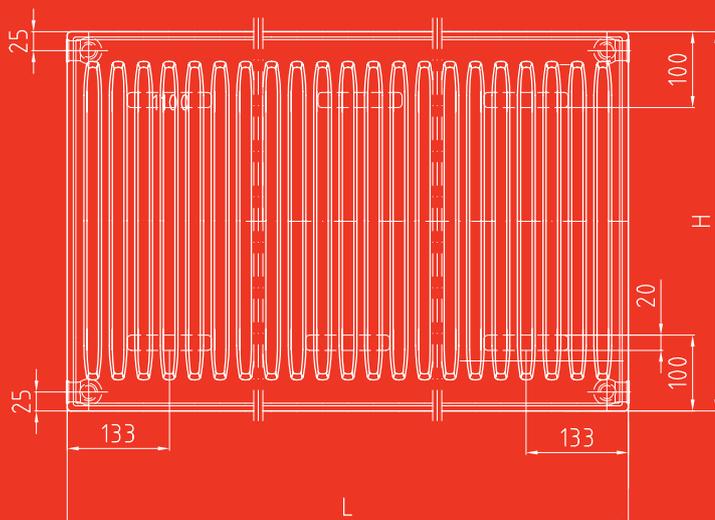
# Savona Radiator 21k • DOUBLE RADIATOR SINGLE CONVECTOR TECHNICAL SPECIFICATIONS

Height 400mm	Product Code	Radiator Type	Length (L) mm	Output W EN4427/65/20°C	Output BTU	Weight kg	Volume Ltr
	EB21-4-060	21k	600	578	1972	11.3	2.6
	EB21-4-080	21K	800	770	2627	15.0	3.5
	EB21-4-100	21K	1000	963	3286	18.8	4.4
	EB21-4-120	21K	1200	1156	3944	22.5	5.2
	EB21-4-140	21K	1400	1348	4599	26.3	6.1
	EB21-4-160	21K	1600	1541	5258	30.0	7.0

Height 600mm	Product Code	Radiator Type	Length (L) mm	Output W EN4427/65/20°C	Output BTU	Weight kg	Volume Ltr
	EB21-6-120	21k	1200	1608	5486	31.1	7.8
	EB21-6-140	21K	1400	1876	6401	36.3	9.1
	EB21-6-160	21K	1600	2144	7315	41.5	10.4
	EB21-6-180	21K	1800	2412	8230	46.7	11.7
	EB21-6-200	21K	2000	2680	9144	51.8	13.0
	*EB21-6-230	21K	2300	3082	10516	59.6	15.0
	*EB21-6-260	21K	2600	3484	11887	67.4	16.9
	*EB21-6-300	21K	3000	4020	13716	77.8	19.5



\*NOT ALWAYS ACTIVELY STOCKED, PLEASE ENQUIRE  
Other sizes available on indent basis



	Bracket Long side	Bracket Short side
C	109.5	85
D	74.5	50
E	38	13.5



Adjustable brackets available for all Savona radiator panels

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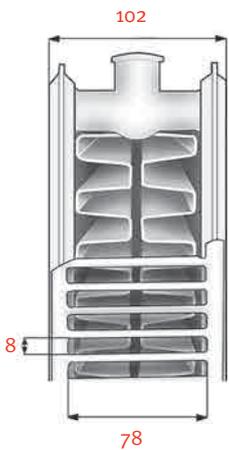
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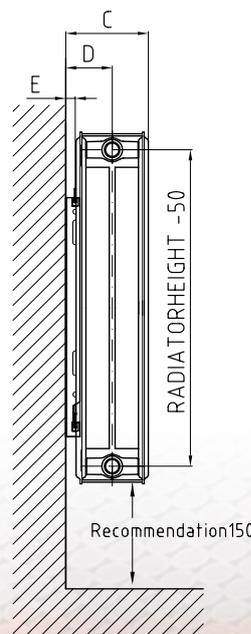
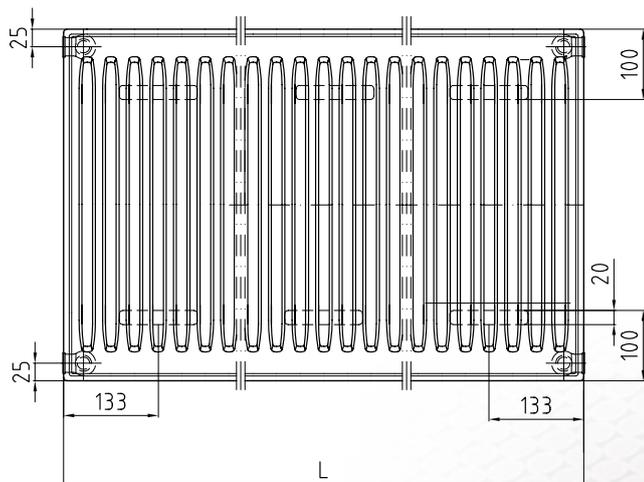
# Savona Radiator 22k • DOUBLE RADIATOR DOUBLE CONVECTOR TECHNICAL SPECIFICATIONS

Height 400mm	Product Code	Radiator Type	Length (L) mm	Output W EN4427/65/20°C	Output BTU	Weight kg	Volume Ltr
	EB22-4-060	22K	600	733	2501	13.2	2.7
	EB22-4-080	22K	800	977	3334	17.6	3.6
	EB22-4-100	22K	1000	1221	4166	22.0	4.5
	EB22-4-120	22K	1200	1465	4999	26.4	5.4
	EB22-4-140	22K	1400	1709	5831	30.8	6.3
	EB22-4-160	22K	1600	1954	6667	35.2	7.2
	EB22-4-180	22K	1800	2198	7500	39.6	8.0
	EB22-4-200	22K	2000	2442	8332	44.0	8.9

Height 600mm	Product Code	Radiator Type	Length (L) mm	Output W EN4427/65/20°C	Output BTU	Weight kg	Volume Ltr
	EB22-6-120	22K	1200	2051	6998	40.1	7.9
	EB22-6-140	22K	1400	2393	8165	46.8	9.2
	EB22-6-160	22K	1600	2734	9328	53.4	10.6
	EB22-6-180	22K	1800	3076	10495	60.1	11.9
	EB22-6-200	22K	2000	3418	11662	66.8	13.2
	*EB22-6-230	22K	2300	3931	13413	76.8	15.2
	*EB22-6-260	22K	2600	4443	15160	86.8	17.2
	*EB22-6-300	22K	3000	5127	17493	100.2	19.8



\*NOT ALWAYS ACTIVELY STOCKED, PLEASE ENQUIRE  
Other sizes available on indent basis



	Bracket Long side	Bracket Short side
C	141.5	117
D	90.5	66
E	38	13.5



Adjustable brackets available for all Savona radiator panels





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# Tubular Steel Radiators



## Be Individual

Rarely could a room be designed in which aesthetics and heating requirements live together really perfectly. There was always a degree of sacrifice necessary on one side or the other. With tubular steel radiators, Savona have created a radiator concept that delivers the best of all possible worlds.

