

Prostel INSTALLATION MANUAL ISSUE 2014-V1

FOR MORE INFORMATION GO TO: WWW.RMCYLINDERS.COM





INTRODUCTION

The corrosion resistant Prostel 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 5 sizes from 150 - 300 litres.

To help ensure compliance with the relevant Water and Building Regulations all Prostel 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.

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

STORAGE PRIOR TO INSTALLATION

Prostel 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.

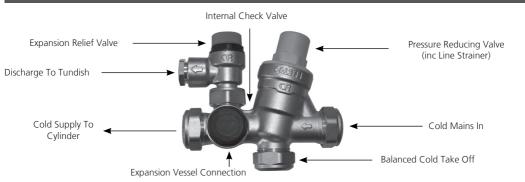
ONCE COMPLETED THIS INSTRUCTION MANUAL IN ITS ENTIRETY SHOULD BE LEFT WITH THE HOME OWNER.

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

COLD INLET SET - WHAT ARE THE CONNECTIONS?



EQUIPMENT SUPPLIED WITH THE CYLINDER

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

WATER SUPPLY

Prostel 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 it greater than 200ppm, if required adjust cylinder temperature to below 60 degrees.

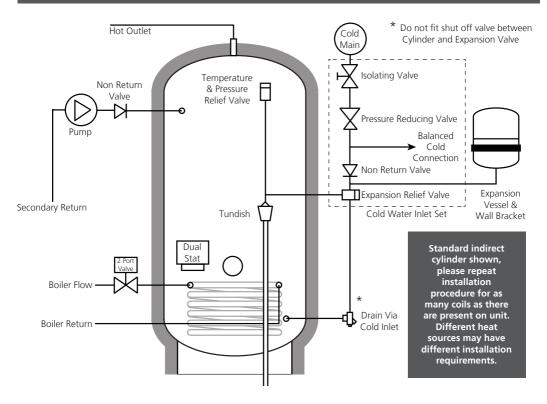
SITING THE UNIT

Prostel 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 Prostel, 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.

Prostel 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 Prostel 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 Prostel 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

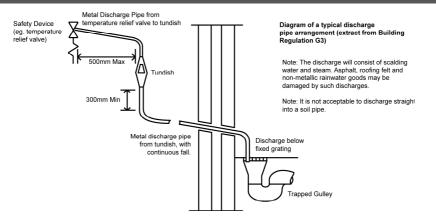
As a requirement of Building Regulations the Prostel immersion heaters are fitted with thermal cut-out in addition to the normal control thermostat. To help ensure correct replacement the immersion heaters have a special 13/4" thread. They are of a low noise Incoloy construction and rated at 3 kW at 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 2.5mm2 heat resistant (85°C HOFR) 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 Prostel 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. 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 gulley.
- 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 Prostel 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.

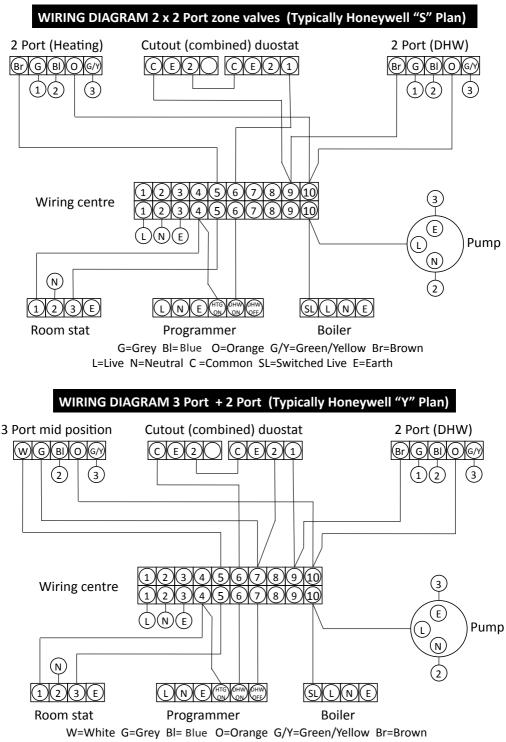
LOWER COIL - SOLAR VARIENT

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 **Prostel** 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.



L=Live N=Neutral C =Common SL=Switched Live E=Earth

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 Prostel 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 **Prostel**. 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 RM Cylinders. 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.

