

# Evocyl

## INSTALLATION MANUAL

ISSUE 2014-V1

FOR MORE INFORMATION GO TO:  
**[WWW.THERMAQ.CO.UK](http://WWW.THERMAQ.CO.UK)**



## INTRODUCTION

The corrosion resistant Evocyl Unvented cylinder is made from Duplex Stainless Steel. It is highly insulated with environmentally friendly foam enclosed in a rust resistant white steel case.

It is available in Direct, and Indirect versions in a family of 7 sizes from 90 - 300 litres in Twin Coil and Indirect. Direct Eco units are available in 5 sizes from 150 - 300 litres. There is also a range of slimstyle units from 60 - 210 litres again in Direct and Indirect versions.

To help ensure compliance with the relevant Water and Building Regulations all Evocyl units are supplied complete with the necessary safety and control devices needed to connect to the cold water mains. In order to ensure high flowrate performance with minimum pressure drop even in lower pressure areas, pre-set high quality controls have been selected.

Evocyl is approved to demonstrate compliance with Water Regulations and Building Regulations G3 & Part L.

## STORAGE PRIOR TO INSTALLATION

Evocyl should be stored upright in a dry area and kept in its original packaging until immediately prior to installation.

## INSTALLATION PREREQUISITES

This Cylinder should only be installed by a competent installer holding their G3 unvented qualification. The installation of this product is also notifiable under the national Building Regulations.

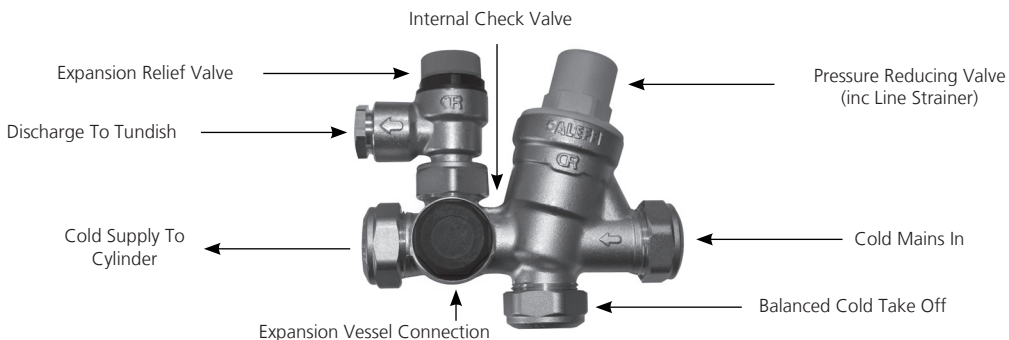
**ONCE COMPLETED THIS INSTRUCTION MANUAL IN ITS ENTIRETY SHOULD BE LEFT WITH THE HOME OWNER.**

## WHAT IS BENCHMARK?

Benchmark places responsibilities on both manufacturers and installers. The purpose is to ensure that customers are provided with the correct equipment for their needs, that it is installed, commissioned and serviced in accordance with the manufacturer's instructions by competent persons and that it meets the requirements of the appropriate Building Regulations. The Benchmark Checklist can be used to demonstrate compliance with Building Regulations and should be provided to the customer for future reference.

Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating and Hotwater Industry Council who manage and promote the scheme. Visit [www.centralheating.co.uk](http://www.centralheating.co.uk)

## COLD INLET SET - WHAT ARE THE CONNECTIONS?



## EQUIPMENT SUPPLIED WITH THE CYLINDER

Cold Water Inlet Set	<b>LOOSE</b>
15 x 22mm Tundish	<b>LOOSE</b>
Temperature & Pressure Relief Valve	<b>FITTED</b>
Expansion Vessel	<b>LOOSE</b>
Expansion Vessel Bracket	<b>LOOSE</b>
Compression Nut Connection For Expansion Vessel	<b>LOOSE</b>
Immersion Heater(s) - Dependant on size & configuration	<b>LOOSE</b>
Instructional Manual	<b>LOOSE</b>
Benchmark Log Book - Found at the rear of this manual	<b>LOOSE</b>

## WATER SUPPLY

Evocyl is capable of delivering over 50 litres per minute when connected to a suitable mains supply. The high quality inlet control set with its 3 bar operating pressure has been designed to make the most of what is available however the performance of any unvented system is only as good as the water supply.

In unvented systems both hot and cold services are supplied simultaneously from the mains so the maximum possible on-site water demand must be assessed and the water supply should be tested to ensure it can meet these requirements. If necessary consult the local water supplier regarding the likely pressure and flow rate availability.

It is important that site pressure readings are taken under dynamic flow conditions, high pressures under zero flow conditions are not necessarily indicative of satisfactory performance. A minimum of 1.5 bar at 20 l/m flow should be available. Where mains inlet pressures are likely to exceed 16 bar then an additional upstream pressure reducing device should be fitted.

A minimum of 22mm supply pipe-work should ideally be provided and existing 1/2" (15mm) cold mains pipe-work may need to be upgraded. Hard water treatment should be considered in areas where content is greater than 200ppm, if required adjust cylinder temperature to below 60 degrees.

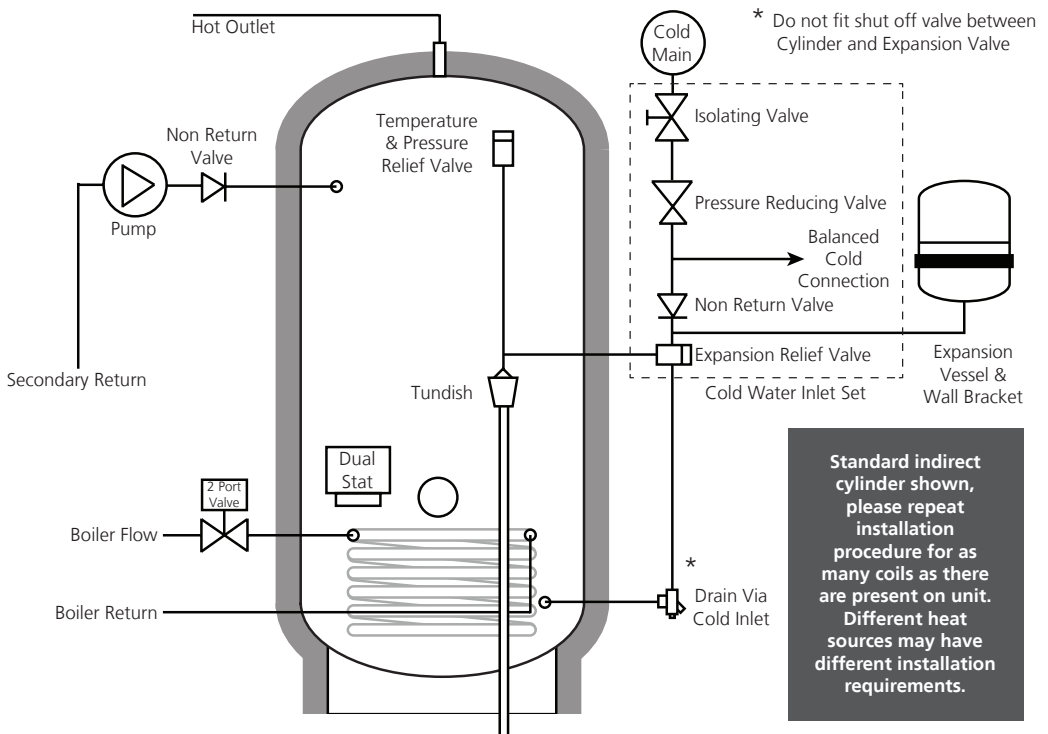
## SITING THE UNIT

Evocyl can be positioned more or less anywhere in the dwelling but it should be remembered that for every 1 metre that an outlet is above the Evocyl, the pressure will be reduced by 0.1 bar. If siting outside the heated envelope of the dwelling such as in a garage or outbuilding then frost protection should be provided and exposed pipework should be insulated.

Evocyl must be supported on a flat base capable of supporting the weight of the cylinder when full. The minimum recommended cupboard size is 650mm square.

It's important that consideration is given to access for maintenance of the valves. The immersion heaters are 375 mm long and access space should be provided for possible future replacement, also adequate access to remove and re-install the cylinder in the event of a problem.

## SCHEMATIC



## GENERAL INSTALLATION

### COLD MAINS PIPEWORK AND EXPANSION VESSEL

Run the cold main through the building to the place where the Evocyl is to be installed. Take care not to run the cold pipe near hot water or heating pipe work so that the heat pick up is minimised. Identify the cold water supply pipe and fit an isolating valve (not supplied).

A 22mm BS1010 stopcock can typically be used but a 22mm quarter turn full bore valve would be better as it does not restrict the flow as much. Do not use "screwdriver slot" or similar valves.

Make the connection to the cold feed of the cylinder and incorporate a drain valve. Position the inlet control just ABOVE the Temperature & Pressure Relief Valve (TPRV) mounted on the side of the cylinder. This ensures that the cylinder does not have to be drained down in order to service the inlet control set. Ensure that the arrow points in the direction of the water flow. Select a suitable position for the expansion vessel. Mount it to the wall using the bracket provided. Use the compression connection supplied to connect the vessel into the cold water pipe adjacent to the cold feed point on the cylinder. There must be no obstruction or flow restriction between the cylinder and the expansion vessel.

