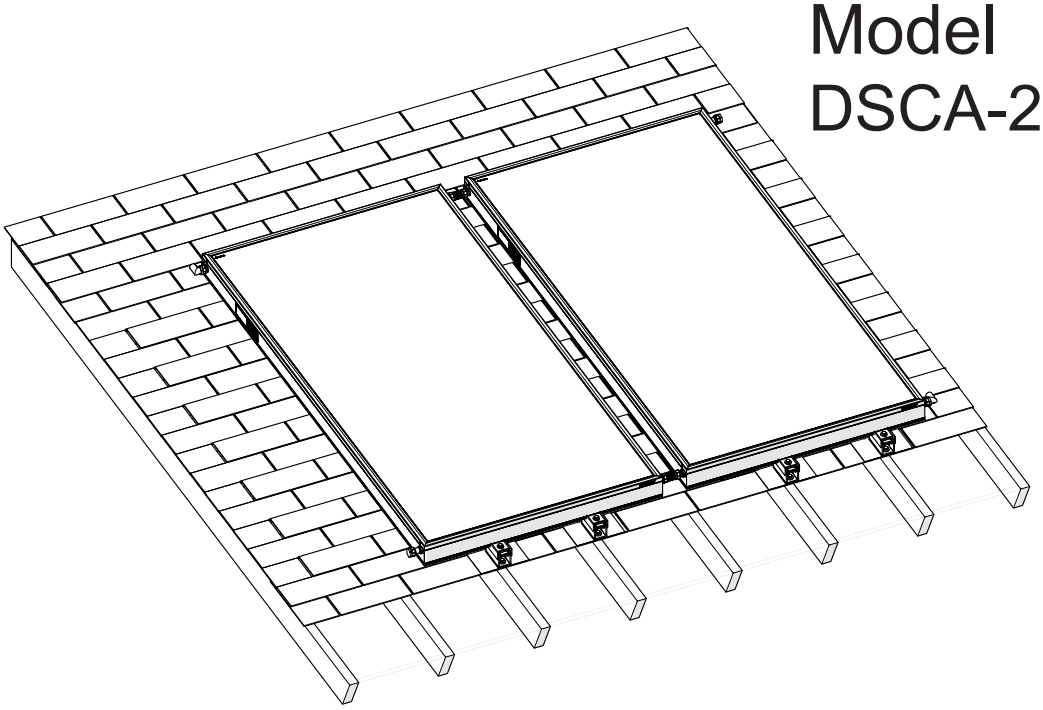
Dimplex®

Better solutions through innovation

Owner's Manual
Solar Flat Plate Collectors

Model
DSCA-2M



⚠ WARNING: This system is designed to be used with Polypropylene Glycol as a heat transfer liquid. Substitution of any other heat-transfer fluid can cause irreparable damage and create a health and safety hazard.

! NOTE: This manual should be kept in the same area as the system for reference purposes.

IMPORTANT SAFETY INFORMATION: Always read this manual first before attempting to install or use this Solar Domestic Hot Water System. For your safety, always comply with all warnings and safety instructions contained in this manual to prevent personal injury or property damage.

To view the full line of Dimplex products, please visit www.dimplex.com

The solar energy system described in this manual, when properly installed and maintained, meets the minimum standards established by the SRCC™. This certification does not imply endorsement or warranty of this product by SRCC™.

SOLAR RATING & CERTIFICATION CORPORATION SRCC OG-100 CERTIFIED ESTABLISHED 1980 ™

VERIFIED CSA Energy Performance Rendement Énergétique ® VÉRIFIÉ

7212480100R00

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Always use a qualified technician or service agency to repair this system.

! **NOTE:** Procedures and techniques that are considered important enough to emphasize.

⚠ **CAUTION:** Procedures and techniques which, if not carefully followed, will result in damage to the equipment.

⚠ **WARNING:** Procedures and techniques which, if not carefully followed, will expose the user to the risk of fire, serious injury, or death.

Disclaimer

The information presented in this manual was correct at the time of print and was prepared with the greatest diligence and care possible. The manufacturer does not take any responsibility for damage done to property or life by not adhering to the instructions given in this guide. The right is reserved to introduce technical alterations without prior notice as part of the company's continuous improvement measures. All personnel specifying or designing the use of this equipment, installing, operating or maintaining it must be appropriately trained or instructed and must follow the procedures laid out in this guide and other related and relevant literature including standards and regulations.

ⓘ Welcome & Congratulations

Dear Customer,

Thank you very much for choosing the our Solar Flat Plate Collectors. We appreciate the choice of products you have had and we want to assure you that the Solar Collectors satisfy the highest performance, quality and reliability requirements. Should any issues arise at any stage, which you do not find sufficiently covered in this document please contact technical service using one of the means detailed below.

