

Installation Manual



SUMO Commercial Hot Water Systems

IMPORTANT INFORMATION AND WARNINGS

DANGER: Failure to operate the relief valve easing gear at least once every six months may result in the water heater exploding. Continuous leaking of water from the valve may indicate a problem with the water heater.

- The power supply must be protected by an individual circuit breaker at the main electrical supply switchboard and rated to suit the booster size.
- The supply to the solar water heater can be operated directly from the switchboard or via a remounted switch or time clock as requested by the customer.
- The heater must be provided with a suitable means for disconnecting the power supply.
- Appliance not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge that prevents them from using the appliance safely without supervision or instruction.
- Children should be supervised by a person responsible for their safety to ensure that they do not play with the appliance.
- The Installation must comply with the requirements of AS/NZS 3500.4 & AS/NZS 3000, and all local codes and regulatory authority requirements. In New Zealand, the installation must conform to the New Zealand Building Code G12

Use of this Manual

This manual contains easy to follow, step-by-step procedures for the correct assembly, installation, and safe operation of both SUMO - Eternity Plus and SUMO Pack systems.

Please take the time to read and understand the complete installation requirements as this will ensure a successful and trouble free installation. If you have any questions regarding the installation process, please contact your Chromagen Commercial Solutions representative on 1300 367 565.

Other Chromagen Commercial Solutions technical references for SUMO systems:

- o Hydraulic Manual
- o Operation Manual
- o Service Manual



SUMO Eternity Plus systems

SUMO Eternity Plus manifolded gas water heaters provide a simple and economical solution to your commercial water heating needs. The manifolding of multiple Eternity gas hot water units provides higher flow rates than single units. These can be installed with staging valves to enable a systematic "light up" of each unit only delivering hot water as required.

SUMO Eternity Plus systems are ideal for commercial applications of low, medium and high hot water demand.

SUMO Pack

SUMO Pack systems are pre-engineered and pre-manifolded modular systems combining continuous flow hot water heaters & water storage, ideal for peak demand applications where large volumes of hot water are required within a short period of time, such as morning and evening demands in apartment blocks and multidwelling developments. This combination of Eternity Plus gas water heaters plus hot water storage will deliver volumes to suit a small apartment block up to a multi-storey high rise building using 15-20,000 litres of water in the first hour delivery.

By including hot water storage you can improve the efficiency of your hot water system. Hot water storage minimises the extent and frequency of gas or electric boosting and so uses less energy, in turn providing lower operating costs.

SUMO Packs are available with a 2 to 6-unit Eternity Plus manifold system and one or more hot water storage tanks to suit most common commercial applications, from low storage requirement up to very high volume storage requirements. SUMO Packs are modular which means you can add storage tanks and units if necessary to cope with higher demands as they eventuate (as in the case of building on or extending).

SUMO Pack Operation Overview

Cold water enters the storage tank by passing through an isolation and non-return valve from the mains water supply. Cold water connects to the lower inlet of the storage tank and the other branch connects to the primary pump. Cold water is drawn from storage tank to the inlet of the Eternity Plus manifold by primary circulation pump. The Eternity gas water heaters will only operate when the pump is running.

The heated water from the Eternity gas water heaters then returns to the storage tank at the middle height of the tank located above the cold inlet. Hot water comes from the top of the tank. This may be circulated around the building and returned, via a ring main secondary pump to the cold manifold.

When there is a hot water draw-off, cold water enters the tank and pushes the hot water out of the tank towards the outlet. When the temperature in the tank drops to 61 °C (the thermostat set point), the thermostat activates the primary circulation pump(s). They draw water from the coldest part of the tank and circulate this through the gas boosters. This water is then heated by the Eternity gas water heaters and returns to the tank heated. This process is continued until the thermostat set point 65 °C is reached and the pump switches off.

The outlet temperature setting of the Eternity gas water heaters must be set at least 3 to 4 degrees higher than the thermostat set point.

