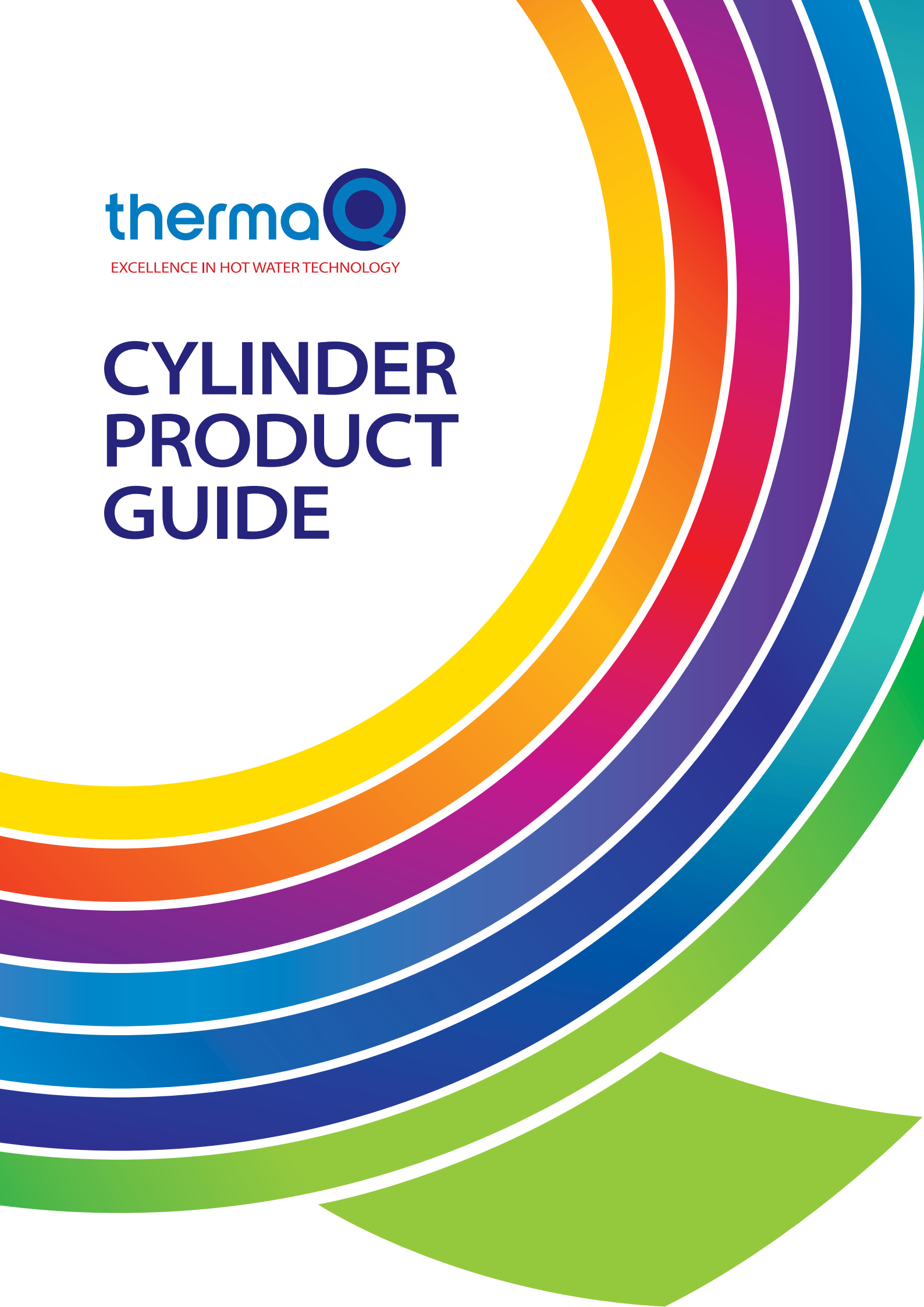


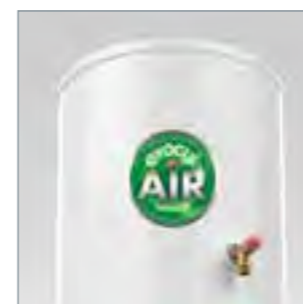
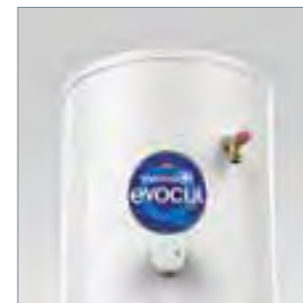


EXCELLENCE IN HOT WATER TECHNOLOGY

CYLINDER PRODUCT GUIDE



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ThermaQ endeavour to keep the content of this brochure as up-to-date as possible. We reserve the right to make changes to all ThermaQ products and services at anytime. To ensure you have the most current information please contact ThermaQ directly.



Introducing ThermaQ

Our Quest in Hot Water Technology.

QUALITY Everything we do at ThermaQ is about being committed to excellence providing the very best quality products and customer service. We have invested significantly in the latest manufacturing technology and systems to develop robust and automated processes that ensure we produce the best product at the best value.

We also aim to set a high standard with our logistical partners by holding dedicated stock available for next day delivery as standard*. As a distributor this means you are able to supply the full range of ThermaQ products promptly and as an engineer you can quickly respond to your customer's requirements.

QUICK In today's challenging consumer driven market place we aim to respond rapidly to all the demands asked of our business, anything from customer care support, quotations or a technical or delivery query, we have a same day reply policy. If we cannot provide a full response on the day of the enquiry, we will contact you to let you know that your query is being dealt with and a time that we will come back to you.

QUEST Our customer focused policies have set us on a quest to achieving and maintaining world class service. We appreciate that in today's society consumer demands and expectations are very high so we will continually strive to improve our service to meet these demands. In choosing to work with ThermaQ, you can be satisfied and confident that you are investing in a brand that will deliver on its promises.



We are a world class manufacturing company based in the UK. We are focused on our relationships with our customers and in the delivery of the highest quality hot water products. We utilise the latest innovative technologies and provide excellence in customer service.



Hot Water Association Charter Member

ThermaQ is proud to be an independently audited Hot Water Association (HWA) charter member. The HWA Charter's Code of Practice ensures that all members adhere to supplying fit for purpose products that are clearly and honestly described, and meet all required building and water regulations & standards. In addition, members have a responsibility to provide support to installers and customers in the supply and after-sales service related to their product.

* Next day delivery is available for an agreed range of products with approved stockists across most of mainland GB. For full details please contact your local representative.

Our Products

Ongoing Investment in Quality.



Our Environment

Working towards a Sustainable Future.



ThermaQ constantly invests in the latest manufacturing technology and systems to develop robust and automated processes. This ensures we produce the best product at the best value and consistently set the standards others aspire to.

We operate an effective environmental management system that makes the best use of resources and promotes the efficient manufacture of our products, to minimise any negative impact on the environment.

The key to our success has been our ability to produce the majority of components in house giving us 100% control over a wide range of products we are able to manufacture all under one roof. This flexibility allows us to meet customers needs and deadlines even if there is a change in specification requirements.

You may have a need for a Horizontal, Slimline, Pre-Plumbed Cylinder or Calorifier. We pride ourselves on having the experience and skills to offer a comprehensive and flexible service to fulfill your requirements promptly.

Our range of copper cylinders are manufactured in accordance with British Standards. We offer a vast selection, including made to order, bespoke types using our ThermaQuick service. See from page 51.

All our stainless steel products are manufactured from a high specification grade of Duplex stainless steel to resist all forms of corrosion, including crevice and stress, whilst its high mechanical strength gives it fantastic durability.

Apart from our significant capability to produce large volumes of standard products, we have also developed a reputation as the go-to business when our customer needs a bespoke or special product.

All the component parts we supply are from leading manufacturers and are fully CD compliant or BEAB approved.

We aim to set the benchmark when it comes to quality, performance and endurance. Our products are fully tested and compliant with the latest standards and regulations and supplied with a field service engineer backed manufacturers guarantee.

ThermaQ have a robust Environmental Management System that meets - as a minimum standard - the requirements as set in BS EN ISO 14001. The system has been adopted to minimise potential environmental and health impacts and fully considers relevant legislation, regulations and legal requirements with regard to government policies, ethical trading, sustainability and customer expectations. Our products are also designed to be as efficient as possible to reduce the use of fossil fuels and minimise any negative environmental effects.



What is the ErP directive?

The EU have introduced the ERP (Energy related products) directive to help reduce energy consumption and set minimum standards for product performance. The ERP energy labelling system is now applicable to hot water storage products and ThermaQ products are supplied with an appropriate label similar to the example shown.

OBJECTIVES

- Manage all processes in a responsible manner.
- Comply with all relevant environmental standards, laws, and guidelines.
- Prevention of pollution or waste at source with the use of an effective management system.
- Involvement of all our staff in support of our Environmental Policy.
- Continual improvement of environmental performance.
- Continual product development through design to reduce environmental impact in both manufacture and operation.
- Aim to comply with the environmental and ethical policies of our customers.



Quality Control

Standards we consistently follow.

All our cylinders are proudly made in the UK, keeping world standard British manufacturing industry thriving. We utilise a locally skilled workforce whenever possible and the highest quality machinery to ensure complete accuracy. The perfect mix of the two provides maximum flexibility in our process to accommodate for high volume demand whilst maintaining the outstanding quality we strive for.

Every part of the cylinder manufacturing process, from foaming the cylinder with CFC-free insulation to welding the individual fittings, to punching the stainless-steel casing, is done in-house. Why? We keep manufacturing in the United Kingdom from start to finish because it allows us to take pride in our final product and keep lead times as short as possible.



- **NSF** – Having NSF approval means our cylinders have been tested to national standards by an independent body focused on public health and safety.
- **BS EN 12897:2006** – All of our cylinders where possible are universally tested for heat loss, performance, product safety & durability according to, and consequently gain their ErP ratings from the BSI standard 12897:2006.
- **UK BUILDING REGULATIONS G3** – The UK Building Regulations relating to hot water delivery, disposal & storage. Whilst the majority of G3 responsibilities lie with the installer, we strive to provide assistance where possible, providing a competent installation manual and by using reliable suppliers for valves, fittings and other devices external to the cylinder itself.
- **BS EN ISO 9001:2015** – ThermaQ's manufacturing process and supply chain where possible are managed according to the BS EN ISO 9001:2015 standard, which is designed to streamline processes and ensure a quality end product on our behalf.
- **BENCHMARK** – The benchmark scheme designed on behalf of the HHIC ensures that responsibilities of correct commissioning and servicing lie with both the installer and manufacturer, who must follow benchmark checklists where necessary.
- **HWA** – Charter Member Audited
- **WRAS APPROVED** – Granted by representatives of water suppliers, WRAS approval is the universal UK standard to ensure that a product meets the requirements of all regulations and byelaws when installed correctly.
 - Scotland Building Regulations (2004) & Technical Standard P3.
 - KIWA tested and certified.
 - Northern Ireland Building Regulations P5 (2000).
 - Compliant with UK Building Regulations part L.
 - The UK Water Supply Regulations.
 - The Scottish Water Byelaws.
 - Components CE marked to EN Standards as applicable.

Delivering Quality

Ensuring excellence through our process.

ThermaQ Evocyl range is the first choice for value while providing superior performance.

How do we guarantee our customers the best possible performance, quality and reliability, whilst ensuring our products provide powerful mains pressure showers and faster-filling baths, with maximum reliability and efficiency?

The answer is in our process. When developing the ThermaQ range of products we set about using the most advanced water heating technology available. When this doesn't meet the high standards of performance, efficiency and reliability we insist upon, we develop innovative new technology of our own.

These advances come in many forms; Sophisticated Duplex stainless steel cylinder construction for maximum strength and corrosion resistance, manufacturing the cylinder with robots for efficiency and technical accuracy, CFC and HCFC free injected foam, encasing the entire system for the best possible heat retention. To prove our confidence in this process, we provide every new Evocyl cylinder with a 25 year guarantee* against manufacturing defects.

Manufacturing our Cylinders

ThermaQ manufacture all our domestic cylinders using Duplex stainless steel. Duplex has been selected against other materials such as copper, glass lined mild steel and lesser grades of stainless steel due to its substantially higher tensile strength and because it is a low carbon, high chromium content alloy. It allows units to be produced using thinner walls resulting in a lighter unit and offers a superior resistance to all forms of corrosion including, pitting, crevice corrosion and stress corrosion cracking.

When welding our cylinders a backing gas is used to ensure deep welding penetration and a clean internal weld surface. This ensures the welded area has the same corrosion resistance and mechanical strength as the parent metal.

Once the welding process has been completed the cylinder is 'pickled and passivated', this involves coating all internal surfaces of the cylinder with a chemical solution followed by water flushing, restoring the chromium surface finish. This process restores the passive film to all welded areas providing protection against premature corrosion, ensuring the longest possible working life for every cylinder.

Our coil-in-coil heat exchanger is a technical triumph. Manufactured in-house from one single piece of stainless steel tube, this high efficiency heat exchanger allows the cylinder to heat all the way to the bottom of the cylinder.



- Installer friendly design.
- Standard units available from 60 - 1500 litres.
- Bespoke units manufactured to your own design.
- Full range of slim units available, 60L to 210L, featuring a diameter of only 475mm - one of the slimmest on the market.
- A range of horizontal cased units.
- High performance coil-in-coil heat exchanger manufactured by ThermaQ.
- External expansion option - giving flexibility in siting and more airing cupboard space.
- Full NSF product approval.
- Vessel constructed from Duplex stainless steel for maximum strength and fully pressure tested.
- Totally insulated with HCFC & CFC free foam.
- Comprehensive controls and fixing kit from leading brands
- Digital cylinder stat for optimum control of domestic hot water temperature.
- Compression fittings supplied on all Evocyl cylinders.
- Minimum water supply 1.5 Bar, 20 Litres/ Min.
- Stainless steel stat pocket guaranteed against corrosion.
- All units are pickled and passivated to ensure longer life.
- 25 year fully transferable guarantee on Evocyl cylinder*.
- All other cylinder components guaranteed for 2 years.

Evocyl AIR Big Idea, Better Execution.

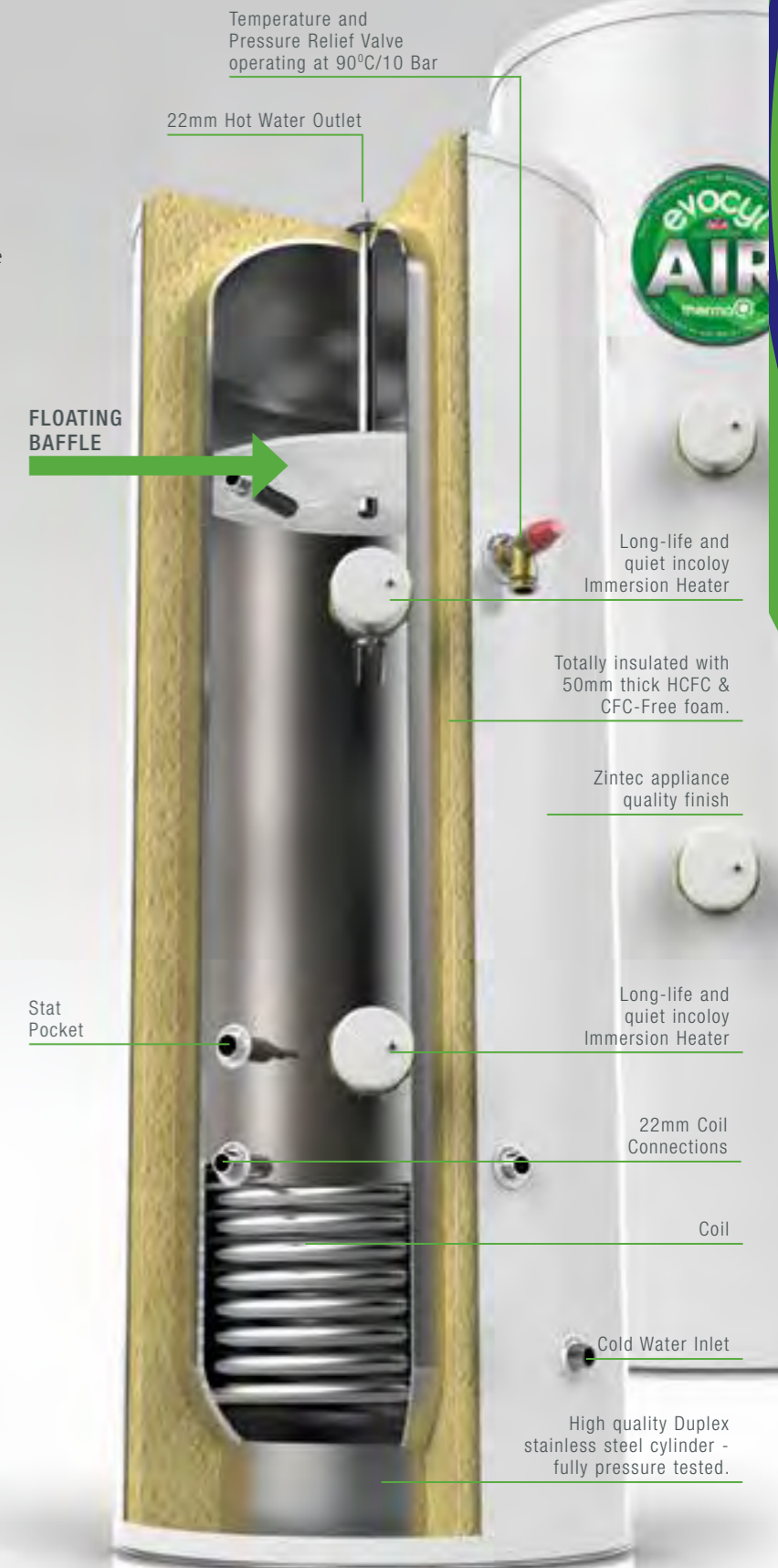
Masterfully crafted and sold at a competitive price within the marketplace, the new Evocyl AIR is the premier brand in the ThermaQ cylinder range. Thanks to its distinctive floating baffle technology, low heat loss and reliable construction, it has been designed and manufactured to exceed market expectations.



Evocyl AIR The New Standard in Cylinder Design.

The latest product line to be released from ThermaQ – the Evocyl AIR – guarantees to be the next big step forward for our business, and promises to be the new standard for energy efficiency. The unique design of the new cylinder, which includes an internal expansion air bubble and floating baffle means we can proudly display fantastic ErP bandings on our new range – some of the best available.

- The new internal expansion chamber allows us to do away with the expansion vessel that comes as standard with unvented cylinders, but still allows the product to work above and beyond expectations.
- No external expansion vessel save labour time and space in the airing cupboard
- Good heat retention from the cylinder is key to keeping customers satisfied and ensuring a happy home.
- Extended vertical hot water drawoff inside the cylinder allows for the floating baffle to move up and down with the expanding water level, whilst still allowing plumbers to install the Evocyl AIR in the same fashion as regular unvented cylinders and draw water from the top of the cylinder. Drawing from the cylinder top allows us to maximise the hot water available to the end user.
- Combine this with the quick reheat times in all of our Evocyl range due to our patented coil-in-coil heat exchanger and you have a competitive hot water cylinder that keeps on giving.
- Pre-plumbed version available - see Page 42 for details.



Selection Guide

Choosing the right cylinder for your home.

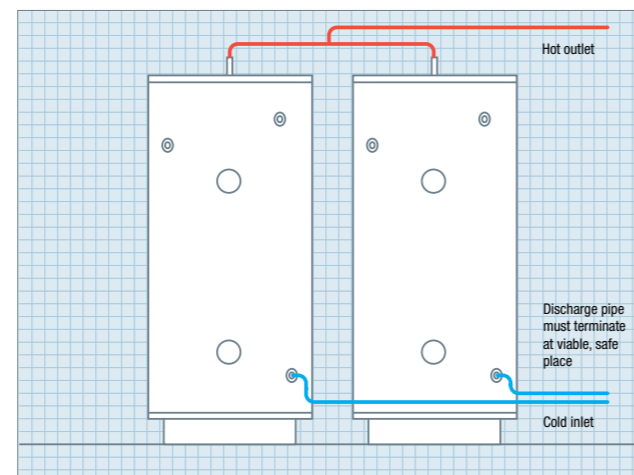
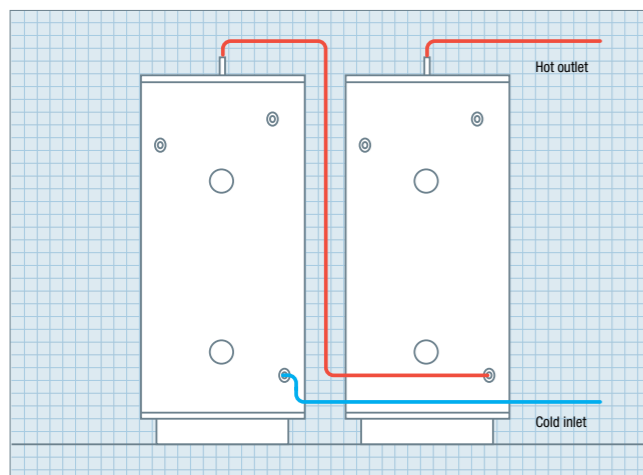
HOT WATER DEMAND	BEDROOMS	INDIRECT	DIRECT
1 Standard Bath or Shower	Bedsit / 1	120	120
	2 - 3	120	150
	3 - 4	150	150
1 Standard Bath	2 - 3	150	180
	3 - 4	150	180
1 Standard Bath and En-Suite	2 - 3	180	210
	3 - 4	180	210
	4 - 5	180	210
2 Standard Baths	2 - 3	180	250
	3 - 4	180	250
	4 - 5	210	300
3 Bathrooms	3 - 4	250	300
	4 - 5	300	300
	5 - 6	300	300

Actual usage calculations should be used for cylinder sizing, details above for guidance only. Please contact ThermaQ for technical support.

Using Evocyl AIR units in Series or Parallel

Whilst an unusual option, it is entirely possible to connect Evocyl AIR units together in series or parallel where applicable if the hot water demand is large enough. We would however, normally recommend a calorifier from our regular Evocyl range to accommodate any larger domestic or commercial capacities should the demand exist. This reduces installation time and ensures that problems are less likely to occur via setup or running of the system due to only one vessel being used instead of several.

For connecting cylinders in series or parallel, they must be of identical capacity so that the system can function properly.



It is imperative that cylinders combined in parallel are of equal capacity/size.



Connecting cylinders in series means that the cold mains will feed the first Evocyl AIR, and the hot drawoff from that cylinder, will be utilised as the cold feed in the 2nd vessel. The hot draw off from the 2nd Evocyl AIR will then provide hot water to the property as normal.

Cylinders in parallel means higher flow rates are possible, as you can connect 2 or more vessels together to work simultaneously. Here individual cold feeds are taken to each cylinder and then hot drawoffs are connected together to form one large flowrate pipe to provide hot water to the property. Subject to the size of the incoming cold mains, the flow rate effectively doubles when using 2 cylinders in parallel instead of 1.

New Levels of Efficiency

Providing superior performance.

Built in thermal expansion: Reducing space requirements and installation time.

The crowning achievement of the new Evocyl AIR cylinder is our unique floating baffle that creates an air bubble which allows for the thermal expansion of water.

This water-to-air interface disc is manufactured from composite material fully compliant with BS6920 and is deemed by WRAS as suitable for internal thermal expansion. In addition to our own in-house test regime, the cylinder has been independently and successfully tested to WRAS 121117:1999.



This level of approval provides increased levels of confidence in our product design and peace of mind for installers and householders alike.