## Connections & Dimensions

All radiators are supplied with 1" left and right hand threaded tappings suitable for 1/2" B.S.P reducers (supplied). The radiator is manufactured with bottom, opposite end connections. Plug and vent supplied.

## Operating Pressures

Maximum operating pressure is 12bar for 2,3 & 4 column radiators.

## Brackets

There are 2 wall brackets kits supplied as standard with all radiators. These are sufficient to support the combined weight of the radiator and water content however consideration should be given to radiator location and wall construction to determine if additional floor mounts will be required.

## Finish & Packaging

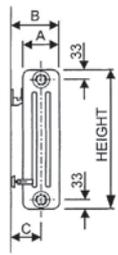
Standard finish is a superior white gloss RAL 9010, also available in custom colours. Individually wrapped in heat shrink polythene film and supported with polystyrene profiles to prevent damage and scratches in transit.



	Model	H mm	L mm	Sect No.	Output based DT60 °C		Weight	Water Content
					Watts	BTU/h	Kg	Litre
2 Columns	TUB2-060-13	600	598	13	706	2408	13.52	7.67
	TUB2-060-17	600	782	17	923	3149	17.68	10.03
	TUB2-060-22	600	1012	22	1195	4076	22.88	12.98
	TUB2-060-26	600	1196	26	1412	4817	27.04	15.34
	TUB2-060-30	600	1380	30	1629	5558	31.20	17.70
	TUB2-150-04	1500	184	4	528	1801	10.44	5.08
	TUB2-150-06	1500	276	6	792	2487	15.66	7.62
	TUB2-150-08	1500	368	8	1056	3603	20.88	10.16
	TUB2-150-10	1500	460	10	1320	4504	26.10	12.70
	TUB2-200-04	2000	184	4	713	2433	13.92	6.60
TUB2-200-06	2000	276	6	1069	3648	20.88	9.90	
TUB2-200-08	2000	368	8	1426	4864	27.84	13.20	
TUB2-200-10	2000	460	10	1782	6080	34.80	16.50	
3 Columns	TUB3-060-13	600	598	13	976	3332	20.54	11.18
	TUB3-060-17	600	782	17	1277	4357	26.86	14.62
	TUB3-060-22	600	1012	22	1653	5638	24.76	18.92
	TUB3-060-26	600	1196	26	1953	6664	41.08	22.36
4 Columns	TUB4-030-13	300	598	13	691	2359	14.17	8.84
	TUB4-030-22	300	1012	22	1170	3992	23.98	14.96
	TUB4-030-30	300	1380	30	1702	5807	34.88	21.76
	TUB4-060-13	600	598	13	1277	4359	27.69	14.69
TUB4-060-22	600	1012	22	2162	7376	46.86	24.86	

## GUARANTEE

Each radiator is guaranteed for 5 years from the date of installation. The guarantee covers defects caused by faulty materials or manufacture.



No. of Columns	A	B1	B2	C1	C2
2	63	93	103	62	72
3	101	131	141	81	91
4	139	169	179	100	110

Not always actively stocked, please enquire.

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# Savona Cast Iron Radiators • Retro Victorian Style

The Savona cast iron radiator is a modern tribute to the beautiful radiators of the 20's. This traditional design is craftsman built for people who love the style and elegance of yesteryear.

- Old grey, natural cast iron colour
- Operating pressure 4 bar
- Available in 750mm high and 900mm high options
- Other sizes available on request

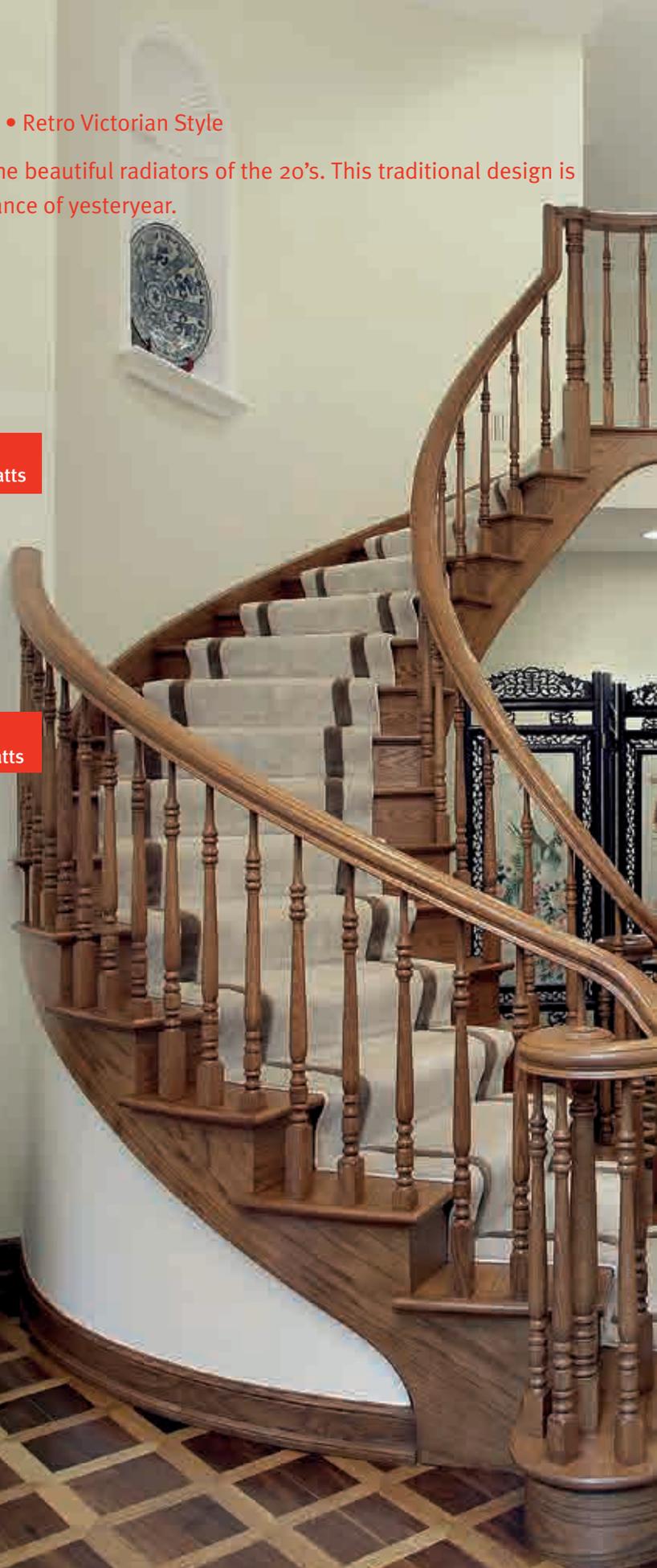
## PERFORMANCE DATA

Model 750mm H	No. of Sections	Length & Weight	Output at $\Delta t = 50^{\circ}\text{C}$ watts
---------------	-----------------	-----------------	---