Wishing you lots of sunshine,

Your Technical Service Team

Contact us at:

💻 **www.renewables.dimplex.com/contact_us** for Troubleshooting and Technical Support

OR ☎ Toll-Free 1-888-DIMPLEX (1-888-346-7539) Monday to Friday 8:00 a.m. to 4:30 p.m. EST

⚠ IMPORTANT INSTRUCTIONS

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Read all instructions before using this appliance.
2. Disconnect all power supplies before performing any cleaning, maintenance or relocation of the unit.
3. The Solar Hot Water System is only to be filled in its cold condition. If required, cover the solar collector during installation.

⚠ **WARNING:** High temperatures of solar panels and heat transfer solution may result in scalding!

4. Solar Hot Water Systems can absorb high temperatures. There is a danger of burning! Be careful when installing or inspecting the temperature sensor.
5. Consult the MSDS sheets or Safety Data Sheets for information on the heat transfer solution before filling or draining the system.
6. Installers of this product should follow guide lines for safety for proper transportation and manipulation of the solar collector on/to the roof set out by Local Health and Safety Acts.
7. Only a trained and competent person should install this system.
8. Dimplex does not accept any liability for damage done to persons or property resulting from undue handling and usage of this product.
9. All regulations current at the time of installation are to be considered alongside the content of this manual as they form the code of best practice.
10. It is the responsibility of the Owner/Installer to ensure that the transport, storage, installation and operation of the product is carried out in a safe manner.
11. When making the piping connections, make sure that connecting pipe work is not mechanically over-stressed. Over time this could cause breakages, with consequent liquid losses which, in turn, could cause harm to property and/or people.

SAVE THESE INSTRUCTIONS

🕮 Quick Reference Guide

Component Check List

Kit Components						
Part Number	Description	Quantity				
		DSCA-2M-2	DSCA-2M-3	DSCA-2M-4	DSCA-2M-5	DSCA-2M-6
DSCA-2M	SOLAR COLLECTOR, FP BLUE-A, 2M	2	3	4	5	6
MK-DSCA	MOUNTING KIT, 1 X DSCA	2	3	4	5	6
NA12142	FITTING, UNION, COMPRESSION 3/4”	2	4	6	8	10
254752	FITTING, ELBOW, COMPRESSION 3/4" THREADED	2	2	2	2	2
NA12141	FITTING, END-STOP, COMPRESSION	2	2	2	2	2

Optional Additional Components	
Part Number	Description
DSTA-200	STORAGE TANK, SOLAR HX, 53GAL/200L
45111.5 NA	CONTROLLER, SOLAR-A
45722.1 NA	PUMPING STATION, SOLAR LOOP-A
45411.30 NA	PUMPING STATION, HXA
DGA-25	POLYPROPYLENE GLYCOL, DOWFROST HD, 6.6GAL/25L
NA3520-15	FLEXTUBE SET, INSULATED 1/2" WITH SENSOR WIRE - 50 FT/15M
NA12102	FITTING, FLEXTUBE, 3/4"
NA12133	MOUNTING BRACKET, FLEXTUBE, SET OF 4
NOTE: Reference to “A” in Description indicates that in larger systems multiples of these components may be used.	

General requirements

- Electrical Water Heater tank, 50 gal (184L)

! NOTE: Water heater must have adequate capacity, listed and labeled by an accredited listing organization.

- Competent person must install this system.
- Improper operation/installation of the unit could invalidate the warranty.
- A predetermined location for the installation of the Solar Storage Tank and Solar Collectors.
- Make sure all piping and all equipment is clean before filling or flushing (a non-foaming detergent may be used in the Solar Hot Water System, e.g. TSP) - See Commissioning Section.
- Carefully follow the instructions and labels during the connection of the units.

🕮 Site Selection and Preparation

Prior to installation of a Domestic Solar Hot Water System Local Building Codes, Zoning Ordinances, Subdivision covenants and any other special regulations pertaining to the site should be consulted.

To find out what's needed for local compliance, contact the following:

Your local jurisdiction's zoning and building enforcement divisions

- Briefly describe your intended construction, asking for other relevant ordinances/codes that might be in effect.
- Find out if there are any additional local amendments or modifications to the regulations in effect.
- Ask how to determine whether you are located in a historic district, flood-plain area, or any other special category regulated by a government body.
- Ask where you may find pertinent ordinances/codes (local library, government office, etc.).
- Read pertinent sections of the regulations, making photocopies of information you wish to file for future review and design/installation analysis.