Why does a regular unvented cylinder require a vessel for expansion?

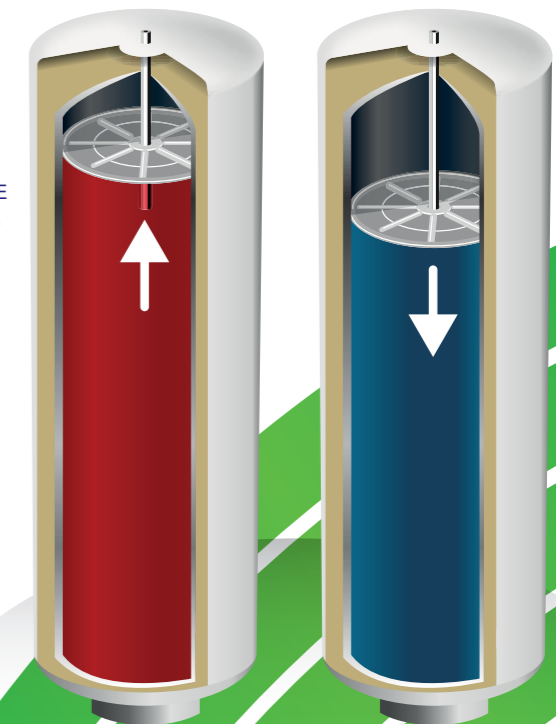
As water is heated its volume increases and therefore the pressure will rise. Most unvented cylinders will come with an expansion vessel to be installed into pipework to account for this. The new Evocyl AIR however accommodates for the water expansion within the cylinder itself.

So how does the new cylinder's internal expansion work?

We have extended the internal pipe connected to the hot water drawoff, and installed our movable water to air interface disc down the pipe. This will keep an air bubble in the cylinder separate from the water being heated inside. By manufacturing the baffle to keep a near-perfect air tight seal at the top of the cylinder, the air bubble inside expands and compresses and allows the system to work as normal without any waste hot water.

As the water in the vessel heats and expands, the air bubble contracts to absorb the excess pressure created. The bubble then slightly expands when called upon to deliver good quality, consistently pressurised hot water as it is drawn from the cylinder to taps, showers or other outlets.

AS THE WATER HEATS UP, THE FLOATING BAFFLE RISES TO ABSORB THE INCREASE IN PRESSURE.



Only with an Evocyl by ThermaQ can you truly experience a high efficiency, top quality product that ensures superb comfort of living.

Evocyl AIR Standard

The number one choice. Designed for performance and reliability along with environmental care and responsibility.

Our standard range of superior quality Evocyl AIR cylinders are built using high grade Duplex stainless steel and designed to provide fast flowing hot water to single or multiple outlets. Manufactured to the highest standards and supplied with innovative components to ensure quick recovery, low heat loss and economic use of energy.

For your peace of mind, they come with a 25 year cylinder and 2 years parts guarantee, so we believe it will be a great investment you make in your hot water.

- 25-year cylinder and 2 year parts warranty.
- Sizes 120 to 300 in 545mm diameter.
- Cylinder manufactured from high grade Duplex stainless steel.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane foam to minimise heat loss.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- Supplied with high quality unvented installation components.
- Indirect units supplied with modern fuel-saving stat that includes optional anti-legionella function.
- All plumbing connections are clearly identified and accessible from the front of the cylinder.
- 22mm threaded connections.
- Efficient patented coil-in-coil used in all indirect cylinders.
- Solar version available.
- Long life 3kW incoloy immersion heater supplied as standard. Upgrade to titanium and/or 6kW immersion on request.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.
- Product fully WRAS and Building Regulations approved.



EVOCYL AIR STANDARD DIRECT

CODE	AGDIR 0120	AGDIR 0150	AGDIR 0180	AGDIR 0210	AGDIR 0250	AGDIR 0300
CAPACITY AT 3 BAR (L)	107	138	169	191	235	264
HEIGHT	E	950	1140	1324	1511	1762
DIAMETER		545	545	545	545	545
COLD INLET	A	190	190	190	190	190
IMMERSION	B	210	210	210	210	210
STAT POCKET	C	400	580	670	755	875
T&P VALVE	D	528	715	848	982	1160



EVOCYL AIR STANDARD INDIRECT

CODE	AGIND 0120	AGIND 0150	AGIND 0180	AGIND 0210	AGIND 0250	AGIND 0300
CAPACITY AT 3 BAR (L)	105	134	165	187	230	259
HEIGHT	H	950	1140	1324	1511	1762
DIAMETER		545	545	545	545	545
COLD INLET	A	190	1909	190	190	1909
BOTTOM COIL	B	298	298	338	373	373
STAT POCKET	C	368	368	408	443	443
IMMERSION	D	348	348	388	423	423
IMMERSION	E	-	-	-	968	1065
SEC. RETURN	F	-	-	882	1060	1223
T&P VALVE	G	528	715	848	982	1160



EVOCYL AIR STANDARD SOLAR INDIRECT TWIN COIL

CODE	AGSIN 0180	AGSIN 0210	AGSIN 0250	AGSIN 0300
CAPACITY AT 3 BAR (L)	161	184	226	254
HEIGHT	I	1324	1511	1762
DIAMETER		545	545	545
COLD INLET	A	190	190	190
BOTTOM COIL	B	298	338	373
STAT POCKET	C	353	393	428
TOP COIL	D	633	688	862
STAT POCKET	E	703	738	932
IMMERSION	F	683	738	912
SEC. RETURN	G	-	882	1060
T&P VALVE/STATS	H	848	982	1160



EVOCYL AIR STANDARD SOLAR INDIRECT SINGLE COIL

CODE	AGSDI 0180	AGSDI 0210	AGSDI 0250	AGSDI 0300
CAPACITY AT 3 BAR (L)	165	187	230	259
HEIGHT	G	1324	1511	1762
DIAMETER		545	545	545
COLD INLET	A	190	190	190
BOTTOM COIL	B	298	338	373
STAT POCKET	C	353	393	428
IMMERSION	D	440	504	580
IMMERSION	E	771	890	1045
T&P VALVE/STAT	F	848	982	1160

Evocyl AIR Slimline

When installation space is at a premium, we offer the same great product but with a much smaller footprint.

In addition to removing the need for an expansion vessel, the Evocyl AIR Slimline becomes even more of a space saver thanks to its 475mm diameter, allowing home owners to fit an unvented cylinder in those smaller awkward spaces. This means many older dwellings with smaller airing cupboards can now enjoy the benefits of mains pressure hot water with fast filling baths and modern showers.

For your peace of mind, all our cylinders come with a 25-year cylinder and 2 year parts guarantee. It just might be the best small investment you make in your hot water.



EVOCYL AIR SLIMLINE
475 MM WIDTH

EVOCYL AIR SLIMLINE DIRECT

CODE	AGNDI 0120	AGNDI 0150	AGNDI 0180	AGNDI 0210
CAPACITY AT 3 BAR (L)	107	131	159	183
HEIGHT	E	1205	1478	1743
DIAMETER		475	475	475
COLD INLET	A	162	162	162
IMMERSION	B	182	182	182
IMMERSION	C	597	727	845
T&P VALVE	D	772	970	1158



EVOCYL AIR SLIMLINE INDIRECT

CODE	AGNIN 0120	AGNIN 0150	AGNIN 0180	AGNIN 0210
CAPACITY AT 3 BAR (L)	104	128	156	180
HEIGHT	F	1205	1478	1743
DIAMETER		475	475	475
COLD INLET	A	162	162	162
BOTTOM COIL	B	288	328	328
STAT POCKET	C	388	428	428
IMMERSION	D	368	408	408
T&P VALVE	E	772	970	1158

SPECIFICATION

- 25-year cylinder and 2 year parts warranty.
- Sizes 120 to 210 in 475mm diameter.
- Cylinder manufactured from high grade Duplex stainless steel.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane foam to minimise heat loss.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- Supplied with high quality unvented installation components.
- Indirect units supplied with modern fuel-saving stat that includes optional anti-legionella function.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- 22mm threaded connections.
- Efficient primary coil.
- Solar versions available.
- Long-life 3kW incoloy immersion heater supplied as standard. Upgrade to titanium and/or 6kW immersion heater on request.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.
- Product fully WRAS and building regulations approved.

Evocyl AIR Super ECO

The Evocyl AIR Super ECO is manufactured to the same high quality standards but with additional insulation to reduce heat loss.



In the modern age, a great emphasis is placed on reducing the environmental impact of products. At ThermaQ we strive to keep in line with the demands made by customers, and the Evocyl AIR Super ECO is our answer to growing environmental concerns.

You're looking at one of the most well-made and energy-efficient cylinders available. In sizes 120, 150, 180 & 210, the cylinder boasts a regular diameter of 545mm (the same as the standard), but we have increased the CFC/HCFC free foam insulation to 85mm either side of the inner vessel body, this combined with the insulating air bubble used in all of the Evocyl AIR cylinders, significantly lowers heat loss and therefore reduces fuel bills for the homeowner.

All Evocyl AIR units are supplied with a digital dual stat so the cylinder temperature can be accurately set to meet the customer demands and run the product efficiently. The dual stat has a built in optional anti-legionella function which will heat the cylinder in excess of 61°C once weekly to ensure potential bacteria that develops in any stagnant water is killed off.



The Evocyl AIR Super ECO can also help improve SAP ratings and performance in new build properties.

As with the rest of the Evocyl AIR range, the product is manufactured to the highest standards from our highly invested factory using the latest technology where possible.



85 MM
CFC/HCFC FREE
FOAM INSULATION

EVOCYL AIR SUPER ECO DIRECT

CODE	AGEDX 0120	AGEDX 0150	AGEDX 0180	AGEDX 0210
CAPACITY AT 3 BAR (L)	107	131	159	183
HEIGHT	E	1205	1478	1743
DIAMETER		545	545	545
COLD INLET	A	162	162	162
IMMERSION	B	182	182	182
IMMERSION	C	597	727	845
T&P VALVE	D	987	1262	1527



EVOCYL AIR SUPER ECO INDIRECT

CODE	AGIEX 0120	AGIEX 0150	AGIEX 0180	AGIEX 0210
CAPACITY AT 3 BAR (L)	104	128	156	180
HEIGHT	F	1205	1478	1955
DIAMETER		545	545	545
COLD INLET	A	162	162	162
BOTTOM COIL	B	288	328	328
IMMERSION	C	388	428	428
STAT POCKET	D	368	408	408
T&P VALVE	E	772	970	1158

SPECIFICATION

- Sizes 120 to 210L in 545mm diameter.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Totally insulated with 85mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- Super low heat loss to reduce fuel bills and improve SAP ratings.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- Supplied with high quality unvented installation components.
- Indirect units supplied with fuel saving anti-Legionella dual stat.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- 22mm threaded connections.
- Efficient primary coil.
- Long-life 3kW Incoloy immersion heater supplied as standard. Upgrade to Titanium and or 6kw immersion heater on request.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.
- 25 year cylinder warranty and 2 years parts warranty.
- Product fully WRAS and building regulations approved.

Trouble free installation

Several great pieces come together to create one superb installation.

Evocyl AIR has been designed to facilitate trouble free installation. Compact and round in design, with all connections accessible at the front of the unit. Evocyl AIR's light weight construction means it's easy to handle and convenient to site almost anywhere in a building.

	DIRECT	INDIRECT	INDIRECT SOLAR TWIN	INDIRECT SOLAR SINGLE COIL
Cold Water Inlet Set	■	■	■	■
15 x 22mm Tundish	■	■	■	■
Fitted Temperature and Pressure Relief	■	■	■	■
Immersion Heater(s)	■	■	■	■
2 Port Zone Valve		■	■	
Dual Thermostat		■	■	
Energy Cut-Out Thermostat			■	■
Instruction Manual	■	■	■	■

Immersion heater options

Immersion heater performance times may vary between manufacturers products of identical overall capacity due to variations in positioning the immersion heater affecting the volume of water heated.

Evocyl AIR units are fitted with immersion heaters as shown in the table below.

IMMERSION HEATERS

SIZE	DIRECT	INDIRECT
120/150	2 x 3kW	1 x 3kW
180/210	2 x 3kW	1 x 3kW
250/300	2 x 3kW	2 x 3kW

Long-life Titanium immersion heaters are also available on request. These are recommended in non-domestic or high use, multiple accommodation applications. 6kW & 9kW immersions can be specified on cylinders above 210 litres.

6kw and 12kw Incoloy or 3kw, 6kw and 12kw titanium immersions heaters are supplied as optional extras. Please contact us to discuss your requirements.



COLD WATER INLET SET
TQX0017A



TWO PORT ZONE VALVE
TQX0019



DUAL THERMOSTAT
TQX0048



T&P INSULATION COVER
TQX0044



INSTALLATION MANUAL



3KW IMMERSION HEATER
TQX0002



T&P RELIEF VALVE
TQX0001A



TUNDISH
TQX0024



ENERGY CUT-OUT THERMOSTAT
TQX0037

ThermaQ Cylinders reserve the right to change the design and style of the components supplied at any time. When ordering spare parts to ensure consistency and compatibility please contact our technical department who will be pleased to help you with your enquiry.

Evocyl AIR Specification

PRODUCT	WEIGHT EMPTY (KG)	WEIGHT FULL (KG)	FULL COLD CAPACITY (Litres)	HEAT EXCHANGE*** kW	DEDICATED SOLAR (Litres)	STANDING LOSS CYLINDER		ERP ENERGY RATING	ERP LOAD PROFILE	ERP ENERGY EFFICIENCY ηWh%	ANNUAL ENERGY USAGE kWh/Year	
						kWh/24h	Watts					
Evocyl AIR 120	Direct	26	133	107	-	-	1.04	43	C	M	36	1554
	Indirect	30	135	105	12.02	-	1.04	43	B	-	-	-
	Direct Super Eco	26	133	107	-	-	0.92	38	C	M	36	1426
	Indirect Super Eco	30	134	104	14.94	-	0.92	38	B	-	-	-
Evocyl AIR 150	Direct	33	171	138	-	-	1.19	50	C	M	39	1605
	Indirect	38	172	134	12.45	-	1.19	50	B	-	-	-
	Direct Super Eco	33	164	131	-	-	1.06	44	C	M	36	1463
	Indirect Super Eco	38	166	128	16.45	-	1.06	44	B	-	-	-
Evocyl AIR 180	Direct	38	207	169	-	-	1.33	55	C	L	37	2784
	Indirect	42	207	165	14.27	-	1.33	55	B	-	-	-
	Indirect Solar Single Coil	42	207	165	13.80	60	1.33	55	B	-	-	-
	Solar Twin	42	203	161	13.80/12.91	51	1.33	55	B	-	-	-
	Direct Super Eco	38	197	159	-	-	1.20	50	C	M	36	1486
	Indirect Super Eco	42	198	156	18.06	-	1.20	50	B	-	-	-
Evocyl AIR 210	Direct	41	232	191	-	-	1.40	58	C	L	37	2796
	Indirect	45	232	187	14.91	-	1.40	58	B	-	-	-
	Indirect Solar Single Coil	45	232	187	15.34	70	1.40	58	B	-	-	-
	Solar Twin	48	232	184	15.34/13.68	60	1.40	58	B	-	-	-
	Direct Super Eco	41	224	183	-	-	1.35	56	C	M	36	1512
Evocyl AIR 250	Indirect Super Eco	45	225	180	19.15	-	1.35	56	B	-	-	-
	Direct	46	281	235	-	-	1.44	60	C	XL	38	4577
	Indirect	51	281	230	14.91	-	1.44	60	B	-	-	-
	Indirect Solar Single Coil	51	281	230	17.41	80	1.44	60	B	-	-	-
Evocyl AIR 300	Solar Twin	53	279	226	17.41/14.78	80	1.44	60	B	-	-	-
	Direct	55	319	264	-	-	1.81	75	C	XL	38	4677
	Indirect	60	319	259	17.70	-	1.81	75	C	-	-	-
Evocyl AIR Slimline 120	Indirect Solar Single Coil	60	319	259	19.15	90	1.81	75	C	-	-	-
	Solar Twin	63	317	254	19.15/16.73	90	1.81	75	C	-	-	-
Evocyl AIR Slimline 150	Direct	26	133	107	-	-	1.13	47	C	M	36	1589
	Indirect	30	134	104	14.94	-	1.13	47	B	-	-	-
Evocyl AIR Slimline 180	Direct	33	164	131	-	-	1.36	57	C	M	36	1651
	Indirect	38	166	128	16.45	-	1.36	57	B	-	-	-
Evocyl AIR Slimline 210	Direct	38	197	159	-	-	1.51	63	C	L	37	2815
	Indirect	42	198	156	18.06	-	1.51	63	C	-	-	-
Evocyl AIR Slimline 250	Direct	41	224	183	-	-	1.66	69	C	L	37	2840
	Indirect	45	225	180	19.15	-	1.66	69	C	-	-	-

All performance testing in accordance with BS EN 12897:2006. Heat up 15°C to 60°C. Primary flow 80°C @ 15Lpm.

* Solar Twin Coil heat-up times are for boiler coil.

** Where cylinders are fitted with multiple immersion heaters, performance is for lower 3kW heater.

*** Upper Coil/Lower Coil.

SC: Single Coil



About your Evocyl AIR

Answering the questions before you need to ask.

Who can install my Evocyl AIR?

As with all unvented cylinders you will need a competent plumber or heating engineer who is fully qualified to install unvented hot water units. In England and Wales, an installer requires a G3 unvented qualification, or be a member of a competent person's scheme - they will have a registration card to prove they have obtained this certification. The equivalent for Scotland is P3 and for Northern Ireland it is P5.

When should I get my Evocyl AIR serviced?

To ensure the 25 year transferrable cylinder warranty remains valid, the vessel must be serviced annually and the log (found in the back of the installation manual) filled in. For ease to the homeowner we recommend booking a cylinder service at the same time and date as the boiler's annual service.

Should you have any questions about our products or their installation, please do not hesitate to call our technical team.

TECHNICAL TEAM
01924 270847

My Evocyl AIR isn't working correctly, who should I contact?

To avoid confusion between engineer setups, we recommend contacting the original installer of the cylinder should you encounter any problems. Our technical team will be more than happy to assist over the phone to solve any problems, and if needs be, we also have a team of fully qualified engineers in house that can visit your property in the event of a significant problem or emergency.

I need a new replacement part for my Evocyl AIR, who can I buy them from?

We recommend buying from a listed plumbers merchant who can order parts from us directly via the product codes stated in this brochure.

Why is water dripping from my tundish?

All unvented water systems require a tundish to provide an air gap into the system that allows running water from the emergency discharge to be seen by the homeowner as per G3 UK regulations.

Dripping water in the tundish may be indicative of a problem within the hot water system, and consequently one of the safety devices may be opening. We advise having a competent and qualified unvented engineer look at the system to diagnose and rectify any problems.

ThermaQ Evocyl

The New Standard in Hot Water Generation.

ThermaQ continue to drive new manufacturing technologies and design practices. Always leading the way in the UK water heating market, we're committed to fulfilling our customers' requirements and with our wide product range we offer the very best in both domestic and commercial products.



Upon installation horizontal cylinder is sited so all connections face vertically upwards.

Evocyl Standard

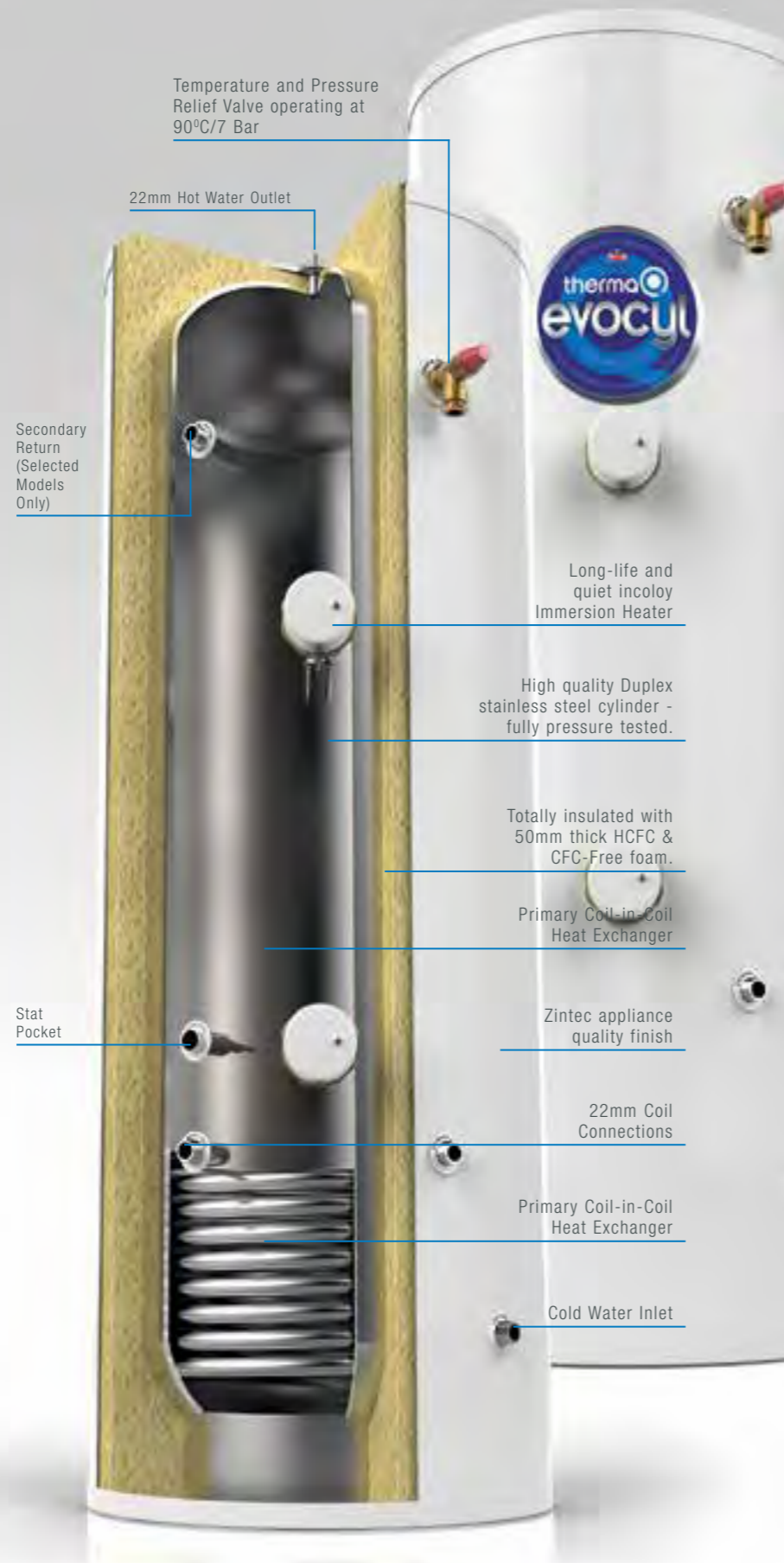
Designed for performance and reliability.

Our standard range of superior quality Evocyl cylinders are built using high grade Duplex stainless steel and designed to provide fast flowing hot water to single or multiple outlets. Manufactured to the highest standards and supplied with innovative components to ensure quick recovery, low heat loss and economic use of energy.

For your peace of mind, they come with a 25 year cylinder and 2 years parts guarantee, so we believe it will be a great investment you make in your hot water.