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1.0 Pre-installation Information

SAFETY INFORMATION

Facts you need to know about the safe operation of your Chromagen water heater.

HOT WATER CAN BE DANGEROUS

Although Chromagen water heaters will generate hot water quickly and efficiently, all systems are temperature controlled and under normal family use will operate between 60°C and 70°C. However, water temperatures over 50°C can scald skin and so care must be taken to ensure that injuries do not occur through incorrect use of your water heater.

As required by the National Plumbing Code, a tempering valve MUST:

- Be fitted to the heater to prevent the water temperature delivery at all sanitary outlets exceeding a pre-set maximum (refer AS/NZS 3500.4).
- Be connected to the hot water outlet lines.
- o Be fitted at the time of system installation or in retrofitting to existing systems
- Be set by installing plumber as part of the commissioning process.



HOT WATER BURNS. AS A SAFETY PRECAUTION, YOUNG CHILDREN SHOULD NEVER BE ALLOWED TO OPERATE WATER HEATERS OF ANY TYPE.

Installation Standards

All Chromagen Solar Hot water systems must be installed by an authorised Plumber. All works must conform with:

- o Local authority standards,
- o AS/NZS 3000
- o AS/NZS 3500.4
- o The National Plumbing Code
- Local Electrical regulations.

Water quality

Chromagen "Open Loop" systems are suitable for use with water supplies with a total dissolved solid content less than 1000 ppm and which the total hardness does not exceed 200 ppm CaCO3. If the local water supply contains calcium hardness (CaCO3) exceeding 200 ppm, and an alkalinity in excess of 150 ppm, then a Chromagen "Closed Loop" system is recommended.

Your local water authority can supply a water analysis if required.

Water Pressure

The hot water storage tank has a pressure / temperature relief valve set at 1000 kPa (850kPa in a

Themosiphon system). The cold water inlet pressure should not exceed 800kPa (650 kPa in the Themosiphon system) which is 20% below the pressure relief valve setting.

SUMO Electrical connection requirements:

ALL ELECTRICAL CONNECTIONS MUST ADHERE TO LOCAL CODES AND BE UNDERTAKEN BY A QUALIFIED ELECTRICIAN.

Single booster on storage tank (SUMO1)

- o 2 x 240v power supply leads
- o Primary circulation pump plugged into digital thermostat controlled power outlet
- **o** 1 x 10 Amp GPO

Multiple booster units with a storage tank (SUMO2, 3, 4, 5, 6 etc)

- o Thermostat wired to pump switch on storage cylinder
- o Primary circulation pump plugged into digital thermostat controlled power outlet
- o 1 x Separate 15 Amp GPO for Eternity continuous flow gas water heaters

Multiple Storage Cylinder Installation

- o Two or more systems joined together to create a single larger system
- o Connections as per multiple booster units stated above

Solar Pre-heating systems

o 1 x 10 Amp GPO for solar controller

2.0 SUMO System Dimensions

Dimensions of Eternity Plus

Figure 1. Eternity Plus (Three gas booster) system.



Table 1. Installation specification of Eternity Plus

Model	A (mm)	Nominal Gas Consumption (MJ/h)	Dry Weight (kg)	Location
EP2	720	404	56	External
EP3	1080	606	74	External
EP4	1440	808	92	External
EP5	1800	1010	110	External
EP6	2160	1212	128	External

Dimensions of SUMO Pack

Figure 2. SUMO3 (Three gas booster) system with 300L tank



Table 2. Installation specification of SUMO pack

Model	A (mm)	Nominal Gas Consumption MJ/h)	Dry Weight (kg)	Location
SUMO1	695	202	109	External
SUMO2	1570	404	137	External
SUMO3	1930	606	155	External
SUMO4	2290	808	183	External
SUMO5	2650	1010	201	External
SUMO6	3010	1212	219	External



SUMO Frames

SUMO systems are supplied with rails that can be mounted to either a wall or a free-standing frame system which suit most applications.

