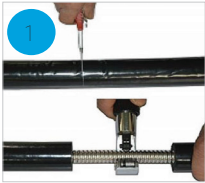


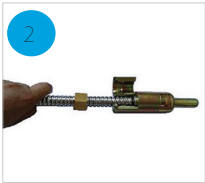
HYDROFLOW SOLAR TUBE

PRODUCT CODE - AGDSIHTCSST 160201.13S

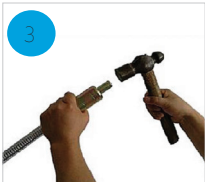
INSTALLATION GUIDE



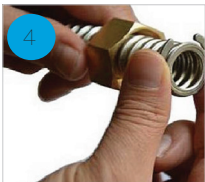
- Cut insulation to desired length using a box cutter, leaving 75mm of exposed stainless steel pipe.
- Use a stainless blade tube cutter to gently cut the pipe.
- **NOTE:** Cutting may take 4 full rotations, after every rotation please adjust the blade a 1/2 turn ensuring you keep the pipe round.



- Install the nut, compress two waves of the flex tube into the flat tool.



- Use a hammer on the flat tool to flatten the corrugated stainless steel pipe to form a flat seat collar.
- **NOTE:** It is very important to make sure the collar of the flex metal hose is flat with no burr.



- Cir-clip is to be installed to strengthen the sealing surface directly behind the flattened collar



- The Kingersil C6327 Fibre washer must be installed between the corrugated stainless steel flat end and the threaded brass fittings.
- **NOTE:** All fittings to the Hydroflow Solar Nut must be **FLAT SEAT** with 1/2 male G Series thread for sealing.
- Please ensure the fitting is tightened firmly to the connection until sealed.



Cutter



Flat Tool



Brass Nut, Cir-Clip, washer

HYDROFLOW SOLAR TUBE

PRODUCT CODE - AGDSIH7CSST 160201.13S

- High quality flexible stainless steel pipe
- Strong seamless jacketing protection
- High temperature EPDM insulation pipe
- Suitable for flow and return solar hot water installations
- 10 year warranty - see www.hydroflowaus.com.au for warranty details.

Technical Details

- DN12
- PN14
- MOP 2MPa
- MOT 175°C
- Minimum bending radius 30mm



All additional Fitting are available from Hydroflow in Flat G series

WARNING

- The system must be installed by a registered, licensed plumbing and/or gas contractor in accordance with AS/NZS 3500.1, 3500.4
- This product must NOT be installed in Alpine Snow areas.
- The warranty is not valid if non Hydroflow Distributors Ltd components (pipe or fittings) have been installed.
- Hydroflow Solar Tube system can only be used for the purpose of flow and return pipe from the solar panel to the hot water tank.
- After sales service - Hydroflow Australia 1300 493 359

HYDROFLOW SOLAR TUBE WARRANTY CERTIFICATE

1. Scope of Warranty

- 1.1 We guarantee that Hydroflow Solar Tube pipes are produced in accordance with ISO 9001 Quality Management procedures and are made from good quality raw materials. Every reasonable care has been taken in their manufacture. During production, these pipes are subject to continual electronic control as well as regular supplementary inspection. They are manufactured according to Australian Standard. WMTS-489. Statutory consumer rights are not affected by this warranty.
- 1.2 Hydroflow Distributors Ltd guarantees the quality of Hydroflow Solar Tube pipes and that they are free of manufacturing defects for the period of the warranty.
- 1.3 Hydroflow Distributors Ltd guarantees the quality of compression fittings and that they are free of manufacturing defects for the period of warranty. They are manufactured according to Australian Standard. WMTS-489.
- 1.4 Hydroflow Solar Tube system can only be used for the purpose of flow and return pipe from the solar panel to the hot water tank.

