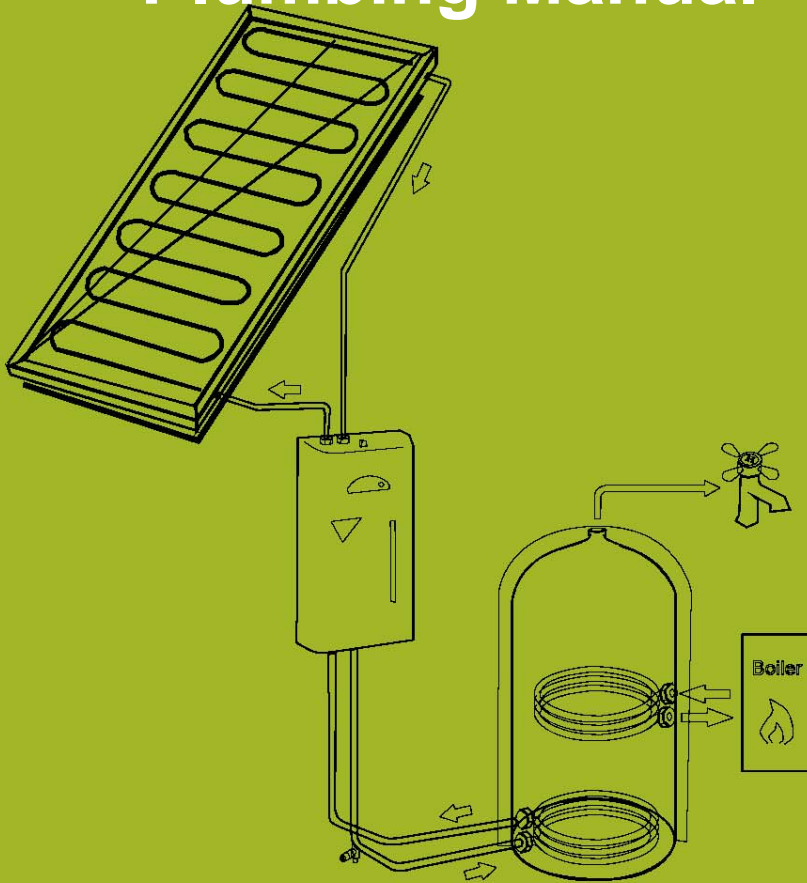
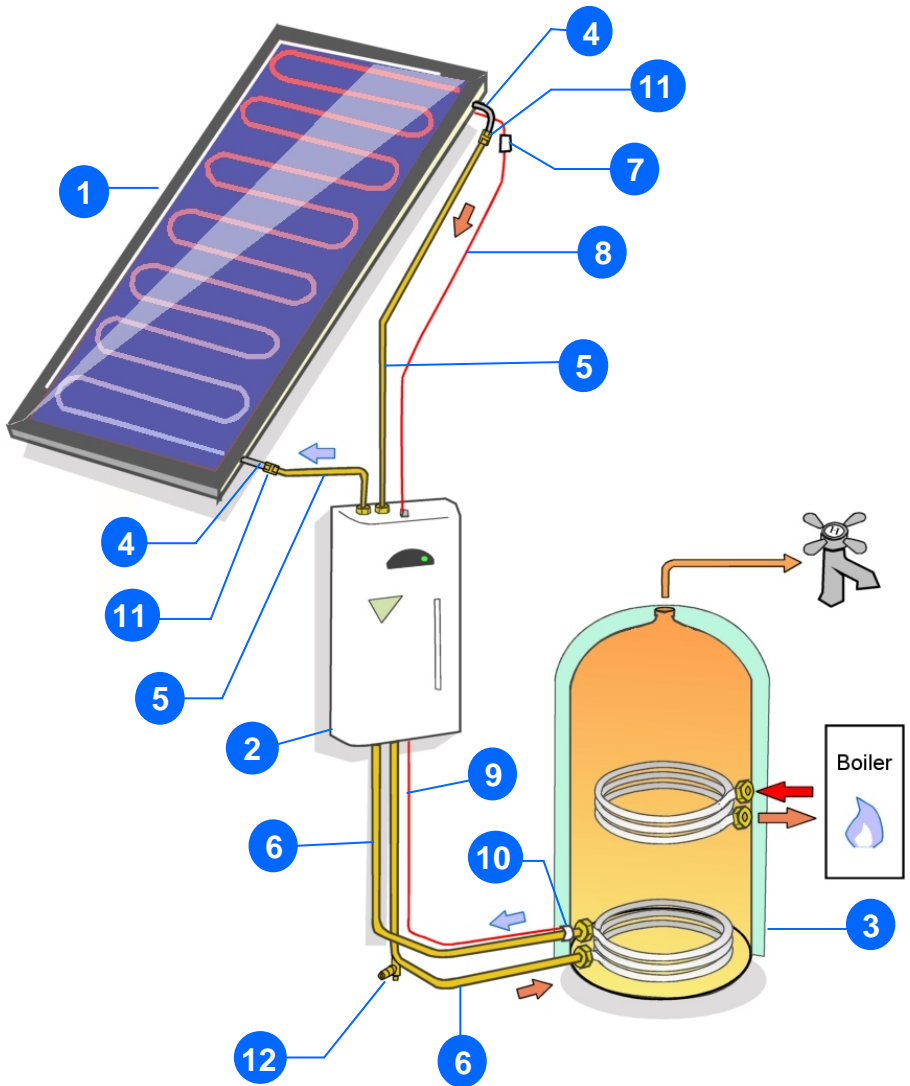