 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!

- 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 Prostel 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 RM Cylinders.
- 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 Prostel 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 Prostel 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 Prostel 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

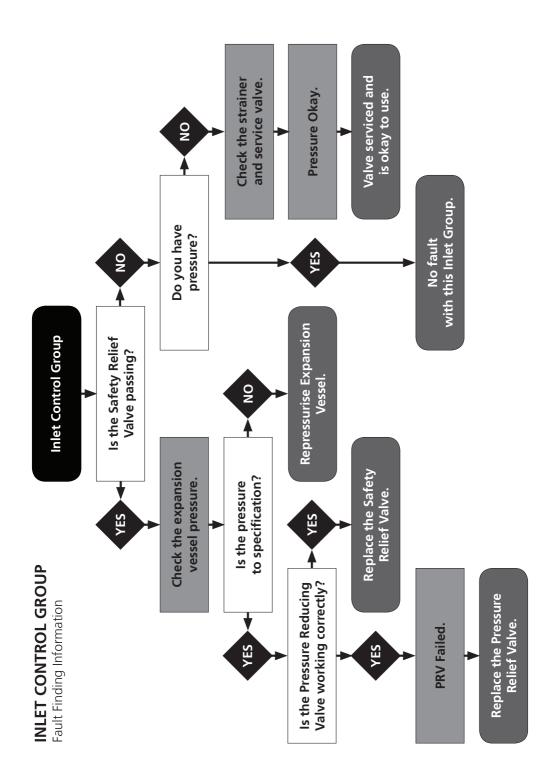
Fault Finding Information

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

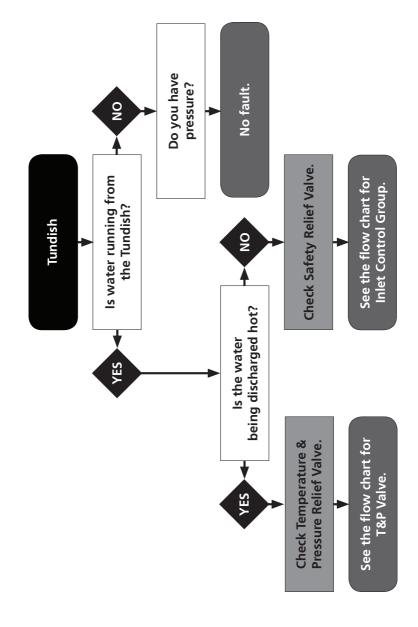
EXPANSION VESSEL

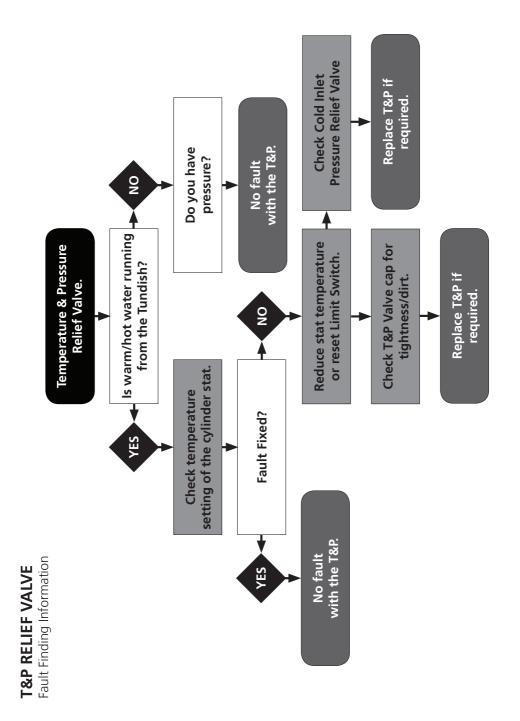
Fault Finding Information

Symptoms.	Possible Causes	Follow up action.	
	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.	
Discharge of water from the Relief Valve.	Membrane is ruptured and may require replacement.	Replace membrane or entire vessel Inspect Shrader valve for leaks o 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.	
	Failure of Flange Plate.	Replace Flange Plate or entire Vessel.	
Leak from Flange or Water	Loss of torque in Flange retaining bolts.	Re-tighten bolts as needed.	
Connection.	Ruptured membrane has caused corrosion of vessel body resulting in pinhole leak.	Entire Vessel must be replaced. Inspect Shrader valve for leaks or damage.	
Vessel appears to be fully of liquid when system is cold.	Membrane is de-pressurised.	Replace membrane or entire vessel. Inspect Shrader valve for leaks or damage.	
Water is discharged from vessel when Shrader pin is de-pressed for inspection of air pressure.		Membrane or vessel requires replacement.	