CHFL 75006	6	468mm /69kg	864
CHFL 75008	8	624mm /91kg	1152
CHFL 75010	10	780mm /113kg	1440
CHFL 75011	11	858mm /124kg	1584
CHFL 75013	13	1014mm /146kg	1872
CHFL 75015	15	1170mm /168kg	2160

Model 900mm H	No. of Sections	Length & Weight	Output at $\Delta t = 50^{\circ}\text{C}$ watts
---------------	-----------------	-----------------	---

CHFL 95006	6	468mm /86kg	1086
CHFL 95008	8	624mm /114kg	1448
CHFL 975010	10	780mm /142kg	1810
CHFL 95011	11	858mm /156kg	1991
CHFL95013	13	1014mm /187kg	2353
CHFL 95015	15	1170mm /216kg	2715



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# Savona Towel Rails

## The Savona Towel Rail Range

The Savona Range of towel rails come with both elegance and efficiency guaranteed. Our best selling range come in 'curved' and 'straight' designs and finished in 'chrome'. Along with a wide range of sizes, there's bound to be a Savona rail to complement your bathroom, kitchen or laundry room.

All Savona towel rails are made from high quality tubular steel and come with a full fixing kit including brackets, air vent and plug with a maximum operating pressure of 6 bar. All models are fully tested to EN442 and come with a comprehensive 5 year guarantee for added peace of mind.



### Chrome Straight Rail

Type	Height mm	Width mm	BTU mm	Element Size	Water Content (L)
NDCS	800	400	812	150W	2.7
NDCS	800	600	1181	150W	3.68
NDCS	1100	400	1146	300W	3.87
NDCS	1100	600	1648	300W	5.7
NDCS	1600	600	2409	300W	6.4

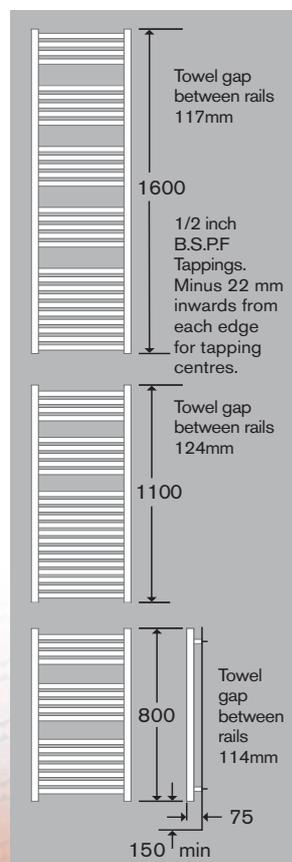
### Chrome Curved Rail

Type	Height mm	Width mm	BTU mm	Element Size	Water Content (L)
NDCC	1100	600	1655	300W	5.42
NDCC	1600	600	2416	300W	7.37
NDCC	800	600	1187	150W	3.69

Also Available: Dry Element Towel Rails refer to [www.newtechproducts.co.nz](http://www.newtechproducts.co.nz)

TOWEL RAIL CONNECTORS (please refer Pg28-31)

Optional electric heating elements available, supplied separately. See Pg 31



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# Hygienic Radiator



## Comfortable, dust free, hygienic

A well-ventilated radiator with open internal spaces and no awkward niches, reduces dust and other deposits and simplifies cleaning requirements.

The Hygienic Radiator's open design facilitates a dust-free path to comfortable warmth by doing away with cover plates and convector plates. The easy to clean Hygienic Radiator series is particularly suitable for hospitals, residential homes, sanatoria, food halls, schools and any location emphasizing a healthy, hygienic environment.



## Antimicrobial Coating

- Active, sustained, long lasting protection against bacteria and fungi
- Proven harmless to plants animals or people
- Scientifically tested and proven to be safe and effective
- Important contribution to hygiene and health management

The importance of hygiene in the personal sphere is increasing especially in locations where there is an increased risk of infection, such as hospitals, surgeries, laboratories, childcare etc.....