SPECIFICATION

- 25 year cylinder warranty and 2 years parts warranty.
- Sizes 90L to 300L in 545mm diameter.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- Supplied with high quality unvented installation components.
- Indirect units supplied with fuel saving anti- Legionella dual stat.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- 22mm threaded connections.
- Efficient primary coil.
- Solar versions available.
- Long-life 3kW Incoloy immersion heater supplied as standard. Upgrade to Titanium and/or 6kW immersion heater on request.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.



EVOCYL STANDARD DIRECT

CODE	TQDIR 0090	TQDIR 0120	TQDIR 0150	TQDIR 0180	TQDIR 0210	TQDIR 0250	TQDIR 0300
CAPACITY AT 3 BAR (L)	90	120	150	180	210	250	300
HEIGHT	E	760	940	1140	1320	1510	1760
DIAMETER	545	545	545	545	545	545	545
COLD INLET	A	195	195	195	195	195	195
IMMERSION	B	242	242	242	242	242	242
IMMERSION	C	-	519	619	719	819	959
T&P VALVE	D	515	703	890	1078	1266	1516



EVOCYL STANDARD INDIRECT

CODE	TQIND 0090	TQIND 0120	TQIND 0150	TQIND 0180	TQIND 0210	TQIND 0250	TQIND 0300
CAPACITY AT 3 BAR (L)	90	120	150	180	210	250	300
HEIGHT	H	760	940	1140	1320	1510	1760
DIAMETER	545	545	545	545	545	545	545
COLD INLET	A	195	195	195	195	195	195
BOTTOM COIL	B	305	305	340	340	365	365
STAT POCKET	C	360	360	395	395	475	475
IMMERSION	D	345	345	380	380	410	410
IMMERSION	E	-	-	-	-	-	1115
SEC. RETURN	F	-	-	-	-	1160	1410
T&P VALVE	G	525	710	890	1085	1265	1520



EVOCYL STANDARD SOLAR INDIRECT TWIN COIL

CODE	TQSIN 0150	TQSIN 0180	TQSIN 0210	TQSIN 0250	TQSIN 0300
CAPACITY AT 3 BAR (L)	150	180	210	250	300
HEIGHT	I	1140	1320	1510	1760
DIAMETER	545	545	545	545	545
COLD INLET	A	195	195	195	195
BOTTOM COIL	B	310	310	370	370
STAT POCKET	C	365	365	420	420
TOP COIL	D	660	665	780	855
STAT POCKET	E	705	725	835	905
IMMERSION	F	765	775	890	970
SEC. RETURN	G	-	-	1155	1400
T&P VALVE/STATS	H	900	1070	1265	1510



EVOCYL STANDARD SOLAR DIRECT SINGLE COIL

CODE	TQSDI 0150	TQSDI 0180	TQSDI 0210	TQSDI 0250	TQSDI 0300
CAPACITY AT 3 BAR (L)	150	180	210	250	300
HEIGHT	G	1140	1320	1510	1760
DIAMETER	545	545	545	545	545
COLD INLET	A	195	195	195	195
BOTTOM COIL	B	285	295	375	370
STAT POCKET	C	345	350	425	425
IMMERSION	D	390	460	525	680
IMMERSION	E	605	710	815	955
T&P VALVE/STAT	F	895	1065	1260	1510

Evocyl Slimline

When installation space is at a premium, we offer the same great product but with a much smaller footprint.

With a nominal diameter of only 475mm our Evocyl Slimline is designed to fit in those smaller awkward spaces. This means many older dwellings with smaller airing cupboards can now enjoy the benefits of mains pressure hot water with fast filling baths and modern showers.

For your peace of mind, all our cylinders come with a 25 year cylinder and 2 years parts guarantee, it just might be the best small investment you make in your hot water.

SPECIFICATION

- 25 year cylinder warranty and 2 years parts warranty.
- Sizes 60L to 210L in 475mm diameter.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- Supplied with high quality unvented installation components.
- Indirect units supplied with fuel saving anti- Legionella dual stat.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- 22mm threaded connections.
- Efficient primary coil.
- Solar versions available.
- Long-life 3kW Incoloy immersion heater supplied as standard. Upgrade to Titanium and/or 6kw immersion heater on request.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.



EVOCYL SLIMLINE
475 MM WIDTH



EVOCYL SLIMLINE DIRECT

CODE	TQNDI 0060	TQNDI 0090	TQNDI 0120	TQNDI 0150	TQNDI 0180	TQNDI 0210	
CAPACITY AT 3 BAR (L)	60	90	120	150	180	210	
HEIGHT	E	640	940	1205	1470	1750	1920
DIAMETER		475	475	475	475	475	
COLD INLET	A	162	162	162	162	162	
IMMERSION	B	212	212	212	212	212	
IMMERSION	C	-	-	722	905	1082	1245
T&P VALVE	D	437	722	987	1262	1527	1739



EVOCYL SLIMLINE INDIRECT

CODE	TQNIN 0060	TQNIN 0090	TQNIN 0120	TQNIN 0150	TQNIN 0180	TQNIN 0210	
CAPACITY AT 3 BAR (L)	60	90	120	150	180	210	
HEIGHT	F	640	940	1205	1470	1750	1920
DIAMETER		475	475	475	475	475	
COLD INLET	A	162	162	162	162	162	
BOTTOM COIL	B	288	288	288	328	328	363
STAT POCKET	C	343	343	393	433	433	513
IMMERSION	D	328	328	368	418	418	453
T&P VALVE	E	437	722	987	1262	1527	1739



EVOCYL SLIMLINE TWIN COIL

CODE	TQSSI 0150	TQSSI 0180	TQSSI 0210	
CAPACITY AT 3 BAR (L)	150	180	210	
HEIGHT	F	1510	1775	1980
DIAMETER		475	475	475
COLD INLET	A	105	105	105
BOTTOM COIL	B	280	280	355
STAT POCKET	C	335	335	410
TOP COIL	D	632	676	770
STAT POCKET	E	683	715	820
IMMERSION	F	916	1093	1256
T&P VALVE/STATS	G	1273	1538	1783



EVOCYL SLIMLINE SOLAR DIRECT

CODE	TQSSD 0150	TQSSD 0180	TQSSD 0210	
CAPACITY AT 3 BAR (L)	150	180	210	
HEIGHT	F	1510	1775	1980
DIAMETER		475	475	475
COLD INLET	A	105	105	105
BOTTOM COIL	B	280	280	355
IMMERSION	C	335	335	445
STAT POCKET	D	320	320	395
IMMERSION	E	916	1093	1256
T&P VALVE/STATS	F	1273	1538	1783

Evocyl Super ECO

The Evocyl Super ECO is manufactured to the same high quality standards but with additional insulation to reduce heat loss.



We have many customers who require products that have minimal environmental impact and with this in mind we designed the Evocyl Super Eco which is available up to 210 ltr.

As with the rest of the Evocyl range the product is manufactured to the highest standards from our highly invested factory, using the latest technology.

We have increased the HCFC/CFC free insulation to 85mm which significantly lowers the cylinder heat loss and therefore reduces fuel bills.

All Evocyl units are supplied with a digital dual stat so the cylinder temperature can be accurately set to meet the customer demands and run the product efficiently. The dual stat has a built in anti-Legionella function which will heat the cylinder in excess of 61 degrees once weekly, for peace of mind.

The Evocyl Super Eco can also help improve SAP performance in new build properties.



EVOCYL SUPER ECO DIRECT

CODE	TQEDX 0090	TQEDX 0120	TQEDX 0150	TQEDX 0180	TQEDX 0210	
CAPACITY AT 3 BAR (L)	90	120	150	180	210	
HEIGHT	E	940	1205	1470	1750	1920
DIAMETER		545	545	545	545	545
COLD INLET	A	162	162	162	162	162
IMMERSION	B	212	212	212	212	212
IMMERSION	C	-	722	905	1082	1245
T&P VALVE	D	722	987	1262	1527	1739



EVOCYL SUPER ECO INDIRECT

CODE	TOIEX 0090	TOIEX 0120	TOIEX 0150	TOIEX 0180	TOIEX 0210	
CAPACITY AT 3 BAR (L)	90	120	150	180	210	
HEIGHT	F	940	1205	1470	1750	1920
DIAMETER		545	545	545	545	545
COLD INLET	A	162	162	162	162	162
BOTTOM COIL	B	288	288	328	328	363
IMMERSION	C	328	368	418	418	453
STAT POCKET	D	343	393	433	433	513
T&P VALVE	E	722	987	1262	1527	1739

SPECIFICATION

- Sizes 90L to 210L in 545mm diameter.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Totally insulated with 85mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- Super low heat loss to reduce fuel bills and improve SAP ratings.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- Supplied with high quality unvented installation components.
- Indirect units supplied with fuel saving anti-Legionella dual stat.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- 22mm threaded connections.
- Efficient primary coil.
- Long-life 3kW Incoloy immersion heater supplied as standard. Upgrade to Titanium and or 6kw immersion heater on request.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.
- 25 year cylinder warranty and 2 years parts warranty.

Evocyl Horizontal

Designed with performance in mind.

Produced to the same specification as Evocyl cylinders, the horizontal variant offers increased siting options allowing larger storage capacities in areas that would not normally accommodate standard vertical cylinders.

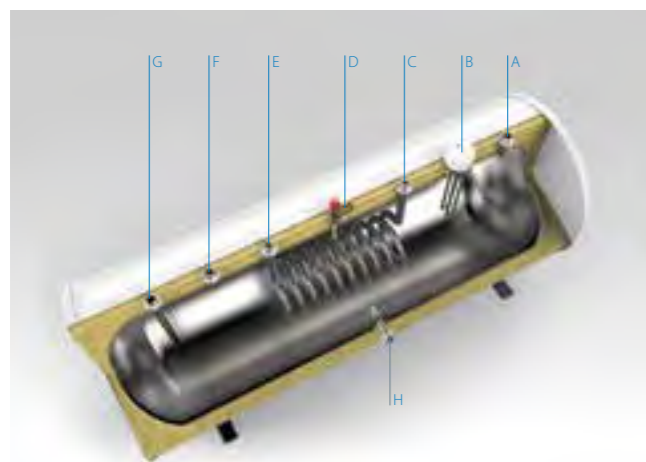
All horizontal cylinders supplied with cradles.

SPECIFICATION

- 25 year cylinder warranty and 2 years parts warranty.
- Sizes 120L to 300L in 545mm diameter.
- 2 immersion heaters on 150L and above as standard.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- Supplied with high quality unvented installation components.
- Supplied with a mechanical cylinder stat for simple electrical installation.
- 22mm threaded connections.
- Efficient primary coil.
- Long-life 3kW Incoloy immersion heater supplied as standard. Upgrade to Titanium and/or 6kw immersion heater on request.
- Supplied with mounting cradles.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.



Upon installation all connections are on top of cylinder.



EVOCYL HORIZONTAL INDIRECT

CODE	TQHOI 0120	TQHOI 0150	TQHOI 0180	TQHOI 0210	TQHOI 0250	TQHOI 0300
CAPACITY AT 3 BAR (L)	120	150	180	210	250	300
LENGTH	910	1100	1290	1480	1730	1990
DIAMETER	545	545	545	545	545	545
HOT DRAW OFF	A	215	215	215	215	215
IMMERSION 1	B	280	350	310	340	445
BOILER RETURN	C	370	500	405	520	730
T&P VALVE	D	505	665	650	745	980
BOILER FLOW	E	625	830	905	1020	1230
SEC. RETURN	F	-	-	-	1145	1330
COLD FEED	G	695	900	1090	1270	1515
STAT POCKET	H	505	665	650	745	980

Evocyl Lowline

For large volumes of hot water storage but with limited height in the space available.

As part of our flexibility in manufacturing and commitment to making life easier for you, our customer, we now offer the ThermoQ Lowline. In opposing fashion to the slimline cylinders, which are narrower and taller than the standard Evocyl models, the Lowline models are shorter and stockier than our regular range – ideal for airing cupboards where large water capacities are required but the height isn't available for the standard cylinder.

Available in 250 & 300L models at 590mm diameter for both direct and indirect, the Lowline is a handy addition to the Evocyl range when you need capacity, but don't have the height required for a standard Evocyl.

SPECIFICATION

- 25-year cylinder warranty and 2-year parts warranty.
- Available in 250L or 300L capacities in 590mm diameter.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Lightweight construction with white goods finish.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- Supplied with high quality unvented installation components.
- 22mm threaded connections.
- Efficient coil-in-coil heat exchanger.
- Long life 3kW incoloy immersion heater supplied as standard. Upgrade to titanium and/or higher wattages on request.



CODE	TQLLD 0250	TQLLI 0250	TQLLD 0300	TQLLI 0300
CYLINDER TYPE	DIRECT	INDIRECT	DIRECT	INDIRECT
CAPACITY	250	250	300	300
HEIGHT	H	1430	1430	1640
DIAMETER	590	590	590	590
COLD INLET	A	230	230	230
IMMERSION 1	B	280	452	452
IMMERSION 2	C	1030	1030	1130
BOTTOM COIL	D	-	412	-
STAT POCKET	E	-	502	-
SEC. RETURN	F	-	1280	-
T&P VALVE	G	1205	1205	1416

Evocyl Calorifiers

Therma Q large domestic cylinders are available in 400, 500 & 600 litre and are ideal when large volumes of water are required in a standard specification.



Sizes shown from left to right: 400L Indirect, 500L Direct, 600L Indirect.

More volume and flexibility for larger demands

For large volumes of hot water storage but with limited height in the space available.

For systems requiring large volumes of hot water storage, a number of ThermaQ calorifier models are available. The Evocyl range of calorifiers are manufactured from high grade stainless steel with coil sizes to suit all applications.

Immersion heaters are upgradable to large wattages or titanium construction. Give our sales office a call and we'll be happy to help you however we can.



SPECIFICATION

- 5 year cylinder warranty and 2 years parts and labour warranty.
- Sizes 400L to 600L as standard in varying diameters.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- Supplied with high quality unvented installation components.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- Efficient primary coil.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.
- Smart immersion heaters are provided on all direct calorifiers as standard.
- Our large domestic domestic style cylinders are supplied with 22mm threaded coil connections.
- 1" bsp female cold feed, hot flow, secondary return and de-stratification connections.
- The cold inlet and hot outlet, combined with the inlet control set can all be upgraded to 28mm, please ask your stockist for a price if this is the specification you require.

EVOCYL CALORIFIER INDIRECT

CODE	TQIND 0400	TQIND 0500	TQIND 0600
CAPACITY (L)	365	455	555
HEIGHT	J	1850	2220
DIAMETER	690	690	690
COLD INLET	A	260	260
BOILER COIL	B	392	392
STAT POCKET	C	400	400
IMMERSION HEATER 1	D	432	432
LOWER DESTRATIFICATION TAPPING	E	492	492
UPPER DESTRATIFICATION TAPPING	F	1075	1250
IMMERSION HEATER 2	G	910	1160
SECONDARY RETURN	H	1240	1860
T&P VALVE	I	1260	1880

Evocyl Heatpump Cylinders

Introducing the ThermoQ high efficiency cylinder designed for use with heatpumps. Purpose built to our exacting standards this cylinder meets the specific requirements of the market and our customers. Universally compatible with all domestic HP's.

The secret to our Heatpump cylinder's fantastic performance is in the large diameter corrugated coil we make in-house.



The Evocyl Heatpump range comes complete with all the fittings you will need for a complete trouble free installation.



COLD WATER INLET SET
TQX0017



TWO PORT ZONE VALVE
TQX0019



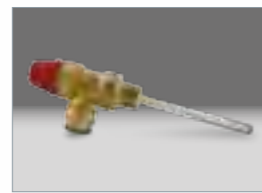
DUAL THERMOSTAT
TQX0048



TUNDISH
TQX0024



3KW IMMERSION HEATER
TQX0002



T&P RELIEF VALVE
TQX0001



EXPANSION VESSEL
AND BRACKET
TQX0029 (18L)
TQX0030 (24L)

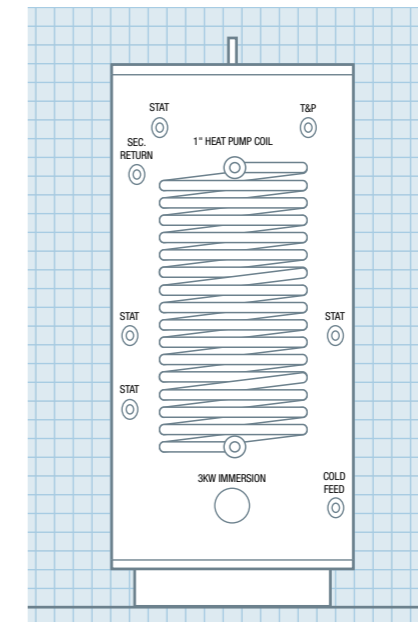
Efficiency

Easily adjust flow rates.

The Evocyl Heatpump cylinder is designed with a 3m² high efficiency heat exchanger to facilitate the transfer of the low temperature inputs of ground & air source heat pumps. The heatpump cylinder transfers the fluid through an internal heat exchanger saving space on the outside of the unit, as well as allowing the user to easily adjust flow rates to suit their requirements.

INDIRECT SINGLE COIL

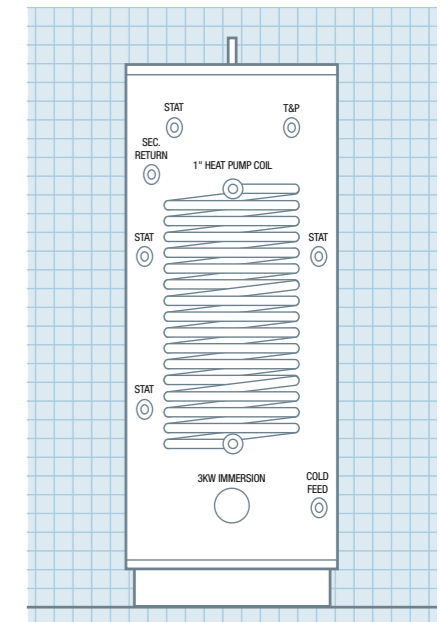
Suitable for Heatpump



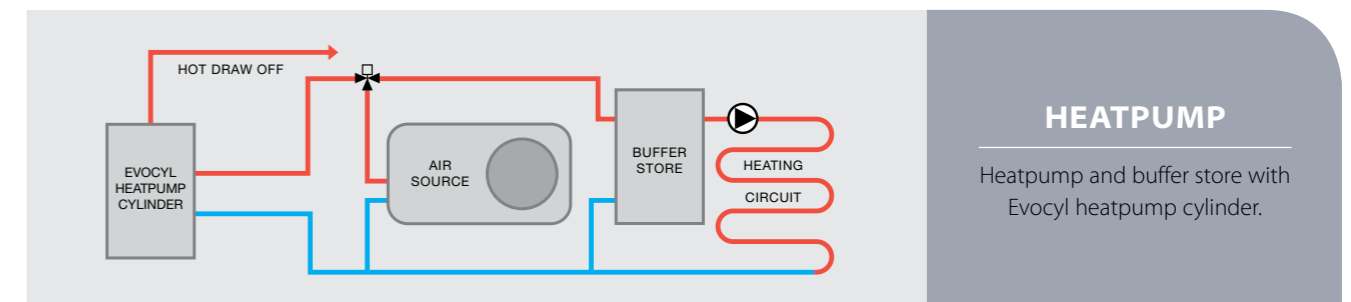
CODE	CAPACITY (L)	DIMENSIONS (mm)
TQHPD3180	180	1320 x 545
TQHPD3210	210	1510 x 545
TQHPD3250	250	1760 x 545
TQHPD3300	300	1980 x 545
TQHPD3350	350	1350 x 690
TQHPD3400	400	1520 x 690

SLIM INDIRECT SINGLE COIL

Suitable for Heatpump



CODE	CAPACITY (L)	DIMENSIONS (mm)
TQHPS3180	180	1750 x 475
TQHPS3210	210	1920 x 475



SPECIFICATION

- 25 year cylinder warranty and 2 years parts warranty.
- Sizes 180L to 300L in 545mm diameter.
- Cylinder manufactured from high grade Duplex Stainless Steel.
- Totally insulated with 50mm 100% CFC and HCFC free polyurethane to minimise heat loss.
- 3m² coil as standard.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- Supplied with high quality unvented installation components.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- 22mm compression connections on cold inlet, secondary return and hot outlet. A pair of 1 1/4" x 28mm coupling connections are supplied with the cylinder for use with the coil.
- Solar versions available upon request.
- Long-life 3kW Incoloy immersion heater supplied as standard. Upgrade to Titanium and or 6kw immersion heater on request.
- Supplied with all safety controls as required by UK Building Regulations and Water Regulations.

Evocyl Specification

Performance Data.