Wall mounting brackets are bolted to the frame and are usually fastened to a masonry wall behind the unit. This method can be used where available to save space and provides excellent access to the system.

Alternatively if there is no suitable structure to mount the rails on, a free-standing skid style base (fitted with crane hooks) is available for securing to suitable structures beneath the skid. All systems must be secured in accordance with AS/NZS 1170.2 and local regulations.

Assembly of an Eternity Plus System

- Select the desired location for the Eternity gas continuous water heater making sure the final position is in accordance with AS/NZS 5601.1:2010 clearances (Figure 14).
- o Locate and mount the first Eternity unit into position, ensuring the unit is level
- Depending on the Eternity model being installed, continue to install each Eternity side-by-side until all have been mounted (Figure 3)
- o Remove the manifold from packaging and ensure all is complete
- Ensure all Eternity units are secure and level
- Eternity units must be mounted at a minimum of 5mm between each one

Figure 3. Mount the units side by side



- Starting from one end of the installed Eternity units, connect the relevant isolation valve supplied, making sure the plastic washer (supplied) is in place before securing (DO NOT TIGHTEN – YET!)
- o Connect the opposite end of the manifold in the same way
- o Connect either end first then all in between. Manifold supplied fully assembled



- If adding additional units, you will require 3 x barrel unions to enable easy connection between the 2 manifolds
- When you have connected all of the isolation valves to the bottom of the Eternity units, you can systematically tighten all the connections (making sure not to over tighten)
- Each manifold is supplied with a rapid rail that is connected to the manifold. This can now be secured to the rear wall
- Each manifold is also supplied with 3 x brass end caps. These can be used to cap off the opposite end of the manifold that has been connected
- Check system connections for leaks. Standard commissioning procedure should now be undertaken, after which the system can be activated
- o When all isolation valves are connected and tight, secure mount brackets to the rear wall

NOTE: When hot and cold water supplies are being connected, please ensure the COLD is connected from one end of the manifold and the HOT is connected to the opposite end of the manifold. This will ensure equal and even pressure across the manifold. (This is known as balancing the system shown in Figure 5)

Assembly of SUMO Pack

- Select the desired location for the Eternity units making sure the final position is in accordance with AS/NZS 5601.1.2010 clearances (Figure 14)
- o Locate and mount the first Eternity unit into position, ensuring the unit is level
- Depending on the SUMO Pack being installed, continue to install each Eternity unit side-by-side until all have been mounted (Figure 3)
- o Remove the manifold from packaging and ensure all is complete
- Starting from one end of the installed Eternity units connect the relevant isolation valve supplied, making sure the plastic washer (supplied) is in place before securing (DO NOT TIGHTEN YET!)
- o Then connect the opposite end of the manifold in the same way
- If installing anything with more units than a SUMO3 you will be supplied with 3 x barrel unions to enable easy connection between the 2 manifolds supplied
- When you have connected all of the isolation valves to the bottom of the Eternity units, you can systematically tighten all of the connections

IMPORTANT: DO NOT OVER TIGHTEN

- Each manifold is supplied with a rapid rail that is connected to the manifold. This can now be secured to the rear wall
- o The storage tank can be located remotely, either internally or externally
- The location of the primary flow and return pump must be installed on the cold supply to the Eternity units, ensuring the pump shaft is mounted horizontally
- The primary circulation pump must be energised into the GPO supplied by the digital controller
- o The digital controller has been factory set to maintain a tank temperature of 65°C
- Each manifold is also supplied with 3 x brass end caps. They can be used to cap off the opposite end of the manifold that has been connected
- o Check system connections for leaks
- Standard commissioning procedure should now be undertaken and system can be fired up

IMPORTANT: IF THE PUMP IS MOUNTED WITH THE SHAFT VERTICAL, THIS WILL VOID THE PUMP WARRANTY.