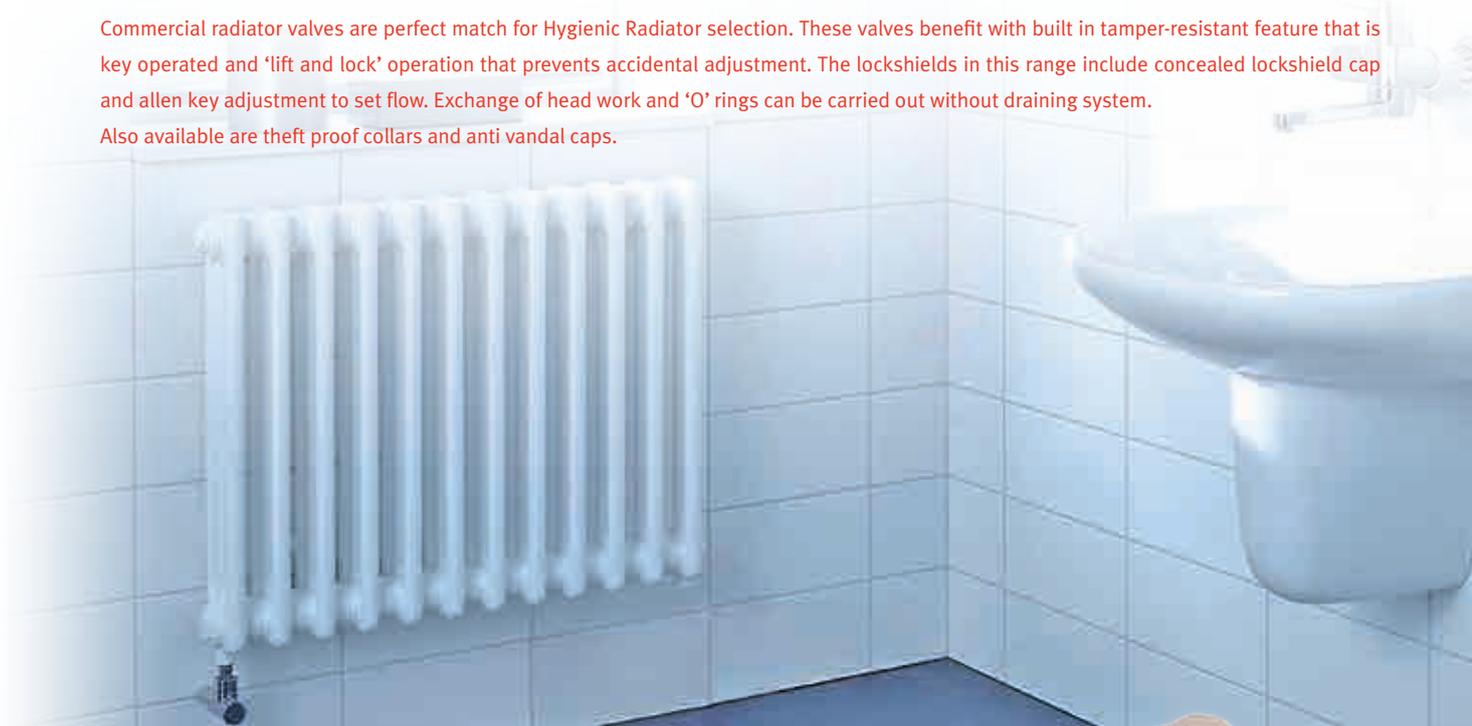
Savona now offers a truly innovative solution for radiators that epitomises the hygienic conditions in many sectors. Finishing the radiator with an antimicrobial powder coating, that contains minimal concentration of silver based antimicrobial additive, effectively prevents bacteria and fungi from settling on the surface of the radiator over long period of time. The targeted release of silver ions causes bacteria and fungi to die as soon as they come into contact with the surface of the radiator. Absolutely reliable, long lasting and safe. There are no negative effects on the highly developed organisms such as plants, animals and people. Silver only affects simple cell structures. Silver has been used in this way for centuries and is a natural way to prevent the transfer and spread of a wide range of harmful bacteria and fungi.



## Commercial radiator valves

Commercial radiator valves are perfect match for Hygienic Radiator selection. These valves benefit with built in tamper-resistant feature that is key operated and 'lift and lock' operation that prevents accidental adjustment. The lockshields in this range include concealed lockshield cap and allen key adjustment to set flow. Exchange of head work and 'O' rings can be carried out without draining system.

Also available are theft proof collars and anti vandal caps.



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# Trench Heating



## Innovative Heating

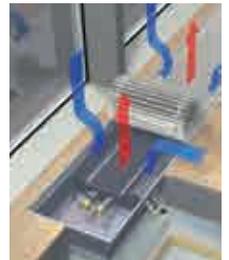
Hidden out of sight in a canal located in the floor is either a natural convection radiator or a fan assisted air conditioning unit. The ready to install unit is completed in a variety of styles and finishes providing an aesthetically pleasing finish to a contemporary or modern home or building.

The most advanced heating system that reacts immediately when heat is required and returns to even temperature when a pleasant comfort is reached. Efficiency is gained by avoiding energy wasting of further heating and temperature fluctuations.

With low water content and high coefficient of heat conduction, the heat exchangers are ideal to use in combination with high efficiency boilers and / or condensing technology. There is even option of electric elements to have stand alone units.

Convection Canal (NK range). Heating is provided by natural diffusion of warmth produced in an air current which can be used to offset local downdrafts and heat loss. Floor installation of trench heating is an ideal way of heating without losing valuable floor or wall space and offers a superb alternative to convection radiators. The air movement provides a solution to heating of doorways and large glazed areas by producing a warm air curtain to be convected around the room to achieve a balanced comfortable climate.

- Four duct widths: 182, 272, 340 and 400mm each with a height option of 92, 120, 150 and 200mm
- Range of length options 850 to 5000mm with heat outputs dependent on source temperature.



Cross flow fan assisted heating / cooling (HK range): With the addition of fan assistance, the floor ducting model is a displacement ventilation system. The heating element can be used for both heating and cooling as air is forced through the heat exchanger. With controlled airflow the convection of warmth can be directed to most accommodate the room.

- Duct options 340mm wide in twin pipe and four pipe options 132 or 150mm deep and 400mm width 4 pipe system 132mm deep.
- Each with length options of 1250, 2000 and 2750mm.



Grille cover: The internal elements of canal have been made "invisible" utilizing dark grey polyester lacquered components. The only eye catching element left is the perfectly tailored grille cover that can be coordinated to the interior architecture of the room. Available in a variety of styles and finishes that include rigid grates or roll up grilles fabricated in coloured anodized aluminium, several types of wood or stainless steel.

## Roll-up Linear cover grilles for underfloor trench heating



Aluminium & wood options available.

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## The perfect compliment to underfloor heating

Canal heating reacts extremely quickly to every temperature fluctuation. As they are also set into the floor, they can be perfectly combined with underfloor heating systems. In Spring or Autumn, the duct will totally fulfil the need for warmth. In the heating season, they will also provide quick temperature corrections or can be installed as a free standing convector to be used in conjunction with panel radiators.

APPLICATIONS: • LIVING ROOMS • CONSERVATORIES • ENTRANCE HALLS • SHOP WINDOWS • INDUSTRIAL ROOMS...