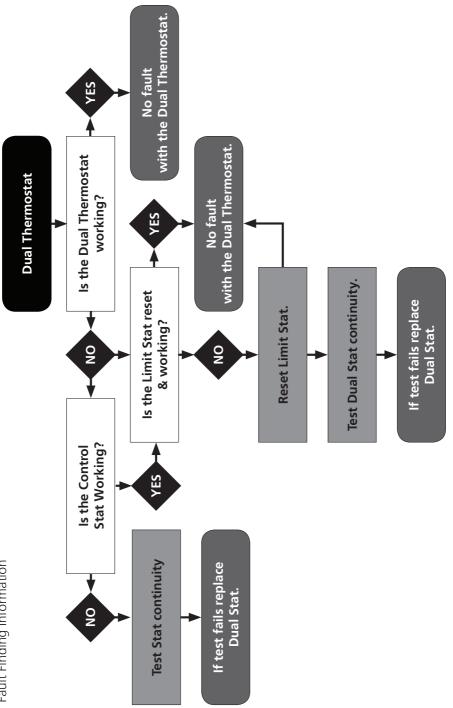




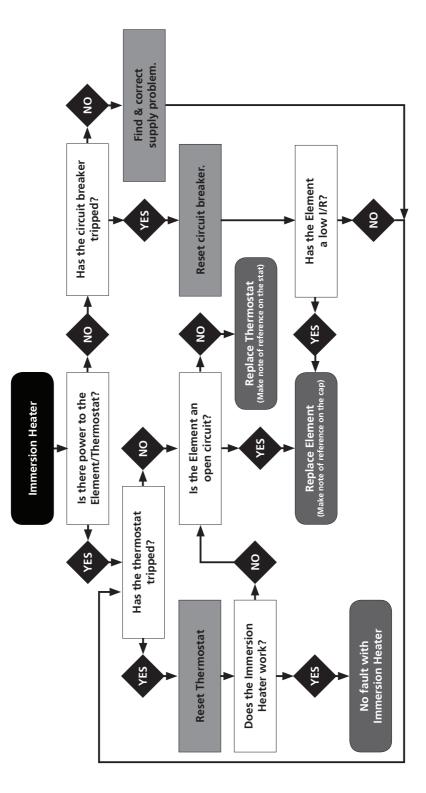




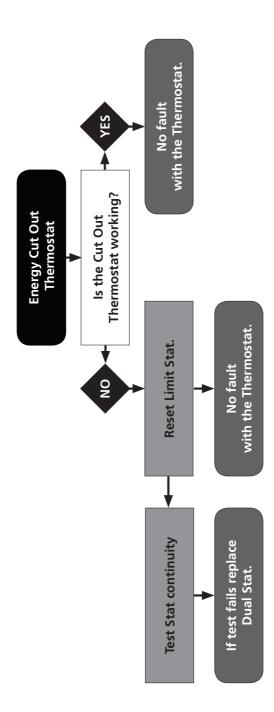




IMMERSION HEATER Fault Finding Information







MAINS PRESSURE HOT WATER STORAGE SYSTEM COMMISSIONING CHECKLIST

This Commissioning Checklist is to be completed in full by the competent person who co demonstrating compliance with the appropriate Building Regulations and then handed	
Failure to install and commission this equipment to the manufacturer's instructions may	/ invalidate the warranty but does not affect statutory right
Customer Name	Telephone Number
Address	
Cylinder Make and Model	
Cylinder Serial Number	
Commissioned by (print name)	Registered Operative ID Number
Company Name	Telephone Number
Company Address	Commissioning Data
To be completed by the customer on receipt of a Building Regulations Compliance Certificate Building Regulation Notification Number (if applicable)	Commissioning Date
ALL SYSTEMS PRIMARY SETTINGS (indirect heating only) Is the primary circuit a sealed or open vented system?	Sealed Open
What is the maximum primary flow temperature?	
mile is the maximum primary non competence:	
ALL SYSTEMS	
What is the incoming static cold water pressure at the inlet to the system?	L L
Has a strainer been cleaned of installation debris (if fitted)?	Yes No
Is the installation in a hard water area (above 200ppm)?	Yes No
If yes, has a water scale reducer been fitted?	Yes No
What type of scale reducer has been fitted?	
What is the hot water thermostat set temperature?	
What is the maximum hot water flow rate at set thermostat temperature (measured at high flo	w outlet)?
Time and temperature controls have been fitted in compliance with Part L of the building Regul	
Type of control system (if applicable)	Y Plan S Plan Other
Is the cylinder solar(or other renewable compatible)?	Yes No
What is the hot water temperature at the nearest outlet?	•
All appropriate pipes have been insulated up to 1 meter or the point where they become conce	ealed Yes
UNVENTED SYSTEMS ONLY	
Where is the pressure reducing valve situated (if fitted)?	
What is the pressure reducing valve setting?	b
Has a combined temperature and pressure relief valve and expansion valve been fitted and disc	
The tundish and discharge pipework have been connected and terminated to Part G of the Build	
Are all energy sources fitted with a cut out device?	Yes No
Has the expansion vessel or internal air space been checked?	Yes No
THERMAL STORES ONLY	
What store temperature is achievable?	
What is the maximum hot water temperature?	
ALL INSTALLATIONS	
The hot water system complies with the appropriate Building Regulations	Yes
The system has been installed and commissioned in accordance with the manufacturer's instruct	tions Yes
The system controls have been demonstrated to and understood by the customer	Yes
The manufacturer's literature, including Benchmark Checklist and Service Record, has been expl	lained and left with the customer Yes
Commissioning Engineer's Signature	
Customer's Signature	
(To confirm satisfactory demonstration and receipt of manufacturer's literature)	
All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or thr	ough a Competent Persons Scheme

*All installations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Schem A Building Regulations Compliance Certificate will then be issued to the customer.