Figure 5. Mount the brackets to the wall



Figure 6. Illustration of installation of SUMO Pack



NOTE: For illustration purposes only. Please seek advice from Chromagen Commercial solutions on actual system requirements.

4.0 Mounting Solar Pre-heat Collectors

Standard (non-cyclone) Mounting Frames

In non-cyclonic areas a standard roof frame can be used to mount the solar collectors, these have been engineered to mount the panels but are only suitable for installation in wind regions A and B. Please refer to the instructions included with the kit for more details

- 1. Bolt both bottom angles #4 to the roof supports #5 with both bottom angles looking the same way.
- 2. Bolt the top angle #3 to the bottom angle #4 at the front with the top angle #3 facing the same way as the top angle #4 making sure the collector rail holes are on the top
- 3. Bolt the legs #6 on top of the bottom angle #4 and under the top angle #3 making sure the brace holes are positioned one top and one bottom
- 4. Bolt the Collector Rails top and bottom
- 5. Bolt the back brace #2 to the legs #6
- 6. Fit the collector/s and screw front and back

Items#	Length	Dimensions	Part Name	Quantity
1	1050mm	50mm x 50mm	Collector Rail	2
2	1070mm	30mm x 30mm	Back Brace	1
3	2200mm	30mm x 30mm	Top Angle LONG	2
4	1950mm	30mm x 30mm	Bottom Angle (short)	2
5	1050mm	100mm 15mm 15mm	Roof Support	2
6	1000mm	30mm x30mm	Square Leg	2
-	25mm	-	Bolts	10
-	50mm	-	Bolts	6
-	_	-	Nuts, Washers, Rail Screws	16

Figure 7. Standard Mounting Frame



Cyclone Mounting Frames

IMPORTANT: CYCLONE FRAMES MUST BE ASSEMBLED AND SECURED AS SPECIFIED ON THE INSTALLATION INSTRUCTIONS INCLUDED WITH THE KIT. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY.

Cyclone rated frames have been engineered and manufactured in accordance with AS/NZS 1170.2 and are suitable for installation in region C.

Figure 8. Cyclone Mounting Frame parts 9 9 1. Roof support 100 x 20 x 1.2 (x2) 2. Galv. Unistrut rails 40 x 20 x 1.2 (x2) 3. Collector rail (x2) 4. Collector rail (x2) 5. Tank straps (x2) 5. Tank straps (x2) 6. Unistrut M10 Bolts, Nuts & Washers (x6) 7. M10 Bolts, Nuts & Washers (x4) 8. Tank

9. Collector

10. Frame to battens fixings - refer to fixing details (8 fixings in total)

Notes:

- 1. Location of the unit to suit owner
- 2. Roof to be designed to carry 391 Kg (Total load of unit)
- 3. Maximum design uplift of 4.2 Kg per point

Limitations:

- 1. Max rafter spacing no greater than 900 C/C
- 2. Max height above ground permitted 5.0 m
- 3. Design for terrain category 2 1/2

Wind Load Parameters

- o Up to Region 'C'
- o (Tropical Cyclones)
- Basic wind speed V2=57 m/sec Vp=70 m/sec

Cyclone Mounting Frames Continued



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Fixing Cyclone Mounting Frames to a Support Structure



Thermosiphon Mounting Frames (for flat roofs)

- 1. Bolt the roof supports to the A Frames
- 2. Bolt the back brace to the A Frames
- 3. Fit and bolt the bottom collector rail to the A frames
- 4. Now position the collector on the frame and screw the front using the screws supplied.
- 5. Positin the Tank on the Frame allowing the tank to rest on the collector.
- 6. Using the back brackets and the strsps bolt the tank to the A frame

Items#	Length	Dimensions	Part Name	Quantity
1	2330	-	Frame	2
2	1000	50mm x50mm	Collector Rail	2
3	1170	30mm x30mm Back Brace		1
4	1800	100mm x 20mm x 20mm	Roof Support	2

Figure 12. Thermisphon Frame



Thermosiphon systems require specialised support when installed on to roof pitches below 10 degrees from horizontal. These frames are designed to support the weight of not only the panels but also the tank.