### BALANCED COLD CONNECTION

If there are to be showers, bidets or monobloc taps in the installation then a balanced cold supply is necessary. There is a 22mm balanced connection on the inlet control set. All outlets in the house will be at 3 bar and thus automatically balanced.

### HOT WATER PIPEWORK

Run the first part of the hot water distribution pipework in 22mm. This can be reduced to 15mm and 10mm as appropriate for the type of tap etc. Your aim should be to reduce the volume of the hot draw off pipework to a practical minimum so that the time taken for the hot water is as quick as possible.

Do not use monobloc mixer tap or showers if the balanced cold connection is not provided, the unit will back pressurise and result in discharge. Ensure that the top of the vessel is accessible for servicing.

### PRIMARY COIL CONNECTIONS (INDIRECT ONLY)

Compression connections are provided for the primary circuit which must be positively pumped. Primary flow and return connections are interchangeable to suit site conditions without affecting reheat times. These connections are metric and should be changed by the installer if using Irish size copper tube.

Sealed or vented primary circuits can be used, to comply with normal installation practice the primary pressure should not exceed 3 bar although the coil in Evocyl is suitable for up to 7 bar if required. The boiler may be Gas, Electric, Oil etc but must be under effective thermostatic control. Uncontrolled heat sources such as some AGA's, back boilers, solid fuel stoves, etc may not be suitable please contact us for guidance. The two port zone valve should be installed into the primary flow pipework leading to the coil flow inlet. The direction of flow arrow should be towards the primary flow connection. On twin coil cylinders an extra thermostat boss is provided.

### SECONDARY CIRCULATION

Where secondary circulation is required a circulator suitable for potable water should be used in conjunction with a non return valve to prevent backflow. It may be necessary to incorporate an extra expansion vessel into the circuit to accommodate the increased system water volume in larger secondary circulation systems. Where off peak electrical tariffs are being used then secondary circulation should be avoided. A secondary return boss is fitted as standard on 210, 250 & 300L. On smaller sizes tee into the cold feed pipe above the drain.

### IMMERSION HEATERS

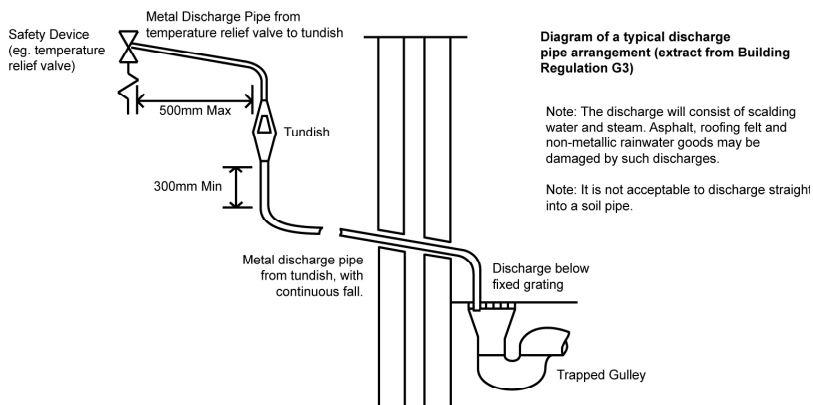
As a requirement of Building Regulations the Evocyl immersion heaters are fitted with thermal cut-out in addition to the normal control thermostat. To help ensure correct replacement the immersion heaters have a special 13/4" thread. They are of a low noise Incoloy construction and rated at 3 kW at 240 V. Replacement immersion heaters should be purchased via ourselves otherwise your guarantee may be affected. For commercial / heavy duty installations where constant usage / reheat is required Titanium immersion heaters must be fitted in order to comply with the warranty.

The 'O'ring on the head of the immersion heater should be correctly positioned and lubricated before fitting. Screw in hand-tight until almost sealed then gently tighten as the 'O' rings will seal easily. The electrical supply to each immersion heater/s must be fused at 13A via a double pole isolating switch to BS 3456. The cable must be 2.5mm<sup>2</sup> heat resistant (85°C HOFRR) sheathed flex complying to BS 6141:1981 Table 8. Do not operate the immersion heater/s until the unit is full of water. If any sterilisation liquid is in the cylinder do not operate the immersion heater/s as this will cause premature failure. Electric to be supplied by a fused supply compliant with local regulations, and fitted by a qualified Part P Electrician.

## ENERGY CUT OUT AND CYLINDER THERMOSTAT (INDIRECT ONLY)

As a requirement of Building Regulations the Evocyl units are fitted with a thermal cut-out in addition to the normal control thermostat. This unit should be fitted to the dedicated boss on the cylinder and wired to the two port valve controlling the primary flow.(see wiring diagram).

## DISCHARGE ARRANGEMENT



This guidance is available as a free of charge download of the G3 Approved Document from [www.planningportal.gov.uk](http://www.planningportal.gov.uk). The discharge from both the temperature relief and expansion relief valves can be joined together via a 15mm end feed tee.

It is important that any discharge water does not collect in this pipe-work and can run freely to the tundish. The tundish should be mounted in a vertical and visible position located in the same space as the unvented hot water storage system and be fitted as close as possible and within 500mm of the safety device e.g. the temperature relief valve. The discharge pipe-work from the tundish must be routed in accordance with Part G3 of the Building Regulations.

The discharge pipe from the tundish should terminate in a safe place where there is no risk to persons in the vicinity of the discharge, be of metal and:

- Be at least one pipe size larger than the nominal outlet size of the safety device unless its total equivalent hydraulic resistance exceeds that of a straight pipe 9m long i.e. discharge pipes between 9m and 18m equivalent resistance length should be at least two sizes larger than the nominal outlet size of the safety device, between 18 and 27m at least 3 sizes larger, and so on. Bends must be taken into account in calculating the flow resistance. An alternative approach for sizing discharge pipes would be to follow BS6700 Specification for design installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages.
- Have a vertical section of pipe at least 300mm long, below the tundish before any elbows or bends in the pipework.
- Be installed with a continuous fall.
- It is preferable for the discharge to be visible at both the tundish and the final point of discharge but where this is not possible or practically difficult there should be clear visibility at one or other of these locations.

Examples of acceptable discharge arrangements are:

1. Ideally below the fixed grating and above the water seal in a trapped gully.
2. Downward discharges at a low level; i.e. up to 100mm above external surfaces such as car parks, hard standings, grassed areas etc. are acceptable providing that where children play or otherwise come into contact with discharges, a wire cage or similar guard is positioned to prevent contact whilst maintaining visibility.
3. Discharges at a high level; e.g. in to metal hopper and metal down pipe with the end of the discharge pipe clearly visible (tundish visible or not) or onto a roof capable of withstanding high temperature discharges of water and 3m from any plastic guttering systems that would collect such discharges (tundish available).
4. Where a single pipe serves a number of discharges, such as in blocks of flats, the number served should be limited to not more than 6 systems so that any installation can be traced reasonably easily. The single common discharge pipe should be at least one pipe size larger than the largest individual discharge pipe to be connected. If unvented hot water storage systems are installed where discharges from safety devices may not be apparent i.e. in dwellings occupied by blind, infirm or disabled people, consideration should be given to the installation of an electronically operated device to warn when discharge takes place.

**ANY QUERIES WITH REGARD TO DISCHARGE ARRANGEMENT CONTACT YOUR LOCAL COUNCIL PLANNING OFFICE.**

## TWIN COIL FORMAT

Indirect twin coil units can be installed in two separate formats:

- In a solar powered system with a backup boiler.
- In a system with two non-solar heat sources (normally two boilers).

With either format it is essential that the installation meets all current regulations including, in particular, the high limit cut out requirements of Building Regulation G3.

## UPPER COIL

This is connected to the boiler as per the instructions for a Evocyl single coil cylinder with the high limit thermostat inserted into the middle thermostat pocket and wired to control the supplied two port valve in either the primary flow or return as indicated in the wiring instructions.