Homeowner's, subdivision, neighborhood, and/or community associations

- Ask if they have any ordinances, provisions, or covenants that may affect the design and installation of the system.
- Copy and file pertinent sections for reference.

City or Municipal Offices

- Required Building Permits and associated Inspections.

Location Considerations:

- You have determined the best south facing roof/mounting surface with no or minimum shading during the day. For maximum efficiency the solar collectors should be installed in a location where they can receive 8 hours of sunlight per day.
- The Solar Collector mounting surface is rated to withstand the weight of the components as well as the Fluid.
- The condition of the mounting surface has been considered, i.e. the replacement of the shingles would result in the need to remove and reinstall the panels.
- You have allocated enough space for the Solar Hot Water System installation in the same location as you current water heating system.
- The age of the current water heating system

GENERAL INTRODUCTION FOR SOLAR COLLECTOR INSTALLATION PLANNING

Solar collectors can be installed in various ways. Consideration in the installation should include:

- Available solar radiation
- Seasonal usage of the energy demand
- Ease of installation
- Aesthetic impact

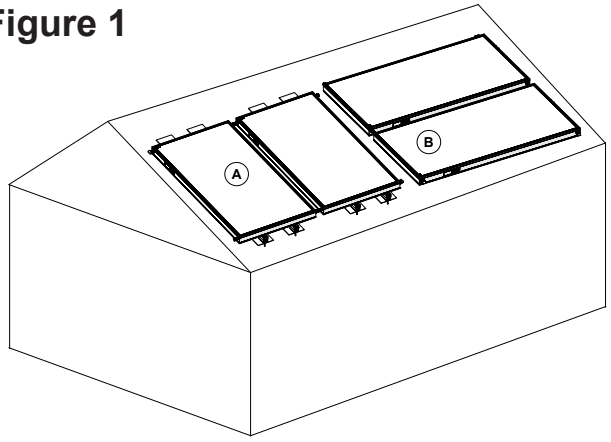
The following suggested installation orientations of the solar collectors are shown in Figure 1.

⚠ **CAUTION:** Location considerations should ensure that building materials adjacent to the solar components are not exposed to the elevated temperatures of the system.

⚠ **CAUTION:** Ensure that solar collectors will not be susceptible to excess shading. For maximum efficiency the solar collectors should be installed in a location where they can receive 8 hours of sunlight per day.

The Dimplex Solar Hot Water System is specifically designed for shingle or steel roof mounting. The recommended fixing options are summarized in the Table 1.

Figure 1



🕮 Site Selection and Preparation

! NOTE: There are some installations the are not recommended, due to the specifics of this system.

Table 1: Dimplex Solar Collector Recommended Installation

Installation option		*Availability*
A	Sloped roof vertical	Yes
B	Sloped roof horizontal (top)	Yes

Option A and B: Available with standard mounting kit for Solar Collector ESSW2 OR ESDW2.

PIPING ROUTING PLAN

Once the location of your Solar Collectors has been decided, the routing of the piping to connect the two areas can be planned. Piping can be led either inside or outside of the house.

⚠ CAUTION: Ensure that any penetrations through fire-rated assemblies do not reduce the fire resistance below code.

Inside piping considerations:

- The piping will not be visible on the surface of your house and only the Solar Collectors will be visible on the roof.
- A roof sealing kit will be required.
- Routing of the pipe inside of the attic in direction of storage heater installation place.

Outside piping Considerations:

- The pipe will be visible on top of your roof.
- Ease of installation and any possibility of leakage into the house will be avoided.

Installation Instructions

⚠ **WARNING:** This system is to be installed in accordance to Local Building Codes, Electrical Codes and National Roofing Contractors Association while following State/Provincial Health and Safety Standard practices.

⚠ **WARNING:** Appropriate lifting practices and appropriate Health and Safety equipment are to be used to ensure safe transporting and installation of the solar collectors.

⚠ **CAUTION:** Tempered glass will shatter if handled inappropriately.

⚠ **WARNING:** Due to the nature of the components it is suggested that the panels be covered, during installation, to reduce the amount of heat transfer occurring on start up and commissioning.

The Solar Collectors come with an installation kit (Figure 2) which includes all of the components required to mount and seal the two solar collectors to the trusses on any roof. Figure 9 shows the typical vertical installation, although the solar collectors can be mounted horizontally, as long as the outlet is connected at the highest point.

⚠ **CAUTION:** The installation should not impair the enclosure function of the building.

⚠ **CAUTION:** Ensure that all penetrations into the building and all connections are resistant to vermin.

❗ **NOTE:** Instructions are included to mount the solar collectors to a support bracket located below the trusses but longer bolts will be required (not included).

❗ **NOTE:** Consult Local building codes as to the type of installation that will be required.