PRODUCT	WEIGHT EMPTY (KG)	WEIGHT FULL (KG)	FULL COLD CAPACITY (Litres)	REHEAT INDIRECT* (Minutes)	REHEAT 3KW IMMERSION** (Minutes)	HEAT EXCHANGE*** kW	DEDICATED SOLAR (Litres)	STANDING LOSS CYLINDER		ERP ENERGY RATING	ERP LOAD PROFILE	ERP ENERGY EFFICIENCY ηwh%	ANNUAL ENERGY USAGE kWh/Year	
								kWh/24h	Watts					
Evocyl 90	Direct	21	111.00	90.00	-	69	-	0.96	40	C	M	38	1535	
	Indirect	23	109.39	86.39	14.3	52	15.73	0.96	40	B	-	-	-	
	Direct Super Eco	21	111.00	90.00	-	69	-	0.84	35	C	M	36	1426	
	Indirect Super Eco	23	109.39	86.39	14.3	52	15.73	-	0.84	35	B	-	-	
Evocyl 120	Direct	26	146.00	120.00	-	103	-	1.11	46	C	M	38	1601	
	Indirect	30	146.39	116.39	19.05	86	15.63	1.11	46	B	-	-	-	
	Direct Super Eco	26	146.00	120.00	-	103	-	0.92	38	C	M	36	1439	
	Indirect Super Eco	30	146.39	116.39	19.05	86	15.63	-	0.92	38	B	-	-	
Evocyl 150	Direct	33	183.00	150.00	-	137	-	1.26	53	C	M	38	1618	
	Indirect	38	184.39	146.39	23.71	120	16.33	1.26	53	B	-	-	-	
	Direct Solar	38	184.39	146	-	108	16.33	50	1.26	53	B	-	-	
	Solar Twin	40	182.78	142.78	16.05	54	17.49/16.33	50	1.26	53	B	-	-	
	Direct Super Eco	33	183.00	150.00	-	137	-	-	1.06	44	C	M	36	1463
	Indirect Super Eco	38	184.39	146.39	23.71	120	16.33	-	1.06	44	B	-	-	-
Evocyl 180	Direct	38	218.00	180.00	-	171	-	1.40	58	C	L	38	2899	
	Indirect	42	217.86	175.86	29.20	147	15.90	1.40	58	B	-	-	-	
	Direct Solar	42	217.86	175.86	-	131	15.90	60	1.40	58	B	-	-	
	Solar Twin	45	216.17	171.71	19.5	89	18.85/15.90	60	1.40	58	B	-	-	
	Direct Super Eco	38	218.00	180.00	-	171	-	-	1.20	50	C	M	36	1485
	Indirect Super Eco	42	217.86	175.86	29.20	147	15.90	-	1.20	50	B	-	-	-
Evocyl 210	Direct	41	251.00	210.00	-	205	-	1.48	62	C	L	37	3068	
	Indirect	45	248.25	203.25	32.5	181	18.15	1.48	62	B	-	-	-	
	Direct Solar	45	248.25	203.25	-	154	18.15	75	1.48	62	B	-	-	
	Solar Twin	48	250.24	202.24	23.70	98	17.18/17.50	75	1.48	62	B	-	-	
	Direct Super Eco	41	251.00	210.00	-	205	-	-	1.35	56	C	M	36	1512
	Indirect Super Eco	45	248.25	203.25	32.5	181	18.15	-	1.35	56	B	-	-	-
Evocyl 250	Direct	46	296.00	250.00	-	221	-	1.76	73	C	XL	38	4562	
	Indirect	51	296.25	245.25	38.83	220	17.80	1.76	73	C	-	-	-	
	Direct Solar	51	296.25	245.25	-	171	17.80	85	1.76	73	C	-	-	
	Solar Twin	53	294.10	241.10	26.33	129	19.00/17.50	85	1.76	73	C	-	-	
Evocyl 300	Direct	55	355.00	300.00	-	308	-	2.03	85	C	XL	38	4656	
	Indirect	60	355.25	295.25	43.80	277	19.35	2.03	85	C	-	-	-	
	Direct Solar	60	355.25	295.25	-	211	19.35	100	2.03	85	C	-	-	
	Solar Twin	63	353.50	290.50	29.3	163	20.87/19.35	100	2.03	85	C	-	-	
Evocyl 400	Indirect	76	441.55	365.55	45	307	17.62	1.86	78	C	-	-	-	
	Direct Solar	76	441.55	365.55	45	272	17.62	213	1.86	78	C	-	-	
	Solar Twin	78	439.10	361.10	45	142	18.97/17.62	161	1.86	78	C	-	-	
Evocyl 500	Indirect	92	547.55	455.55	56	408	20.11	2.20	92	C	-	-	-	
	Direct Solar	92	547.55	455.55	56	362	20.11	266	2.20	92	C	-	-	
	Solar Twin	94	545.10	451.10	56	220	22.05/20.11	201	2.20	92	C	-	-	
Evocyl 600	Indirect	103	658.55	555.55	68	525	20.57	2.42	101	C	-	-	-	
	Direct Solar	103	658.55	555.55	68	436	20.57	320	2.42	101	C	-	-	
	Solar Twin	104	656.10	551.10	68	298	23.17/20.57	242	2.42	101	C	-	-	

PRODUCT	WEIGHT EMPTY (KG)	WEIGHT FULL (KG)	FULL COLD CAPACITY (Litres)	REHEAT INDIRECT* (Minutes)	REHEAT 3KW IMMERSION** (Total Minutes)	HEAT EXCHANGE*** kW	DEDICATED SOLAR (Litres)	STANDING LOSS CYLINDER		ERP ENERGY RATING	ERP LOAD PROFILE	ERP ENERGY EFFICIENCY ηwh%	ANNUAL ENERGY USAGE kWh/Year
								kWh/24h	Watts				
Evocyl Slimline 60	Direct	19	79	54	-	41	-	0.92	38	C	M	37	1592
	Indirect	21	81	50	13.40	26	16.04	0.92	38	B	-	-	-
Evocyl Slimline 90	Direct	21	111	85	-	77	-	1.03	43	C	M	36	1561
	Indirect	23	113	82	14.30	62	15.73	1.03	43	B	-	-	-
Evocyl Slimline 120	Direct	26	146	115	-	110	-	1.24	52	C	M	36	1603
	Indirect	30	150	109	19.05	95	15.63	1.24	52	B	-	-	-
Evocyl Slimline 150	Direct	33	183	145	-	145	-	1.44	60	C	M	36	1662
	Indirect	38	188	141	23.71	125	16.33	1.44	60	C	-	-	-
	Direct Solar	38	188	141	-	132	16.33	50	1.44	60	C	-	-
	Solar Twin	40	190	138	16.05	132	17.40/16.33	50	1.44	60	C	-	-
Evocyl Slimline 180	Direct	38	218	174	-	178	-	1.53	64	C	M	34	1542
	Indirect	42	222	170	29.02	158	15.90	1.53	64	C	-	-	-
	Direct Solar	42	222	170	-	166	15.90	60	1.53	64	C	-	-
	Solar Twin	45	225	166	19.50	166	18.85/15.90	60	1.53	64	C	-	-
Evocyl Slimline 210	Direct	41	251	202	-	207	-	1.62	68	C	L	37	3068
	Indirect	45	255	197	32.05	185	18.15	1.62	68	C	-	-	-
	Direct Solar	45	255	197	-	187	18.15	75	1.62	68	C	-	-
	Solar Twin	48	258	194	23.70	187	17.18/18.15	75	1.62	68	C	-	-
Evocyl Horizontal 120	Indirect	33	150	117	15.82	116	16.54	1.29	54	C	-	-	-
Evocyl Horizontal 150	Indirect	44	191	147	20.58	146	18.15	1.50	63	C	-	-	-
Evocyl Horizontal 180	Indirect	47	223	176	22.43	176	17.31	1.71	71	C	-	-	-
Evocyl Horizontal 210	Indirect	53	257	204	27.24	205	17.58	1.93	80	C	-	-	-
Evocyl Horizontal 250	Indirect	58	303	245	31.64	245	18.07	2.13	89	C	-	-	-
Evocyl Horizontal 300	Indirect	63	358	295	36.05	295	18.56	2.35	98	C	-	-	-
Evocyl Heatpump 180	Indirect SC	55	130	166	10.87	-	36.71	1.40	44	B	-	-	-
Evocyl Heatpump 210	Indirect SC	58	261	196	12.87	-	36.38	1.48	62	B	-	-	-
Evocyl Heatpump 250	Indirect SC	61	304	236	16.93	-	36.72	1.76	73	C	-	-	-
Evocyl Heatpump 300	Indirect SC	63	356	286	21.26	-	36.70	2.03	85	C	-	-	-
Evocyl Heatpump 350	Indirect SC	74	394	320	24.80	-	35.58	1.69	70	B	-	-	-
Evocyl Heatpump 400	Indirect SC	78	443	365	28.34	-	35.23	1.86	78	C	-	-	-
Evocyl HP Slim 180	Indirect SC	45	217	172	10.87	-	36.81	1.53	64	C	-	-	-
Evocyl HP Slim 210	Indirect SC	48	243	195	12.87	-	36.68	1.62	68	C	-	-	-

All performance testing in accordance with BS EN 12897:2006. Heat up 15°C to 60°C. Primary flow 80°C @ 15Lpm.

* Solar Twin Coil heat-up times are for boiler coil.

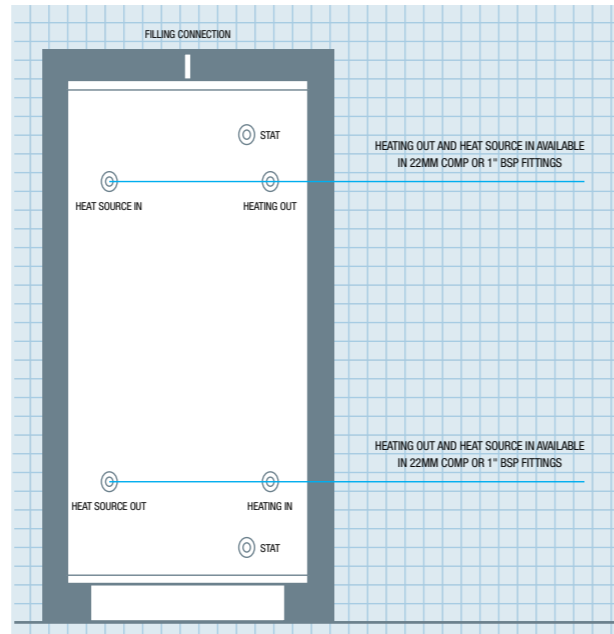
** Where cylinders are fitted with multiple immersion heaters, performance is for lower 3kW heater.

*** Upper Coil/Lower Coil.

SC: Single Coil

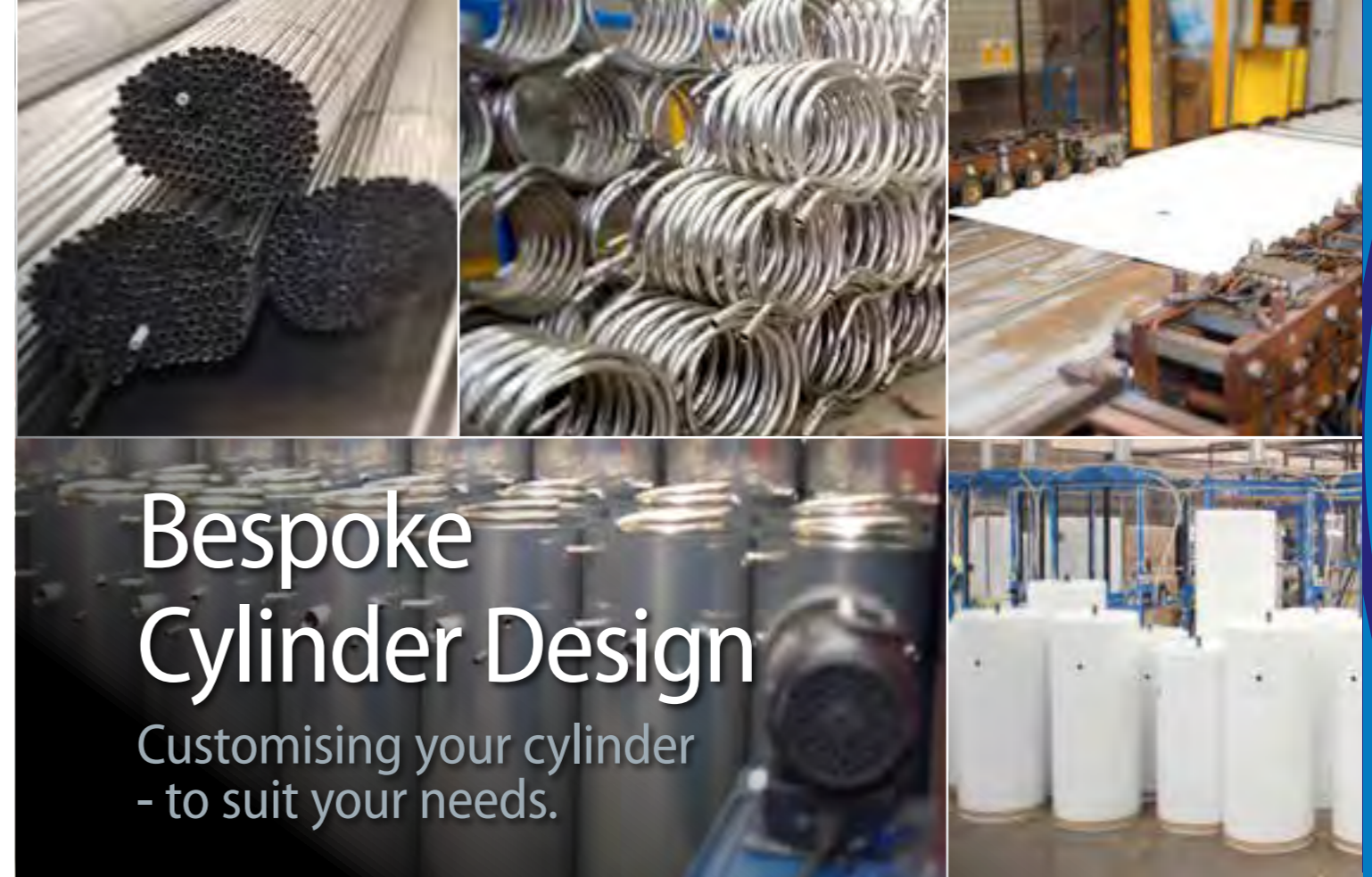
Evocyl Buffer Vessels

A full range of buffer vessels are available from ThermaQ for use in a variety of heating systems. Made from duplex 2304 stainless steel, all come with a 25 year warranty and are perfect for use with ground or air source heat pumps.



DIRECT BUFFER STORE TECHNICAL INFORMATION

DESCRIPTION		90D	120D	210D	250D	300D	500D
PRODUCT STOCK CODE		TQBD0090	TQBD0120	TQBD0210	TQBD0250	TQBD0300	TQBD0500
Energy Efficiency Class		B	B	B	C	C	C
Heat Loss	Watts	40	46	62	73	85	92
Capacity	Litres	90	120	210	250	300	500
Height	mm	727	915	1478	1728	2041	1842
Diameter	mm	545	545	545	545	545	545
Weight (empty)	kg	21	26	41	46	55	90
Weight (full)	kg	111	146	251	296	355	550
Standing Losses	kWh/24h	0.96	1.11	1.48	1.76	2.03	2.20
Maximum working pressure - cylinder	bar	3.5	3.5	3.5	3.5	3.5	3.5
Maximum working pressure - space heating	bar	3.5	3.5	3.5	3.5	3.5	3.5
Central heating flow connection	mm	28	28	28	28	28	42
Central heating return connection	mm	28	28	28	28	28	42
Heat pump flow connection	mm	28	28	28	28	28	42
Heat pump return connection	mm	28	28	28	28	28	42
Central heating flow tapping height	mm	192	192	192	192	192	230
Central heating return tapping height	mm	495	683	1246	1496	1809	1350
Heat pump flow tapping height	mm	495	683	1246	1496	1809	1270
Heat pump return tapping height	mm	192	192	192	192	192	320
Thermostatic pocket size - bottom	mm	22	22	22	22	22	22
Thermostatic pocket size - top	mm	22	22	22	22	22	22
Thermostatic pocket height - bottom	mm	180	180	180	180	180	795
Thermostatic pocket height - top	mm	515	703	1266	1516	1809	1590



Bespoke Cylinder Design

Customising your cylinder - to suit your needs.

For the jobs where the regular cylinder just won't cut it, here at ThermaQ we offer a bespoke cylinder service from 60-1500L capacities that will be sure to suit all installation needs. You may have a requirement for a wide cylinder due to lack of available height, or as tall and narrow as possible to cope with a thin airing cupboard. We'll be happy to try and accommodate for all requirements, offering from 475mm to 1150mm diameter on our cylinders.

We offer a high level of customisation in our bespoke units to suit your ideal application, ranging from the number of immersion heaters in a unit to the coil size in indirects.

These vary from our standard coil-in-coil heat exchanger as used in our Evocyls, all the way up to large diameter 3m² coils for high recovery, large capacity cylinders.

In addition, we can provide a plethora of safety valve sizes, immersion heater wattages and tapping diameters for any connections. Through our extraordinary flexibility in manufacturing, we strive to provide every cylinder you could need.

Everything is highly specified by our expert team, and we confirm a final design with the customer using AutoCAD drawings before construction begins on your vessel. Using the most modern design tools ensures that our state-of-the-art factory produces your cylinder as accurately as possible. Our customers return to ThermaQ time and time again due to the quality of our end product and the professionalism in the aftercare we provide.



Have any questions or an enquiry about our bespoke cylinder design service please contact the sales team at: sales@thermaq.co.uk or **01924 270847**.



Customer Support

Looking after our Customers.

Rest assured that if you need customer care support with any ThermaQ product, we have service engineers and sales support to help you.

Customer Care

All our sales and customer care services are based in the United Kingdom so if you have a breakdown or fault with your ThermaQ product, then we can recommend a local highly skilled engineer who will offer a prompt response and competitive price to repair your product. All cylinders come with a 25-year vessel and 2-year parts warranty for customer peace of mind.

In the event of a cylinder return, these are tested in-house to replicate faults that have been experienced out in the field. This allows us to prevent future problems through developing the manufacturing process and advance our reputation as a business – a problem with our products matters as much to us as it does to you!

In Warranty

Simply contact us on **01924 270847** or email customer@thermaq.co.uk and one of our team will be on hand to assist you. We will ask for your contact information, cylinder serial number and the full details of the fault so we can arrange a convenient appointment with one of our highly skilled engineers.

OUR SERVICES

- Preventive maintenance plans.
- Consultancy and advice.



Trouble Free

Installer friendly design.

ThermaQ's Evocyl has been thoughtfully designed to facilitate trouble free installation. Compact in design, with all connections accessible at the front of the unit the Evocyl range comes complete with all the fittings you will need for a complete trouble free installation. Evocyl's light weight construction means it's easy to handle and convenient to site almost anywhere in a building.

With over 80 models in the product range there is a ThermaQ Evocyl cylinder suitable for almost any application.

	DIRECT	INDIRECT	INDIRECT SOLAR	DIRECT SOLAR
Cold Water Inlet Set	■	■	■	■
15 x 22mm Tundish	■	■	■	■
Fitted Temperature and Pressure Relief	■	■	■	■
Expansion Vessel and Bracket	■	■	■	■
Immersion Heater(s)	■	■	■	■
2 Port Zone Valve		■	■	
Dual Thermostat		■	■	
Energy Cut-Out Thermostat			■	■
Instruction Manual	■	■	■	■



				
COLD WATER INLET SET TQX0017	TWO PORT ZONE VALVE TQX0019	DUAL THERMOSTAT TQX0048	T&P INSULATION COVER TQX0044	INSTALLATION MANUAL
				
3KW IMMERSION HEATER TQX0002	T&P RELIEF VALVE TQX0001	TUNDISH TQX0024	ENERGY CUT-OUT THERMOSTAT TQX0037	EXPANSION VESSEL AND BRACKET TQX0028 (12L) TQX0029 (18L) TQX0030 (24L)

ThermaQ Cylinders reserve the right to change the design and style of the components supplied at any time. When ordering spare parts to ensure consistency and compatibility please contact our technical department who will be pleased to help you with your enquiry.

Evocyl & Evocyl Air Pre-Plumbed Systems

The plug & go Pre-Plumbed units are available right across our range of Standard Direct, Indirect, Twin Coil, and Slimline units in internal and external expansion cylinders.

ALL OUR PRE-PLUMBED CYLINDERS NOW HAVE THE OPTION OF BEING SUPPLIED WITH 1 X DOMESTIC HOT WATER TIME CLOCK AND 1 OR 2 WIFI THERMOSTATS. SIMPLY ADD A "W" TO THE END OF OUR EXISTING PRE-PLUMBED PART NUMBER.



SPECIFICATION

- 25 year cylinder warranty and 2 years parts warranty.
- Cylinder manufactured from high grade Duplex Stainless Steel specially selected for its high strength and resistance to stress and crevice corrosion.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- Pre-fitted pipework.
- Primary heating coil for use with indirect systems.
- Solar input coil for use with solar thermal panel systems
- Totally insulated with 100% CFC-Free (ODP zero) polyurethane to minimise heat loss (50mm thick).
- Long-life 3kW Incoloy immersion heater with integral thermostat and thermal cut-out.
- 1/2" temperature and pressure relief valve operating at 90°C/7 bar.
- Indirect thermal controls.
- System boiler pre-plumbed available.

Our Pre-Plumbed Package Solution

Quality throughout our products.

In addition to supplying the components for all Evocyl Pre-Plumbed units, ThermaQ also provide the following from the standard unvented kit:

Cold Water Inlet Set	Expansion Vessel and Bracket
Tundish	3kW Immersion Heater(s)
T&P Relief Valve	

FEATURES

- Available in indirect models from 120, 150, 180, 210, 250 and 300 litre capacities. All sizes available in twin and single zone configuration.
- Solar indirect models: 180, 210, 250 and 300 litre capacity. All sizes available in twin and single zone configuration.
- Also available in Slimline models: 120, 150, 180 and 210 litre capacity.
- Factory fitted pipework.
- Advanced 7 day programmer giving room thermostat and hot water control.
- Control system provides separate control of heating and hot water zones.
- Delayed start thermostat offers SAP benefits.
- Automatic bypass valve fitted for system efficiency.
- Heating expansion vessel, pressure gauge, filling loop, expansion valve provided.
- System boiler models also available. This is the same specification but the following items are removed from the pre-plumbed package: Heating Expansion Vessel, Filling Loop and Heating Circulating Pump.

BENEFITS

- Intuitive controls for ease of use for home owners.
- A cost effective and simplified installation for a professional, neat and tidy layout and reduced labour time.
- Installations are consistent across the range for uniformity and greater customer satisfaction.
- Factory fitted components and controls assists in reducing expensive customer care visits to site.
- Stringent quality control through manufacture and assembly to ensure the units are leak free and ready to install on arrival on site.
- No requirement for fill and expansion tanks or water storage in loft spaces.
- Plug in connections for easy maintenance.

Pre plumbed pipework and components adds approx 160mm to front of cylinder. See cylinder dimensions on page 11 and 13.



AUTOMATIC BYPASS VALVE
TQX0022



PLUG & GO DUAL STAT
TQX0015



PLUG & GO WIRING CENTER
TQX0014



7 DAY PROGRAMMER
TQX0026 (2 channel)
TQX0027 (3 channel)



PLUG & GO 2 PORT VALVE
TQX0013



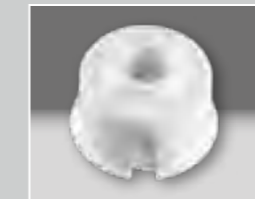
AUTOMATIC AIR-VENT
TQX0020



FILLING LOOP
TQX0031



PLUG & GO PUMP
TQX0011



T&P INSULATION COVER
TQX0044



LED THERMOSTAT
TQX0025



HEATING EXPANSION VESSEL
TQX0034 (12L)
TQX0035 (18L)
TQX0036 (24L)



INSTALLATION MANUAL
TQX0000

Evocyl Pre-Plumbed Specification

PRODUCT		WEIGHT EMPTY (KG)	WEIGHT FULL (KG)	FULL COLD CAPACITY (Litres)	REHEAT INDIRECT* (Minutes)	REHEAT 3KW IMMERSION** (Minutes)	HEAT EXCHANGE*** kW	DEDICATED SOLAR (Litres)	STANDING LOSS CYLINDER		ERP ENERGY RATING
									kWh/24h	Watts	
Evocyl Pre Plumbed 120	Standard	42	158	116	19.05	86	15.63	-	1.11	46	B
	System	42	158	116	19.05	86	15.63	-	1.11	46	B
	Super Eco	42	153	111	19.05	95	15.63	-	0.92	38	B
	Slimline	42	153	111	19.05	95	15.63	-	1.24	52	B
Evocyl Pre Plumbed 150	Standard	49	195	146	23.71	120	16.33	-	1.26	53	B
	System	49	195	146	23.71	120	16.33	-	1.26	53	B
	Super Eco	49	190	141	23.71	125	16.33	-	1.06	44	B
	Slimline	49	190	141	23.71	125	16.33	-	1.44	60	C
Evocyl Pre Plumbed 180	Standard	52	228	176	29.20	147	15.90	-	1.40	58	B
	System	52	228	176	29.20	147	15.90	-	1.40	58	B
	Super Eco	52	222	170	29.20	158	15.90	-	1.20	50	B
	Slimline	52	222	170	29.20	158	15.90	-	1.53	64	C
	Solar Twin	55	227	172	19.5	89	18.85/15.90	60	1.40	58	B
Evocyl Pre Plumbed 210	Standard	58	261	203	32.50	181	18.15	-	1.48	62	B
	System	58	261	203	32.50	181	18.15	-	1.48	62	B
	Super Eco	58	255	197	32.50	185	18.15	-	1.35	56	B
	Slimline	58	255	197	32.50	185	18.15	-	1.62	68	C
	Solar Twin	63	265	202	23.70	98	17.18/17.50	75	1.48	62	B
Evocyl Pre Plumbed 250	Standard	63	308	245	38.83	220	17.80	-	1.76	73	C
	System	63	308	245	38.83	220	17.80	-	1.76	73	C
	Solar Twin	68	309	241	26.33	129	19.00/17.50	85	1.76	73	C
Evocyl Pre Plumbed 300	Indirect	68	363	295	43.80	277	19.35	-	2.03	85	C
	System	68	363	295	43.80	277	19.35	-	2.03	85	C
	Solar Twin	72	363	291	29.3	163	20.87/19.35	100	2.03	85	C

All data applies to both single and twin zone cylinders.
All performance testing in accordance with BS EN 12897:2006. Heat up 15°C to 60°C. Primary flow 80°C @ 15Lpm.