## LOWER COIL - SOLAR VARIENT

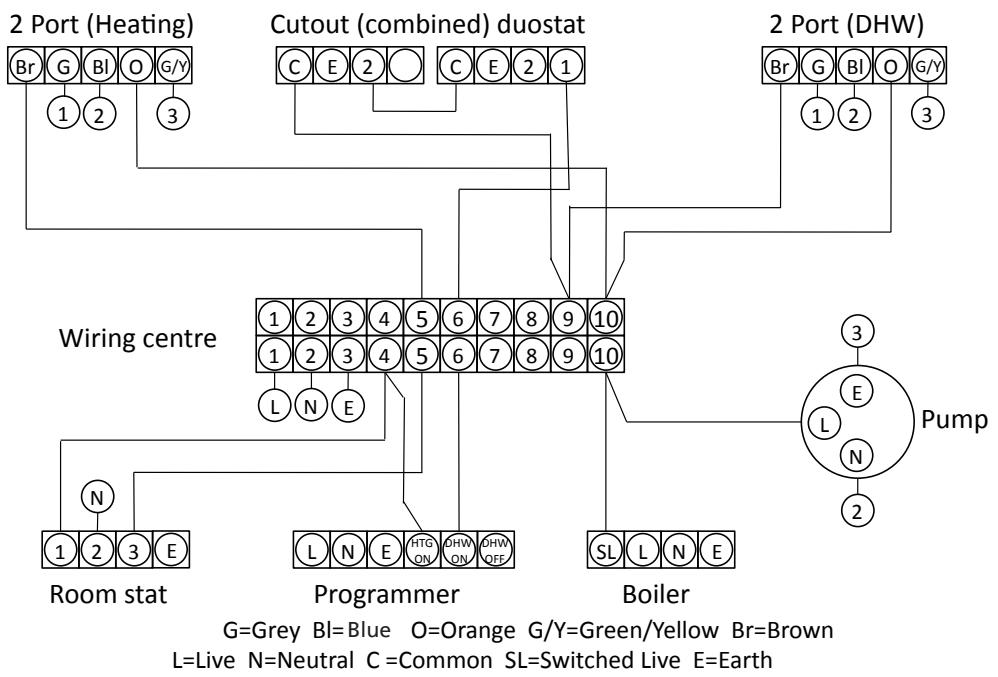
In a solar system the lower coil is connected to the solar heat source. Either primary coil connection may be used for flow or return. The solar cylinder sensor supplied is inserted into the lower thermostat pocket and the energy cut out into the upper pocket. The 'mechanical' control thermostat is not normally utilised in a solar system. In systems where the panels are above the cylinder then the energy cut out shall be wired so as to interrupt the power supply to the solar pump or controller in the event of over temperature.

In systems where the cylinder is above the panels then the energy cut out should be wired to a suitable two port valve (not supplied) on the return pipe-work to the solar panel.

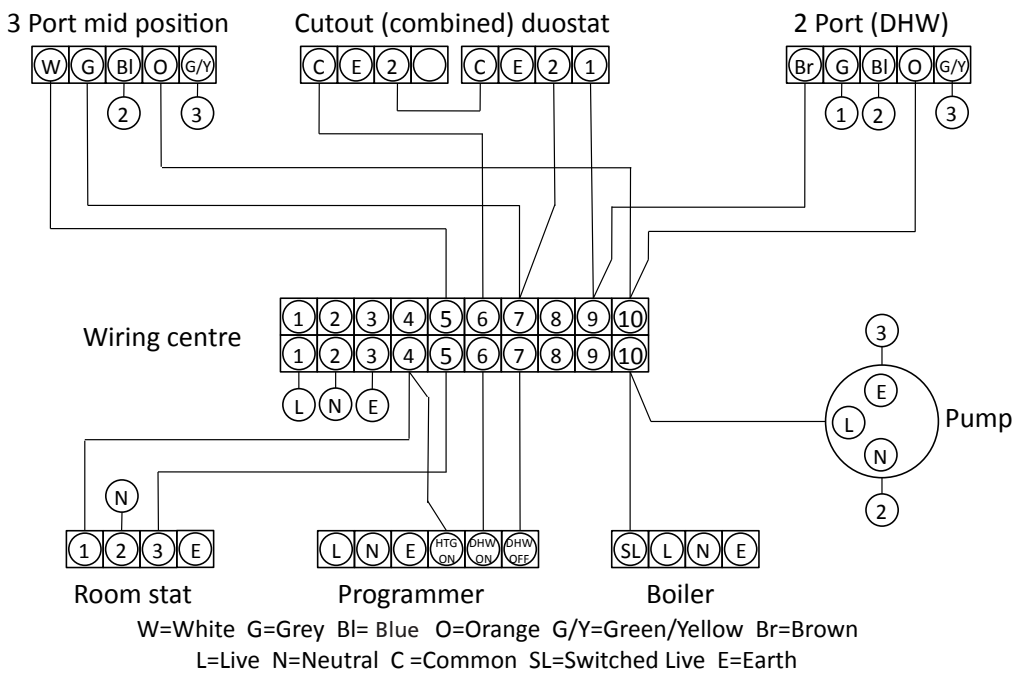
## LOWER COIL - NON SOLAR VARIENT

This is connected to the additional boiler as per the instructions for a Evocyl single coil cylinder with the high limit thermostat inserted into the lower thermostat pocket and wired to control the supplied two port valve in either the primary flow or return.

## WIRING DIAGRAM 2 x 2 Port zone valves (Typically Honeywell "S" Plan)



## WIRING DIAGRAM 3 Port + 2 Port (Typically Honeywell "Y" Plan)



## COMMISSIONING SERVICING

### FILLING

Check all connections for water tightness including any factory made connections such as the temperature and pressure relief valve. The pressure in the expansion vessel should be checked to ensure it is 3 bar (45PSI). The valve is of the car tyre (Schrader) type.

The hot tap furthest away from the Evocyl should be opened before filling the system to let air out.

The system should be flushed before use. The remaining taps should be opened in turn to expel air.

### DIRECT UNITS

The system must be fully filled and flushed before switching on the power to the immersion heaters and allowing the unit to heat up. The immersion heater is supplied preset at 55°C. Turning fully to + sets to approx 65°C.

### INDIRECT UNITS

Ensure the lever on the two port valve is set to the filling position and use the boiler manufacturers commissioning instructions to fill the primary circuit. When full release the lever. Switch the programmer to Domestic Hot water (DHW) and allow the unit to start to heat. Adjust the dial of the dual thermostat to between 55°C and 65°C as required.

### STORAGE TEMPERATURE

A storage temperature of 60-65°C is normal for both direct and indirect Evocyl. In hard water areas consideration should be given to reducing this to 55-60°C. In many healthcare applications the guidance on Legionella control and safe water delivery temperatures will require storing the water at 60-65°C, distributing at 50-55°C and using thermostatic mixing valves to control the final temperature. For details consult the NHS estates guidance on safe hot water temperatures.

### SAFETY VALVE CHECKS

Any water coming from either the expansion relief valve or the temperature / pressure relief valve during heat up is indicative of a problem which needs to be identified and rectified. The temperature relief and expansion relief valves should be fully opened, one at a time then both together allowing as much water as possible to flow through the tundish. Check that your discharge pipework is free from debris and is carrying the water away without spillage over the tundish and release the valves and check that they re-seat properly.

### GENERAL

Servicing should only be carried out by competent installers and any spare parts used must be purchased from Therma Q. NEVER bypass any safety devices or operate the unit without them fully operational.

### DRAINING

Isolate from the electrical supply to prevent the immersion heaters burning out. Isolate the unit from the cold mains. Attach a hose to the draining tap ensuring it reaches to a level below the unit (This will ensure an efficient syphon is set up and the maximum amount of water is drained from the unit). Open the hot tap closest to the unit and open the draining tap.

**WARNING: WATER DRAINED OFF MAY BE VERY HOT!**

### ANNUAL SERVICING

A competent installer should carry out the following checks on an annual basis, ideally at the same time as the annual boiler service.

1. The expansion relief valve on the inlet control set should be eased open allowing water to flow for 5 seconds. The valve should then be closed making sure it resets correctly. Repeat this procedure with the pressure / temperature relief valve. Always insure that the discharge pipework is allowing the water to drain away adequately. If not check for blockages etc. and clear.

**WARNING: THE WATER DISCHARGED MAY BE VERY HOT!**

2. Ensure that any immersion heaters that are fitted are working correctly and that they are controlling the water at a temperature of between 55°C and 65°C.
3. Make sure the pressure in the expansion vessel is charged to 3 bar. Turn off the water supply to the unit and open a hot tap first. The valve on the expansion vessel is a Schrader (standard car tyre) type. Air or CO2 can be used to repressurise the expansion vessel.
4. Remove the head on the inlet control set by unscrewing, and clean the mesh filter within.
5. The benchmark service record supplied within this manual should be updated at each service.

**YOUR GUARANTEE MAY BE VOID WITHOUT PROOF OF ANNUAL SERVICING. THE COMMISSIONING CERTIFICATE SUPPLIED AT THE REAR OF THIS MANUAL SHOULD ALSO BE COMPLETED BY THE INSTALLER.**



## GUARANTEE

The Evocyl stainless steel vessel carries a 25 year guarantee against faulty materials or manufacture provided that:

- It has been correctly installed as per this document and all the relevant standards, regulations and codes of practice in force at the time.
- It has not been modified in any way, other than by Therma Q.
- It has not been misused, tampered with or subjected to neglect.
- It has only been used for the storage of potable water.
- It has not been subjected to frost damage.
- The unit has been serviced annually.
- The benchmark service record has been filled in after each annual service.
- The guarantee period starts from the date of purchase and no registration is required.
- The extended guarantee is not transferable, and rests with the original householder.
- The system is fed from a public mains water supply.
- Store temperatures do not exceed 65oC.
- Installations are made only in the UK & Republic Of Ireland.
- The water supply does not have a Chloride content greater than 250ppm.
- Units are not installed with uncontrollable heat sources (E.g. Wood Burning Stoves).
- For commercial / heavy duty installations where constant usage / reheat is required Titanium immersion heaters must be fitted in order to comply with the warranty.