2. Conditions

- 2.1 The warranty shall only cover claims for damage submitted within the warranted period after the system is put into operation.
- 2.2 This guarantee is not valid if non Hydroflow Distributors Ltd components (pipe or fittings) have been installed or if the installation has not been carried out to Hydroflow Distributors Ltd installation standards.
- 2.3 The system must be installed by a registered, licensed and competent plumbing and/or gas contractor. Any damage caused by external influences (e.g. holes inadvertently drilled in pipe work, etc.) as well as incorrect or faulty assembly shall be excluded from this warranty. The installation contractor must show that the installation was made in strict adherence to the guidelines and information on laying and connection contained in the Technical Information brochure of Hydroflow Distributors Ltd Australia.
- 2.4 In the event of a claim, Hydroflow Distributors Ltd must immediately be given the opportunity to inspect the damage within a maximum period of eight days after the damage occurs and prior to the execution of any remedial measures. Failure to comply with this condition will result in the loss of warranty cover.
- 2.5 Any measures undertaken by Hydroflow Distributors Ltd in investigating a claim or in the way of damage mitigation shall not constitute recognition of liability. Negotiations on the payment of damages shall under no circumstances be understood as a waiver of the right to show that the notification of damage required under 2.5 was not given in due time, was unfounded or in any other way influenced.
- 2.6 Any product that is connected to the Hydroflow Solar Tube pipes that fail in its working responsibility and warranty, Hydroflow Distributors Ltd will not warrant their Hydroflow Solar Tube pipes system (EG) fail anode or hot water service and any associated hot water valves and solar panel.
- 2.7 Hydroflow Distributors Ltd warranty of this Hydroflow Solar Tube system will not cover resultant where the water chemistry levels exceeds at any time any of the following levels listed below:

Water Chemistry

This Hydroflow Solar Tube must be installed in accordance with this advice to be covered by the Hydroflow Distributors Ltd warranty.

The Hydroflow Solar Tube is manufactured to suit the water conditions of most public reticulated water supplies. However, there are some known water chemistries which could have detrimental effects on the Hydroflow Solar Tube and its operation and / or life expectancy. If you are unsure of your water chemistry, you may be able to obtain information from your local water supply authority. The Hydroflow Solar Tube should only be connected to a water supply which complies with these guidelines for the Hydroflow Distributors Ltd warranty to apply.

Water Chemistry Levels Affecting Warranty

The warranty of the Hydroflow Solar Tube will not cover resultant faults on the product if the water supply has a saturation index < -1.0 or > 0.8 (refer to 'Scaling Water & Saturation Index' below). The Hydroflow Solar Tube warranty will not cover resultant faults on components including the solar storage cylinder where water stored in the storage cylinder exceeds at any time any of the following levels:

Total dissolved solids	600 mg/Litre
Total hardness	200 mg/Litre
Chloride	250 mg/Litre
Magnesium	10 mg/Litre
pH	9.5 and not less than 6.5
Calcium	20 mg/Litre
Sodium	150 mg/Litre
Iron	1 mg/Litre

Water Chemistry & Anode Type

Most solar water heaters are designed to suit the water conditions of most metropolitan supplies, where the Total Dissolved Solids (TDS) content of the supply is less than 600 mg/Litre. For use in regions where the water supply TDS exceeds 600 mg/Litre, the magnesium alloy anode (supplied as standard, cap colour code 'Black') may become excessively reactive. For safety reasons and the longevity of the anode, the magnesium anode should be replaced with an aluminium alloy anode (cap colour code 'Blue') available from your Water Heater supplier. Anode replacement must be carried out by an accredited service agent.

Warning: Care should be taken not to touch the pipe work connecting the solar storage cylinder and the solar collectors. Very high temperature hot water can be generated by the solar collectors under certain conditions and pipe work from the solar collectors to the solar storage cylinder can become very hot.

Anode Maintenance

Please refer to local Water Heater Installation Guide

Scaling Water & Saturation Index

Danger: Failure to install an expansion control valve where scaling water conditions occur may result in the solar storage cylinder failing, or under certain circumstances, exploding.

To avoid damage to the solar storage cylinder, the Hydroflow Solar Tube and solar water heater components, it is strongly recommends scaling water be treated before entering the solar water heater by fitting appropriate water filters/conditioners etc to reduce the saturation index and total hardness of the water. Refer to your Local Water Authority for information on water in your area. A build up of white sediment on hot water taps or shower roses can be indicative of scaling water. Contact your Water Heater manufacturer if this condition is observed.

3. Scope and settlement of claims

- 3.1 The liability borne on the part of Hydroflow Distributors Ltd shall cover the supply of new Hydroflow Solar Tube free of charge within the 10 year warranty period to which damage has occurred.
- 3.2 In the event of a warranty claim being made, the party entitled to warranty cover must present the properly completed warranty certificate.
- 3.3 Hydroflow Distributors Ltd shall reserve the right to engage the services of qualified companies of its own choice to perform any necessary remedial measures.
- 3.4 Any warranty claim made during the warranty period shall not extend the overall period of warranty coverage.
- 3.5 Subsidiary verbal agreements shall be void.

