

Vented System

Installation Instructions

Plumbing Connections

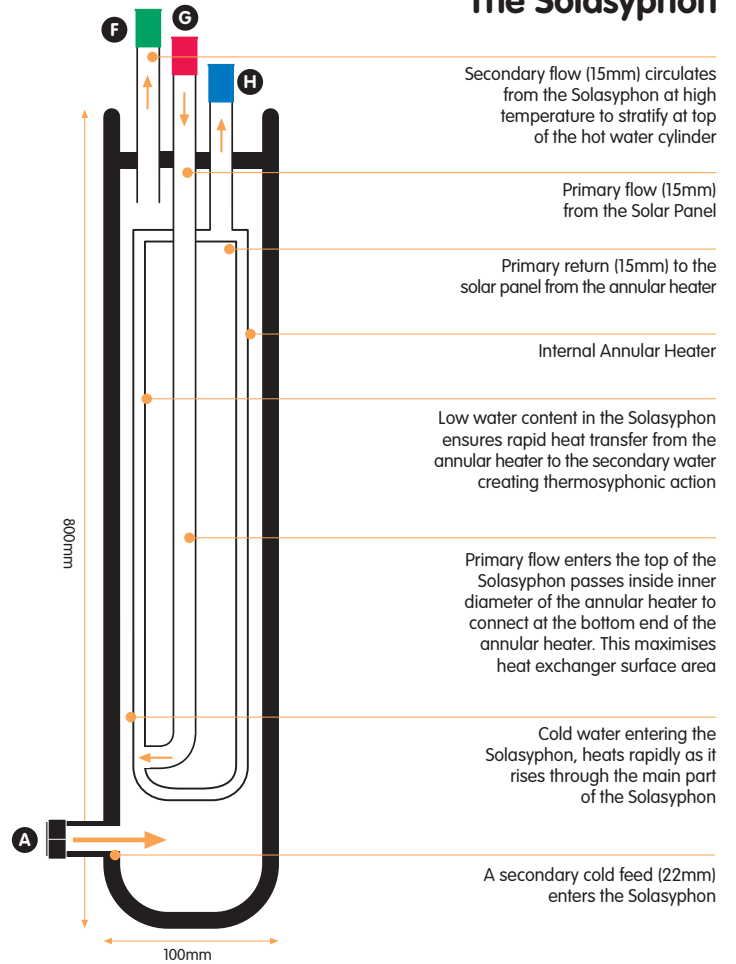
- 1 Completely drain hot water cylinder via drain cock or Siphon out
- 2 If available, use drain connection tapping for cold supply to Solasyphon, or drill hole in side of cylinder approx 100mm from bottom and fit proprietary Essex type flange (22mm diameter) at **A**
- 3 Connect cold supply pipe from bottom of cylinder to bottom connection on Solasyphon (22mm) **A**
- 4 Cut-in a tee piece with a 15mm branch on the open vent pipe at a level not less than 500mm above the dome of the cylinder **E**
- 5 Connect hot water draw-off pipe marked **F** (15mm diameter) from top of Solasyphon to branch in vent (15mm)
- 6 Refill cylinder/plumbing, vent and test for water tightness

Solar Connections (Heating Element Side)

- 1 Remaining 2 connections on the top of the Solasyphon (15mm diameter) are the Solar flow and return with flow marked **G** and return marked **H**
- 2 Connect pipework and ancillaries from solar panel as per manufacturer's instructions
- 3 Fill and vent Solar circuit as per manufacturer's instructions and test for water tightness
- 4 Solasyphon installation is now complete

IMPORTANT Ensure the Solar flow and return are fitted to the correct orientation as marked on the Solasyphon