For Mounting Collectors Directly to Trusses

(Figure 4A)

⚠ **CAUTION:** Ensure that the structural members that are being penetrated by the Solar components meet code.

1. On the surface where the solar collectors are to be located, locate 5 studs, and mark their centers.

❗ **NOTE:** The middle stud is not used in the installation.

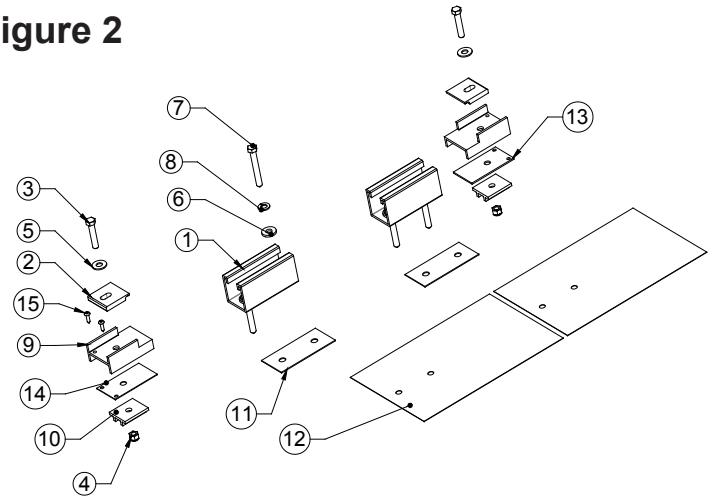
2. Install the flashing under the shingles, lining up holes in flashing to centers of the studs and line up bottom of flashing with bottom of the shingle. (Figure 3)
3. Using the flashing as the template drill pilot holes using a 5/16” drill bit.

❗ **NOTE:** The flashing can be used as a template for steel roofs but is not required as part of the installation. Flashing is required on asphalt roofs to prevent water penetration.

4. Install brackets using (2) 3/8” x 3” lag screws, lock washer, EPDM washer, Bracket and EPDM Gasket for each mounting location. (Figure 4)

Continue to Step 9.

Figure 2



ITEM NO.	DESCRIPTION	Mounting Kit/QTY.
1	RAIL	4
2	CLAMP TOP	4
3	BOLT HEX STAINLESS STEEL 3/8" -16 GRADE 5	4
4	3/8" - STAINLESS STEEL NYLON INSERT LOCKNUT	4
5	3/8" STAINLESS STEEL WASHER	4
6	3/8" STAINLESS STEEL BONDED EPDM WASHER	8
7	SCREW LAG STAINLESS STEEL HEX 3/8" -3"	8
8	3/8" SS LOCK WASHER	8
9	SUPPORT CLAMP	4
10	CLAMP BOTTOM	4
11	GASKET	4
12	FLASHING (Not required for Steel Roofs)	4
13	SHIM 0.1" (2.54mm)	2
14	SHIM 0.05" (1.27mm)	2
15	10-16x3/4 SS SELF DRILLING SCREW	4