Please note that invoices for servicing may be requested to prove that the unit has been serviced annually. All the components fitted to / or supplied with the Evocyl carry a 2 year guarantee. The guarantee starts when the cylinder is first filled.

## EXCLUSIONS - THINGS THE GUARANTEE DOES NOT COVER

The effects of scale build up. Any labour charges associated with replacing the unit or its parts. Any consequential losses caused by the failure or malfunction of the unit.

## GUIDANCE IN THE EVENT OF A PROBLEM

If you have a problem in the first year contact the plumber who fitted the unit. Thereafter contact the plumber who carries out the annual servicing for you. If your Evocyl develops a leak we will supply you with a new one. We ask for an up-front payment to prevent fraud.

We will require the original unit to be returned to us for inspection along with a copy of your service record and commissioning checksheet. If it is confirmed that it has failed within the terms of the warranty your upfront payment will be refunded. If a component part fails within the two year guarantee period we will send you a new one again with an upfront charge. Credit card details may be taken to prevent fraud. We ask you to post the faulty part back to us within one month by recorded delivery. Once the part has been tested and proven faulty a refund will be issued.

## USER INSTRUCTIONS

Your stainless system is automatic in normal use and requires only annual servicing. You should employ an competent installer to perform the annual servicing. Normally this is timed to coincide with the annual boiler service.

### **IF WATER IS FLOWING FROM THE SAFETY VALVES THROUGH THE TUNDISH THIS INDICATES A FAULT CONDITION AND ACTION IS NEEDED.**

If this water is hot turn the boiler and / or the immersion heater off. Do not turn off the water until the discharge runs cool. The discharge may also stop.

### **CALL A COMPETENT PLUMBER OUT TO SERVICE THE UNIT.**

Tell them you have a fault on an unvented cylinder. We stock all the spare parts they may need.

## PLEASE NOTE

Before making any claim/return on a Evocyl Cylinder or Component, please make sure you have run through the following fault finding options and check the offending item is less than one year old or the unit has been serviced every 12 months in line with the Benchmark Scheme.

Proof of this will be required when returning any part, also note all components are date stamped. Failure to do this will result in any credit/claim being rejected.

# UNVENTED CYLINDER

## Fault Finding Information

Symptoms.	Possible Causes	Follow up action.
<b>Cylinder appears to leak from within the case.</b>	Loose cylinder connection.	Check all connection points including immersion heaters to ensure integrity of joint and remake any suspect joints.
<b>Expansion Valve operates and water is visible at the Tundish.</b>	Possible fault at Pressure Reducing Valve.	Follow fault finding information for Inlet Control Group.
	Back pressure from the system.	Check all mixer type outlets are served by a balanced cold service. Where not repipe or install bespoke pressure reducing valve to offending outlet.
<b>Expansion Valve operates when cylinder is heated.</b>	Possible fault at Expansion Vessel.	Follow fault finding information for Expansion Vessel.
<b>Noise when operating tap outlet.</b>	Insecure Pipework.	Increase the number of pipe clips.
<b>Reduced water flow.</b>	External works to public mains.	Wait for works to be completed.
	Debris from water mains.	Strip & clean or replace Inlet Control Group.
	Pressure Reducing Valve sticking.	Strip & clean or replace Inlet Control Group.
<b>No hot water available.</b>	Immersion heater failure.	Follow fault finding information for Immersion Heater
	Boiler failure.	Check operation of the boiler and its controls.

# EXPANSION VESSEL

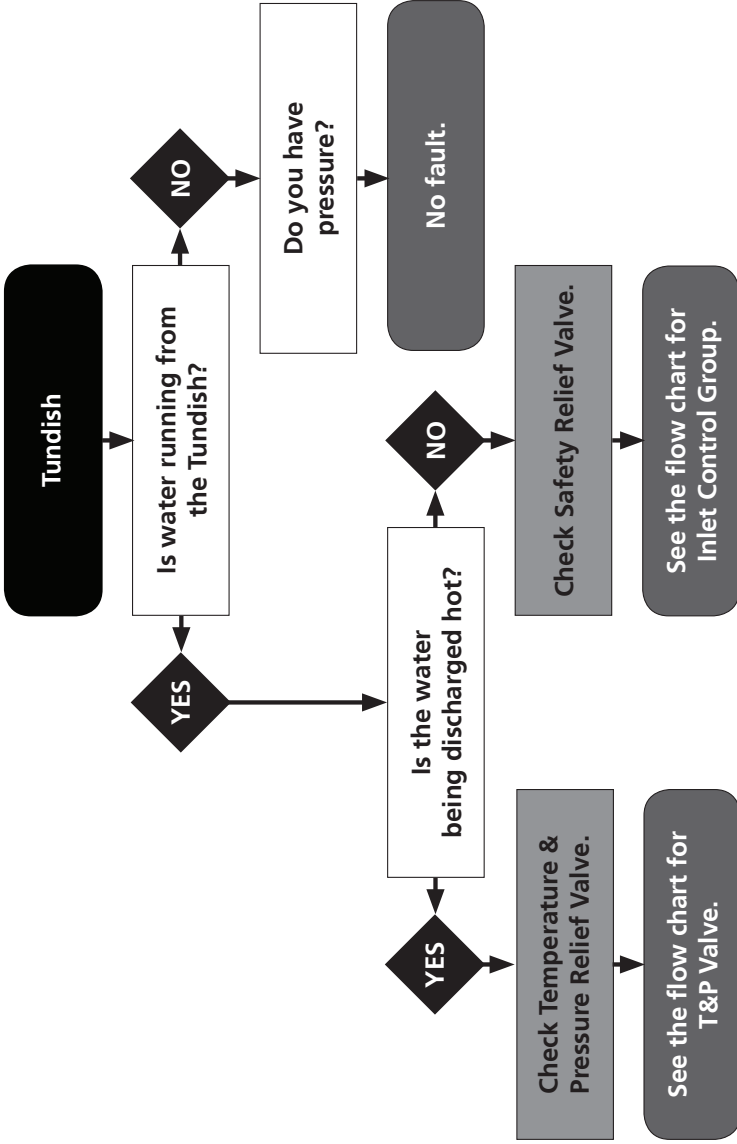
## Fault Finding Information

Symptoms.	Possible Causes	Follow up action.
<b>Discharge of water from the Relief Valve.</b>	Expansion Vessel is too small.	Vessel needs resizing and installation by appropriately qualified engineers.
	Pre-charge set incorrectly on vessel installation.	Pre-charge requires setting while system is de-pressurised according to cylinder manufacturers recommendations.
	Membrane is ruptured and may require replacement.	Replace membrane or entire vessel. Inspect Shrader valve for leaks or damage.
	Membrane may be partially de-pressurised due to natural losses and require re-pressurisation.	Re-pressurise or consider replacement depending on age of vessel and amount of pressure lost. Inspect Shrader valve for leaks or damage.
<b>Leak from Flange or Water Connection.</b>	Failure of Flange Plate.	Replace Flange Plate or entire Vessel.
	Loss of torque in Flange retaining bolts.	Re-tighten bolts as needed.
	Ruptured membrane has caused corrosion of vessel body resulting in pinhole leak.	Entire Vessel must be replaced. Inspect Shrader valve for leaks or damage.
<b>Vessel appears to be fully of liquid when system is cold.</b>	Membrane is de-pressurised.	Replace membrane or entire vessel. Inspect Shrader valve for leaks or damage.
<b>Water is discharged from vessel when Shrader pin is de-pressed for inspection of air pressure.</b>	Membrane is ruptured.	Membrane or vessel requires replacement.