* Solar Twin Coil heat-up times are for boiler coil.
** Where cylinders are fitted with multiple immersion heaters, performance is for lower 3kW heater.

*** Upper Coil/Lower Coil.

EVOCYL PRE-PLUMBED SINGLE ZONE

PRODUCT	CAPACITY (L)					
	120	150	180	210	250	300
EVOCYL STANDARD	TQPPS0120	TQPPS0150	TQPPS0180	TQPPS0210	TQPPS0250	TQPPS0300
EVOCYL SUPER ECO	TQSES0120ECO	TQSES0150ECO	TQSES0180ECO	TQSES0210ECO	-	-
EVOCYL SLIMLINE	TQSLP0120	TQSLP0150	TQSLP0180	TQSLP0210	-	-
EVOCYL SOLAR TWIN	-	-	TQPSS0180	TQPSS0210	TQPSS0250	TQPSS0300
EVOCYL SYSTEM	SBPPS0120	SBPPS0150	SBPPS0180	SBPPS0210	SBPPS0250	SBPPS0300

EVOCYL PRE-PLUMBED TWIN ZONE

PRODUCT	CAPACITY (L)					
	120	150	180	210	250	300
EVOCYL STANDARD	TQPPT0120	TQPPT0150	TQPPT0180	TQPPT0210	TQPPT0250	TQPPT0300
EVOCYL SUPER ECO	TQPET0120ECO	TQPET0150ECO	TQPET0180ECO	TQPET0210ECO	-	-
EVOCYL SLIMLINE	TQTPS0120	TQTPS0150	TQTPS0180	TQTPS0210	-	-
EVOCYL SOLAR TWIN	-	-	TQPST0180	TQPST0210	TQPST0250	TQPST0300
EVOCYL SYSTEM	SBPPT0120	SBPPT0150	SBPPT0180	SBPPT0210	SBPPT0250	SBPPT0300

Evocyl AIR Pre-Plumbed Specification

PRODUCT		WEIGHT EMPTY (KG)	WEIGHT FULL (KG)	FULL COLD CAPACITY (Litres)	HEAT EXCHANGE*** kW	DEDICATED SOLAR (Litres)	STANDING LOSS CYLINDER		ERP ENERGY RATING
							kWh/24h	Watts	
Evocyl AIR Pre Plumbed 120	Standard	42	147	105	12.02	-	1.04	43	B
	System	42	146	105	12.02	-	1.04	43	B
	Super Eco	42	146	104	14.94	-	0.92	38	B
	Slimline	42	146	104	14.94	-	1.13	47	B
Evocyl AIR Pre Plumbed 150	Standard	50	184	134	12.45	-	1.19	50	B
	System	49	183	134	12.45	-	1.19	50	B
	Super Eco	50	178	128	16.45	-	0.99	41	B
	Slimline	50	178	128	16.45	-	1.36	57	C
Evocyl AIR Pre Plumbed 180	Standard	54	219	165	14.27	-	1.33	55	B
	System	53	218	165	14.27	-	1.33	55	B
	Super Eco	54	210	156	18.06	-	1.05	44	B
	Slimline	54	210	156	18.06	-	1.51	63	C
	Solar Twin	57	218	161	13.80/12.91	51	1.33	55	B
Evocyl AIR Pre Plumbed 210	Standard	57	244	187	14.91	-	1.40	58	B
	System	56	243	187	14.91	-	1.40	58	B
	Super Eco	57	237	180	19.15	-	1.38	57	B
	Slimline	57	237	180	19.15	-	1.66	69	C
	Solar Twin	60	244	184	15.34/13.68	60	1.40	58	B
Evocyl AIR Pre Plumbed 250	Standard	63	293	230	14.91	-	1.44	60	B
	System	62	292	230	14.91	-	1.44	60	B
	Solar Twin	66	292	226	17.41/14.78	80	1.44	60	B
Evocyl AIR Pre Plumbed 300	Standard	72	331	259	17.70	-	2.81	75	C
	System	71	330	259	17.70	-	2.81	75	C
	Solar Twin	75	329	254	19.15/16.73	80	2.81	75	C

All data applies to both single and twin zone cylinders.
All performance testing in accordance with BS EN 12897:2006. Heat up 15°C to 60°C. Primary flow 80°C @ 15Lpm.
* Solar Twin Coil heat-up times are for boiler coil.

** Where cylinders are fitted with multiple immersion heaters, performance is for lower 3kW heater.
*** Upper Coil/Lower Coil.

EVOCYL AIR PRE-PLUMBED SINGLE ZONE

PRODUCT	CAPACITY (L)					
	120	150	180	210	250	300
EVOCYL AIR STANDARD	AGPPS0120	AGPPS0150	AGPPS0180	AGPPS0210	AGPPS0250	AGPPS0300
EVOCYL AIR SUPER ECO	AGSES0120ECO	AGSES0150ECO	AGSES0180ECO	AGSES0210ECO	-	-
EVOCYL AIR SLIMLINE	AGSLP0120	AGSLP0150	AGSLP0180	AGSLP0210	-	-
EVOCYL AIR SOLAR TWIN	-	-	AGPSS0180	AGPSS0210	AGPSS0250	AGPSS0300
EVOCYL AIR SYSTEM BOILER	AGSBS0120	AGSBS0150	AGSBS0180	AGSBS0210	AGSBS0250	AGSBS0300

EVOCYL AIR PRE-PLUMBED TWIN ZONE

PRODUCT	CAPACITY (L)					
	120	150	180	210	250	300
EVOCYL AIR STANDARD	AGPPT0120	AGPPT0150	AGPPT0180	AGPPT0210	AGPPT0250	AGPPT0300
EVOCYL AIR SUPER ECO	AGSET0120ECO	AGSET0150ECO	AGSET0180ECO	AGSET0210ECO	-	-
EVOCYL AIR SLIMLINE	AGTPS0120	AGTPS0150	AGTPS0180	AGTPS0210	-	-
EVOCYL AIR SOLAR TWIN	-	-	AGPST0180	AGPST0210	AGPST0250	AGPST0300
EVOCYL AIR SYSTEM BOILER	AGSBT0120	AGSBT0150	AGSBT0180	AGSBT0210	AGSBT0250	AGSBT0300

- WiFi control from your mobile or tablet
- Free APP, no hub required, no subscription or APP update fees
- App available on both Android and Apple Smartphones
- Delayed Start and TPI Technology
- 7 day, 5/2 day or 24 hour programme options
- Optional pre-set built in programme
- Select either 4 or 6 time and temperature events
- Automatic BST/GMT1 hour time change
- Easy to use and quick to install
- Holiday mode
- Flush mounted thermostat, with a recessed back plate.
- Upgradeable front fascia for all P5 family



ThermaQ's new Controls

WiFi connectivity and our new P5 range of controls.

ThermaQ are pleased to offer our new controls sets for combi controls and pre-plumbed systems, allowing all plots to match their specification across the site.

The sleek new design of these controls brings a home's heating right up to date with a modern look, as well as optional WiFi capabilities to alter your settings on the go from your smartphone or tablet.

P5 Programmable L.E.D Room Thermostat TQX0070

The new click front design and large L.E.D. digital display is so simple to use our customers love it! The slimline, built into wall design creates a stylish modern finish and all the P5 range have the interchangeable front panel and click on front design so upgrades are a breeze with the same wiring throughout.



The P5 family of controls from ThermaQ can be used with our cylinders or combi boilers in various packs or individually as upgrades.

NEW: P5 Programmable WiFi room thermostat TQX0071

Bring your heating into the modern age. This upgraded unit comes as a one piece WiFi-enabled thermostat which can be controlled via a downloadable app onto your smartphone or tablet, allowing you to control your home's heating on the go.

However we have made sure that if your clients are unable to use the internet or their smartphone or tablet isn't available the wifi thermostat also functions locally as a digital thermostat. This thermostat family is the simplest we have ever come across to utilise locally 'at the stat'.

The WiFi panel is completely interchangeable with the original L.E.D. Stat setup – simply remove the original panel and click on the WiFi panel; no additional wiring required, no central WiFi hub and no subscription fees!

Control Packs

Let us do the work for you! Our new thermostats range are available in ready-made packs for combi boilers and cylinders for your convenience and are shown in the table below.

PRODUCT CODE	DESCRIPTION	CONTENTS
TQX0070	P5 programmable L.E.D. Room Thermostat	1x P5 Programmable room thermostat, L.E.D., with wall mounted flush fit power supply. (Single zone heating).
TQX0071	P5 WiFi Programmable Thermostat	1 x Stat WiFi enabled Thermostat click-on face plate with wall mounted power supply. (Single zone heating).
TQX0072	P5 Twin zone L.E.D Combi Pack	2 x P5 Programmable room thermostat, L.E.D., with wall mounted power supply, 2 x 2-port zone valve, 1 x Wiring Centre.
TQX0073	D5 basic non (programmable), L.E.D. Room Thermostat	1x D5 Thermostat faceplate with wall mounted power supply.
TQX0074	P5 WiFi Twin-Zone Combi-Boiler Control Pack	2 x P5 Programmable room thermostat WiFi click-on faceplate with wall mounted power supply, 2 x 2-port zone valve, 1 x Wiring Centre.

P4 Range of Combi Controls

All your combi-controls available in one Installer friendly kit.

ThermaQ will still continue to supply the more traditional P4 range of controls at the same time allowing clients the option to move across to the new specification P5 range if they wish.

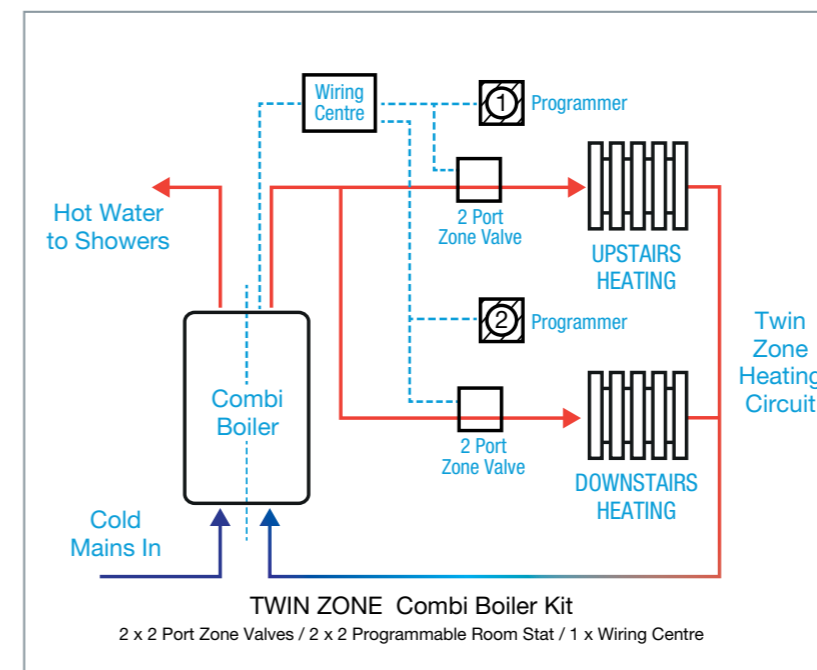
Purchasing all hot water controls from one manufacturer ensures uniformity across houses and sites, ease of maintenance and gives one easy point of contact for any questions or enquiries.

Please see our website for handy homeowners guides and 'how to' videos on all our controls.

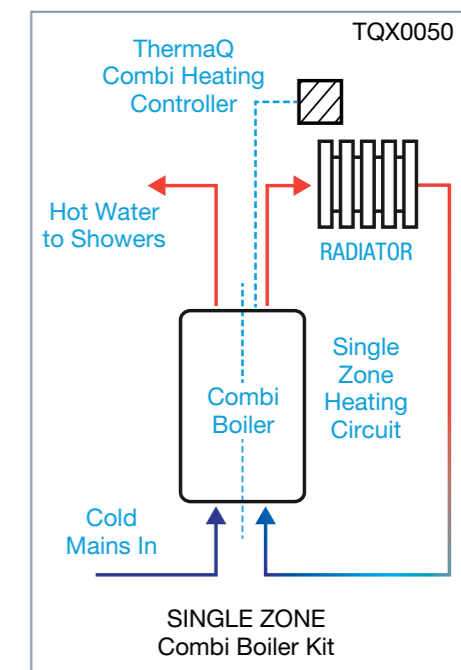


CODE	DESCRIPTION	CONTENTS
TQX0046	P4 Twin Zone Control Pack	1x Wiring Centre, 2x 2 Port Zone Valves, 2x Programmable Room Stats
TQX0050	P4 Single Zone Control Pack	1x Programmable Room Stat

OPTIONS OF EITHER TQX0046 (P4 TRADITIONAL) OR THE TQX0072 (P5 L.E.D.)



OPTIONS OF EITHER TQX0050 (P4 TRADITIONAL) OR THE TQX0070 (P5 L.E.D.)



Direct Pre-Plumbed Systems

The ready-to-go pre-plumbed units are also available across our range of standard and slimline direct cylinders in internal and external expansion, saving time on large volume installations in apartment blocks.



Evocyl Direct pre-plumb cylinders come with cold inlet set, T&P relief valve, 3kW immersion heater and expansion vessel (as detailed in the installation guide on page 46) as standard.



COLD WATER INLET SET
TQX0017



3KW IMMERSION HEATER
TQX0002



T&P RELIEF VALVE
TQX0001



TUNDISH
TQX0024



EXPANSION VESSEL
TQX0028 12L
TQX0029 18L
TQX0030 24L

ThermaQ Cylinders reserve the right to change the design and style of the components supplied at any time. When ordering spare parts to ensure consistency and compatibility please contact our technical department who will be pleased to help you with your enquiry.

Small Home Solutions

Our washing machine frames are perfect for saving space in apartments, allowing a full cylinder to be supported above a white goods appliance.

As part of our desire to fulfil any installation requirement, we can provide our space-saving handmade washing machine frames. These are perfect for utilising space in smaller apartments, meaning that an unvented cylinder can be mounted above a washing machine in an airing cupboard - perfect in combination with our direct pre-plumb units.

- Available in plain steel or white finish.
- L 880 x W 660 x D 710 (mm)
- Capable of supporting full weight of any of our domestic direct cylinders Evocyl or Evocyl Air, 60-300L.

Combining these frames with our pre-plumbed direct cylinder range gives a compact and tidy look to the airing cupboard. Utilising the Evocyl Air model would also eliminate the need for any expansion vessels, saving further space as well as time on installation!

Model shown in picture: Evocyl Slimline 90L Direct.



DIRECT PRE-PLUMBED CYLINDER SPECIFICATION

- 25 year cylinder warranty and 2 year parts warranty.
- Cylinder manufactured from marine grade Duplex Stainless Steel specially selected for its high strength and resistance to stress and crevice corrosion.
- Lightweight construction with white goods finish.
- Flat base for additional stability.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- Pre-fitted pipework.
- Totally insulated with 100% CFC-Free (ODP zero) polyurethane to minimise heat loss (50mm thick).
- Long-life 3kW Incoloy immersion heater with integral thermostat and thermal cut-out.
- 1/2" temperature and pressure relief valve operating at 90°C/7 bar.
- Smart Stat fitted in bottom immersion as standard.

Selection Guide

Choosing the right cylinder for your Home.

EVOCYL AND EVOCYL AIR FOR DOMESTIC

HOT WATER DEMAND	BEDROOMS	INDIRECT	DIRECT
1 Standard Bath or Shower	Bedsit / 1	60/90	150
	2 - 3	120	180
	3 - 4	150	210
1 Standard Bath	2 - 3	120	180
	3 - 4	150	210
1 Standard Bath and En-Suite	2 - 3	150	210
	3 - 4	150	210
	4 - 5	180	250
2 Standard Baths	2 - 3	180	210
	3 - 4	180	210
	4 - 5	210	250
3 Bathrooms	3 - 4	250	300
	4 - 5	250	300
	5 - 6	300	300

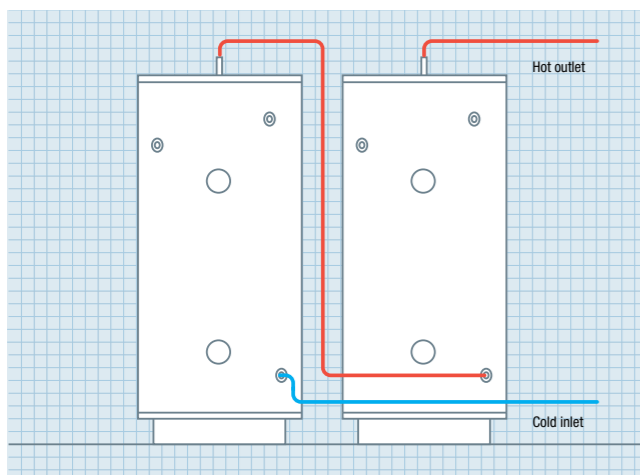
Actual usage calculations should be used for cylinder sizing, details above for guidance only. Please contact thermaQ for technical support.

Using ThermaQ Evocyl units in Series

A popular option instead of having one large cylinder is to have two small cylinders installed, as a possible solution to limited space in a cupboard.

The method of installing cylinders in series is so that the cold mains feeds the first cylinder, and the hot draw off from the first cylinder provides the feed for the second tank. The second tanks hot draw off then provides the hot supply for the property.

The supplied combination valve will be installed on the mains inlet to the first cylinder and this is also where the expansion vessel for both cylinders should be connected.



EVOCYL FOR COMMERCIAL

HOT WATER DEMAND	INDIRECT DOMESTIC	INDIRECT CALORIFIER
Large House - 6 Bed / 4 Bathrooms	2 x 210	1 x 450
Hotel/Hostel - 8 Bed / 4 Bathrooms	2 x 300	1 x 600
Hotel/Hostel- 8 Bed / 8 Bathrooms	3 x 210	2 x 350
Sports Club (25 people / 4 showers)	2 x 300	1 x 600
Leisure Centre (25 people / 6 showers)	3 x 210	2 x 350
Shared Accommodation (25 people / 3 Bathrooms)	3 x 300	2 x 450
Shared Accommodation (60 Beds/10 Bathrooms)	5 x 300	3 x 500

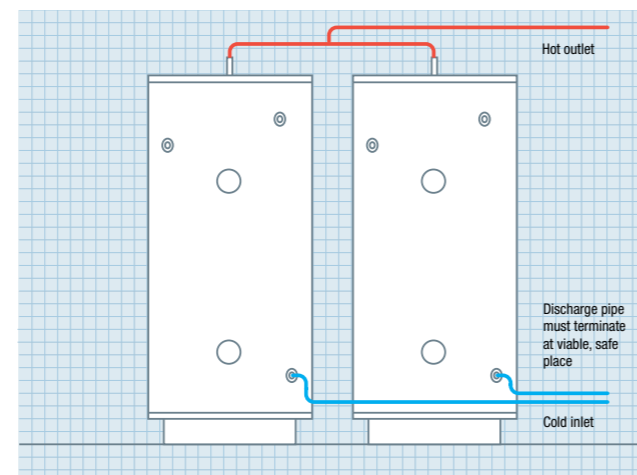
We recommend the use of ThermaQ calorifiers for large domestic or commercial applications, however when space is of a premium it is possible to connect smaller cylinders in series or parallel to achieve the quantity and flow required.

Using ThermaQ Evocyl units in Parallel

For situations when very high flow rates or larger volumes of hot water storage are needed, units of two or more can be linked in parallel.

When connecting two units in parallel, individual cold feeds are taken to each cylinder and then hot draw offs are connected together. Subject to the size of the incoming cold mains the flow rate available effectively doubles.

The need for this piping situation will arise according to the demand for hot water which will vary considerably between types of buildings and activities taking place there.



It is imperative that cylinders combined in parallel are of equal capacity/size.

ThermaQuick

Guaranteed Next Day Delivery of any Copper Cylinder.



therma
QUICK

NEXT DAY DELIVERY

AS SIMPLE AS...

- 1** Simply fill in the faxback form (available online or at your plumbers merchant) ticking the cylinder type boxes and sketching boss positions, etc.
- 2** Fax the form to us before **1:00pm on: 01924 271310** or email the form to us at: **sales@thermaq.co.uk**
- 3** Your specified cylinder is guaranteed delivery the very **NEXT WORKING DAY!**

ThermaQ provides you with the ultimate cylinder manufacturing service, providing quality, custom made cylinders in 24 hours, with our ThermaQuick service.

The manufacturing of your cylinder begins from receipt of your order. Our skilled production team are dedicated to providing a prompt and bespoke service of the highest quality, to deliver your specified cylinder the very next day.*

- Next day delivery on faxed or emailed orders before 1:00pm
- Manufactured to your specification
- Like-for-like cylinder to reduce labour time
- Specialised heat exchangers
- Custom tappings and connections



Faxback Form from www.thermaq.co.uk or from your plumbers merchant

*Some restrictions apply.



ThermaQ Copper Vented

Various combinations to suit individual requirements.

ThermaQ manufacture copper cylinders and combination units in over 400 different size, type and styles. They are designed to heat up quickly and to retain their heat for long periods, offering good economical systems for domestic applications. Suitable for use in open vented hot water systems, they are available in three grades to suit working heads between 10 and 25m.

The product range includes cylinders and combination units in Direct and Indirect versions, solar models to use with alternative energy sources as well as complete pre-plumbed units.

Insulated to part L1B of the building regulations.