www.centralheating.co.uk

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	SERVICE 2 Date
Engineer Name	Engineer Name
Company Name	Company Name
Telephone Number	Telephone Number
Comments	Comments
Signature	Signature
SERVICE 3 Date	SERVICE 4 Date Engineer Name
Company Name	Company Name
Telephone Number Comments	Telephone Number Comments
conments	Comments
Signature	Signature
SERVICE 5 Date	SERVICE 6 Date
Engineer Name	Engineer Name
Company Name	Company Name
Telephone Number	Telephone Number
Comments	Comments
Signature	Signature
SERVICE 7 Date	SERVICE 8 Date
Engineer Name	Engineer Name
Company Name	Company Name
Telephone Number	Telephone Number
Comments	Comments
Signature	Signature
SERVICE 9 Date	SERVICE 10 Date
Engineer Name	Engineer Name
Company Name	Company Name
Telephone Number	Telephone Number
Comments	Comments
Signature	Signature

CONDITIONS OF SALE 1. DEFINITIONS

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

"Company" means RM Solar Limited. "Comditions" means RM Solar Limited. "Conditions" means the terms and conditions of sale set out in this document and any special 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) 1.2. Any reference in these Conditions to any provision of a statute shall be construed as a reference to that provision as amended re-enacted or extended at ant time

1.3 The hearlings in these Conditions are for convenience only and shall not affect

2. BASIS OF SALE

The Company shall sell and the Buyer shall purchase the Goods in accordance

2.1.1 the Company's quotation (if provided by the Company and accepted by

2.1.2 (if the Company does not submit a quotation and following a 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 Condition. 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

agreed reverse in the particle web state the mapping of the many and grave of the many and grave of the company or its employees or agents to the Buyer or its employees or agents to the storage application or use of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is followed or of the Goods which is not confirmed in writing by the Company is not confirm

on the docks which is hick commend in winning by the company solutions of the acted upon entries of the temperature of the solution of the solution of the be liable for any such advice or recommendation which is not so confirmed 2.4 Any typographical clerical or other error or orbitsion in any sales literature quotation price is a cceptance 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

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

2.7 For the avoidance of doubt nothing in 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

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 after which time the Price may be altered by the Company and shall be subject to the Company requoting; or

subject to the company requoring, or 3.12 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 Except as otherwise stated in the Company's quotation or in any price list of 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

Company, an prices are given by the Company to include the Company is for transport and insurance. 3.3 The Price and any other sums payable by the Buyer to the Company is of any applicable Value Added Tax, which the Buyer shall be additionally pay to the Company.