Ensure reasonable access for installation, servicing and removal. All valves, controls and pumps must be easily accessible. Tanks and frames must be mounted on a solid, level base capable of supporting the weight of the appliance when full of water.

Eternity gas continuous flow water heater flue terminals must be located in accordance with AS 5601.1:2010 Fig 6.2 "Location of balanced flue terminals".

Ref.	Item	Fan assisted Minimum clearances mm	
Ref.	Below eaves, balconies and other projections:		
а	Appliances up to 50 MJ/h input	200	
	Appliances over 50 MJ/h input	300	
b	From the ground, above a balcony or other surface *	300	
С	From a return wall or external corner *	300	
d	From a gas meter (M) (see Clause 5.11.5.9 for vent terminal location of regulator) (see Table 6.6 for New Zealand requirements)	1000	
е	From an electricity meter or fuse box (P)†	500	
f	From a drain pipe or soil pipe	75	
g	Horizontally from any building structure * or obstruction facing a terminal	500	
h	From any other flue terminal, cowl, or combustion air intake *	300	
j	Horizontally from an open-able window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
	Appliances up to 150 MJ/h input*	300	
	Appliances over 150 MJ/h input up to 200 MJ/h input*	300	
	Appliances over 200 MJ/h input up to 250 MJ/h input*	500	
	Appliances over 250 MJ/h input*	1500	
	All fan-assisted flue appliances, in the direction of discharge	1500	
k	From a mechanical air inlet, including a spa blower	1000	
n	Vertically below an open-able window, non-mechanical air inlet, or any ing with the exception of sub-floor ventilation:	other opening into a build-	
	Space heaters up to 50 MJ/h input	150	
	Other appliances up to 50 MJ/h input	500	
	Appliances over 50 MJ/h input and up to 150 MJ/h input	1000	
	Appliances over 150 MJ/h input	1500	

Table 3. Table of clearances

* Unless appliance is certified for closer installation.

† Prohibited area below electricity meter or fuse box extends to ground level. NOTES:

- 1 Where dimensions c, j or k cannot be achieved an equivalent horizontal distance measured diagonally from the nearest discharge point of the terminal to the opening may be deemed by the Technical Regulator to comply.
- 2 See Clause 6.9.4 for restrictions on a flue terminal under a covered area.
- 3 See Figure J3 for clearances required from a flue terminal to an LP Gas cylinder. A flue terminal is considered to be a source of ignition.
- 4 For appliances not addressed above acceptance should be obtained from the Technical Regulator.

Figure 14. Horizontal flue terminal clearance (extract from AS/NZS 5601.1:2010)



Flueing for Internal Models

The flueing system must be installed in accordance with:

- The instructions supplied with the flue terminal
- Local gas fitting regulations
- Building codes
- **o** AS5601
- Other relevant statutory regulations

NOTE: The flue terminal clearances in AS 5601 do not apply to Eternity gas continuous water heaters installed side-by-side. These appliances are AGA certified to be located side-by-side.

The flueing can be run in horizontal and vertical to a maximum of 12 metres, or with a maximum of three 90° bends.

The table below shows the maximum vent length and bend numbers. Each continuous water heater is flued individually.

Table 4	Maximum	vent	lenath
10010 4.	IVIAAIITIUITI	VELIL	Budu

Number of 90° elbow	Maximum vent length
3	7.0 m
2	8.8 m
1	10.7 m
0	12.0 m



Figure 16. Horizontal flueing installation diagram



6.0 Installation and Commissioning Instructions

Pre-install

- Installation should only be performed by suitably licensed persons in accordance with AS/NZS 3500, AS/NZS 3000, AS/NZS 5601 and applicable local regulations.
- Minimum and maximum pressures for gas and water must be observed.
- Gas pressure range for optimal operation between 1.13 2.75kPa (NG); 2.75 3.5kPa (LPG)
- Basic manifolding principles must be followed with water coming in one side of the manifold and exiting from the opposite side, this allows for even flow of water through the system and ensures all gas water heaters share the load.