Figure 3

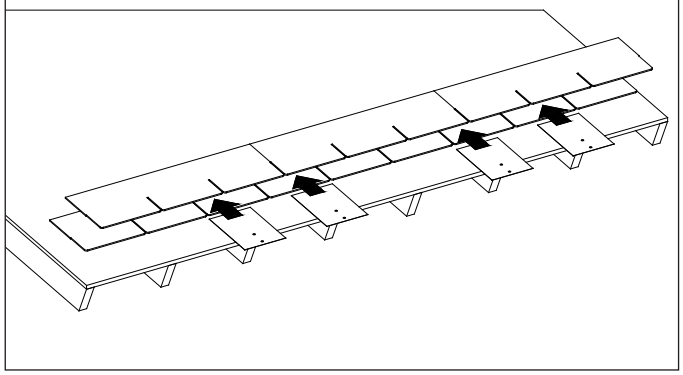


Figure 4

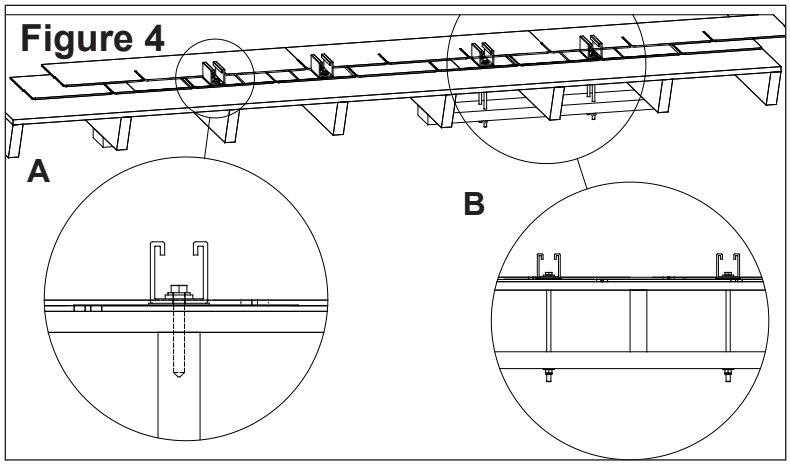


Figure 5

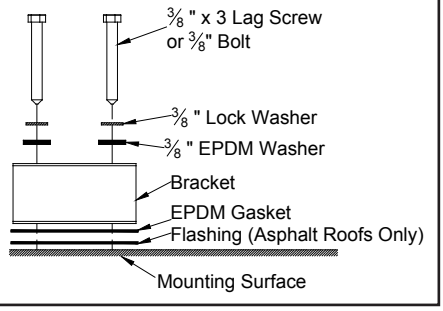


Figure 6

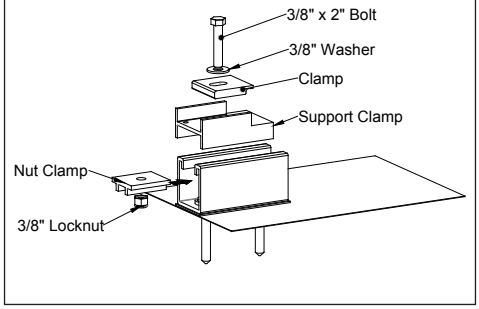
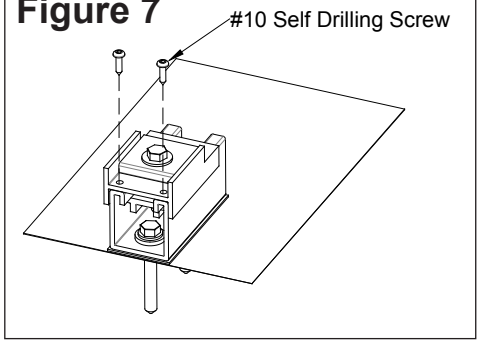


Figure 7



For Mounting Collectors to Support Bracket

(Figure 4B)

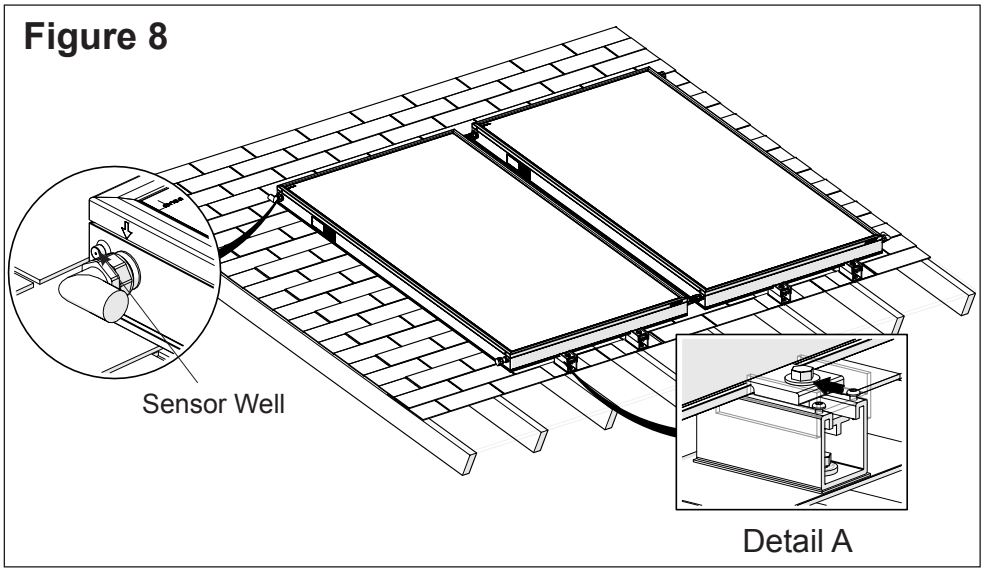
⚠ **CAUTION:** Ensure that the structural members that are being penetrated by the Solar components meet code.

1. Inside the roof, measure the distance across 3 trusses (from the outer most points).
2. Cut a 2” x 6” piece of wood corresponding to the measured length.
3. Mark the on the board, 3 marks that divide the board into 4 equal sections.
4. Line up the flashing center on the two outside marks and using the flashing as a template, mark and drill 3/8” holes for the bolts to pass through.
5. On the outside surface, where the solar collectors are to be located, locate the corresponding 3 studs and mark the center points between them.
6. Install the flashing under the shingles, lining up the hole in the flashing to the marks on the roof. (Figure 3).
7. Using the flashing as the template drill 3/8” holes for the bolts to pass through.