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# Radiator Valves & Controllers

Component	Product Description	Pack QTY	Code Number
	Angle Pattern Thermostatic Radiator Valve Vertical or horizontal mounting with (367 CPLS) matching lockshield 10mm x 1/2 15mm x 1/2		632012 632013
	Angle Pattern Thermostatic Radiator Valve Vertical or horizontal mounting with (367 CPLS) CPDLS) matching drain off lockshield 10mm x 1/2 15mm x 1/2		632012 632013
	Straight Pattern Thermostatic Radiator Valve Vertical or horizontal mounting with (368T CPLS) matching lockshield. 8/10mm x 1/2 15mm x 1/2		632112 632113
	Angle Pattern Thermostatic Radiator Valve Vertical or horizontal mounting (15mm) 10mm x 1/2 15mm x 1/2		632002 632003
	Straight Pattern Thermostatic Radiator Valve Vertical or horizontal mounting 8/10mm x 1/2 15mm x 1/2		632102 632103
	Lockshield Radiator Valve Angle Pattern 10mm x 1/2 15mm x 1/2		601036 601038
	Lockshield Radiator Valve Angle Pattern with Drain Off 10mm x 1/2 15mm x 1/2		601056 601058
	Lockshield Radiator Valve Straight Pattern 8/10mm x 1/2 15mm x 1/2		602137 602138
	Lockshield Radiator Valve Straight Pattern 8/10mm x 1/2 15mm x 1/2		602147 602148
	Angle Pattern Thermostatic Radiator Valve Vertical or horizontal mounting & LS Pack CHROME 15mm x 1/2 10mm x 1/2		632230 632231

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# Radiator Valves & Controllers

Component	Product Description	Pack QTY	Code Number
	*Angle Pattern Thermostatic Radiator Valve Vertical or horizontal mounting & LS Pack 15mm X 1/2 Angle Decorative Radiator Valve Pack CP	1	632304
	*Angle Pattern Thermostatic Radiator Valve Vertical or horizontal mounting & LS Pack 15mm X 1/2 Straight Decorative Radiator Valve Pack CP *PACK CAN BE COMBINED (Angle + Straight)	1	632306
	Lockshield Angle Towel Rail valve 10mmx 1/2	1	632206
	Lockshield Straight Towel Rail valve 10mm X 1/2	1	632216
	Belmont Commercial Angled TRV Tamper-resistant feature. Key operated 15mm x 1/2"	1	686002
	Belmont Commercial Lockshield 15mm x 1/2" Allen key adjusted	1	686050
	iTemp PRC i30V* <ul style="list-style-type: none"><li>• Up to 6 temperature settings per day</li><li>• 24hr programme, 7 days</li><li>• Separate programming for each radiator</li><li>• Digital temperature display</li><li>• Up to 30% saving on heating costs</li></ul>	1	635003 *Includes Valve Base
	iTemp PRC i130* <ul style="list-style-type: none"><li>• Up to 6 temperature settings per day</li><li>• 24hr programme, 7 days</li><li>• Separate programming for each radiator</li><li>• Digital temperature display</li><li>• Up to 30% saving on heating costs</li></ul>	1	635001 *Retro fit to multiple valve brands

\* Controller options marked are our most commonly used units.

Please feel free to enquire about alternative options and we will be happy to supply the best unit to suit your individual needs.

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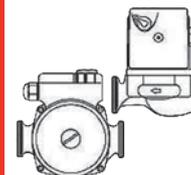
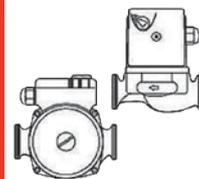
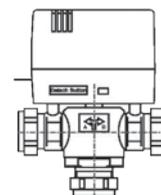
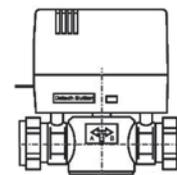
# Radiator Valves & Controllers

Component	Product Description	Pack QTY	Code Number
	<b>REV17 Programmable Room Thermostat</b> <ul style="list-style-type: none"> <li>• 3 Programmable periods per 24hrs</li> <li>• Mains-independent, battery-operated room temperature controller</li> <li>• Self-learning two-position controller with PID response (patented)</li> <li>• 5 Day + 2 Day programmable</li> </ul>	1	2203
	<b>REV300 Programmable Room Thermostat</b> <ul style="list-style-type: none"> <li>• 3 Programmable periods per 24hr</li> <li>• 7 Day or individual day programming</li> <li>• Large LCD screen</li> <li>• Touch screen programmable</li> </ul>	1	2211
	<b>TP1 System Programmer</b> <ul style="list-style-type: none"> <li>• Single zone</li> <li>• 3 Programmable periods per 24hr</li> <li>• 7 Individual day per week programmable</li> </ul>	1	658001
	<b>TP2 System Programmer</b> <ul style="list-style-type: none"> <li>• 2 Separate zones programmable</li> </ul>	1	658002
	<b>TP3 System Programmer</b> <ul style="list-style-type: none"> <li>• 3 Separate zones programmable</li> <li>• Features, same as TP1</li> </ul>	1	658003
	<b>TRT1WL Room Thermostat with light option</b> <ul style="list-style-type: none"> <li>• 5° to 30° C Temperature range</li> <li>• Range limiting stops</li> </ul>	1	658032
	<b>TFT1 Frost Thermostat</b> <ul style="list-style-type: none"> <li>• Concealed dial with tool access</li> </ul>	1	658022
	<b>RDJ10 Programmable Room Thermostat</b> <ul style="list-style-type: none"> <li>• Operating modes: Automatic, Comfort, Energy Saving, and Frost Protection.</li> <li>• 2 Programmable periods per 24hrs</li> <li>• Large LCD display and set point dial available as RDH10 thermostat only</li> </ul>	1	3071
	<b>RDJ10RF/SET Programmable Room Thermostat</b> <ul style="list-style-type: none"> <li>• Same as RDJ10</li> <li>• Wireless</li> <li>• Includes the RCR10/433 receiver</li> <li>• Convenient for retro-fit available as RDH10 RF thermostat only</li> </ul>	1	3072



# Radiator Valves & Controllers

Component	Product Description	Pack QTY	Code Number
	TZV22mm Zone Valve	1	658051
	TMPV22 Mid Position Valve	1	658053
	1 1/2 TC5 Circulating Pump 5M Head	1	657001
	1 1/2 TC6 Circulating Pump 6M Head	1	657002
	Heated Towel Rail Elements 150W 300W (Includes connector)	1	CTX J8 14G001 CTX J8 14G002
	Storage Cylinders  A range of fully insulated, mains pressure supply water storage cylinders available. Cylinders fabricated from Duplex stainless steel and are designed to accept heat input from both direct and indirect heat sources. Where input source does not fully meet desired temperature, water can be heated by electric element back up. Available in 125l, 150l, 170l, 200l, 250l and 300l options.		<ul style="list-style-type: none"> <li>• Solar ready</li> </ul> These units are available in 200, 250 & 300ltr capacity. They are equipped with dual coils ready for solar or dual heat source supply.