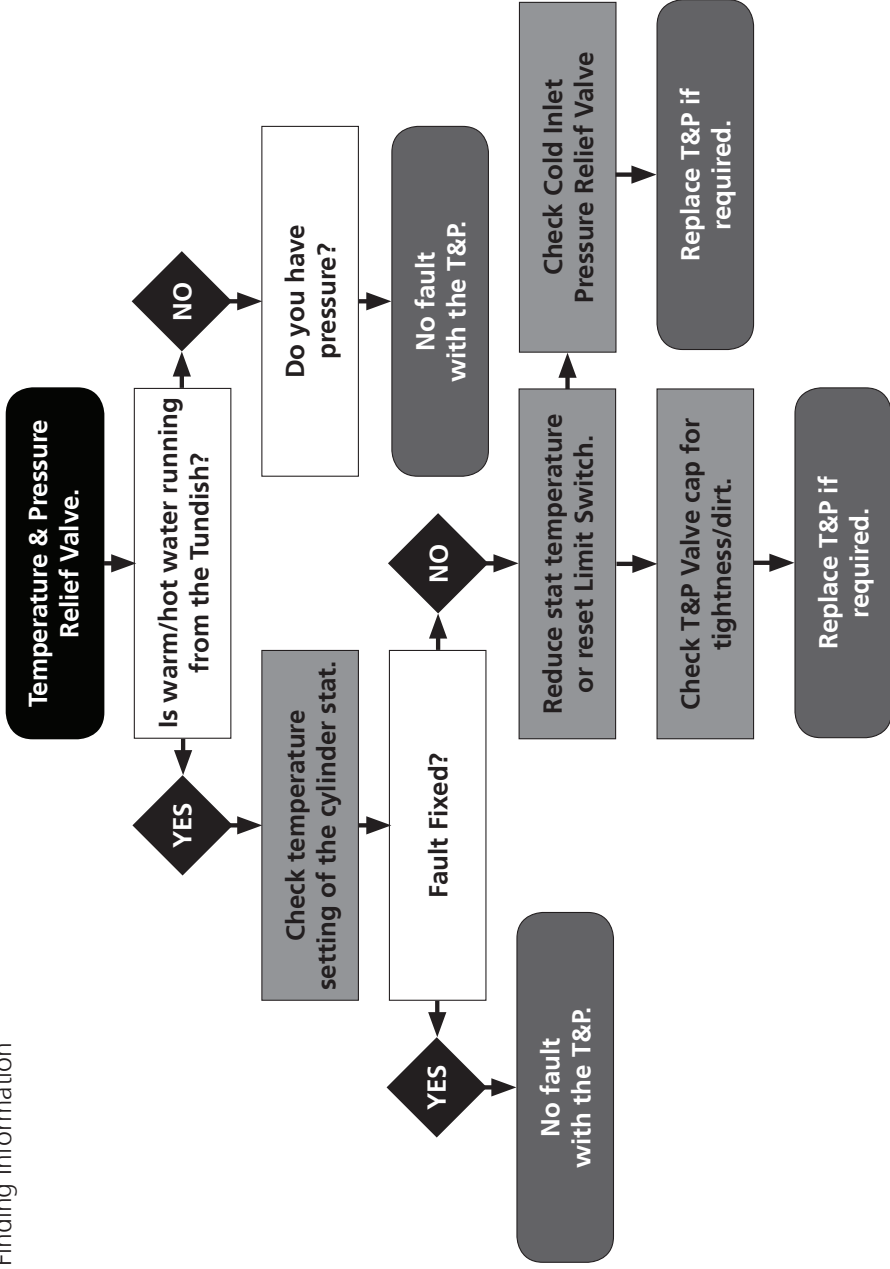
# TUNDISH

Fault Finding Information



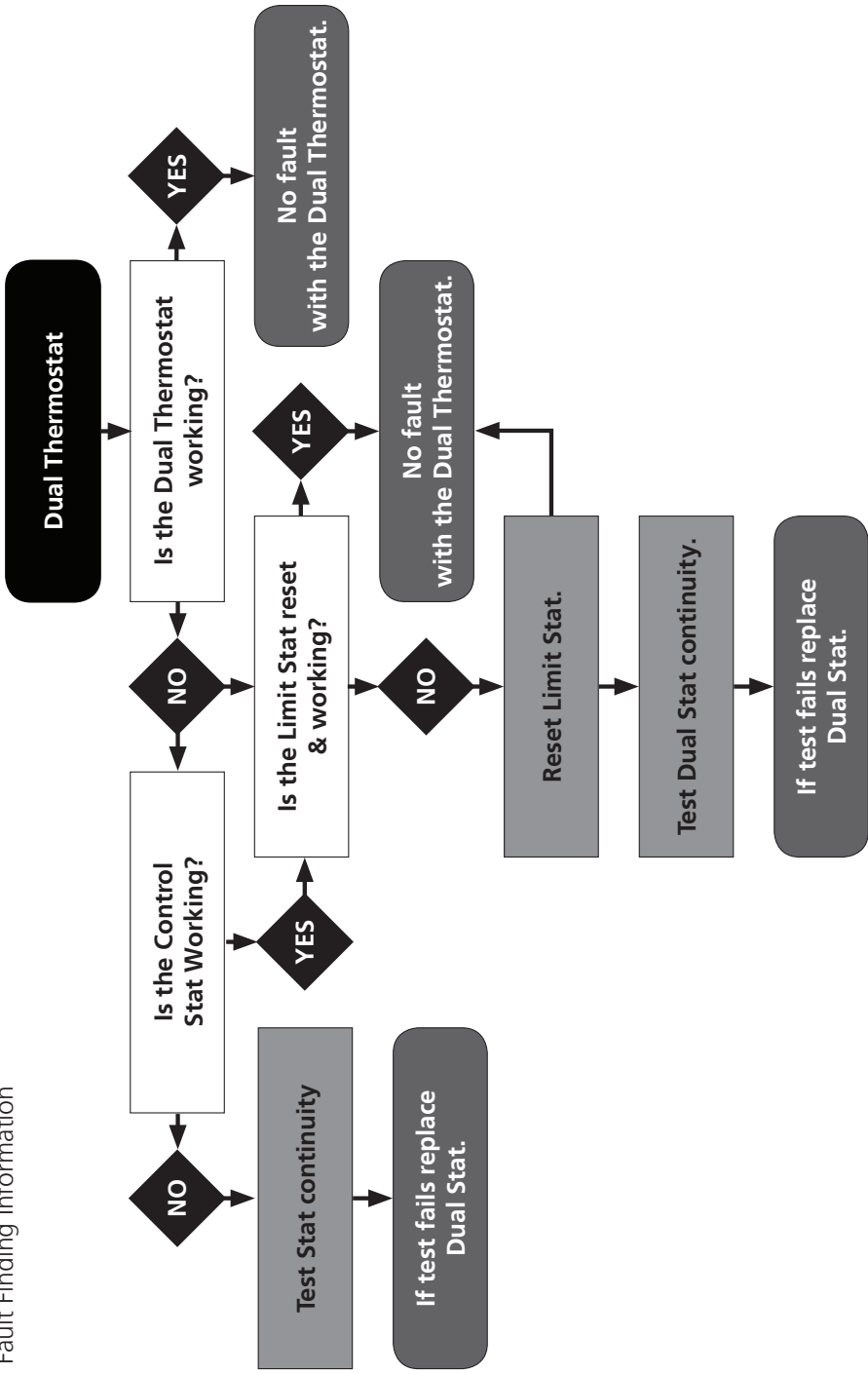
# T&P RELIEF VALVE

Fault Finding Information



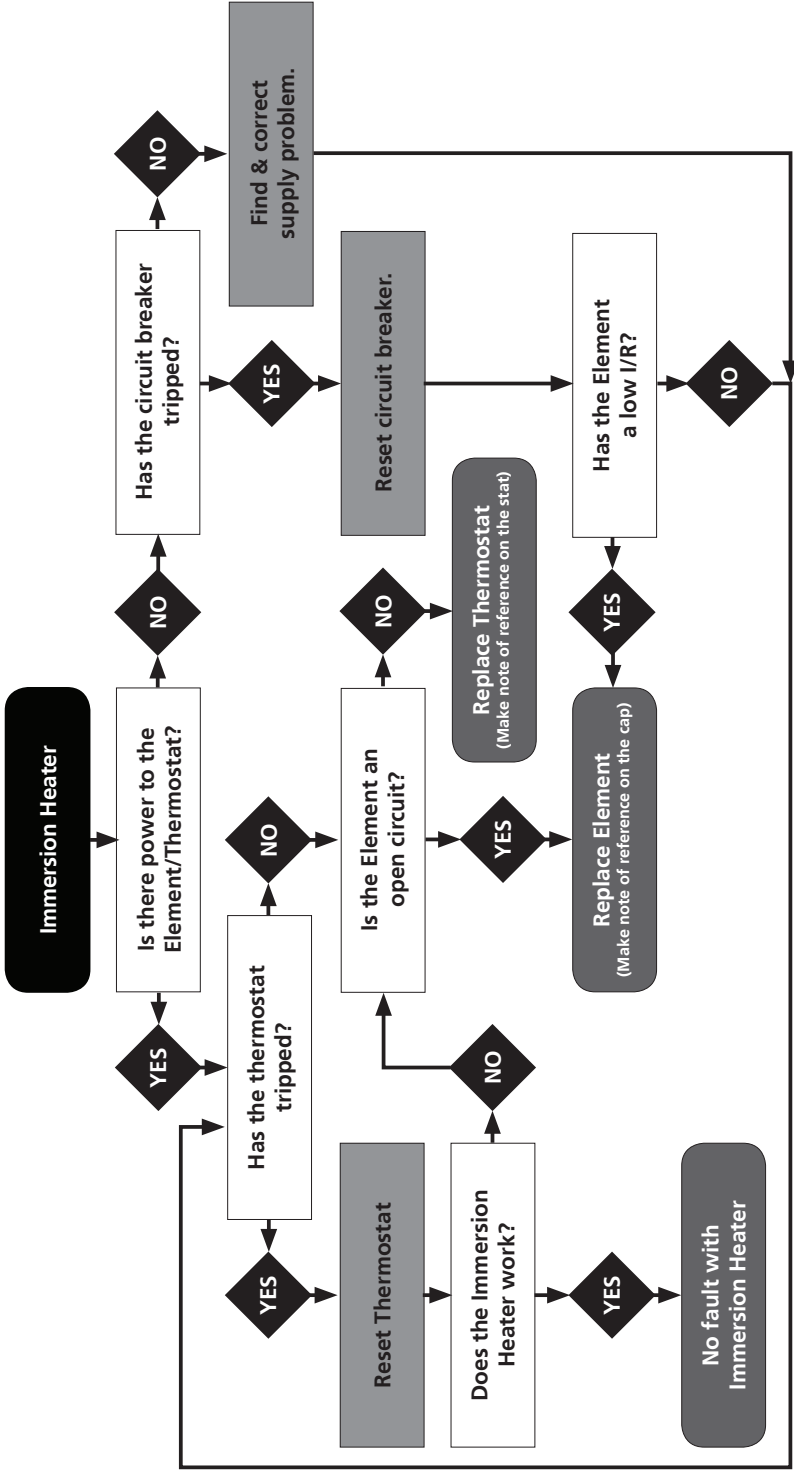
# DUAL THERMOSTAT

Fault Finding Information



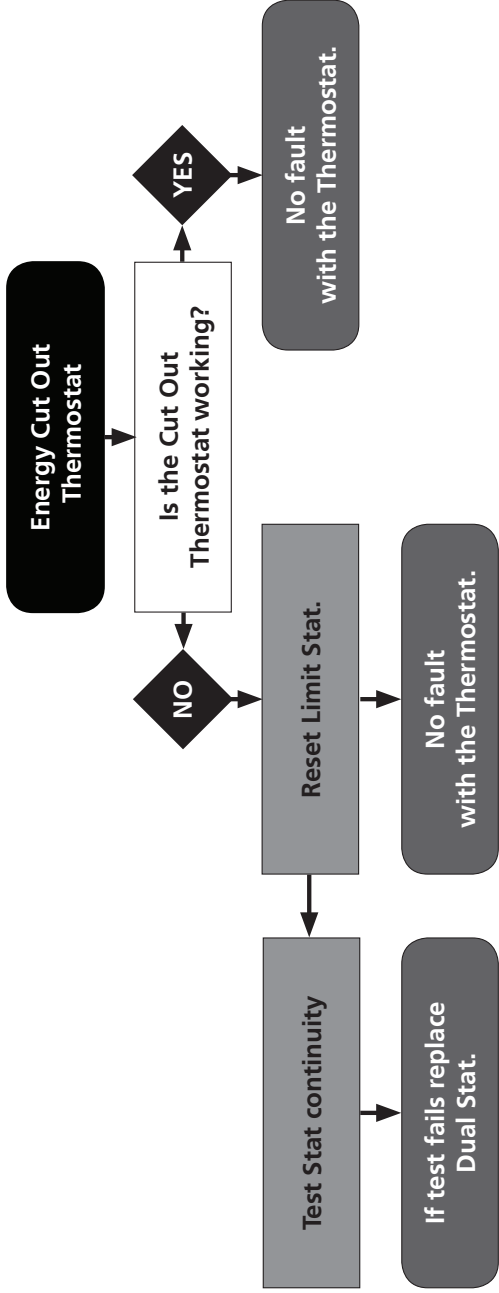
# IMMERSION HEATER

Fault Finding Information



# ENERGY CUT OUT

Fault Finding Information







# SERVICE RECORD

It is recommended that your hot water system is serviced regularly and that the appropriate Service Record is completed.

## Service Provider

Before completing the appropriate Service Record below, please ensure you have carried out the service as described in the manufacturer's instructions.

**SERVICE 1** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature \_\_\_\_\_

**SERVICE 2** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature \_\_\_\_\_

**SERVICE 3** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature \_\_\_\_\_

**SERVICE 4** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature \_\_\_\_\_

**SERVICE 5** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature \_\_\_\_\_

**SERVICE 6** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Signature \_\_\_\_\_

**SERVICE 7** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
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\_\_\_\_\_  
Signature \_\_\_\_\_

**SERVICE 8** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
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Signature \_\_\_\_\_

**SERVICE 9** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
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**SERVICE 10** Date \_\_\_\_\_  
Engineer Name \_\_\_\_\_  
Company Name \_\_\_\_\_  
Telephone Number \_\_\_\_\_  
Comments \_\_\_\_\_  
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Signature \_\_\_\_\_

## CONDITIONS OF SALE

### 1. DEFINITIONS

"Buyer" means the person who accepts a quotation of the Company for the sale of the Goods or whose order for the Goods is accepted by the Company.

"Company" means Thermo Q.

"Conditions" means the terms and conditions of sale set out in this document and any other terms and conditions agreed in writing by the Company and the Buyer.

"Contract" means the contract for the purchase and sale of the Goods.

"Goods" means the goods which the Company is to supply and which the Buyer agrees to buy in accordance with these conditions.

"Price" means the price for the Goods including transport and insurance (if any).

1.1 Any reference in these Conditions to any provision of a statute shall be construed as a reference to that provision as amended-repealed or extended at the relevant time.

1.2 In any of these Conditions are for convenience only and shall not affect their interpretation.

### 2. BASIS OF SALE

2.1 The Company shall sell and the Buyer shall purchase the Goods in accordance with the following conditions:

2.1.1 The Company's quotation (if provided) by the Company and accepted by the Buyer; or

2.1.2 The Company does not submit a quotation and following a request or purported order from the Buyer for Goods) in accordance with the Company's offer to the Buyer (if accepted by the Buyer) subject in either case to these Conditions, which shall govern the Contract to the exclusion of any other terms, subject to which any such quotation or offer is accepted, or purported to be accepted.

2.2 Any variation to these Conditions (including any special terms and conditions agreed between the parties) shall be inapplicable unless agreed in writing by the Company and the Buyer.

2.3 Any advice or recommendation given by the Company or its employees or agents to the Buyer or its employees or agents as to the storage application or use of the Goods which is not confirmed in writing by the Company is followed or acted on solely at the Buyer's own risk and the Company shall not be liable for any such advice or recommendation which is not so confirmed.