COPPER INDIRECT

PRODUCT CODE			CAPACITY (L)	DIMENSIONS (mm)	STANDING LOSS CYLINDER		ERP ENERGY RATING
GRADE 1	GRADE 2	GRADE 3			kWh/24h	Watts	
CN10058	CN10059	CN10060	84	675x450	1.45	60	C
CN10061	CN10062	CN10063	96	750x450	1.48	62	C
CN10064	CN10065	CN10066	107	825x450	1.56	65	C
CN10067	CN10068	CN10069	70	900x350	1.33	55	C
CN10070	CN10071	CN10072	96	900x400	1.49	62	C
CN10073	CN10074	CN10075	117	900x450	1.63	68	C
CN10024	CN10025	CN10026	113	1050x400	1.60	67	C
CN10027	CN10028	CN10029	140	1050x450	1.75	73	C
CN10033	CN10034	CN10035	162	1200x450	1.88	78	C
CN10036	CN10037	CN10038	190	1200x500	2.04	85	C
CN10039	CN10040	CN10041	280	1200x600	2.55	106	C
CN10094	CN10095	CN10090	92	1500x300	1.49	62	C
CN10043	CN10044	CN10045	206	1500x450	2.11	88	C
CN10046	CN10047	CN10048	255	1500x500	2.35	98	C
CN10049	CN10050	CN10051	360	1500x600	3.01	125	C
CN10052	CN10053	CN10054	102	1600x300	1.49	62	C
CN10055	CN10056	CN10057	440	1800x600	3.45	144	C

COPPER DIRECT



CODE	CAPACITY (Litres)	DIMENSIONS (mm)	STANDING LOSS CYLINDER		ERP ENERGY RATING
			kWh/24h	Watts	
CD10003	98	900x400	1.49	62	C
CD10002	120	900x450	1.63	68	C
CD10004	116	1050x400	1.60	67	C
CD10001	144	1050x450	1.75	73	C
CD10005	166	1200x450	1.88	78	C
CD10009	210	1500x450	2.11	88	C

COPPER ECONOMY 7 DIRECT / INDIRECT



CODE	CAPACITY (Litres)	DIMENSIONS (mm)	STANDING LOSS CYLINDER		ERP ENERGY RATING	
			DIRECT	INDIRECT		kWh/24h
CDE10007	CNE10078	120	900x450	1.23	51	B
CDE10006	CNE10079	144	1050x450	1.35	56	C
CDE10076	CNE10080	166	1200x450	1.45	60	C
CDE10077	CNE10081	220	1500x450	1.64	68	C
CDE10078	CNE10082	255	1800x450	1.83	76	C

COPPER COMBI DIRECT / INDIRECT



CODE	CAPACITY (Litres)		DIMENSIONS (mm)	STANDING LOSS CYLINDER		ERP ENERGY RATING	
	DIRECT	INDIRECT		HOT	COLD		kWh/24h
CDC10020	CNC10021	65	15	900x400	1.48	62	C
CDC10022	CNC10024	85	20	900x450	1.50	62	C
CDC10008	CNC10009	95	15	1050x400	1.52	63	C
CDC10010	CNC10011	115	20	1075x450	1.54	64	C
CDC10012	CNC10013	115	40	1200x450	1.54	64	C
CDC10014	CNC10015	140	40	1400x450	1.72	72	C
CDC10016	CNC10017	160	40	1500x450	1.78	74	C
CDC10018	CNC10019	210	40	1850x450	1.97	82	C

COPPER COMBI ECONOMY 7



CODE	CAPACITY (Litres)		DIMENSIONS (mm)	STANDING LOSS CYLINDER		ERP ENERGY RATING	
	DIRECT	INDIRECT		HOT	COLD		kWh/24h
DIRECT	CDCE10082	115	20	1075x450	1.09	45	C
	CDCE10083	115	40	1200x450	1.39	58	C
	CDCE10084	150	40	1500x450	1.52	63	C
	CDCE10085	210	40	1850x450	1.77	74	C
IN-DIRECT	CNCE10086	115	20	1050x450	1.39	58	C
	CNCE10087	115	40	1200x450	1.39	58	C
	CNCE10088	150	40	1500x450	1.52	63	C
	CNCE10089	210	40	1850x450	1.77	74	C

ThermaQ Stainless Steel Vented

The future of vented water in stainless steel vented cylinders.

ThermaQ Stainless Steel Vented (SSV) perfectly blends technological advances in manufacturing with standard layouts of traditional copper cylinders creating a perfect alternative for anyone looking to replace their domestic hot water storage cylinder with a direct equivalent.

- All units come complete with 22mm compression nuts & olive for ease of fitting.
- Special incoloy immersion heater available (not supplied as standard) with Stainless Steel stat pocket (supplied loose).
- Capacity equivalent for a standard copper cylinder replacement.
- Complies with Part L of UK Building Regulations.
- Insulation to Part L1B.
- Extended Cylinder connections so no insulation cutaway required, all connections fully insulated to further reduce heat loss.
- 300, 350, 375, 400, 450, & 500mm diameters available.
- Tapping heights similar to British Standard 1566 so ideal for replacements. Any pipe rework would be minimal.
- Special made to measure units available.
- Twin coils, horizontal, and economy 7 cylinder versions.
- Secondary return fitted as standard.
- One grade, up to grade 2 equivalent. (15m head).
- 5 year guarantee against manufacturing defect.*



STAINLESS VENTED

CODE	TYPE	CAPACITY (L)	DIMENSIONS (MM)	STANDING LOSS CYLINDER		ERP ENERGY RATING
				kWh/24h	Watts	
TQSVI021	Indirect	96	900x400	1.49	62	C
TQSVI022	Indirect	114	1050x400	1.60	67	C
TQSVI023	Indirect	117	900x450	1.63	68	C
TQSVI024	Indirect	140	1050x450	1.75	73	C
TQSVI025	Indirect	162	1200x450	1.88	78	C
TQSDV001	Direct	98	900x400	1.49	62	C
TQSDV002	Direct	116	1050x400	1.60	67	C
TQSDV003	Direct	120	900x450	1.63	68	C
TQSDV004	Direct	144	1050x450	1.75	73	C
TQSDV005	Direct	166	1200x450	1.88	78	C

ALL DIMENSIONS EXCLUDING FOAM INSULATION

CORROSION ADVICE

Even when using stainless steel vessels, corrosion can still be an issue. This can occur when units are connected to a private supply, wells or where the water has a high concentration of Chloride (Cl), in excess of 200PPM. It is the responsibility of the installer to establish the water and supply type before installation takes place.

In cases where the water is found to be outside these parameters additional protection against corrosion will be required.

*Warranty only applicable when cylinder is supplied by mains water and within stated maximum water chemistry levels.

WATER COMPONENTS MAXIMUM	
MAXIMUM PERMITTED LEVELS TOTAL DISSOLVED SOLIDS 600MG/LITRE	
TOTAL HARDNESS	200mg/Litre
CHLORIDE	300mg/Litre
MAGNESIUM	10mg/Litre
CALCIUM	20mg/Litre
SODIUM	150mg/Litre
IRON	1 mg/Litre
MAXIMUM	pH 9.5
MINIMUM	pH 6.5

Evocyl Commercial Cylinders

Our larger capacity Evocyls are designed for testing applications such as commercial and public buildings. Designed with high flow rates, quick re-heat and large water volumes in mind.

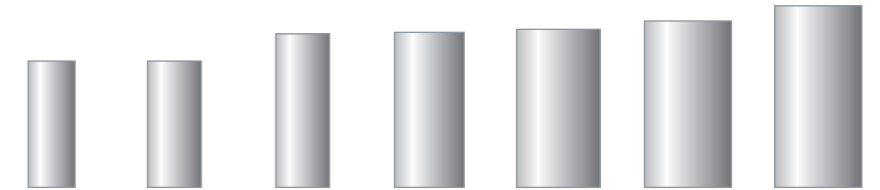


SPECIFICATION

- Nominal capacity of 300 to 1500 litres
- Made from quality St 37-2 steel
- 100 mm ECO SKIN fleece insulation (up to 5,000 l)
- Large-surface pipe array on PSR/PSRR models
- 240 mm flange on PSF models for installing a finned tube heat exchanger or built-in heater
- Operating pressure 3 to 6 bar, test pressure 4.5 bar in buffer tank
- Operating pressure max. 10 bar, test pressure 15 bar in pipe array on PSR/PSRR models
- 4 regulating sleeve threads. Female thread on PSF/PSM and PSR/PSRR models
- 2x sensor channels for variable positioning of sensor models
- Operating temperature = 95°C (110°C in pipe array)
- External powder coating up to 2000 litres
- External anti-rust coating (from 3,000 l upwards)

Commercial Cylinder Quick Guide

All cylinders 3 and 6 bar



EVOCYL COMMERCIAL CYLINDERS

PRODUCT		CAPACITY (L)						
		300	400	500	800	1000	1250	1500
3 & 6 BAR MODELS	MULTI ENERGY	●	●	●	●	●	●	●
	INDIRECT	●	●	●	●	●	●	●
	SOLAR	●	●	●	●	●	●	●

SPECIFICATION

	300	400	500	800	1000	1250	1500
DIAMETER (MM)	620	710	710	920	1100	1150	1150
HEIGHT (MM)	1670	1670	2030	2050	2170	2200	2400
HOT AND COLD CONNECTIONS BSP F	1.5"	1.5"	1.5"	2.0"	2.0"	2.0"	2.0"
COIL CONN. (+FOR THE SOLAR COIL) BSP F	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"
SECONDARY RETURN BSP F	1.25"	1.25"	1.25"	1.25"	1.25"	1.5"	1.5"
MAX. OP. PRESSURE - 3/6 BAR KIT (BAR)	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10
T&P SETTING 3/6 BAR KIT (BAR)	7 / 10	7 / 10	7 / 10	7 / 10	7 / 10	7 / 10	7 / 10
T&P SIZE - MULTI ENERGY / INDIRECT+SOLAR	1.0" / 0.75"	1.0" / 0.75"	1.0" / 0.75"	1.0" / 0.75"	1.25" / 0.75"	1.25" / 1.25"	1.25" / 1.25"
COLD W. SAFETY DEVICES - PRV, ERV, CHK VLV	1.0" (one piece)		1.25" (multi piece)		1.5" (multi piece)		
EXP. RELIEF VALVE SETTING - 3/6 BAR KIT (BAR)	6 / 8	6 / 8	6 / 8	6 / 8	6 / 8	6 / 8	6 / 8
2-PORT MOT. VALVE (INDIRECT&SOLAR ONLY)	28mm	28mm	28mm	28mm	1.25"	1.5"	1.5"
2-PORT MOT. VALVE CONN. (IND & SOL ONLY)	Compression nut and olive			Pipe union conn. nut and tail piece			
EXPANSION VESSEL SIZE - 3/6 BAR KIT (LTR)	24 / 35	35 / 50	50 / 80	80 / 100	100 / 150	150 / 200	150 / 200
TUNDISH	1.25"	1.25"	1.25"	1.25"	1.5"	1.5"	1.5"
ERP ENERGY EFFICIENCY CLASS	C	C	C	C	C	C	C
STANDING LOSS (W)	92	102	115	121	124	135	160

MULTI ENERGY ONLY

	3 x 6kW	3 x 6kW	3 x 6kW	3 x 6kW	2 x 6kW	2 x 6kW	2 x 6kW
TITANIUM IMM. - FACT. FITTED AS STD.	3 x 6kW	3 x 6kW	3 x 6kW	3 x 6kW	2 x 6kW	2 x 6kW	2 x 6kW
NO. OF IMM HEATER BOSSES IN TOTAL	4x Screw			3x Screw + 1x Flange			
MAXIMUM ENERGY INPUT PERMITTED (KW)	48	48	48	48	78	78	78
IMM. HEATERS - OPT. HIGHER RATED ELEMENTS	See page for further details						
INSPECTION FLANGE	Optional - CANNOT be used for flanged imm. heaters			Supplied as std - CAN be used for fl. imm.			
HEAT UP TIME AT 50°C	Reheat time in mins = Litres x 3.2 / kW installed						

INDIRECT ONLY

	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW
TITANIUM IMM. - FACT. FITTED AS STD.	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW
COIL SURFACE AREA (M2)	1.54	1.97	1.97	2.86	2.86	4.73	4.73
COIL DIAMETER (MM)	32	32	32	38	38	38	38
COIL RATING AT 60L/MIN 80°C (KW)	49	57	57	73	73	98	98
COIL - MAXIMUM PRESSURE (BAR)	6	6	6	6	6	6	6
INSPECTION FLANGE	Optional - for inspection only - CANNOT be used with flanged immersion heaters						

SOLAR ONLY

	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW
TITANIUM IMM. - FACT. FITTED AS STD.	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW	2 x 3kW
PRIMARY COIL SURFACE AREA (M2)	1.21	1.21	1.21	2.86	2.86	4	4
PRIM. COIL RATING AT 60L/M 80°C (KW)	46	46	46	73	73	95	95
COILS (PRIM & SOLAR) - MAX. PRESSURE (BAR)	6	6	6	6	6	6	6
DEDICATED SOLAR VOLUME (LTR)	113.1	153.3	197.9	307.9	460.8	499.0	483.0
SOLAR COIL SURFACE AREA (M2)	1.1	1.1	1.1	2.0	2.0	2.5	2.5
COIL DIAMETER (BOTH COILS)	32	32	32	38	38	38	38
SOLAR COIL RATING AT 60L/M (KW)	43	43	43	57	57	68	68
INSPECTION FLANGE	Optional - for inspection only - CANNOT be used with flanged immersion heaters						

Indirect Commercial

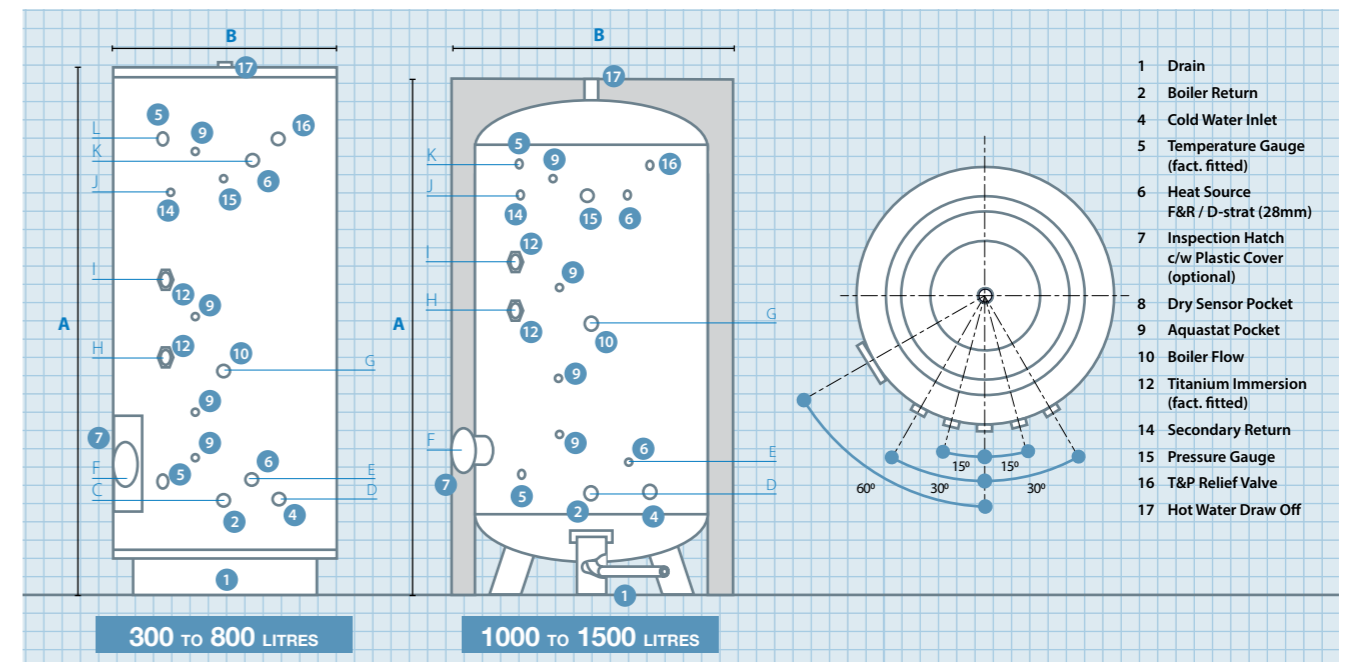


25 YEARS WARRANTY

INDIRECT COMMERCIAL

	CAPACITY (L)						
	300	400	500	800	1000	1250	1500
INSPECTION FLANGE	Optional	Optional	Optional	Optional	Optional	Optional	Optional
HEAT UP TIME ΔT 50°C (MIN)*	23	26	30	48	62	64	74
HOT WATER CAPACITY (LTR)	283	379	485	747	1079	1201	1350
1° RE-HEAT TIME (70% DRAW OFF) 60L/MIN	17	20	27	31	39	40	51
2° RE-HEAT TIME (70% DRAW OFF) 30L/MIN	24	28	37	48	57	61	73
3° RE-HEAT TIME (70% DRAW OFF) 15L/MIN	36	41	54	78	88	110	131
WEIGHT EMPTY (KG)	82	87	104	220	230	235	267
WEIGHT FULL (KG)	365	466	589	967	1309	1436	1617
PRIM. COIL SURF. AREA (M2)	1.54	1.97	1.97	2.86	2.86	4.73	4.73
PRIM. COIL RATING @ 60L/MIN (KW)	49	57	57	73	73	98	98
PRIM. COIL RATING @ 30L/MIN (KW)	35.6	42	42	50	50	66	66
PRIM. COIL RATING @ 15L/MIN (KW)	23	29	29	31	31	35.12	35.12
PRIM. COIL PRESS. DROP @ 15L/MIN (MBAR)	21	29	29	18	18	16	16
PRIM. COIL PRESS. DROP @ 30L/MIN (MBAR)	32	38	38	75	75	55	55
PRIM. COIL PRESS. DROP @ 60L/MIN (MBAR)	290	310	310	430	430	240	240
CONT. OUTPUT @ 60°C ΔT 50°C (L/HR)	685	765	765	829	829	1015	1015
PRIM. COIL - MAX OPERATING PRESS. (BAR)	6	6	6	6	6	6	6

		CAPACITY (L)						
		300	400	500	800	1000	1250	1500
CONNECTION SIZES & SAFETY								
HOT & COLD CONN. Ø BSP F (")		1.5	1.5	1.5	2	2	2	2
COIL CONNECTION Ø BSP F (")		1.5	1.5	1.5	1.5	1.5	1.5	1.5
SECONDARY RETURN Ø BSP F (")		1.25	1.25	1.25	1.25	1.25	1.5	1.5
T&P CONNECTION Ø BSP F (")		0.75	0.75	0.75	0.75	1	1	1
3 BAR	T&P PRESS. SET. (BAR)	7	7	7	7	7	7	7
	EXP. RELIEF SET. (BAR)	6	6	6	6	6	6	6
6 BAR	T&P PRESS. SET. (BAR)	10	10	10	10	10	10	10
	EXP. RELIEF SET. (BAR)	8	8	8	8	8	8	8



- 1 Drain
- 2 Boiler Return
- 4 Cold Water Inlet
- 5 Temperature Gauge (fact. fitted)
- 6 Heat Source F&R / D-strat (28mm)
- 7 Inspection Hatch c/w Plastic Cover (optional)
- 8 Dry Sensor Pocket
- 9 Aquastat Pocket
- 10 Boiler Flow
- 12 Titanium Immersion (fact. fitted)
- 14 Secondary Return
- 15 Pressure Gauge
- 16 T&P Relief Valve
- 17 Hot Water Draw Off

DIMENSIONS								
CYLINDER HEIGHT	A	1670	1670	2030	2050	2170	2200	2400
CYLINDER DIAMETER	B	620	710	710	920	1100	1150	1150
CONNECTION HEIGHT	C	325	340	340	395	900	950	950
CONNECTION HEIGHT	D	335	350	350	415	425	410	360
CONNECTION HEIGHT	E	475	440	440	520	525	530	480
CONNECTION HEIGHT	F	500	490	490	560	580	580	530
CONNECTION HEIGHT	G	765	750	960	890	860	1010	980
CONNECTION HEIGHT	H	815	800	1010	955	930	1060	1040
CONNECTION HEIGHT	I	995	980	1200	1255	1235	1260	1260
CONNECTION HEIGHT	J	1175	1190	1550	1590	1565	1630	1830
CONNECTION HEIGHT	K	1285	1300	1660	1695	1700	1755	1950
CONNECTION HEIGHT	L	1430	1390	1750	1785	1798	-	-

All measurements in mm.

! Inspection port must be ordered separately. Only standard on Multi Energy cylinders 1000L and over capacity.

ERP								
STORAGE VOLUME V IN LTR		283	379	485	747	1079	1201	1350
STANDING LOSS (W)		92	102	115	121	124	135	160
ENERGY EFFICIENCY CLASS		C	C	C	C	C	C	C

* Primary flow rates at 30L/m are based on a flow temperature of 80°C ± 2°C. Testing is carried out to BS EN12897:2006

Multi-Energy Commercial



25 YEARS WARRANTY

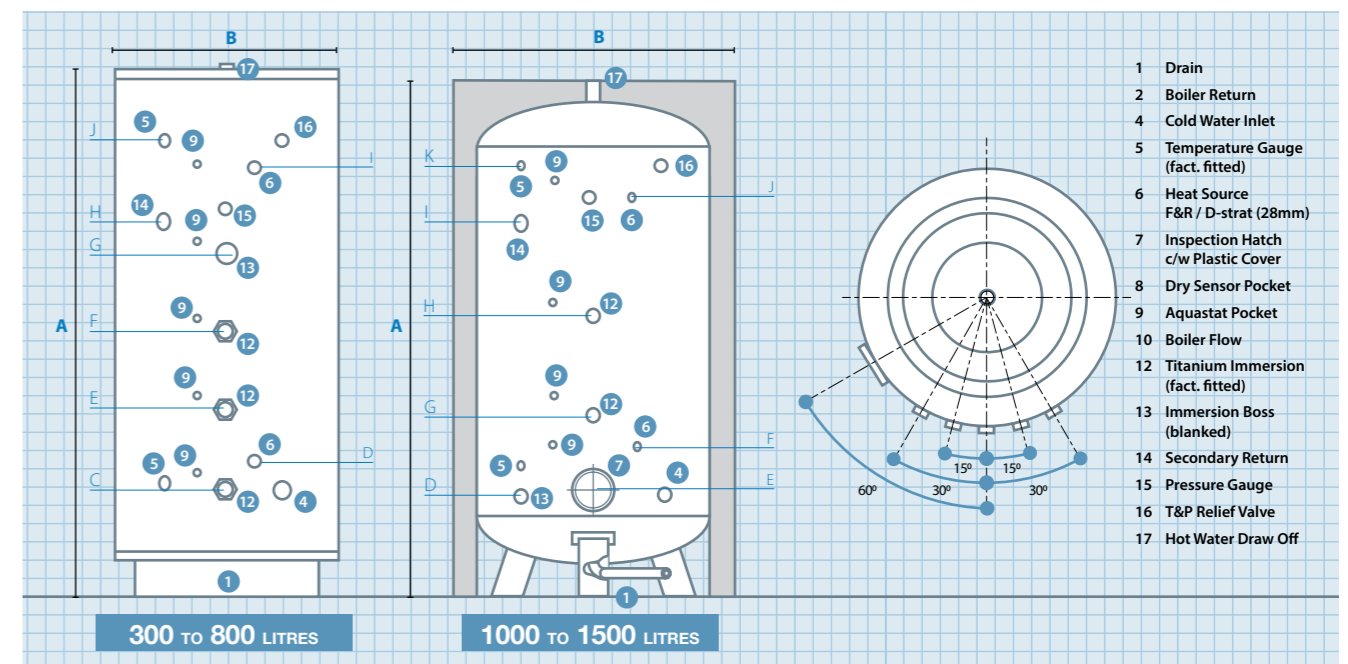
MULTI ENERGY COMMERCIAL

	CAPACITY (L)						
	300	400	500	800	1000	1250	1500
HOT WATER CAPACITY (LTR)	289.5	391	497	766	1097	1231	1410
QUANTITY OF FACTORY FITTED IMMERSIONS	3	3	3	3	2	2	2
RATING OF FACTORY FITTED IMM. (KW/V)	6/240	6/240	6/240	6/240	6/240	6/240	6/240
FACTORY FITTED IMMERSION TYPE	Titanium						
NUMBER OF IMMERSION BOSSES	4	4	4	4	2	2	2
MAX. ALLOWABLE POWER OUTP. OF IMM. (KW)	48	48	48	48	78	78	78
INSPECTION FLANGE	Optional			Standard			
HEAT UP TIME (ΔT 50°C) FACT. FITTED	MIN	53	71	89	143	*	*
	KW	18	18	18	18	12	12
CONT. OUTPUT - FACT. FITTED		281	281	281	281	*	*
HEAT UP TIME (ΔT 50°C) MAX. ALLOWED	MIN	21	29	37	57	49	55
	KW	48	48	48	48	78	78
CONT. OUTPUT @60°C - MAX. ALLOWED		826	826	826	826	1342	1342
WEIGHT EMPTY (KG)		71.5	72	89	186	188	191
WEIGHT FULL (KG)		361	463	586	952	1285	1422

For information on Immersion Heater options see page 64.