# Polyfit Plumbing System - "PUSH CLICK" THAT'S IT!

**Polyfit is the one step, fully demountable and re-usable pushfit plumbing product, which combines with white polybutylene pipe to create a truly flexible, yet highly secure, plumbing system.**



- **BENEFITS** - One step operation, for quick and easy installation. Flexible polybutylene pipe, for even the most difficult locations. Fittings lock tight, preventing accidental release. Fully demountable and re-usable when required.
- **'PUSH CLICK THAT'S IT'** - The Polybutylene pipe is simply inserted into the Polyfit fitting to engage. There is no need to make a quarter locking turn. Simply 'push click', that's it!
- **LOCKED TIGHT** - Polyfit fittings lock tight in one click and can only be released when required, providing both installers and consumers with total peace of mind. Once engaged into the fitting it is completely secure against accidental release.
- **FULLY DEMOUNTABLE** - Polyfit fittings have been designed to be completely secure once installed. However there will always be times when they need to be removed or adjusted. Therefore the product has also been designed to be fully demountable when the need arises.

## Poyfit pipe and fittings

Component	Product Description	Pack QTY	Code Number
	<b>Barrier Polybutylene Pipe Coils</b> <b>(Featuring "Plum Straight Coiling Technology")</b> 10mm x 25 metre Coil 10mm x 50 metre Coil 10mm x 100 metre Coil 15mm x 25 metre Coil 15mm x 50 metre Coil 15mm x 100 metre Coil 22mm x 25 metre Coil 22mm x 50 metre Coil	1 1 1 1 1 1 1 1	FIT2158B FIT5010B FIT10010B FIT2515B FIT5015B FIT10015B FIT2522B FIT5022B
	<b>Straight Coupler</b> 10mm Straight Coupler 15mm Straight Coupler 22mm Straight Coupler	10 10 10	FIT010 FIT015 FIT022
	<b>Elbow</b> 10mm Elbow 15mm Elbow 22mm Elbow	10 10 10	FIT110 FIT115 FIT122
	<b>Spigot Elbow</b> 10mm Spigot Elbow 15mm Spigot Elbow	10 10	FIT1010 FIT1015
	<b>Radiator Terminal Plate</b> Terminal Plate	10	RTP10
	<b>Equal Tee</b> 10mm Equal Tee 15mm Equal Tee 22mm Equal Tee	10 10 10	FIT210 FIT215 FIT222

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# Polyfit Plumbing System - "PUSH CLICK" THAT'S IT!

## Polyfit pipe and fittings

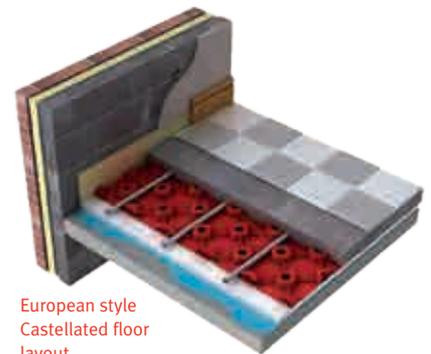
Component	Product Description	Pack QTY	Code Number
	<b>Branch Reduced Tee</b> 15mm x 15mm x 10mm Branch Reduced Tee 22mm x 22mm x 10mm Branch Reduced Tee 22mm x 22mm x 15mm Branch Reduced Tee	5 5 5	FIT1115 FIT112210 FIT1122
	<b>Socket Reducer</b> 15mm X 10mm Socket Reducer 22mm X 15mm Socket Reducer NOT FOR USE WITH COMPRESSION FITTINGS	10 10	FIT1815 FIT1822
	<b>Reducing Coupler</b> 15mm x 10mm Reducing Coupler 22mm x 10mm Reducing Coupler 22mm x 15mm Reducing Coupler	5 5 5	FIT5815 FIT582210 FIT5822
	<b>Socket Blank Ends</b> 10mm Socket Blank End 15mm Socket Blank End 22mm Socket Blank End 28mm Socket Blank End	10 10 10 10	FIT1910 FIT1915 FIT1922 FIT1928
	<b>Bend Former</b> 15mm Bend Former 22mm Bend Former	5 5	PB6315 PB 6322
	<b>Pipe Stiffener (Plastic)</b> 10mm Pipe Stiffener 15mm Pipe Stiffener 22mm Pipe Stiffener	20 50 50	PB6410 PB6415 PB6422
	<b>Pipe Stiffener (Stainless Steel)</b> 10mm Pipe Stiffener 15mm Pipe Stiffener 22mm Pipe Stiffener	20 50 50	PB6410M PB6415M PB6422M
	<b>Nail-in Clips (Polypropylene)</b> 10mm Nail-in Clip 15mm Nail-in Clip 22mm Nail-in Clip	50 50 50	FIT2210 FIT2215 FIT2222
	<b>Pipe Cutters</b> V Bladed standard type Cutter 10mm-22mm	1	PB781
	<b>Pipe Insulation</b> 10mm O x 13mm wall 15mm O x 13mm wall 22mm O x 13mm wall	2m 2m 2m	21-13010 21-13015 21-13022



# Floor Heating Systems

## Screed Layer

The time tested European system of laying an underfloor heating layer that made underfloor, the ultimate heating option. This system should be considered even more appropriate for NZ conditions where the warmth of sun demands smarter response times to give even warmth. Pipework is located in a screed layer that is segregated from base slab and external walls by insulation. This has all the advantages of in-slab and will give up to 25% more energy efficiency and quicker response times as the better insulated smaller mass of screed layer heats up to radiate its warmth. Pipe work is either pinned (plastic stapled) to insulation layer or nested in lightweight plastic castellated panels.



European style Castellated floor layout

## In Slab

Traditional NZ underfloor heating installation where pipework is installed in the insulated concrete floor of building by tying Pipework directly to the slab reinforcing mesh. In slab heating gives the ultimate feel of warmth with constant evenly spread heat radiating up from the lowest point of a room where heat is most required. This is the gentlest form of heating as uniform heat gently rises from the floor and least obtrusive as there is nothing deviate from a rooms decor. Floor surface temperature is a highly controllable with each room's floor been independently programmable.

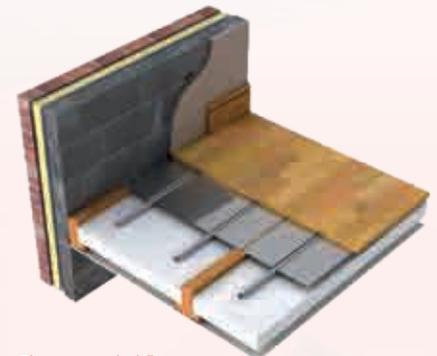


Traditional In-Slab under floor system

## Suspended or Floating Overlay Floor

Options for dry build suspended timber floors or overlaying a solid base. Options available for both new build and retro fit, to cover whole floors or creating maximum efficiency heating zones in a room that work like under floor radiators.