! NOTE: The flashing can be used as a template for steel roofs but is not required as part of the installation. Flashing is required on asphalt roofs to prevent water penetration.

8. Install brackets using (2) 3/8” x Bolt, Lock Washer, EPDM Washer, Bracket and EPDM Gasket for each mounting location. (Figure 5)
9. Assemble the clamping assemblies (Figure 6) then insert them into the support brackets and tighten to 35 lbs (15.9kg) of torque.
10. Measure up 75.5” (191.8cm) and repeat Steps 1-4 for assembly of the top mounting assemblies.
11. Assemble the clamping assemblies (Figure 6) then insert them into the support brackets and tighten only to hold in place.
12. Place each Solar Collector on clamp assemblies, so that the sensor wells are located on the outside of the assembly and the clamps are securely resting on the brackets.

Figure 8

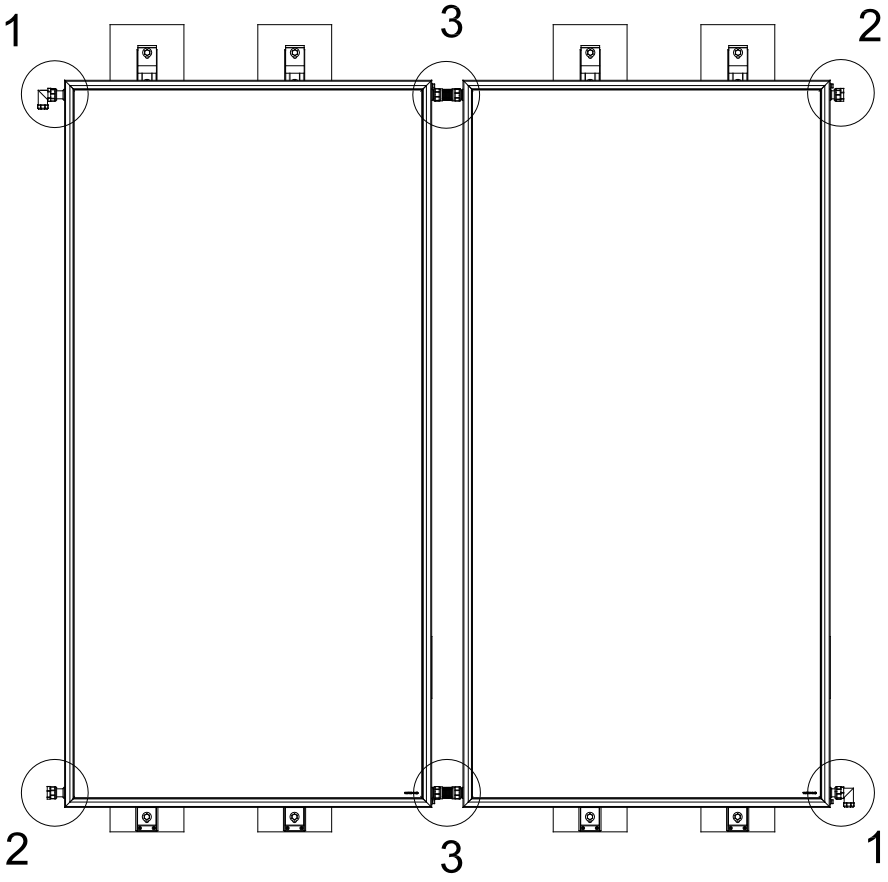


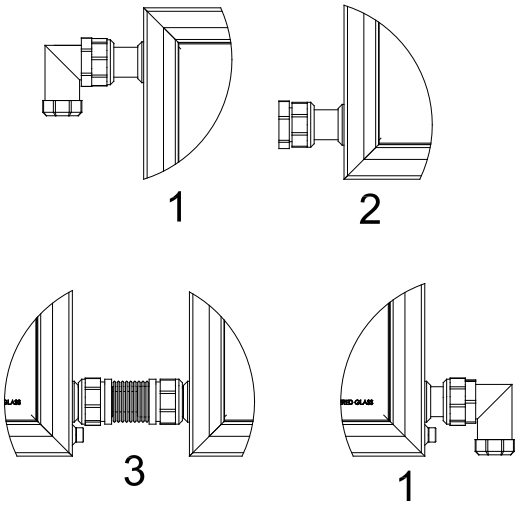
13. Connect the solar collectors together, using the provided Stainless Steel flexible connectors, Figure 9, which will allow for expansion and contraction due to changing weather conditions and install the threaded plugs in the unused ports.