2.4 Any typographical clerical or other error or omission in any sales literature quotation price list acceptance of offer invoice or other document or information issued by the Company shall be subject to correction without any liability on the part of the Company.

2.5 All specifications, drawings, particulars of weight and dimension and performance data contained in any of the Company's literature are approximate only.

2.6 The Company reserves the right to improve and/or modify any specifications, designs and dimensions without notice.

2.7 The Company does not accept these Conditions or any Contract shall confer on any third party any benefit nor the right to enforce any term of these Conditions or any Contract whether pursuant to the Contracts (Rights of Third Parties) Act 1999 or otherwise.

### 3. THE PRICE AND PAYMENT

3.1 The Price shall be either:-

3.1.1 The Company's quoted price which shall only be valid for 30 days from its date of issue which time period may be altered by the Company and shall be subject to the Company's quotation.

3.1.2 Where no price has been quoted the Price listed in the then current price list of the Company sent by the Company to the Buyer from time to time.

3.2 The Company's quotation may be altered by the Company and shall be subject to the Company or otherwise agreed in writing between the Buyer and the Company, all prices are given by the Company to include the Company's charges for transport and insurance.

3.3 The Company and any terms payable by the Buyer to the Company is exclusive of any applicable Value Added Tax, which the Buyer shall be additionally liable to pay to the Company.

3.4 [Subject to any special terms agreed in writing between the Buyer and the Company] the Company may request the Price of the Goods on or at any time after delivery of the Goods, (for any instalment of the Goods) unless the Goods are to be collected by the Buyer or the Buyer wrongfully fails to take away the Goods, in which event the Company shall be entitled to increase the Buyer's Price at any time after the Company has notified the Buyer that the Goods are ready for collection or (as the case may be) the Company has tendered delivery of the Goods.

3.5 The Buyer otherwise agreed in writing, payment of the Price and VAT shall be due within the agreed period from the date of the invoice without deduction or set off. Time for payment shall be of the essence.

3.6 If the Buyer fails to make any payment on the due date then without prejudice to the Buyer's other right or remedy available to the Company the Company shall be entitled to:

3.6.1 cancel the contract or suspend any further deliveries to the Buyer

3.6.2 appropriate any payment made by the Buyer to such of the Goods (or the Goods) as the Buyer has specified or to which the Company as the Company may think fit (notwithstanding any purported appropriation by the Buyer) and

3.6.3 charge the Buyer interest (both before and after any judgement) on the amount due at the rate of 8% per cent per annum above Barclays Bank PLC base rate from time to time until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest)

### 4. WARRANTIES

4.1 The quantity and description of the Goods shall be as set out in the Company's quotation or in the Company's offer (as the case may be) and

4.1.2 the quality and specification for the Goods shall be as set out in the Company's quotation or (where there is no quotation) in the Company's literature and brochure for the Goods in question.

4.2 The Buyer shall be responsible to the Company for ensuring the accuracy of the terms of any order and any information supplied for the Company as to its requirements (including any specifications to which the Goods are to be put and any applicable specification) submitted by the Buyer and for giving the Company any necessary information relating to the Goods within a sufficient time to enable the Company to perform the Contract in accordance with its terms.