* Based on selected immersion capacity at the time of ordering

		CAPACITY (L)						
		300	400	500	800	1000	1250	1500
CONNECTION SIZES & SAFETY								
HOT & COLD CONN. Ø BSP F (")		1.5	1.5	1.5	2	2	2	2
COIL CONNECTION Ø BSP F (")		1.5	1.5	1.5	1.5	1.5	1.5	1.5
SECONDARY RETURN Ø BSP F (")		1.25	1.25	1.25	1.25	1.25	1.5	1.5
T&P CONNECTION Ø BSP F (")		1	1	1	1	1.25	1.25	1.25
3 BAR	T&P PRESS. SET. (BAR)	7	7	7	7	7	7	7
	EXP. RELIEF SET. (BAR)	6	6	6	6	6	6	6
6 BAR	T&P PRESS. SET. (BAR)	10	10	10	10	10	10	10
	EXP. RELIEF SET. (BAR)	8	8	8	8	8	8	8



DIMENSIONS								
CYLINDER HEIGHT	A	1670	1670	2030	2050	2170	2200	2400
CYLINDER DIAMETER	B	620	710	710	920	1100	1150	1150
CONNECTION HEIGHT	C	335	350	350	445	900	950	950
CONNECTION HEIGHT	D	425	440	440	570	515	410	410
CONNECTION HEIGHT	E	580	590	665	760	625	440	440
CONNECTION HEIGHT	F	830	830	975	1070	845	550	550
CONNECTION HEIGHT	G	1075	1090	1290	1385	1215	745	745
CONNECTION HEIGHT	H	1175	1190	1550	1640	1615	1130	1255
CONNECTION HEIGHT	I	1350	1300	1660	1745	1750	1530	1780
CONNECTION HEIGHT	J	1430	1390	1750	1845	1850	1630	1880
CONNECTION HEIGHT	K	-	-	-	-	-	1755	2005

All measurements in mm.



Inspection port must be ordered separately. Only standard on Multi Energy cylinders 1000L and over capacity.

ERP								
STORAGE VOLUME V IN LTR		289.5	391	497	766	1097	1231	1410
STANDING LOSS (W)		92	102	115	121	124	135	160
ENERGY EFFICIENCY CLASS		C	C	C	C	C	C	C

* Primary flow rates at 30L/m are based on a flow temperature of 80°C ± 2°C. Testing is carried out to BS EN12897:2006

Solar Commercial

All cylinders 3 and 6 bar



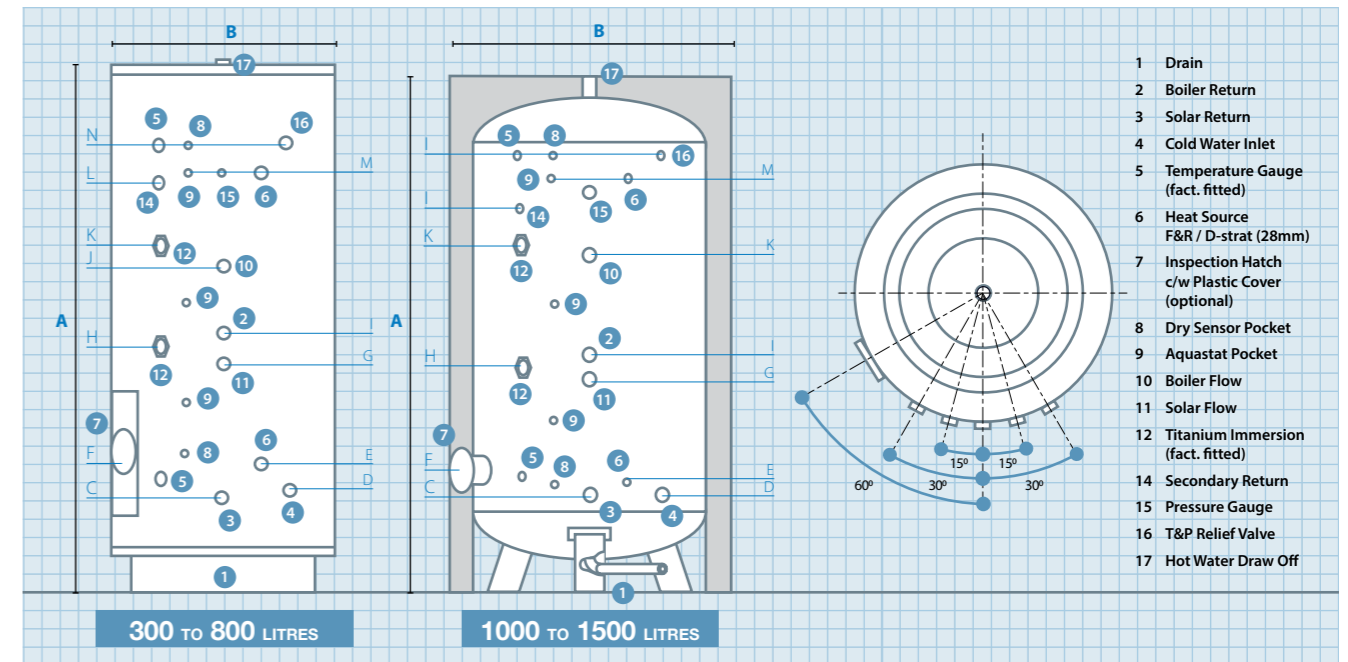
25 YEARS WARRANTY

SOLAR COMMERCIAL

	CAPACITY (L)							
	300	400	500	800	1000	1250	1500	
HOT WATER CAPACITY (LTR)	278.5	377	483	732	1063	1185	1350	
HEAT UP TIME (ΔT 50°C)	35	46	58	71	89	96	115	
1° RE-HEAT TIME (70% DRAW OFF) 60L/MIN	11	15	21	28	34	38	41	
1° RE-HEAT TIME (70% DRAW OFF) 30L/MIN	16	21	29	40	48	52	54	
1° RE-HEAT TIME (70% DRAW OFF) 15L/MIN	24	38	47	71	81	90	104	
WEIGHT EMPTY (KG)	88	89	105.5	240	250	268	293	
WEIGHT FULL (KG)	366.5	466	588	972	1313	1453	1643	
PRIM. COIL SURF. AREA (M2)	1.21	1.21	1.21	2.86	2.86	4.00	4.00	
PRIM. COIL RATING @ 60L/MIN (KW)	46	46	46	73	73	95	95	
PRIM. COIL RATING @ 30L/MIN (KW)	36.72	36.72	36.72	50	50	54.67	54.67	
PRIM. COIL RATING @ 15L/MIN (KW)	21	21	21	31	31	34	34	
PRIM. COIL PRESS. DROP @ 15L/MIN (MBAR)	19	19	19	16	16	26	26	
PRIM. COIL PRESS. DROP @ 30L/MIN (MBAR)	29	29	29	65	65	75	75	
PRIM. COIL PRESS. DROP @ 60L/MIN (MBAR)	245	245	245	335	335	350	350	
DEDICATED SOLAR VOLUME (LTR)	113.1	153.3	197.9	307.9	460.8	499	483	
SOLAR COIL SURFACE AREA (M2)	1.1	1.1	1.1	2	2	2.5	2.5	
SOLAR COIL RATING @ 60L/MIN (KW)	43	43	43	57	57	68	68	
CONT. OUTPUT @ 60°C ΔT 50°C (L/HR)	453	453	453	1110	1110	1282	1282	

For information on Immersion Heater options see page 64.

		CAPACITY (L)						
		300	400	500	800	1000	1250	1500
CONNECTION SIZES & SAFETY								
HOT & COLD CONN. Ø BSP F (")		1.5	1.5	1.5	2	2	2	2
PRIM. COIL CONN. Ø BSP F (")		1.5	1.5	1.5	1.5	1.5	1.5	1.5
SOLAR COIL CONN. Ø BSP F (")		1	1	1	1	1	1	1
SECONDARY RETURN Ø BSP F (")		1.25	1.25	1.25	1.25	1.25	1.5	1.5
T&P CONNECTION Ø BSP F (")		0.75	0.75	0.75	0.75	0.75	1	1
3 BAR	T&P PRESS. SET. (BAR)	7	7	7	7	7	7	7
	EXP. RELIEF SET. (BAR)	6	6	6	6	6	6	6
6 BAR	T&P PRESS. SET. (BAR)	10	10	10	10	10	10	10
	EXP. RELIEF SET. (BAR)	8	8	8	8	8	8	8



DIMENSIONS									
CYLINDER HEIGHT	A	1670	1670	2030	2050	2170	2200	2400	
CYLINDER DIAMETER	B	620	710	710	920	1100	1150	1150	
CONNECTION HEIGHT	C	335	350	350	395	900	950	950	
CONNECTION HEIGHT	D	335	350	350	420	425	410	410	
CONNECTION HEIGHT	E	425	440	440	515	525	530	530	
CONNECTION HEIGHT	F	475	490	490	560	580	580	580	
CONNECTION HEIGHT	G	665	670	800	845	850	820	1050	
CONNECTION HEIGHT	H	715	720	860	905	910	880	1110	
CONNECTION HEIGHT	I	765	770	920	965	970	940	1170	
CONNECTION HEIGHT	J	1145	1095	1300	1345	1350	1320	1550	
CONNECTION HEIGHT	K	1195	1145	1360	1405	1410	1380	1610	
CONNECTION HEIGHT	L	1305	1245	1550	1505	1560	1580	1810	
CONNECTION HEIGHT	M	1340	1300	1660	1550	1700	1630	1890	
CONNECTION HEIGHT	N	1430	1390	1730	1655	1800	1750	2010	

All measurements in mm.



Inspection port must be ordered separately. Only standard on Multi Energy cylinders 1000L and over capacity.

ERP								
STORAGE VOLUME V IN LTR		278.5	377	483	732	1063	1185	1350
STANDING LOSS (W)		92	102	115	121	124	135	160
ENERGY EFFICIENCY CLASS		C	C	C	C	C	C	C

Ordering Guide

Commercial

COMMERCIAL INDIRECT - 3BAR

CAPACITY		300	400	500	800	1000	1250	1500
CYLINDER ORDERING CODE		TQCI30017	TQCI30018	TQCI30019	TQCI30020	TQCI30021	TQCI30022	TQCI30023
UNVENTED KIT ORDERING CODE		INC.	INC.	INC.	INC.	INC.	INC.	INC.
CYLINDER HEIGHT	A	1670	1670	2030	2050	2090	2200	2400
CYLINDER DIAMETER	B	620	710	710	920	1100	1150	1150
WEIGHT EMPTY		82	87	104	220	230	235	267
WEIGHT FULL		365	466	589	967	1309	1436	1617
ERP RATING		C	C	C	C	C	C	C

All measurements in mm. Weight in kg. Capacity in Litres.

COMMERCIAL INDIRECT - 6BAR

CAPACITY		300	400	500	800	1000	1250	1500
CYLINDER ORDERING CODE		TQCI60026	TQCI60027	TQCI60028	TQCI60029	TQCI60030	TQCI60031	TQCI60032
UNVENTED KIT ORDERING CODE		INC.	INC.	INC.	INC.	INC.	INC.	INC.
CYLINDER HEIGHT	A	1670	1670	2030	2050	2090	2200	2400
CYLINDER DIAMETER	B	620	710	710	920	1100	1150	1150
WEIGHT EMPTY		82	87	104	220	230	235	267
WEIGHT FULL		365	466	589	967	1309	1436	1617
ERP RATING		C	C	C	C	C	C	C

All measurements in mm. Weight in kg. Capacity in Litres.

COMMERCIAL MULTI ENERGY - 3BAR

CAPACITY		300	400	500	800	1000	1250	1500
CYLINDER ORDERING CODE		TQCM30001	TQCM30002	TQCM30003	TQCM30004	TQCM30005	TQCM30006	TQCM30007
UNVENTED KIT ORDERING CODE		INC.	INC.	INC.	INC.	INC.	INC.	INC.
CYLINDER HEIGHT	A	1670	1670	2030	2050	2090	2200	2400
CYLINDER DIAMETER	B	620	710	710	920	1100	1150	1150
WEIGHT EMPTY		71.5	72	89	186	188	191	207
WEIGHT FULL		361	463	586	952	1285	1422	1617
ERP RATING		C	C	C	C	C	C	C

All measurements in mm. Weight in kg. Capacity in Litres.

COMMERCIAL MULTI ENERGY - 6BAR

CAPACITY		300	400	500	800	1000	1250	1500
CYLINDER ORDERING CODE		TQCM60010	TQCM60011	TQCM60012	TQCM60013	TQCM60014	TQCM60015	TQCM60016
UNVENTED KIT ORDERING CODE		INC.	INC.	INC.	INC.	INC.	INC.	INC.
CYLINDER HEIGHT	A	1670	1670	2030	2050	2090	2200	2400
CYLINDER DIAMETER	B	620	710	710	920	1100	1150	1150
WEIGHT EMPTY		71.5	72	89	186	188	191	207
WEIGHT FULL		361	463	586	952	1285	1422	1617
ERP RATING		C	C	C	C	C	C	C

All measurements in mm. Weight in kg. Capacity in Litres.

COMMERCIAL SOLAR - 3BAR

CAPACITY		300	400	500	800	1000	1250	1500
CYLINDER ORDERING CODE		TQCS30033	TQCS30034	TQCS30035	TQCS30036	TQCS30037	TQCS30038	TQCS30039
UNVENTED KIT ORDERING CODE		INC.	INC.	INC.	INC.	INC.	INC.	INC.
CYLINDER HEIGHT	A	1670	1670	2030	2050	2090	-	-
CYLINDER DIAMETER	B	620	710	710	920	1020	-	-
WEIGHT EMPTY		88	89	105.5	240	250	-	-
WEIGHT FULL		366.5	466	588	972	1313	-	-
ERP RATING		C	C	C	C	C	-	-

All measurements in mm. Weight in kg. Capacity in Litres.

COMMERCIAL SOLAR - 6BAR

CAPACITY		300	400	500	800	1000
CYLINDER ORDERING CODE		TQCS60040	TQCS60041	TQCS60042	TQCS60043	TQCS60044
UNVENTED KIT ORDERING CODE		INC.	INC.	INC.	INC.	INC.
CYLINDER HEIGHT	A	1670	1670	2030	2050	2090
CYLINDER DIAMETER	B	620	710	710	920	1020
WEIGHT EMPTY		88	89	105.5	240	250
WEIGHT FULL		366.5	466	588	972	1313
ERP RATING		C	C	C	C	C

All measurements in mm. Weight in kg. Capacity in Litres.

Note:

- Option of Inspection flange available on request - not included as standard
- Custom specification models available

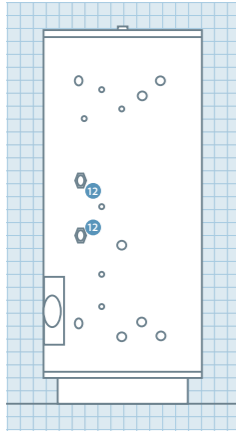
IMMERSION HEATERS

DESCRIPTION	CODE
3KW 1PH IMMERSION HEATER	TQCX10001
3KW INCOLOY IMMERSION C/W SMART STAT	TQCX10002
6KW 1PH IMMERSION HEATER	TQCX10003
6KW 3PH IMMERSION HEATER	TQCX10004
9KW 1PH IMMERSION HEATER	TQCX10005
9KW 3PH IMMERSION HEATER	TQCX10006
12KW 3PH IMMERSION HEATER	TQCX10007
18KW 3PH IMMERSION HEATER	TQCX10008
24KW 3PH IMMERSION HEATER	TQCX10009
30KW 3PH IMMERSION HEATER	TQCX10010
36KW 3PH IMMERSION HEATER	TQCX10011
45KW 3PH IMMERSION HEATER	TQCX10012
54KW 3PH IMMERSION HEATER	TQCX10013
3KW 1PH TITANIUM IMM SCREW	TQCX10014
6KW 1PH TITANIUM IMM SCREW	TQCX10015
6KW 3PH TITANIUM IMM SCREW	TQCX10016
9KW 3PH TITANIUM IMM SCREW	TQCX10017
12KW 3PH TITANIUM IMM SCREW	TQCX10018

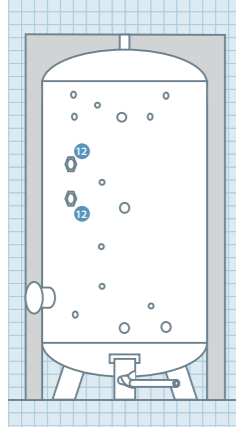


Commercial Cylinder Immersion Allocation

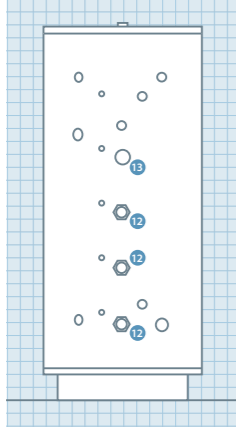
300
—TO—
800
LITRES



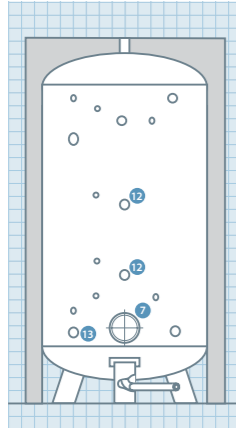
1000
—TO—
1500
LITRES



300
—TO—
800
LITRES



1000
—TO—
1500
LITRES



INDIRECT AND SOLAR MODELS

INDIRECT	CAPACITY (L)						
	300	400	500	800	1000	1250	1500
6 BAR	•	•	•	•	•	•	•
3 BAR	•	•	•	•	•	•	•
NO OF IMMERSIONS (230V)	2x3kW	2x3kW	2x3kW	2x3kW	2x3kW	2x3kW	2x3kW
INSPECTION FLANGE (NOT IMM.)	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.

SOLAR	300	400	500	800	1000	1250	1500
6 BAR	•	•	•	•	•	•	•
3 BAR	•	•	•	•	•	•	•
NO OF 3KW 230V IMM.	2	2	2	2	2	2	2
INSP. FLANGE (NOT IMM.)	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.

Note:

- Heating elements are factory fitted
- Inspection hatches need to be ordered separately
- Inspection flanges cannot be used for immersion heaters on Indirect and Solar models

IMMERSION HEATERS

12	SCREW TYPE - FACTORY FITTED
----	-----------------------------

MULTI-ENERGY MODELS

MULTI ENERGY	CAPACITY (L)						
	300	400	500	800	1000	1250	1500
6 BAR	•	•	•	•	•	•	•
3 BAR	•	•	•	•	•	•	•
SCREW TYPE IMM. FACT. FITTED	3x6kW	3x6kW	3x6kW	3x6kW	2x6kW	2x6kW	2x6kW
SCREW TYPE IMM. OPT.	1	1	1	1	2	2	2
IMMERSION FLANGE	Opt.	Opt.	Opt.	Opt.	Std.	Std.	Std.

MULTI ENERGY (MAX. KW)	300	400	500	800	1000	1250	1500
SCREW IMM. - BOTTOM	12	12	12	12	54	54	54
SCREW IMM. - LOWER MID	12	12	12	12	Either Flange or Screw		
SCREW IMM. - UPPER MID	12	12	12	12	12	12	12
SCREW IMM. - TOP	12	12	12	12	12	12	12
MAX. TOTAL KW INPUT	48	48	48	48	78	78	78

Note:

- Optional heating elements are not factory fitted
- Required Immersions must be ordered at the same time as ordering the cylinder
- Bottom screw immersion and flange imm. cannot be used together on 1000-1500L units
- See page 63 for immersion heater ordering codes

⚠ Inspection port must be ordered separately. Only standard on Multi Energy cylinders 1000L and over capacity.

IMMERSION HEATERS

7	FLANGE TYPE
12	SCREW TYPE - FACTORY FITTED
13	SCREW TYPE - BLANKED

Evocyl Mild Steel Buffer Tanks

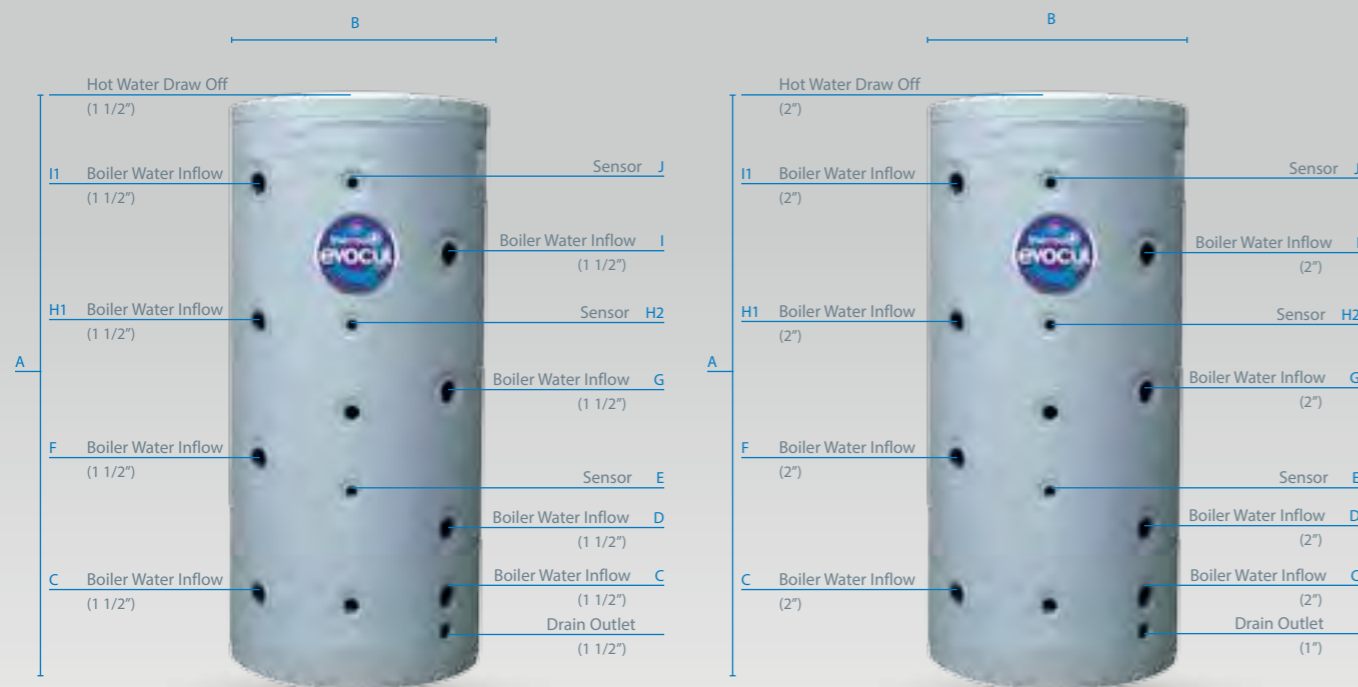
Evocyl Mild Steel Buffer Tanks are suitable for all hot water central heating systems, regardless of whether they are powered by solid fuel or oil-fired boilers, heat pumps, solar energy systems or continuous flow heaters (gas or electric).