4. Transfer and Rights, and Obligations

- 4.1 In the event of the building specified in this warranty document the, right resulting from this warranty shall pass over.
1. THE HYDROFLOW SOLAR TUBE WARRANTY – GENERAL
- 1.1. The Hydroflow Solar Tube warranty does not cover faults that are a result of:
- A. Accidental damage to the Hydroflow Solar Tube or any component (for example: (i) Acts of God such as floods, storms, fires, lightning strikes and the like; and (ii) third party acts or omissions).
 - B. Misuse or abnormal use of the Hydroflow Solar Tube.
 - C. Installation not performed by a licenced plumber
 - D. Installation not in accordance with the Installation Instructions or with relevant statutory and local requirements in the State or Territory in which the product is installed.
 - E. If used in alpine (snow covered) areas, that require the product to perform outside the normal product standards.
 - F. Connection at any time to a water supply that does not comply with the water supply guidelines as stated in the Warranty Outline above.
 - G. Repairs, attempts to repair or modifications to the Hydroflow Solar Tube by a person other than an Accredited Contractor.
 - H. Faulty plumbing or faulty power supply.
 - I. Failure to maintain the water heater in accordance with the Warranty Outline and relevant Water Heater Installation Instructions.
 - J. Transport damage.
 - K. Fair wear and tear from inappropriate installation and / or adverse conditions.
 - L. Cosmetic defects.
 - M. Ice formation in the waterways of a water heater system incorporating a freeze protection system where the electricity supply has been switched off or has failed or where it is installed at an altitude more than 400 metres above sea level.
 - N. Breakage of collector glass for any reason including hail damage (we suggest that the collector glass be covered by your home insurance policy).
- 1.2. Subject to any statutory provisions to the contrary, this warranty excludes any and all claims for damage to furniture, carpet, walls, foundations or any other consequential loss either directly or indirectly due to leakage from the Hydroflow Solar Tube due to leakage from fittings and/ or pipe work of metal, plastic or other materials caused by excessive water temperature, or sub standard installation practises.
- 1.3. If the Hydroflow Solar Tube is not sized to supply the hot water demand in accordance with the guidelines in the relevant water heater installation literature, any resultant fault will not be covered by the Hydroflow Solar Tube warranty.

3. Entitlement To Make A Claim Under This Warranty

- 3.1. To be entitled to make a claim under this warranty you need to:
 - A. Be the owner of the Hydroflow Solar Tube or have consent of the owner to act on their behalf.
 - B. Contact Hydroflow Distributors Ltd without undue delay after detection of the defect and, in any event, within the applicable warranty period.
- 3.2. You are not entitled to make a claim under this warranty if your Hydroflow Solar Tube:
 - A. Does not have its original WaterMark licence details.
 - B. Is not installed in Australia.

4. How To Make A Claim Under This Warranty

- 4.1. If you wish to make a claim under this warranty, you need to:
 - A. Contact Hydroflow Distributors Ltd on 0432 397 799 and provide owner's details, address of the Hydroflow Solar Tube, a contact number and date of installation of the Hydroflow Solar Tube or if that's unavailable, the date of manufacture (from the label on the water Hydroflow Solar Tube).
 - B. Hydroflow Distributors Ltd will arrange for the Hydroflow Solar Tube to be tested and assessed on-site.
 - C. If Hydroflow Distributors Ltd determines that you have a valid warranty claim, Hydroflow Distributors Ltd will repair or replace the Hydroflow Solar Tube in accordance with this warranty.
- 4.2. Any expenses incurred in the making of a claim under this warranty will be borne by you.

5. The Australian Consumer Law

- 5.1. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 5.2. The Hydroflow Solar Tube warranty (set out above) is in addition to any rights and remedies that you may have under the Australian Consumer Law.

HYDROFLOW DISTRIBUTORS (AUST) PTY LTD
24 Harcourt Road
Altona VIC 3018
T: 03 8369 9500
F: 03 83607666
www.hydroflowaus.com.au

WARRANTY CERTIFICATE

Please provide the following information upon completion of the installation. This information should be provided to assist the customer in the event that a claim is made under the Hydroflow Solar Tube warranty.

Plumber (Name & Company): _____

Plumber's licence number: _____

Compliance Certificate: _____

Installation date: _____

Water Heater date of manufacture: _____

Owners Details: (Name & Address): _____

Phone number: _____

Email address: _____

Purchase Outlet: _____

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