3.4 [Subject to any special terms agreed in writing between the Buyer and the S a pouglet to any spectate terms agreed in writing between the buyer and the Company, the company may invoice the Buyer for the Price of the Broce of the at any time after delivery of the Goods, (or any installment of the Goods on or the Goods are to be collected by the Buyer or onglith/ alits to take delivery of the Goods, in which event the Company shall be entitled to invoice the Buver for the Price at any time after the Company has notified the Buver that the Goods are ready for collection or (as the case may be) the Company has tendered

Goods are ready for collection or (as the case may be) the Company has tender delivery of the Goods. 3.5 Save as otherwise agreed in writing, payment of the Price and VAT shall due within the agreed period from the date of the invoice without deduction 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 any other right or remedy available to the Company the Company shall be to any oth 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

Social support of the second s

3.6.3 charge the Buyer interest (both before and after any judgement amount unpaid 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. THE GOODS

The quantity and description of the Goods shall be as set out in the 4.17 me quantity and version or the clock shall be as set out in the Company softer (is the case may be), and the quality and specification for the Goods shall be as set out in Company softer(subtion or (where there is no qualitorit) in the Company's literature and brochure for the Goods in question.

4.2 Life bytes shall be regulations to the Company for ensuing time actuary of the terms of any order and any information supplied for the Company as to its requirements (including but without limitation the use to which the Goods will be put and any applicable specification) submitted by the Buyer and for Company any necessary inperform the Contrast the Goods within a sufficient time to enable the Company to perform the Contrast the scordance with its terms.

to enable one Company to periodin the Contract in accordance winn its lemits of 4.3 if the Goods are to be manufactured or any process is to be applied to 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, demands, labilities and expenses awarded against or incurred by the Company in element of any and any agreed to be paid by the Company in settlement of any Connection wint by paid of agrees to be placet by the Contrary time tentere to a direct modulation of the contrary of the contrary of the contrary of the contrary to the Company's use of the Buyer's specification of 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

super except with the agreement in writing of the Company and on terms that any deposit paid shall not be respayable and that the buyer shall indominly 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 cancellation.

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 by nor used by nor coursed or otherwise reproduced by the Buyer without nt of the Company.

5. DELIVERY OF GOODS

5. DELYNERY OF GOODUS 5.1 Unless otherwise agreed in writing the Company shall deliver the Goods to such delivery address as is specified by the Buyer to the Company at 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, byelaws or rules relating to parking or loading 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 Any dates quoted for delivery of the Goods are approximate only and the Company shall not be liable for any delay in delivery of the Goods howsoever 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 installments each delivery shall constitute a separate contract and failure by the Company to deliver any one or ins or any claim by the ntitle the Buyer to treat nore of the installments in accordance with these Conditio Buyer in respect of any one or more ins the Contract as a whole as repudiated ents shall not entitle th

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 Tails to give the Company adequate dense instructions at the time stated to delivery (otherwise than by reason any cause beyond the Buyer's reasonable control or by reason of the Company's fault) then without prejudice to any other right or remedy available to the Company the Company 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

5.6.2 sell the Goods at the best price readily obtainable and (after deducting all

3.6.2 set ine books at the desi pilke reality duratable and value deducting an reasonable strange and selling operanes) account to the Buyer for the excess over the Price or charge 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 handling and re-stocking charges, transport red by the Company

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 into 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 fu 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. umu property in the goods shall pass to the Buyer as neterinater 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 to of any other contract between the Buyer and

5.2.2 are using globb in subject to 0 any other Contract Deriver in the solyte and the Company which, at the time of payment of the full price of the goods sold under this contract, have been delivered to the Buyer but not paid for in full. 63 until property in the goods supplied hereunder passes to the Buyer in accordance with paragraph (3) above. 63.11 the Buyer shall hold the goods 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. 6.3.2 the Buyer shall immediately return the goods to the Company should the Companies authorised representative so request. All the necessary incidents