Cold Water Supply

- o The COLD inlet of the tank required valves as to comply with AS 3500 and local regulations.
- o The inlet pressure is 500 kPa for maximum performance.
- A Pressure Limiting Valve must be fitted if the cold water inlet pressure is in excess of 500 kPa.

Hot Water Outlet

- The HOT water outlet pipe is a 32mm BSPT fitting on upper top of the storage tank. Isolation valves are required.
- o Insulation/lagging must be fitted to all hot water piping to minimise heat loss.

Building Return Pump

- Secondary or building return pumps may be installed in Eternity Plus & SUMO Pack systems.
- o Check valves must be fitted on the discharge.
- The return line from the building hot water supply loop is connected back to the cold water supply pipe after the check valve.

Gas Supply

- Check gas type of the Eternity unit's gas supply available on job (LPG or Natural).
- The gas inlet is clearly marked on system.
- o Gas isolation valves are installed for each gas water heater.
- Ensure the gas pipe sizing is adequate to deliver the required volume and pressure.
- o Refer to the pipe sizing charts in Appendix "F" AS/NZS 5601 for appropriate sized gas pipe.
- Purge the gas pipe to ensure removal of debris and are etc prior to final connection.
- o Check for gas leaks with suitable instruction as per AS 5601.

Commissioning Instruction

- All power to the system must remain off until the tank and water heater are completely full of water.
- Purge the water inlet pipe to remove any debris before final connection to cold water inlet on SUMO pack system.
- Turn on the hot water tap to allow air to be removed while tank is filling with cold water, do not bleed with PTR
- o Gently open the cold water valve on cold water supply.
- Once tank is full, turn off the hot water tap.
- o Check all connections for water leakage. Tighten as required.
- Purge gas lines until gas is available at all water heaters.
- When the tank is filled, the primary circulation pump must be bled. Unscrew the silver bleed screw on the side of the pump housing, allowing a few drops of water to escape and then tighten. Also ensure the speed switch on the pump is set to 3.

Start up Instructions

- Turn on all power to SUMO Pack (GPOs).
- Green light on thermostat will illuminate when power is available.
- When water in tank is below set temperature 60°C primary circulation pump should start. Water flow will cause gas water heaters to start.
- The output water temperature of gas water heater must be higher than the thermostat set point.
- Thermostat will display temperature of water in tank. When it reaches the 65°C set point the pump and gas water heaters will stop. The light on thermostat will not be lit when not operating.
- Stabilised water and gas pressures must be recorded in the Maintenance log at the rear of this book.

NOTE: A commissioning checklist can be found in the Chromagen Commercial Solutions Service Manual for SUMO Commercial Hot Water Systems.

Commissioning

Chromagen Commercial Solutions will provide a representative on request to attend the commissioning of your commercial hot water installation. We will be present to provide an operational overview of the system and advice on trouble-shooting, service tips and preventative maintenance.

Please follow the checklist below to ensure you have completed all necessary checks prior to operating the system for the first time.

Installers Checklist

	Check all connections are secure & correct.		
	Check that you have purged gas line of foreign materials.		
	Check hot & cold connections are correct.		
	Check you have turned the power on.		
	Check that you have turned on the cold water supply.		
	Check gas inlet pressure with the appliances operating.		
	Check that you have installed a solar approved tempering valve.		
	Check that the water temperature outlets are correct.		
	Check & clean cold water inlet filter.		
	Have you demonstrated / explained the operation of the system to the maintenan	ce supervis	sor?
F	atomal Madala		

For Internal Models

- Have you used Chromagen flueing components?
- Does the flueing exceed 1.5m? If yes, are the dipswitches set correctly?
- If flueing exceeds 1.5m have you installed a condensation trap?