SPECIFICATION

- Nominal capacity of 300 to 5000 litres
- Made from quality St 37-2 steel
- 100mm ECO SKIN fleece insulation (up to 5,000 l)
- Large-surface pipe array on PSR/PSRR models
- 240 mm flange on PSF models for installing a finned tube heat exchanger or built-in heater
- Operating pressure = 3 bar, test pressure 4.5 bar in buffer tank
- Operating pressure max. 10 bar, test pressure 15 bar in pipe array on PSR/PSRR models
- 4 regulating sleeve threads. Female thread on PSF/PSM and PSR/PSRR models
- 2x sensor channels for variable positioning of sensor models
- Operating temperature = 95°C (110°C in pipe array)
- External powder coating up to 2000 litres
- External anti-rust coating (from 3,000 l upwards)

Evocyl Stainless Steel Buffer Tanks



DIMENSIONS (300-2000L)

DIMENSIONS (300-5000L)

Several buffer tanks can also be combined in a row (see technical data and accessories), meaning the tank volume can be adjusted individually depending on the requirements.

Furthermore, the buffer tanks can also be used for cold water storage in cooling processes (up to 3 bar operating / system pressure) or heat recovery in industrial facilities.



BUFFER

CAPACITY	100L	200L	300L	380L	500L	600L	800L	1000L	1250L	1500L	2000L	2500L	3000L	4000L	5000L	
CODE WITHOUT COIL	TQBMD 0001	TQBMD 0002	TQBMD 0003	TQBMD 0004	TQBMD 0005	TQBMD 0006	TQBMD 0007	TQBMD 0008	TQBMD 0009	TQBMD 0010	TQBMD 0011	TQBMD 0012	TQBMD 0013	TQBMD 0014	TQBMD 0015	
CODE WITH COIL	-	TQBMD 0020	TQBMD 0021	TQBMD 0022	TQBMD 0023	TQBMD 0024	TQBMD 0025	TQBMD 0026	TQBMD 0027	TQBMD 0028	TQBMD 0029	TQBMD 0040	TQBMD 0041	TQBMD 0042	TQBMD 0043	
CYLINDER HEIGHT	A	1020	1140	1480	1685	1900	1900	1730	2050	2345	2700	2500	2420	2750	2355	2855
CYLINDER DIAMETER	B	520	670	670	700	550	860	950	950	1100	1100	1300	1450	1450	1800	1800
WEIGHT EMPTY		50	60	75	90	105	115	125	150	180	210	235	270	300	380	440
HOT WATER VOLUME		111	223	305	387	467		728	883		1479	2023		2935	3985	4981
BOILER WATER INFLOW	C	220	220	220	220	215		250	250		385	385		410	445	445
BOILER WATER INFLOW	D	-	-	390	450	455		435	500		660	660		725	675	760
SENSOR	E	130	315	500	575	610		570	570		485	800		825	790	920
BOILER WATER INFLOW	F	-	485	560	680	675		620	740		-	930		1040	910	1075
BOILER WATER INFLOW	G	-	555	730	905	915		820	980		1152	1205		1360	1140	1390
BOILER WATER INFLOW	H1	-	605	900	1135	1145		1020	1240		960	1480		1680	1365	1705
SENSOR	H2	820	785	900	1135	1145		1020	1240		1122	1480		1680	1365	1705
BOILER WATER INFLOW	I	-	785	1070	1365	1375		1215	1485		1535	1755		1995	1605	2020
SENSOR	J	885	885	1235	1580	1605		1410	1730		1435	2025		2310	1840	2335
ENERGY EFFICIENCY CLASS	C	C	C	C	C			C	C		C	C		C	C	C
MAX. WORKING PRESSURE		0.3	0.3	0.3	0.3	0.3		0.3	0.3		0.3	0.3		0.3	0.3	0.3
MAX. WORKING TEMP.		95	95	95	95	95		95	95		95	95		95	95	95

All measurements in mm. Weight in kg. Capacity in Litres.

BUFFER

CAPACITY	125L	150L	170L	200L	250L	300L	400L	500L	600L	750L	800L	1000L	
CODE WITHOUT COIL	TOBSD 0060	TOBSD 0061	TOBSD 0062	TOBSD 0063	TOBSD 0064	TOBSD 0065	TOBSD 0066	TOBSD 0067	TOBSD 0068	TOBSD 0069	TOBSD 0070	TOBSD 0071	
CODE WITH COIL	-	TOBSD 0080	-	TOBSD 0081	TOBSD 0082	TOBSD 0083	TOBSD 0084	TOBSD 0085	-	-	TOBSD 0086		
CYLINDER HEIGHT	A	1030	1190	1310	1490	1815	1600	1570	1900	2200	1900	2050	2170
CYLINDER DIAMETER	B	540	540	540	540	540	600	710	710	710	920	920	1100
WEIGHT EMPTY		26	30	32	34	43	47	62	75	90	105	125	150
HOT WEIGHT FULL		151	180	202	234	293	347	462	575	690			
NO. DIRECT CONNECTIONS		7	7	7	9	9	9	9	9	9			
DIAMETER OF DIRECT CONNECTIONS		1"	1"	1"	1"	1"	1"	1"	1"	1"			
DRAIN OFF		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"			
STANDARD STANDING LOSS (kWh/Day)		1.23	1.41	1.53	1.8	2.15	2.28	2.41	2.54	2.71			
ECO80 STANDING LOSS (kWh/Day)		1.16	1.36	1.44	1.69	1.91	2.15	2.25	2.38	2.59			

All measurements in mm. Weight in kg. Capacity in Litres.



Design Services

Full Heating and Plumbing design services available from our design partner.

ThermaQ offer heating & plumbing design services through our design partner DHD (Domestic Heating Design Ltd). Providing design packages to the new-build domestic market and from the self-build, up to large sites for the major house builders throughout the UK, involving all types of heating systems including solar and heatpumps.

Our Service at DHD

Everything we do at DHD is about being committed to excellence in providing the very best customer service. We have invested significantly in the latest software and computer technology which allows us to fully integrate our designs with Auto-CAD systems. Therefore, all designs that we produce can be sent in the formats you require.

Our people

We aim to respond rapidly to all the demands asked of our business – anything from customer care support, quotations or a technical query, we have a same day reply policy. If we cannot provide a full response on the day of the inquiry we will contact you to let you know that your query is being professionally dealt with, and we will provide a time that we will aim to come back to you.

Building Information Modelling (BIM)

The revolutionary force of Building Information Modelling (BIM) continues to grow at a pace within the construction industry. DHD are leading the way, already collaborating with existing clients using REVIT and 3D modelling techniques. This enables our work to integrate seamlessly into your projects.



AREAS OF EXPERTISE

- Building Information Modelling (BIM)
- Mechanical and Electrical Design Services.
- Standard Assessment Procedure (SAP).
- Sustainable and Low Energy Design

Commitment to sustainable building

DHD have experience of designing to 'The Code for Sustainable Homes' standard, BREEAM, the 'Passivhaus' standard and all current building regulations.

To support our designs and energy solutions we have an accredited SAP assessor within our team. This allows us to produce designs and SAPs hand in hand within one team.

Whether you want to reduce the energy consumption of a building to comply with building regulations, meet a standard, manage your carbon reduction commitment, reduce your energy bills or reduce your carbon emissions, our partner DHD has the knowledge to guide you, based upon years of experience of low or zero carbon technology.

Standard Assessment Procedure (SAP) Services

Standard Assessment Procedure has been adopted by the UK Government as a methodology for estimating the energy performance of planned domestic buildings.

The calculation takes into account a range of factors that contribute to energy efficiency such as:

- Materials used for construction of the dwelling
- Thermal insulation of the building fabric
- Ventilation characteristics of the dwelling and ventilation equipment
- Efficiency and control of the heating system
- Solar gains through openings of the dwelling
- Fuel used to provide space and water heating, ventilation and lighting and renewable energy technologies.

The calculation determines a number of indicators of energy performance these being, an energy cost rating (the SAP rating), an Environmental Impact rating based on CO2 emissions (the EI rating) and a Dwelling CO2 Emission Rate (DER).

The SAP and Environmental Impact rating are based on the energy costs and annual CO2 emissions associated with space heating, water heating, ventilation and lighting, less cost savings

from energy generation technologies. They are adjusted for floor area therefore independent of dwelling size for a given built form. The ratings are expressed on a scale of 1 to 100, the higher the number the lower the running costs and better the standard.

The Dwelling CO2 Emission Rate is a similar indicator to the Environmental Impact rating, which is used for the purposes of compliance with building regulations. It is equal to the annual CO2 emissions per unit floor area for space heating, water heating, ventilation and lighting, less the emissions saved by energy generation technologies, expressed in kg/m²/year. It is this measurement that compliance for building control is measured against.

The SAP tool is also used to generate Energy Performance Certificates for on-construction domestic buildings.

When is a SAP rating required?

If you are planning to construct any new building that will be used as a residence, obtaining a SAP Rating and a Dwelling Emission Rating is generally required prior to starting the construction phase.

Although relatively straightforward to produce, striking the right balance of improvement is not simple. Whilst the SAP should never be used as a design tool, it is highly recommended dealing with an assessor who will be able to spot easy to remedy problems and offer sensible advice to ensure compliance. DHD have a huge span of experience in challenging, tricky building developments and always take a client - first perspective when approaching compliance.

Getting Started

To discuss a design, SAP calculation or for expert advice contact DHD on:

■ email: design@dhdLtd.co.uk



01536 522861



A Successful Partnership

ThermaQ working with Domestic Heating Design.

ThermaQ are proud to have worked on a large number of developments throughout the UK with our partner Domestic Heating Design.

With core skills and services in place, they ensure that all our building services designs are energy efficient and incorporate world class design practice. From the outset, they work closely with our clients to achieve the lowest carbon footprint with cost effective, integrated and energy efficient building solutions.

DHD work with our clients to get the best out of their buildings, from the initial design and the ongoing life of the building to ensure that it will perform for the end user. They'll consider ease of installation, maintenance, performance and the energy efficiency of the services.

Example Drawings

The example drawings on the following page on behalf of ThermaQ are of a typical 4-bedroom house with heating and water services provision, incorporating underfloor heating to the ground and first floor, generated using the specialist Central Heating Designer software. Our finished designs are typically provided in a pdf format but are available in AutoCAD compatibility where requested.



Getting Started

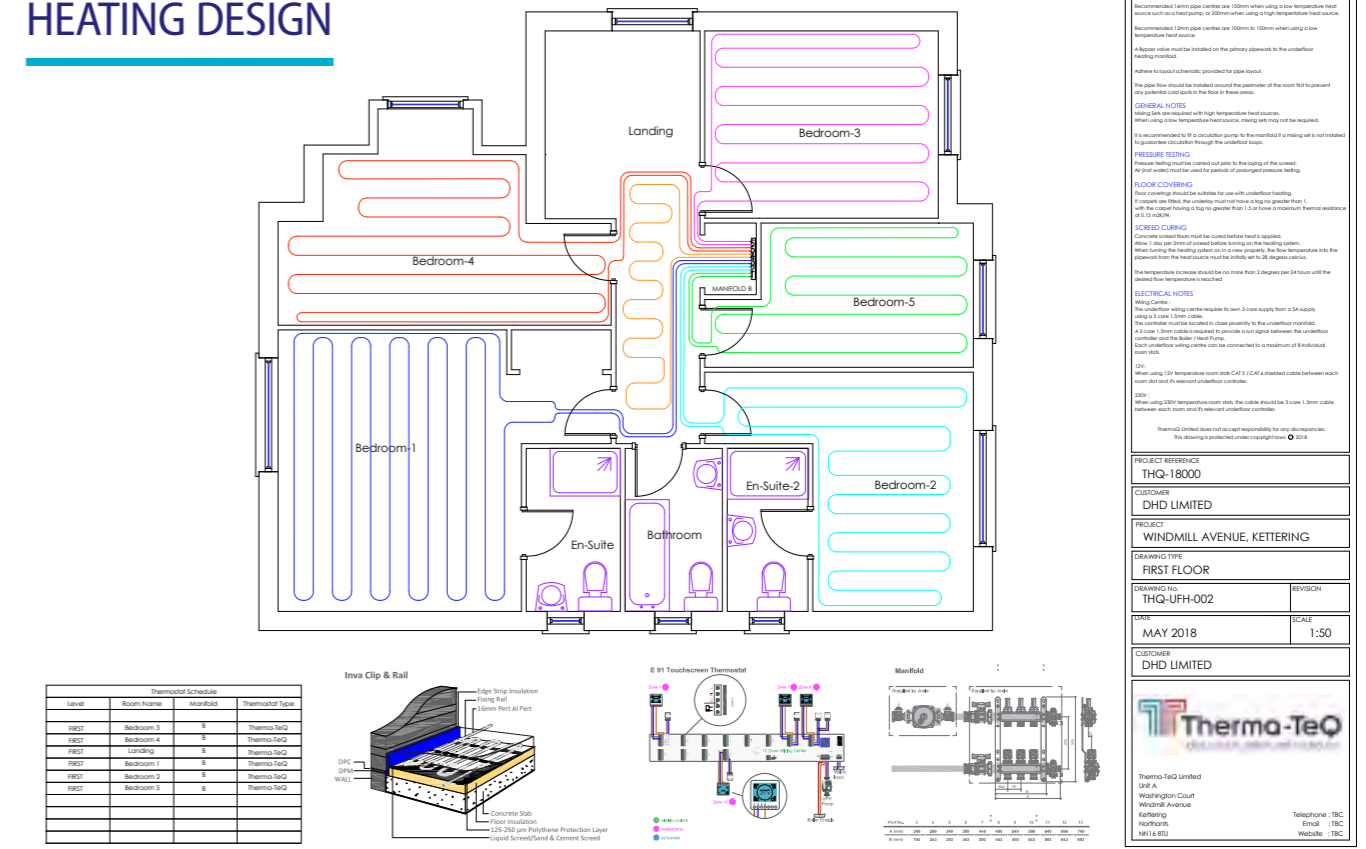
To arrange an appointment, or for expert advice contact DHD to see how they can help.

email: design@dhdLtd.co.uk

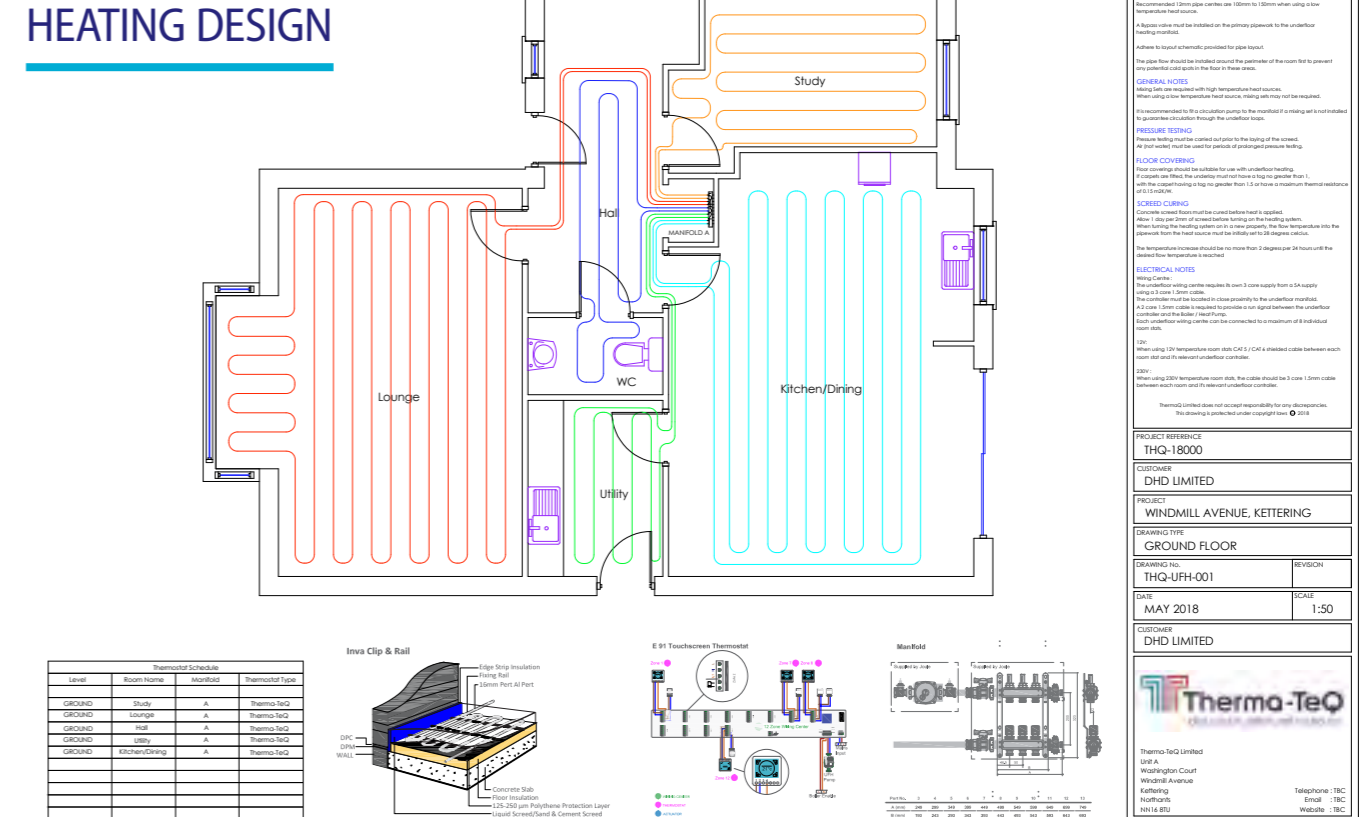
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dhd
domestic heating design ltd.

EXAMPLE: FIRST FLOOR UNDER-FLOOR HEATING DESIGN



EXAMPLE: GROUND FLOOR UNDER-FLOOR HEATING DESIGN



Installation Guidance

Professional advice from ThermaQ.



All our stainless steel range is manufactured from the very latest high specification grade of Duplex stainless steel, to resist all forms of corrosion, including crevice and stress, whilst its high mechanical strength gives it fantastic durability.

Materials

Internal cylinder - Duplex Stainless Steel.
 HE Coil - 22mm Stainless Steel.
 Bosses - Stainless Steel.

Totally insulated with 100% CFC-Free (ODP zero) polyurethane to minimise heat loss. White pre-coated, corrosion resistant, Zintec case work.

Expansion Vessel Sizing Guide

CYLINDER CAPACITY (L)	12	18	24	35	50
60 to 150	■				
180 to 250		■			
300 to 400			■		
450 to 550				■	
600					■

Not applicable to Evocyl AIR.

Control Settings

Inlet control valve (3 bar). Expansion pressure relief (6 bar). Temperature (90°C) and pressure relief valve (7 bar). Dual thermostat high limit (85°C). Immersion heater high limit (85°C).
 AIR - ER at 8bar, T&P 10bar.

Immersion Heater

13/4" BSP, long life incoloy sheathed low noise element. Long life thermostat pocket. Element rating 3kW at 240 A/C.

Guarantee Terms Overview

The ThermaQ stainless steel inner vessel on the Evocyl range of products carries a fully transferable 25 year guarantee applicable from the date of purchase. The guarantee covers material defect or manufacturing faults in domestic use only, of products up to the capacity of 300 litres. Please refer to the installation guide for guarantee terms for calorifiers and non-domestic installations.

All components supplied with the Evocyl cylinder are guaranteed against material defects or manufacturing defects for 2 years from date of purchase.

Full details of guarantee terms, conditions and exclusions can be found in the installation guide provided with the cylinder.

Evocyl Approvals

(Subject to product specification).

Tested by NSF-Wrc to BS EN 12897:2006
 The Building Regulations 2000 (England & Wales) Approved Document G (2010).
 The Building Regulations (Scotland) 2004.
 The Building Regulations (Northern Ireland) 2000.
 Compliant with Building Regulation Part L WRAS Approved Product.
 The UK Water Supply (Water Fittings) Regulations.
 The Scottish Water Byelaws.
 Components CE marked to EN Standards as applicable.

Regulations

ThermaQ Evocyl is covered by Section G3 of the Building Regulations (England and Wales), Technical Standard P3 (Scotland) and Building Regulations P5 (Northern Ireland). All Unvented units with a capacity over 15 litres must be installed by a competent installer in accordance with these regulations.

Mains Supply

The Evocyl unvented cylinder needs a minimum of 1.5 bar (max 10 bar) mains pressure and 20 litres per minute flow rate to ensure that the cylinder meets its minimum capabilities. Higher mains pressure and flow rates will result in a higher performance from the cylinder.

Cylinder Siting

With no header tanks to consider, ThermaQ Evocyl units can be sited almost anywhere in the house. Evocyl can supply outlets both above and below its location and must be fitted on a flat surface capable of holding its full weight. (Refer to installation instructions supplied with cylinder).

Boiler Compatibility

The Evocyl family of cylinders are compatible with any appliance that is fitted with an integral control thermostat and its own energy cut-out (these include natural gas, lpg, electric and oil boilers). Solid fuel appliances such as Aga, Rayburn, etc., without full thermostatic control cannot usually be installed with an unvented unit. Please consult the Evocyl installation guide for further information.

Secondary Return Connection

As standard a secondary hot water tapping is only fitted on **indirect** models of 210 litres and above. Other sizes can be fitted with a secondary return if required.

Wiring

All electrical wiring should be carried out by a competent electrician and be in accordance with the control scheme being used and the latest IEE regulations. The controls provided with the Evocyl will ensure the safe operation of the unit within a central heating system. The Evocyl is compatible with Y and S plan systems.

External wiring to the immersion heaters must comply with the relevant IEE wiring regulations and the circuit must be protected by a suitable fuse and a double pole isolating switch.

Connection Sizes (Domestic)

Cold Inlet	22mm Compression
Hot Outlet	22mm Compression
Coil Connections	22mm Compression
Safety Valves	15mm Compression Outlet
Inlet Control Set	22mm Compression Inlet and Outlet
Tundish	15mm Compression Inlet / 22mm Compression Outlet



Our Partnerships

Building better Relationships.



Complimentary Products

Electric Water Heaters and Underfloor Heating.



Through our long-standing relationships with our suppliers and stockists, ThermaQ have formed an understanding and appreciation of your requirements to enable us to best support your needs.

When you have chosen one of our industry leading range of cylinders, you may also be interested in our complimentary electric water heating products and our underfloor heating systems. ThermaQ have a solution for you.



Suppliers

Our suppliers play an integral part to the success of ThermaQ so we ensure we select companies to work with that share our customer values and a desire to innovate the products they supply to us. They appreciate our reputation can be influenced by the performance and reliability of their products, so we maintain strong and committed relationships and continually review all aspects of our business together. We have a mix of market leaders and lesser known but very innovative companies that we work with which gives us an unrivalled offer to our customers.

Nationwide Stockists

ThermaQ products are available from hundreds of outlets across the UK and with our prompt delivery service you are only ever a short time away from receiving your product. We believe in long term relationships with our Blue Chip distributor networks and we continually strive to improve our service with these stockists helping them to add value to the supply chain.

Please contact us on 01924 270847 or sales@thermaq.co.uk if you require details of local stockists.

ThermaQ Electric Water Heating

ThermaQ offer a range of Electric Water Heater products for both domestic and commercial requirements. With their varying flow rates and capacities, ThermaQ are sure their is an option to suite your requirements.

Therma-TeQ Underfloor Heating Systems

Therma-TeQ, part of ThermaQ, design and supply underfloor wet heating systems for any building type, whether its commercial, industrial or residential.

We offer a fixing system for every floor or construction type and as an add-on to our cylinder range, so you can relax knowing one supplier can design, supply and advise you of everything you need to ensure the perfect underfloor heating system.



CONTACT THERMAQ	Telephone: 01924 270847	Email us on: sales@thermaq.co.uk	For more information: www.thermaq.co.uk
CONTACT THERMA-TEQ	Telephone: 033 022 02929	Email us on: design@therma-teq.co.uk	For more information: www.therma-teq.co.uk



NSF-WRc



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