4.3 The Company's liability for any loss or damage to the Goods or to the Buyer by the Goods by the Company in accordance with a specification submitted by the Buyer the Buyer shall indemnify the Company against all losses damages, costs, claims, and any liabilities and any expenses awarded against or incurred by the Company in connection with or paid or agreed to be paid by the Company in settlement of any claim for infringement of any patent copyright design trade mark or other industrial or intellectual property rights of any other person which results from the Company's use of the Buyer's specifications or from compliance by the Company with the Buyer's instructions whether express or implied.

4.4 No order which has been accepted by the Company may be cancelled by the Buyer except with the agreement in writing of the Company and on terms that any such order shall be subject to the Company's quotation or offer (as the case may be) and the Company in full against all loss (including loss of profit) costs (including the cost of all labour and materials used) damages charges and expenses incurred by the Company in carrying out any work in respect of the Goods or otherwise as a result of the Buyer's order.

4.5 All designs, sketches, or similar articles supplied by or submitted in confidence by the Company shall remain the property of the Company and may not be disclosed or used for any purpose whatsoever reproduced by the Buyer without the prior written consent of the Company.

### 5. DELIVERY OF GOODS

5.1 Unless otherwise agreed in writing the Company shall deliver the Goods to such of the addresses as specified by the Buyer to the Company as such time as the Goods or part thereof (as the case may be) are ready for delivery.

5.2 The Buyer shall be responsible for offloading the Goods at the delivery address and shall advise the Company of any local or internal laws, bylaws or rules relating to unloading or offloading of vehicles at the delivery address.

5.3 The Buyer shall be responsible for ensuring that access to the delivery address is wholly by a road with a surface capable of withstanding the weight and size of a vehicle carrying the Goods.

5.4 Unless otherwise agreed in writing the Goods are approximate only and the Company shall not be liable for any delay in delivery of the Goods however caused Time for delivery shall not be of the essence unless previously agreed by

the Company in writing The Goods may be delivered by the Company in advance of the Delivery Date upon giving reasonable notice to the Buyer

5.5 Where the Goods are to be delivered in instalments each delivery shall constitute a separate contract and failure by the Company to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the whole of the order as a repudiation of the Contract.

5.6 If the Buyer fails for any reason whatsoever to take delivery of the Goods or fails to give the Company adequate delivery instructions at the time stated for delivery (otherwise than by reason any cause beyond the Buyer's reasonable control) the Buyer shall be liable to pay to the Company the full price of any other right or remedy available to the Company the Buyer may.

5.6.1 store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of returning the Goods to the Company's premises, storage and for transport, packaging and insurance for re-delivery of the Goods; or

5.6.2 sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) account to the Buyer for the excess over the price actually received by the Buyer for any shortfall below the Price.

5.8 Goods may not be returned to the Company except by prior written permission of an authorised officer of the Company and such return shall be subject to payment by the Buyer of unloading and re-stocking charges, transport and insurance for the Goods and failure by the Buyer to do so.

### 6. RISK AND RETENTION OF TITLE

6.1 Goods supplied by the Company shall be at the Buyer's risk immediately upon delivery to the Buyer or its custody on the Buyer's behalf or to the Buyer's Order. The Buyer shall effect adequate insurance of the goods against all risks to the full invoice value of the goods, such insurance to be effective from the time of delivery until property in the goods shall pass to the Buyer as hereinafter provided.

6.2 Property in the goods supplied hereunder will pass to the Buyer when full payment has been made by the Buyer to the Company for:-

6.2.1 the goods of the subject of this contract.

6.2.2 all other goods the subject of to any other contract between the Buyer and the Company in respect of which the full price of the goods sold under this contract, have been delivered to the Buyer but not paid for in full.

6.3 Until property in the goods supplied hereunder passes to the Buyer in accordance with paragraph (3) above

6.4 the Buyer shall hold property in a fiduciary capacity for us and shall store the same separately from any other goods in the Buyer's possession and in a manner which enables them to be identified as our goods.

6.5 The Buyer shall immediately return to the Company should the Company's authorised representative so request. All the necessary incidents associated with a fiduciary relationship shall apply.

6.4 the Buyer's right to possess the goods shall cease forthwith upon the time the Buyer charges the Buyer for any shortfall below the Price.

6.4.1 If the Buyer fails to make payment in full for the goods within the time stipulated in clause 3 hereof.

6.4.2 If the Buyer, not being a company, commits any act of bankruptcy, makes a proposal to his or her creditors for a compromise or does anything which would entitle a petition for a Bankruptcy Order to be presented.

6.4.3 If the Buyer, being a company, does anything or fails to do anything which would entitle a petition for an administration order to be presented or the possession of any assets or which would entitle any person to present a petition for winding up or to apply for an administration order.

6.5 The Buyer hereby grants to the Company an irrevocable licence to enter at any time to charge the Buyer's goods in the possession or control of the Buyer for the purposes of repossessing and recovering any such goods the property in which has remained in the Company under paragraph (2) above.

The Company shall not be responsible for and the Buyer will indemnify the Company for any loss or damage caused by the Buyer's failure to comply with this clause. Repossession and removal being damaged which was not reasonably practicable to avoid.

6.6 notwithstanding paragraph (4) hereof and subject to paragraph (5) hereof, the Buyer shall be deemed to have accepted the goods in the normal course of business. In this respect the Buyer shall act in the capacity of the Companies commission agent and the proceeds of such sale :-

6.6.1 shall be held in trust for us in a manner which enables such proceeds to be identified as such, and

6.6.2 shall not be mixed with other monies nor paid into an overdraft bank account. The Company, as principal, shall remunerate the Buyer as commission broker for the sale of the goods and the proceeds of such sale shall be as set out and above the sum, stipulated in this contract of supply which will satisfy the Company.

6.7 in the event that the Buyer shall sell any of the goods pursuant to clause (5) hereof, the Company shall be deemed to have accepted the goods in the normal course of the identity and address of the third party to whom the goods have been sold.

6.8 if, before property in the goods passes to the Buyer under paragraph (3) above the goods are or become affixed to any land or building owned by the Buyer it is deemed that the Buyer has declared that such affixation shall not have the effect of passing property in the goods to the Buyer. Furthermore, if, before property in the goods shall pass to the Buyer under paragraph (3) hereof, the goods are or become affixed to any land or building (whether or not owned by the Buyer), the Buyer shall be deemed to have accepted the goods in the normal course of business.

6.8.1 ensure that the goods are capable of being removed without material injury to such land or building.

6.8.2 take all necessary steps to prevent title to the goods from passing to the landlord of such land or building.

6.8.3 forthwith inform the Company in writing of such affixation and of the address of the land or building concerned. The Buyer warrants to repair and make good any damage caused by the affixation of the goods to or their removal from any land or building and to indemnify the Company against all loss damage or liability the Company may incur or sustain as a result of affixation or removal.

6.9 in the event that, before property in the goods has passed to the Buyer under paragraph (3) hereof, the goods or any of them are lost, stolen, damaged or destroyed -

6.9.1 the Buyer shall forthwith inform the Company in writing of the fact and circumstances of such loss, theft, damage or destruction.

6.9.2 take all necessary steps to prevent title to the goods from passing to the landlord of such land or building.

6.9.3 the Buyer shall indemnify the Company against all loss damage or liability the Company may incur or sustain as a result of affixation or removal.

6.9.4 in the event that, before property in the goods has passed to the Buyer under paragraph (3) hereof, the goods or any of them are lost, stolen, damaged or destroyed -

6.9.5 the Buyer shall forthwith inform the Company in writing of the fact and circumstances of such loss, theft, damage or destruction.

6.9.6 take all necessary steps to prevent title to the goods from passing to the landlord of such land or building.

6.9.7 the Buyer shall indemnify the Company against all loss damage or liability the Company may incur or sustain as a result of affixation or removal.

7. **WARRANTIES AND LIABILITY - FOR PRODUCTS INSTALLED IN THE UK ONLY**

7.1 The Company warrants that the Goods will be free from any defect and will be free from defects in material and workmanship for a period of 24 months from their delivery to the Buyer, unless a period of different duration is specified in the product installation instructions in respect of that product and/or its specific variant. This warranty shall not apply to any defect caused by misuse or abuse.

7.2 The warranty in clause 7.1 is given by the Company subject to the following conditions:

7.2.1 the Company shall be under no liability in respect of any defect in the Goods arising from any information drawing design or specification supplied by the Buyer.

7.2.2 the Company shall be under no liability in respect of any defect arising from fair wear and tear, willful damage, negligence, abnormal working conditions failure to follow the product installation instructions, or any misuse, abuse, misuse, alteration or repair of the Goods without the Company's approval.

7.2.3 the Company shall not be liable for any consequential damage(s) occurred during the period of the warranty, contract or in writing) misuse or abuse of the Company's Goods. Any such costs incurred shall be claimed by the Buyer or the Buyer's customer's insurance party.

7.2.4 the above warranty does not extend to parts materials equipment not made by or for the Buyer, or to any defect in the Goods which is due to the benefit of any such warranty or guarantee as is given by the manufacturer to the Company.