IMPORTANT: IF GENUINE CHROMAGEN PARTS HAVE NOT BEEN USED WARRANTY IS VOID.

7.0 Maintenance and Warranty

Preventative Maintenance

- o Inspect for damage, corrosion or water leaks on all items.
- Check for leaks on the tank connections.
- It is normal for PTR value to operate during the heating cycle relieving pressure as the water is expanding.
- PTR valve should not exceed 1000 kPa. If it does, then a pressure reduction valve should be fitted to the cold water inlet and must be 20% less than hot water PTR.
- PTR valve may be operating if water temperature in tank is close to 95°C.
- If pressure and temperature are low but valve is leaking, pull the lever for up to 10-15 seconds, as foreign material may be jamming the valve seat. If valve fails to seat correctly, valve should be replaced.
- o Thermostat is factory set and must not be tampered with.
- Ensure the primary pumps are installed in a weather proof location. Wet pump electrics may cause failure. Water can run along power lead so keep the lead looping under the pump and curving upwards toward the electrical box.
- Ensure shaft is horizontal.
- o DO NOT aim shaft upwards or downwards.
- DO NOT locate terminal box under pump housing. Position it on top preferable or on side.
- Bleed pump with chrome screw at end of pump casing. This will be facing towards you when the pump shaft is horizontal. Pump runs on water bearing and is critical for life of pump. Excessive noise indicates damage or air in the system which will require bleeding.
- The screw removed the spinning/stationary impeller shaft can be inspected.
- o Ensure pump direction of flow arrow is towards Eternity units.
- o No flow: Check ball valves and any non return valve for correctly installed.

Maintenance and Service Calls

UNDER NO CIRCUMSTANCES SHOULD NON-QUALIFIED PEOPLE ATTEMPT TO UNDERTAKE SERVICE WORK, AS THIS CAN VOID THE WARRANTY)

Should your SUMO hot water system not provide sufficient hot water please undertake the following quick checks before requesting a service visit:

- Check to make sure all isolation valves are in the "ON" position
- Check to ensure the power supply is "ON"
- o Make sure there is sufficient gas to the gas water heaters
- o Make sure all the water inlet filters are free from debris
- o Ensure all gas filters are free from debris
- Check the pump is plugged in and switched "ON" and pumping

FOR MORE INFORMATION ON SERVICING A SUMO SYSTEM PLEASE REFER TO THE CHROMAGEN COMMERCIAL SOLUTIONS SERVICE MANUAL . IF THE SYSTEM IS STILL NOT OPERATING ORRECTLY, CALL YOUR LOCAL CHROMAGEN SERVICE OFFICE ON: 1300 36 75 65

Chromagen Commercial Solutions Maintenance Services

Ask us about a scheduled maintenance service. Chromagen Commercial Solutions can develop a regular service and maintenance program for your commercial hot water or solar electricity installation that provides preventative maintenance and timely response to faults to ensure long service life and best operational efficiency.

Warranty

Product	Commercial Warranty
HOT WATER	
Eternity (Heat exchanger)	5 Years
Tanks (Enamel)	5 Years
Flat Plate Solar Collectors	7 Years
Evacuated Tube Solar Collectors	1 Year
Circulation Pumps	1 Year
All other parts & Labour	1 Year

Chromagen shall provide both the labour and the parts required to repair, or, at Chromagen's option, Chromagen shall replace any part of the system which upon examination by Chromagen is determined by Chromagen to have been defective during the applicable warranty period. The replacement component shall carry the balance of the original warranty period.

The water heater must be installed in accordance with Chromagen's installation instructions along with relevant local and statutory requirements. Damage to buildings, chattels or any other consequential damage caused either directly or indirectly due to leakage of the water heater and breakage of collector glass due to vandalism or storms including hail are not within the scope of this warranty.

For full details of our Terms and Conditions please refer to the Chromagen website at chromagen.com.au.





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