The Solasyphon

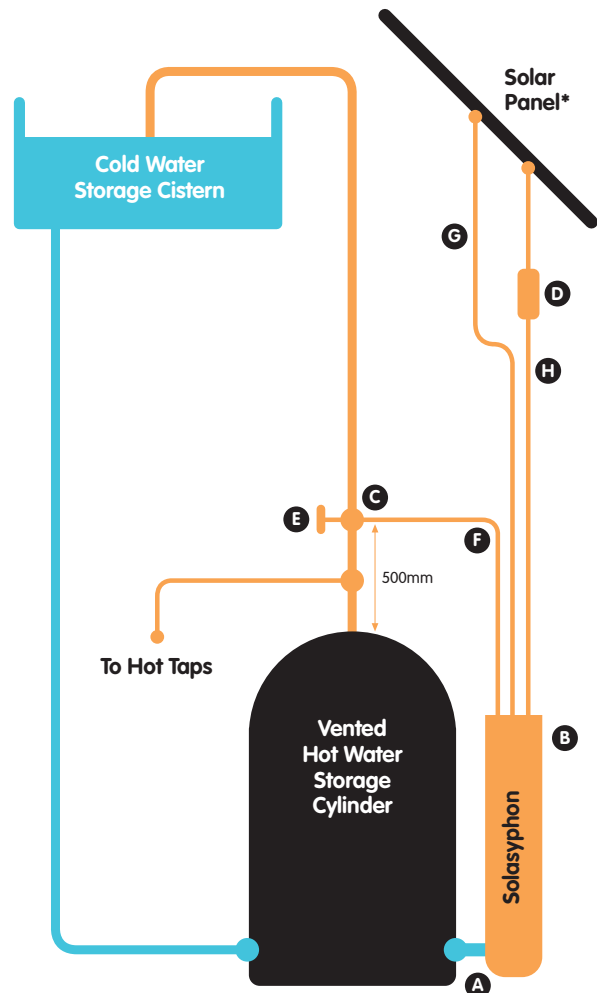


Vented System

Installation Instructions

Vented System (see right)

- A** Secondary cold feed connection to hot water storage cylinder using Essex Flange
- B** Willis Solasyphon
- C** Thermosiphonic flow circulates hot water to hot water storage cylinder where it stratifies at top of cylinder, stored at high temperature and available for immediate use
- D** Pump control unit for solar circuit
- E** Temperature sensor
- F** Secondary flow
- G** Primary solar flow
- H** Primary solar return



* Recommended 6sqm maximum size Solar Panel for use with Solasyphon

Pressurised System Installation Instructions

Plumbing Connections

- 1 Completely drain hot water cylinder via drain cock
- 2 If available, use drain connection tapping at bottom of cylinder for cold supply to Solasymphon, or make a tee connection on the cylinder cold supply with branch connection to bottom connection of Solasymphon. This tee piece should be of the injector tee type (see diagram) **A**
- 3 Connect cold supply pipe from bottom of cylinder to bottom connection on Solasymphon (22mm) at **A**
- 4 Cut-in a tee piece with a 15mm branch on the hot water draw off pipe at a level not less than 500mm above the dome of the cylinder **C**
- 5 Connect hot water draw-off pipe marked **F** (15mm diameter) from top of Solasymphon to branch in hot water draw off (15mm)
- 6 Refill cylinder as per manufacturer's instructions and test for water tightness

Solar Connections (Heating Element Side)

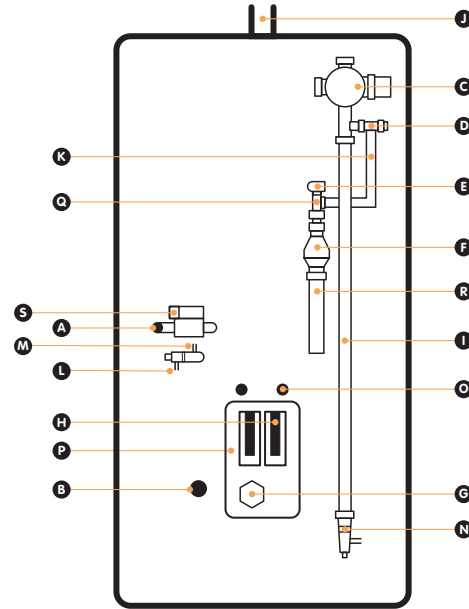
- 1 Remaining 2 connections on the top of the Solasymphon (15mm diameter) are the Solar flow and return with flow marked **G** and return marked **H**
- 2 Connect pipework and ancillaries from solar panel as per manufacturer's instructions
- 3 Fill and vent Solar circuit as per manufacturer's instructions and test for water tightness
- 4 Solasymphon installation is now complete