! NOTE: There are two different thickness of shims provided to assist with ensuring that the collectors are level and connections are sealed properly.

14. Once the solar collectors are level and plumbed together, secure the bottom clamp assemblies, using #10 self drilling screws. (Figure 7)
15. Loosen the bolt in the bottom

Figure 9





! NOTE: Plumbing connections and plugs can be reversed, as long as the outlets are located at the top of the panels.

! NOTE: Only use the sensor well that is closest to the outlet.

clamp and slide into groove of the solar collector and tighten to 35 lbs (15.9kg) of torque (Figure 8 - Detail A).

16. Repeat Steps 11-15 for the top clamp assembly.

⚠ **CAUTION:** Ensure that the final installation of the collectors is capable of maintaining tilt and azimuth.

17. Install the elbow connector at the Solar Collector inlet and outlet. (Figure 9)

Piping

Two lines of 1/2” (12.7mm) piping, insulated to R4.2 with UV resistant EPDM insulation, need to be run from the Solar Collectors to the pumping system. The lines can run either through the walls/attic of the house or along the outside wall of the house. Any piping that is required to run across a surface horizontally should be sloped towards the drain ports with a drainage slope of no less than 3/4” (20mm) vertical drop for each meter of horizontal length (1/4”/ft).

! **NOTE:** Stainless steel corrugated pipe is suggested for use but standard insulated potable compliant piping can be used.

! **NOTE:** Stainless steel corrugated piping is available as an optional accessory, in 50’ (15.24m) lengths, with sensor wire and insulation.

! **NOTE:** If soldering rigid connections, ensure soldered connections meet potable water requirements and can withstand high temperatures.

! **NOTE:** Tag the inlet and outlet of the piping at each end to help with installation.

The Stainless steel corrugated piping is equipped with a sensor wire that can be attached to the Solar Controller and the temperature probe at the Solar Collectors. If using an alternative piping, double insulated 20 ga two core sensor wire can be used and should be covered with the UV resistant insulation, with a minimum rating of R-4.2, to protect the wire from environmental elements and vermin.

! **NOTE:** When running piping ensure that the pipe is supported properly to prevent any sagging or stress on any other component of the system, and has been installed with the correct pitch to allow for proper drainage.

⚠ **CAUTION:** When installing piping supports ensure that the insulation is not pinched or compressed, which may damage or reduce the life of the insulation and subsequently the piping.

In the Sensor wells, in the Solar Collectors, there is a rubber gasket.

- Remove the gasket and insert the probe through the gasket.
- Insert the probe into the sensor well so that the probe gently touches the end of the well.
- Move the gasket so that it seats back into the well and secures the temperature probe.

⚠ **CAUTION:** Flashing, sealing and routing for the piping and sensor wire is the responsibility of the installer and is not included in the kit.

When running piping from Solar Collectors to Pumping Stations ensure that the vertical runs of piping are supported at a minimum every 10ft (3m).

Maintenance

⚠ **WARNING:** Always completely disconnect the device from the power supply before performing maintenance or electrical work.

The Solar Hot Water System should be monitored on at least a monthly basis, by checking system pressures, flows and temperatures to ensure that they are within normal operating range. These ranges can be found in the Operation Section of the manual and the Warranty Sheet.

The entire system, both the Solar Heating system and the Back-up heating system, should be inspected on a yearly basis, Fall is suggested, to ensure proper operation and condition of each component.

⚠ **WARNING:** The components and liquid in the system can be hot and the risk of burning/scalding will be present.

Solar Collectors

When maintaining the Solar Collectors, the following should be inspected:

- Visually check for shading of the collectors during the day (mid-morning, noon, and mid-afternoon) on an annual basis. Shading can greatly affect the performance of solar collectors. Vegetation growth over time or new construction on your house or your neighbor's property may produce shading that wasn't there when the collectors were installed.
- Ensure that there is no build up of dirt on the panels and clean if necessary, using a soft cloth and warm soapy water.
- Look for cracks in the collector glazing, and check to see if seals are in good condition. Plastic glazing, if excessively yellowed, may need to be replaced.
- Ensure that the sensor is fully inserted.
- Take note of the condition of the sensor wire. Ensure that there is no damage to the protective coating and that all connections are still intact.

! **NOTE:** When replacing parts of the insulation ensure the sensor cable is protected from getting damaged when cutting the insulation.

- Roof penetrations - Flashing and sealant around roof penetrations should be in good condition.
- Support structures - Check all nuts and bolts attaching the collectors to any support structures for tightness.