Comparises administer impresentative so frequest, we use increasing inclusions associated with a flocking relationship shall apply. 6.4 the Buyer's right to possess the goods shall cease forthwith upon the happening of any of the following events, namely, -6.4.1 if the Buyer fails to make payment in full for the goods within the time stipulated in classe 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

entitie a petition for a Bankrupty Order to be presented. 6.4.3 if the Buyer, being a company, does anything or fails to do anything which would entitle an administrator or an administrative receiver or a receiver to take

would entitle an administrator or an administrator receiver or a receiver to take possession of any assets or which would entitle any presona to persent a petition for winding up or to apply for an administration order. 55 the Buyer hereby grants to the Company an irrevocable licence to enter at any time any vehicle or premises owned or occupied by the Buyer or in the possession of the Buyer for the purposes of negratory under paragraph (2) above. The property in which has remained in the Company under paragraph (2) above. The Company shall not be responsible for and the Buyer will indemnity the Company against liability in respect of diamage caused to any vehicle or premise in such reproduction and the responsible of which we not responsibly particulable company shall not remove being damaged which it was not responsibly particulable to avoid

6.6 notwithstanding paragraph (4) hereof and subject to paragraph (5) hereof, the So notwitts and using paragraph (a) needs and subject to paragraph (s) needs, use Boyers shall be permitted to sell the goods to third parties in the normal course of business. In this respect the Buyer shall back the capacity of the Companies commission agent and the proceeds of such sele ϵ . 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 overdrawn bank

6.6.2 shall not be model with other homes not paid into an overdrawn dank account. The Company, as principal, shall remunerate the Buyer can obtain over and above the sum, stipulated in this contract of supply which will satisfy the Company

Company. 6 7 in the event that the Buyer shall sell any of the goods pursuant to clause (5) hereof, the Buyer shall forthwith inform the Company in writing of such sale and 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 lind or building owned by the Buyer it is The globus are of become annexe to any land or building owned by the boyer its hereby agreed and declared that such affinization shall not have the effect of passing property in the goods to the Buyer. Furthermore fit, before property in the goods shall pass to the Buyer under paragraph (3) hereof, the goods are or become afficed to any land or building (whether or not owned by the Buyer), the Buver shall-

6.8.1 ensure that the goods are capable of being removed without material injury

 Section and the building.
 Section and the building.
 The section of such land or building.
 The section of such land or building. 6.8.3 forthwith inform the Company in writing of such affixation and of the

6.8.3 forthwith inform the Company in writing of such attraction 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 the Buyer shall assign to the Company the benefit of any insurance claim in respect of the onodes so loss their damage or destruction.

WARRANTIES AND LIABILITY - FOR PROUCTS INSTALLED IN THE UK ONLY

7.1 Subject to the following provisions, the Company warrants that the Goods 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 warranty terms, or specified components thereof. 7.2 The warranty in clause 7.1 is given by the Company subject to the following

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

7.2.2 the Company shall be under no liability in respect of any defect arising from fair wear and tear wilful damage negligence abnormal working conditions failure to follow the Company's instructions (whether oral or in writing) misuse or ration 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 to the Buyer, or the Buyer's customer's property, caused by failure of the Company's Goods. Any such costs incurred shall be claimed by the Buyer or the customer's insurance party

2.2.4 the above warranty does not extend to parts materials equipment not manufactured by the Company in respect of which the Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given by the manufacturer the Company

to the Company. 7.3 The Buyer shall not make any statement or representation or give any warranty to any third party in respect of any Goods other than in the terms made or given by the Company to the Buyer in these Conditions on 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, cost, claims, demands, liabilities and expenses incurred or suffered by the Company in respect anty made or gi of or arising out of any such statement, rep by the Buyer in contravention of this clause

7.4 The Company's liability to the Buyer for -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 conditions or terms whether implied 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