IMPORTANT Ensure the Solar flow and return are fitted to the correct orientation as marked on the Solasymphon

If utilising the combined cold feed elbow and drain cock **N** for the solar cold feed connection **A** it is important to use an Injector Tee to prevent short circuiting

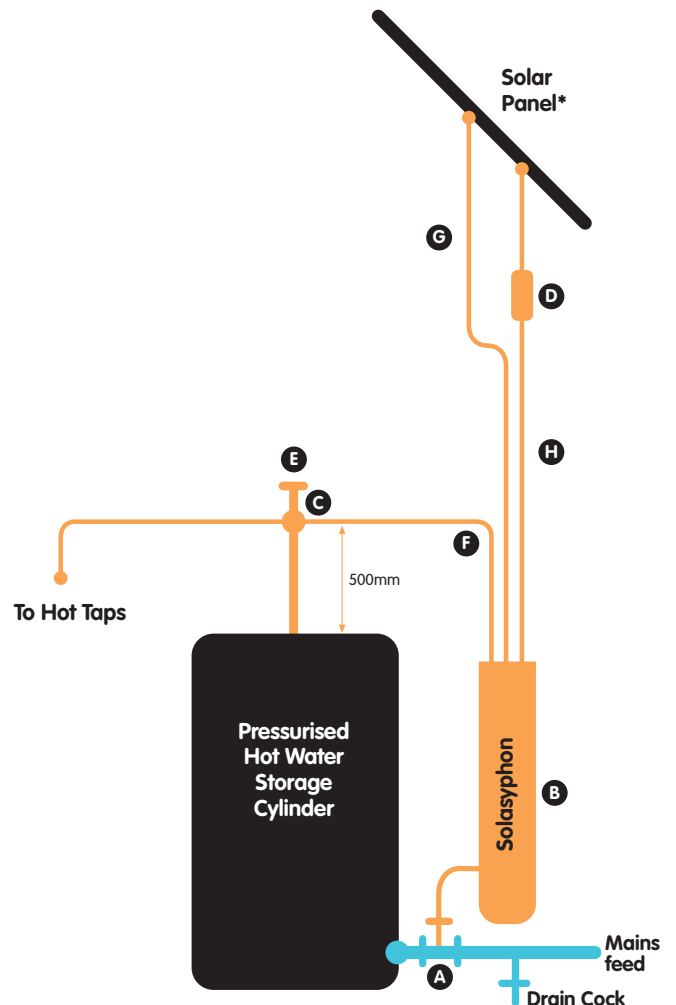
Typical Cylinder

- | | |
|--|---|
| A Flow (Indirect only) | K Flexible hose |
| B Return (Indirect only) | L Secondary return 1/2 BSPF Conex 645 tee piece (not supplied) |
| C Pressure reducing valve | M Commissioning valve |
| D Check & expansion valve | N Combined cold feed elbow and drain cock |
| E Temperature & pressure relief valve | O Cable entry |
| F Tundish | P Electrical boxes |
| G Immersion heater | Q Tee piece |
| H Thermostat | R Discharge pipe (not supplied) |
| I Cold feed tube (not supplied) | S Motorised valve (not factory fitted) |
| J Hot water outlet | |



Pressurised System (see right)

- | |
|--|
| A Secondary cold feed connection to hot water storage cylinder using Injector Tee |
| B Willis Solasymphon |
| C Thermosiphonic flow circulates hot water to hot water storage cylinder where it stratifies at top of cylinder, stored at high temperature and available for immediate use |
| D Pump control unit for solar circuit |
| E Temperature Sensor |
| F Secondary flow |
| G Primary solar flow |
| H Primary solar return |



* Recommended 6sqm maximum size Solar Panel for use with Solasymphon