Warranty

DIMPLEX NORTH AMERICA LIMITED - LIMITED WARRANTY FOR SOLAR PRODUCTS

Scope of limited warranty coverage

Dimplex North America Limited's ("**Dimplex**") limited warranty to the original purchaser ("**you**") of a product from the Dimplex product range set out below (each a "**Product**") is as follows (the "**Warranty**"): Subject to the terms and conditions set out below, Dimplex warrants that new Products shall be free from defects in workmanship and materials under normal and proper usage, maintenance and service for the warranty periods set out below (each, a "**Warranty Period**").Upon expiration of the applicable Warranty Period, all liability of Dimplex in respect of the Warranties shall terminate.

Dimplex will extend the coverage of the Warranty and the duration of the Warranty as set out below provided that the you register for such extended warranty within 60 days from the date of installation of a Product by a Dimplex authorized dealer ("**Dealer**"). Registration for extended Warranty coverage may be made at: www.renewables.dimplex.com/solar_hot_water/warranty_registration.

Product	Catalogue Number	Warranty Period and Coverage	Extended Warranty Period and Coverage
Solar Collector, FP-Blue-A, 2M	DSCA-2M	Warranty Period: 1 year. Coverage: parts and freight to Dealer.	Warranty Period: 10 years. Coverage: parts

The Warranty Period begins on the date of purchase as shown on your invoice or purchase receipt (as applicable).

Upon determination by Dimplex that a Product has manufacturing defects that substantially affect performance during the Warranty period under proper use, maintenance and service, the sole remedy available to you is for Dimplex, at its option, to either: (i) replace the applicable Product; (ii) replace non-performing components of the applicable Product; or (iii) make all necessary repairs or modifications to the applicable Product.

The Warranty applies to the original purchaser of a Product and is transferrable only to subsequent residents of the same address as such original purchaser. The Warranty may be subject to further limitations for purchases of Products made outside of the United States or Canada. Please consult your Dealer for further information regarding any such limitations.

What is not covered by this limited warranty?

The Warranty is void, does not apply under, and does not cover defects or damages to a Product resulting from any: (i) use with the applicable Product of components and/or parts that are not warranted by Dimplex; (ii) misuse, abuse, accident, negligence or alteration; (iii) improper installation of the applicable Product including, but not limited to, over-tightening of fittings, installation methods that are not in compliance with the applicable codes, regulations or ordinances of any applicable governmental authority, or installation that is otherwise not in accordance with Dimplex's installation and operating instructions; (iv) use of a Product for a purpose other than medium temperature (110 - 160°F / 43 - 70°C) domestic or residential water heating; (v) improper maintenance, storage, handling or operation of the applicable Product; (vi) clouding or condensation; (vii) chemicals, fluids or liquids that are not authorized or otherwise approved by Dimplex for with the applicable Product; (viii) freezing temperatures and other natural or extreme weather conditions; and/or (ix) fire or other factors or circumstances that are outside of Dimplex's control including, but not limited to, an Act of God.

The Warranty does not apply to and does not cover: (i) cosmetic damage including, without limitation, discoloration or glazing; or (ii) any breakage to any glass component of a Product. Further, the Warranty does not apply to and does not cover Products for which you do not have proper commissioning and maintenance records.

How to Make a Warranty Claim?

If you discover a defect in materials within the Warranty Period, you must promptly contact the Dealer to begin the Warranty claim process. Making a Warranty claim will require the following:

- a completed Dimplex warranty claim form (which will be provided to you by the Dealer as part of the claim process);
- proof of purchase of the Product from a Dealer;
- digital pictures of the alleged defective in the Product(s);
- applicable commissioning and maintenance records; and
- such other supporting documentation and materials as Dimplex may require.

Additional conditions of this limited warranty?

You must submit all necessary information requested by Dimplex through the Dealer for Dimplex to assess your warranty claim. The Warranty will extend only to claims received by Dimplex before the end of the applicable Warranty Period. Product removal, reinstallation, and related costs and fees are excluded from the Warranty. All replaced Products will become Dimplex's property and the replacement Product(s) becomes your property. The replacement Product shall be warranted for the balance of the period remaining on the original Product

What Dimplex will do in the event of a valid warranty claim?

Upon determination by Dimplex that a Warranty claim is valid, Dimplex shall deliver repaired or replaced Product(s) or components to the Dealer, freight pre-paid by Dimplex. Where the Warranty covers labour (as set out above), Dimplex shall also be responsible for the costs of the Dealer's labour for [the installation of any repaired or replaced Products or components] All other costs of removal and/or re-installation of the Product(s) or components associated with Dimplex's Warranty services including, but not limited to, any additional labour, shipping duty or other charges, shall be borne by you.

Warranty

Limitations of this limited warranty and what Dimplex is not responsible for

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Miscellaneous

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