7.8 in the Company rais to derive the control or the Buyer's fault them any cause beyond the Company's reasonable control or the Buyer's fault them the Company shall only be liable to the Buyer for and the Company's liability shall be limited to 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

similar goods to replace those hot delivered over the rice of the soods 7.7 The Buyer shall examine all Goods delivered forthwith following delivery. Any claim by the Buyer which is based on any defect in the quality or condition 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 apaperent on reasonable spection) within a reasonable time after discovery of the defect or failure If delivery in or the description of 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 for such defect or failure and the Buyer shall be bound to pay the Price 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

the super be entitled to reject the usoos on the bass of any derect of nature which is so slight that it would be unreasonable for the Buyer to reject them 7.3 The Company shall be entitled to examine any Goods which are the subject of any claim by the Buyer and to renew 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

our structly in accordance with a method previously agreed by the Company as being suitable for the purpose. 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 entited to the Company in Decentration the Company in the Company is 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 subsequences certain and from the Buyer. 7.11 Without prejudice to the provisions of clauses 7.5, 7.6, 7.7, 7.9 and 7.10 the

ntire liability of the Buyer under or in connection with the Contract shall not exceed the Price of the Goods.

exceed the Price of the Goods. 7.12 The Company shall not 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 foregoing, the following shall be regarded as causes beyond the Company's mable control-

7.12.1 act of god, explosion, flood, tempest, or inclement weather, fire or

7.12.2 war or threat of war, sabotage, insurrection, civil disturbance or reguisition 7.122 and retrieval of war, sabotage, insurrection, old disturbance or requisitors, 7.123 acts, restrictions, regulations, by-lows, prohibitions or measures of any kind on the part of any Governmental, Parliamentary or Local Authority, 7.125 strikes, lockouts or other industrial action or trade disputs (whether employees of the Company or of a thrid parky); 7.125 priviles, lockouts or other industrial action or trade disputs (whether employees of the Company or of a thrid parky); 7.125 priviles, lauler of tele-communications lines, patience breakdown of Jul 20 Merter Providence Strange; 7.126 priviles in a service and actionations, patience breakdown of Jul 20 Merter Providence Strange;

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

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

This clause applies if

at all such man

GENERAL

11. INFORMATION

8.1 This clause applies it: 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) becomes subject to an administration order or seeks an out of court route into administration or goes into liquidation (otherwise than for the purposes of the purpose.) 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 encumbrancer takes possession or a receiver or manager or administrative receiver or administrator is appointed of any of the property or assets of the buyer,

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 oaid for the Price shall become immediately due and pavable notwithstanding any

The Buyer agrees and undertakes with the Company to ensure that the provisions

The super agrees and undertakes with the company to ensure that the provisions of all instruction manuals including health and astley 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

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 without the written consent of the Company.

Contract, without the further content of the company. 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 Under unse containers shall be in writing including a radiatine addressed to that other party at is registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party gring the notice and shall be deemed to have been received by the party to whom it was addressed, if sent by facsimile upon its transmission if during

a normal business day and otherwise on the next business day and if sent by post. a normal business day and otherwise on the next business day and if sent by post. 27 bours after 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 invalid or unenforceable in whole or in part the validity

of the other provisions of these Conditions and the remainder of the provision in

question shall not be affected thereby 10.6 The Contract and these Conditions shall be governed by the laws of England 10.7 The parties hereby submit to the non-exclusive jurisdiction of the English

10.8 The Buyer shall indemnify the Company for all costs and damages, including atomeys' fees, suffered by the Company as a result of the Buyers actual or threatened breach of these terms and conditions.

The Company will provide the Buyer on request with information as to the proper and safe use of the Goods and the Buyer shall at all times obey and comply with the Company's instructions or other information relating to the use of the Goods

Terms & Conditions may change without prior notice being given for up to date Terms please visit www.rmcylinders.com/terms.

Specific product warranty terms are available on request.

uals instructions or documents remain with the Good

diately due and payable notwithstanding any

8.1.3 the Buyer ceases or threatens to cease to carry on business or 6.1.5 the buyer ceases or intenties to cease to carry on Josines of a SI.4 the Company reasonably apprehends that any 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

previous agreement or arrangement to the contrary 9. HEALTH AND SAFETY INFORMATION

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

Maximum primary pressure (indirects only) - 3 Bar

Standard Cylinder Data Table		Capacity (Litres)	Weight (Kg)(Empty)
ProStel 150	Direct	150	33
	Indirect	148	38
ProStel 180	Direct	180	38
	Indirect	178	42
ProStel 210	Direct	210	41
	Indirect	208	45
ProStel 250	Direct	250	46
Prostel 250	Indirect	248	51
ProStel 300	Direct	300	55
	Indirect	298	60