Products range from Suspended insulated spreader plates. Overlay – fibrous panels for heavyweight floor coverings such as ceramics and tiles and Overlay tile – compressed lightweight insulated panels for lightweight floor coverings such as laminates, engineered wood and carpets. Whatever the installation there is a system to match.



The suspended floor system

## Suspended OV12 Floating Floor

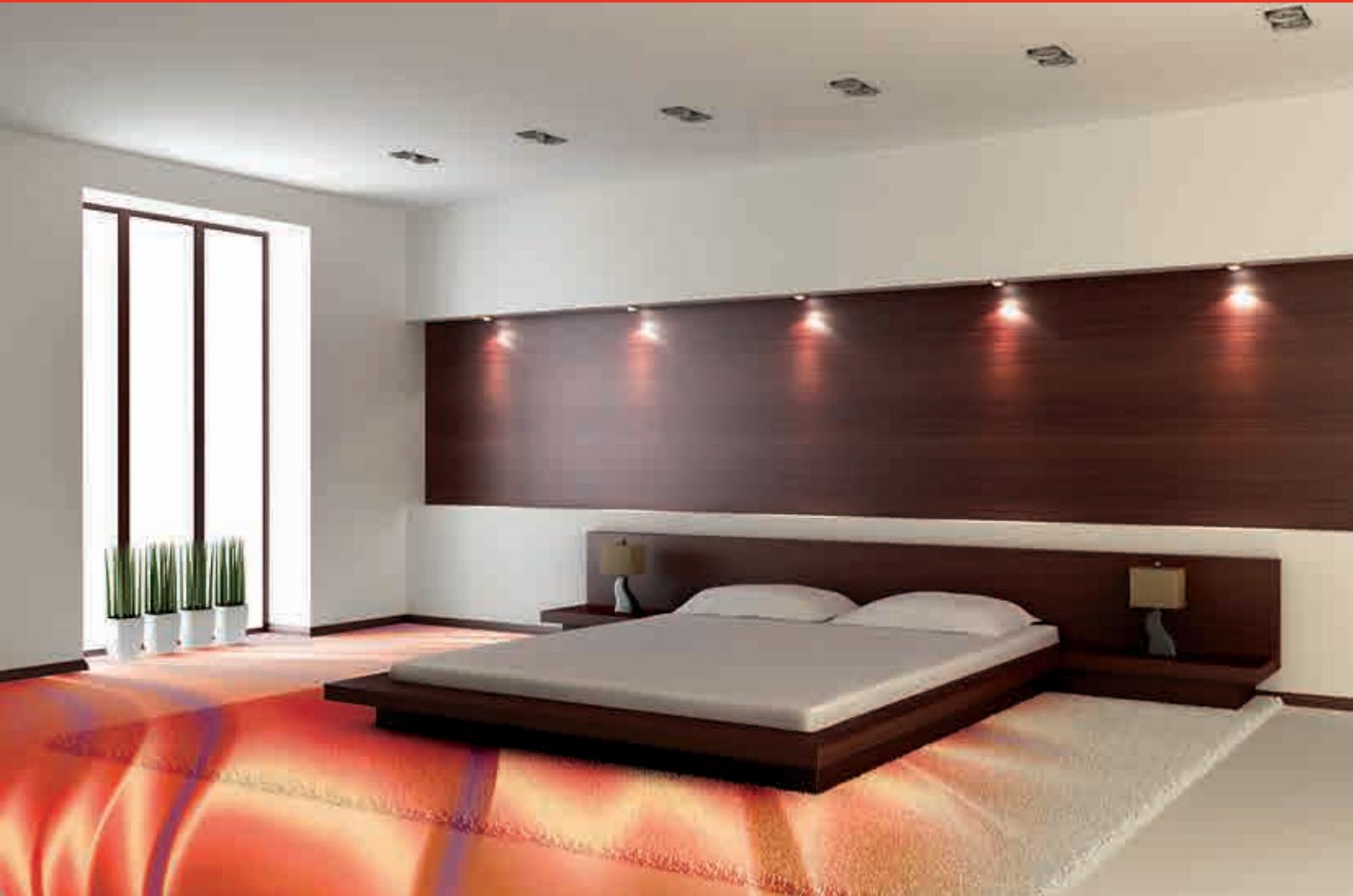
The OV12 system is ideal for refurbishment projects or where construction height is at a premium. The system uses a low profile panel that is laid over existing solid or timber floors. The 18mm thick panels are glued together and then the pre-formed plastic return bends are placed at opposite ends of the room. The 12mm barrier pipe is then laid into the grooves and connected back to the manifold. The system can be directly covered by tile or laminate flooring or a 4mm plywood capping layer used when fitting carpet or vinyl.



The floating floor system



*Experience the warmth of Savona...*



*...right under your feet!*

Savona floor heating systems offer heating with versatility and flexibility that does not interfere with interior design or de'cor. Any size or shape of space can be heated efficiently and silently by circulating heated water through a series of continuous loops piped in the floor. By spreading the heat through the floor a large radiant surface is created to allow heat to gradually rise uniformly heating the entire room space.

Savona offer a range of systems giving superb heating performance and long lasting durability compatible with various flooring systems and floor covers. Systems include options for In Slab, Screed Layer, Suspended or Floating floor formats to be incorporated in the floor design.

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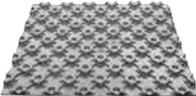
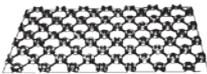
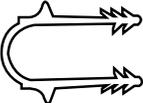
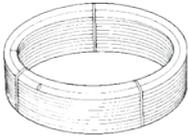
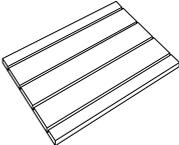
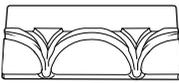
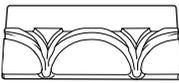


# Under Floor Heating Parts & Accessories

Component	Product Description	Pack QTY	Code Number
	<b>Temperature Gauge</b>	1	PB127TG
	<b>Manifold Balancing Valve</b>	1	PB127BV
	<b>UFCH Control Pack</b> Includes pump, 2 port motorised valve, UFCH Mixer Valve, bend & adaptors  SELF ASSESSING CONTROL PANEL WITH ZONE VALVE	1	PB970015
	<b>Alpha UFH Control Pack</b> Includes Alpha Pump, UFCH mixer valve and thermometer	1	PB970020
	<b>Zonal Regulation Unit</b> For single rooms up to 30m <sup>2</sup>	1	PB970018
	<b>UFCH Mixing Valve</b> 22mm UFH Mixing Valve 28mm UFH Mixing Valve	1 1	PB219058 PB219059
	<b>UFCH Valve Actuators</b> Valve Actuator (2wire) Valve Actuator (4wire) (photo shows 2 wire)	1 1	PB00401 PB00402
	<b>Single Zone Master Control Unit</b> Provides wiring connectors for Boiler, Zone valve, UFH Pump, Power Supply & Single room thermostat	1	PB1ZM