7.3 The Buyer shall not make any statement or representation or give any warranty or guarantee in writing or otherwise in relation to the Goods which is not made by the Company to the Buyer in these Conditions nor shall the Buyer have any authority to commit the Company to provide any service in relation to the Goods.

The Buyer shall indemnify the Company against all losses, damages, costs, claims, and any liabilities and any expenses awarded against or suffered by the Company or arising out of any such statement, representation or warranty made or given by the Buyer in contravention of this clause.

7.4 The Company's liability to the Buyer -

7.4.1 death or injury resulting from its own or that of its employees' agents' or subcontractors' negligence; and

7.4.2 damage suffered by the Buyer as a result of any breach of the obligations implied by Section 12 of the Sale of Goods Act 1979 shall not be limited

7.5 Subject as expressly provided in these Conditions all other warranties (including express or implied terms whether by statute or common law or otherwise are hereby excluded

7.6 If the Company fails to deliver the Goods for any reason other than any cause beyond the Company's reasonable control or the Buyer's fault then the Company shall be liable to return the Buyer's Price as the full price of the Goods plus the excess (if any) of the cost to the Buyer (in the cheapest available market) of similar goods to replace those not delivered over the Price of the Goods.

7.7 The Buyer shall examine all Goods delivered forthwith following delivery. Any claim by the Buyer in respect of any defect or failure of the defect or failure of the Goods or their failure to correspond with specification shall (whether or not delivery is refused by the Buyer) be notified to the Company within 7 days from the date of delivery or (where the defect or failure was not apparent on reasonable examination) within 7 days after the discovery of the defect or failure. If delivery is not refused and the Buyer does not notify the Company accordingly the Buyer shall not be entitled to reject the Goods and the Company shall have no liability in respect of the defect or failure of the Goods or their failure as if the Goods had been delivered in accordance with the Contract in no event shall the Buyer be entitled to reject the Goods on the basis of any defect or failure which is so slight that it would be unreasonable for the Buyer to reject them.

7.8 The Company shall be entitled to examine the Goods which are the subject of any claim by the Buyer and to remove such Goods or any part thereof for testing. No tests carried out by the Buyer will be recognised by the Company unless carried out strictly in accordance with a method previously agreed by the Company as being acceptable for the purposes of the Contract.

7.9 Where any valid claim in respect of any of the Goods which is based on any defect in the quality or condition of the Goods or their failure to meet specification is notified to the Company in accordance with these Conditions the Company shall be liable to repair or replace the Goods (or the part of the goods) free of charge or at the Company's sole discretion refund to the Buyer the Price (or a proportionate part of the Price) but the Company shall have no further liability to the Buyer.

7.10 Where failed Goods are returned to the Company and subsequently found to have no fault found or failed due to reason(s) outside these terms and conditions, the Company reserves the right to claim any subsequent costs entailed, including those for the return of the Goods to the Buyer.

7.11 Without prejudice to the provisions of clauses 7.5, 7.6, 7.7, 7.9 and 7.10 the entire liability of the Buyer under or in connection with the Contract shall not exceed the Price of the Goods.

7.12 The Company shall be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing or any failure to perform any of the Company's obligations in relation to the Goods if the delay or failure was due to any cause beyond the Company's reasonable control. Without limiting the generality of the foregoing shall be regarded as causes beyond the Company's reasonable control:

7.12.1 act of god, explosion, flood, tempest, or inclement weather, fire or other natural causes;

7.12.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;

7.12.3 acts, restrictions, regulations, by-laws, prohibitions or measures of any kind on the part of any Governmental, Parliamentary or Local Authority;

7.12.4 imports or exports of any kind of goods or the part of the goods;

7.12.5 strikes, lockouts or other industrial action or trade disputes (whether employees of the Company or of a third party);

7.12.6 difficulties in obtaining raw materials, labour, fuel, power or machinery;

7.12.7 difficulties in obtaining or repairing tele-communications lines, failure or breakdown of plant, machinery or vehicles;

7.12.8 theft or malicious damage;

7.12.9 defaults for any reason whatsoever of suppliers or sub-contractors of the Company;

7.12.10 incompleteness or inaccuracy of any technical information which it is the responsibility of the Buyer to provide

### 8. INSOLVENCY OF THE BUYER

8.1 This clause applies if:

8.1.1 The Buyer makes any composition or voluntary arrangement with its creditors (being an individual or firm) becomes bankrupt or (being a company) is subject to a liquidation or a moratorium comes into force in respect of administration or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction) or a moratorium comes into force in respect of the Buyer (within the meaning of the Insolvency Act 1986); or

8.1.2 an enforcement trustee, possession or a receiver or manager or administrative receiver or administrator is appointed of any of the property or assets of the Buyer; or

8.1.3 the Buyer ceases or threatens to cease to carry on business or

8.1.4 the Company reasonably apprehends that as a result of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly

8.2 If this clause applies then without prejudice to any other right or remedy available to the Company the Company shall be entitled to stop any Goods in transit, cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer and if the Goods have been delivered but not paid for the Price shall become immediately due and payable notwithstanding any other terms or conditions of the Contract.

### 9. HEALTH AND SAFETY INFORMATION

The Buyer agrees and undertakes with the Company to ensure that the provisions of all instruction manuals including health and safety instructions and any other information or document relating to the use of the Goods provided by the Company with the Goods are fully implemented so as to ensure so far as is reasonably practicable that the Goods will be safe and without risk to health at all times, when it is being installed, used, cleaned or maintained by a person at work and

that all such manuals, instructions or documents remain with the Goods.

### 10. GENERAL

10.1 The Contract is personal to the Buyer which may not assign or dispose of any of its rights or obligations or otherwise delegate any of its obligations under the Contract.

10.2 The Company shall be entitled to assign its rights and obligations under the Contract and to sub-contract or otherwise delegate any of its obligations under the Contract.

10.3 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing including a facsimile addressed to that other party at a registered office or principal place of business or such other address as may at the time be notified in writing to the other party by the party to which the notice and shall be deemed to have been received by the party to whom it was addressed, if by facsimile upon its transmission if during a normal business day and otherwise on the next business day at 9 sent by post, 24 hours after the time of posting.

10.4 No waiver by the Company of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision 10.5 If any provision of these Conditions is held by a Court or other competent authority to be unenforceable, the enforceability of the remainder of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

10.6 The Contract shall be governed by the law of England and 10.7 The parties hereby submit to the non-exclusive jurisdiction of the English courts.

10.8 The Buyer shall indemnify the Company for all costs and damages, including legal costs, which the Buyer may incur as a result of the Buyer's actual or treated breach of these terms and conditions.

### 11. INFORMATION

The Company will provide the Buyer on request with information as to the proper use of the Goods and the use of the Goods in compliance with the Company's instructions or other information relating to the use of the Goods.

**Specific product warranty terms are available on request.**

**Terms & Conditions may change without prior notice being given, for up to date Terms please visit [www.rmcylinders.com/terms](http://www.rmcylinders.com/terms).**

Essential Cylinder Information
Maximum water supply pressure - <b>16 Bar</b>
Immersed electric element rating - <b>3kW</b>
Operating pressure - <b>3 Bar</b>
Expansion vessel charge pressure - <b>3 Bar</b>
Expansion valve setting - <b>6 Bar</b>
Set opening pressure of combined T&P valve - <b>7 Bar</b>
Storage capacity - <b>See cylinder info table</b>
Mass of unit - <b>See cylinder data table</b>
Immersion heater length - <b>14"</b>
Maximum primary pressure (indirects only) - <b>3 Bar</b>

Standard Cylinder Data Table		Capacity (Litres)	Weight (Kg)(Empty)
Evocyl 90	Direct	90	21
	Indirect	88	23
Evocyl 120	Direct	120	26
	Indirect	118	30
Evocyl 150	Direct	150	33
	Indirect	148	38
	Direct Solar	148	38
	Solar Twin	147	40
Evocyl 180	Direct	180	38
	Indirect	178	42
	Direct Solar	178	42
	Solar Twin	177	45
Evocyl 210	Direct	210	41
	Indirect	208	45
	Direct Solar	208	45
	Solar Twin	207	48
Evocyl 250	Direct	250	46
	Indirect	248	51
	Direct Solar	248	51
	Solar Twin	247	53
Evocyl 300	Direct	300	55
	Indirect	298	60
	Direct Solar	298	60
	Solar Twin	297	63

Slimline Cylinder Data Table		Capacity (Litres)	Weight (Kg)(Empty)
Evocyl 60	Direct	60	21
	Indirect	58	23
Evocyl 90	Direct	120	25
	Indirect	118	27
Evocyl 120	Direct	150	31
	Indirect	148	36
Evocyl 150	Direct	180	39
	Indirect	178	45
	Direct Solar	178	47
	Solar Twin	177	49
Evocyl 180	Direct	210	45
	Indirect	208	50
	Direct Solar	208	53
	Solar Twin	207	55
Evocyl 210	Direct	250	48
	Indirect	248	53
	Direct Solar	248	55
	Solar Twin	247	58

### Therma Q

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