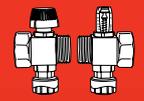
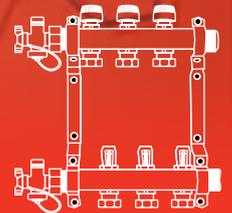
# Under Floor Heating parts & accessories

Component	Product Description	Pack QTY	Code Number	
	<b>Floor Panel</b> (1.2m x 1m) Floor panel for screeded floors Allow for overlap and waste when ordering	1	PB08576	
	<b>Edge Insulation</b> 25m Coil Edge Insulation	1	PB05855	
	<b>Standard UFCH Pipe Clip</b>	250	PB02911	
	<b>Barrier Polybutylene Underfloor Pipe Coils</b> 12mm x 80m Coil 15mm x 100m Coil 15mm x 150m Coil 18mm x 120m Coil 18mm x 200m Coil	1 1 1 1	PB8012B PB10015B PB15015B PB12018B PB20018B	
	<b>Overlay Floor Panel</b> (pack of 10) 800mm (L) x 600mm (W) x 18mm (D)	10	PB08570	
	<b>Overlay Floor Panel</b> (pack of 10) 1245mm (L) x 600mm (W) x 18mm (D)	10	PB08010	
	<b>End returns</b> (for Overlay or Overlay Lite)	10	PB08573	
	<b>Self Adhesive Aluminium Tape</b> (Overlay lite)	1	ALTP	
	<b>Manifold Flow Meter</b>	1	PB127FM	
	<b>Manifold End set</b> (pair)	1	PB127ES	



# Underfloor Heating

Component	Product Description	Pack QTY	Code Number
	Manifold for Under-floor Heating		
	15mm Manifold - 2 port	1	PB12737
	15mm Manifold - 3 port	1	PB12738
	15mm Manifold - 4 port	1	PB12739
	15mm Manifold - 5 port	1	PB12740
	15mm Manifold - 6 port	1	PB12741
	15mm Manifold - 7 port	1	PB12742
	15mm Manifold - 8 port	1	PB12743
	15mm Manifold - 9 port	1	PB12744
	15mm Manifold - 10 port	1	PB12745
	15mm Manifold - 11 port	1	PB12746
	15mm Manifold - 12 port	1	PB12747
	Manifold Extension Kit	1	PB12736
	Isolation Valves (1 inch pair) Used to connect manifolds to both UFCH Control Pack & Modulating Pump Unit.	1	PB01732
	Manifold Blue Cap	10	PB127BC



## Extras

	22mm Straight Coupling - copper 22mm 40 Straight coupling CXC	5	709058	
	Straight Coupling Copper x female iron 22mm x 1/2	5	710058	
	Stop end. For use with copper tube 22mm	10	89084	
	Exterior Diesel Tanks 460 litre Aluminium Tank 880 litre Aluminium Tank  <ul style="list-style-type: none"> <li>All tanks pressure tested.</li> <li>Tanks certified to AS/NZS1170 standard</li> <li>Tanks have 5 year warranty</li> </ul>		DT460 DT880	<ul style="list-style-type: none"> <li>Foundation plans for tank supplied.</li> </ul>



# Water Testing



## Optimise your water quality

Advancements in boiler technology are leading to increased efficiencies, reduced emissions and smaller heat exchangers. This continual improvement requires same efficiencies to be gained from the flow of hydronic fluid in the system and avoidance of the detrimental effects of corrosion and lime scale. Incorrectly balanced hydronic fluid reduces performance levels of your heating system and shorten life span of boilers, radiators and Pipework. With the use of quality inhibitor and flushing agents and with annual maintenance testing the flow of heat through your heating systems can be maintained at maximum potential.



### Central Heating Cleaner F5 Express

Product Code: FER F5EX

Cleaner F5 Express is an aerosol product designed to make dosing a system quick and simple with no mess or inconvenience to the user. As with all Fernox Cleaners, Cleaner F5 Express is an effective neutral cleaner.

Cleaner F5 Express has been designed for pre-commission cleaning of new installations in accordance with BS7593:1992, removing flux residues and other installation debris, to help extend the life of a system.



### Central Heating Protector (inhibitor) F1 & F1 Express

Product Codes: FER F1, FER F1EX

Fernox Protector F1 gives long-term protection of domestic central heating systems against internal corrosion and lime scale formation. It prevents corrosion of all metals found in these systems, i.e. ferrous metals, copper and copper alloys and aluminium. It is suitable for all types of boiler, radiators and pipework systems.

Fernox Protector F1 is clear.



### Savona Inhibitor

Product Code: INHIB 2536

Savona Inhibitor is a water treatment additive that renders water as non-corrosive to ferrous metals, coppers and alloys. Prevents lime scale build-up and bacterial contamination. Maintains efficiency extending system life.

Savona inhibitor is bright red.



### Protector Test Kit

Product Code: FER TK

The Fernox Protector Test Kit is designed to give rapid on-site analysis of the concentration of protectors in central heating systems.

The optimum figure quoted in the instructions is when the system is dosed at the recommended strength. However, higher values are not detrimental and are preferable to under-dosing.

The test kit is supplied with all the equipment and reagents required in determining the Protector levels of at least 25 systems.

Replacement reagents for this test kit are available from our Savona office.



### Total Filter TF1

Product Code: FER TF1

The Fernox Total Filter TF1 (UK patent pending 0806091.5) is a revolutionary in-line filter, which combines hydrocyclonic action with specially designed magnet assemblies, to remove both magnetic and non-magnetic contaminants from system water and contain safely within the filter.

The Fernox Total Filter TF1 can be connected directly onto 22mm and 28mm pipe work using the valve fittings provided. The unit can be installed horizontally or vertically and has been conveniently designed to be installed flush to a wall in existing pipe work. The TF1 can be installed in any orientation including flow right to left and flow up, a conversion kit is supplied with the unit or available from our Sales Office.

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[www.savona.co.nz](http://www.savona.co.nz)

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