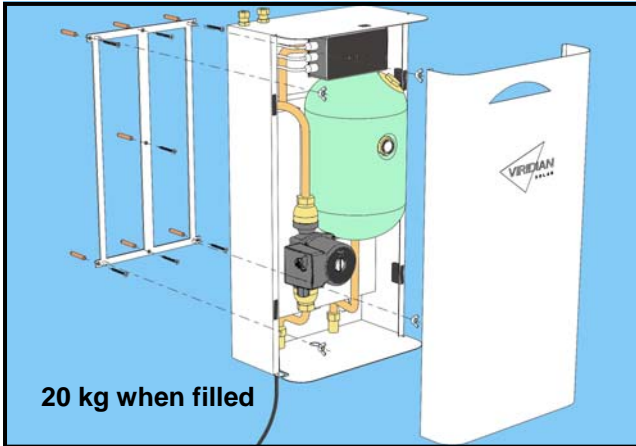
Plumbing Manual





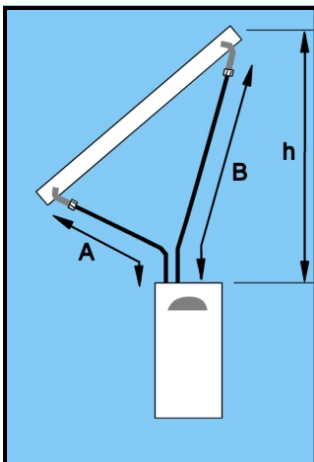
		In Kit
1	Solar Panel	-
2	Control Unit	1
3	Solar Cylinder	-
4	Solar Panel Flexi-hose	-
5	10mm copper pipe	-
6	15mm pipe	-
7	Signal wire connector	1
8	Panel signal cable	1
9	Cylinder sensor and cable	1
10	Jubilee Clip	1
11	10-10 Compression fitting	-
12	Drain cock	-

1

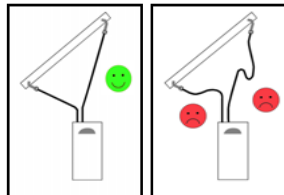


Secure the control unit support rail to the wall using the screws provided. Hang the control unit (2) on the studs and secure with wing nuts.

2

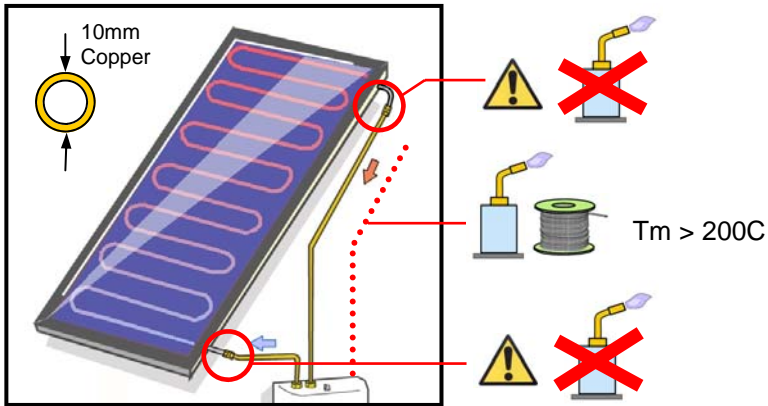


Solar Panels	Max (A+B)	Maximum h
1 x V20	38.0 m	4.5 m
1 x V30	32.0 m	
2 x V15	32.0 m	
2 x V20	26.0 m	
2 x V30	14.0 m	



The control unit (2) should be located relative to the solar panel(s) according to the table above. The pipes must have a continuous fall to the control unit greater than 1 in 30.

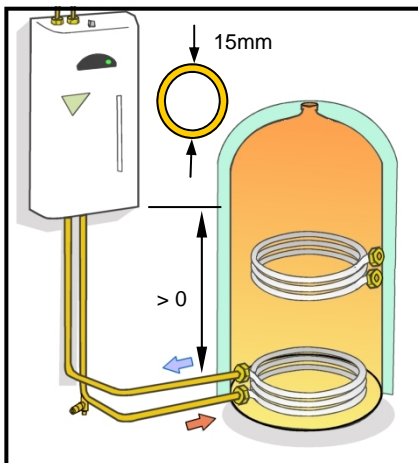
3



Connect between the flexible hoses and the top of the control unit using 10mm copper pipe. The right hand fitting on the top of the control unit connects to the top of the solar panel, left to the bottom.

Use compression fittings near the flexible hoses, do not solder . Use high temperature solder or compression fittings for all other connections.

4

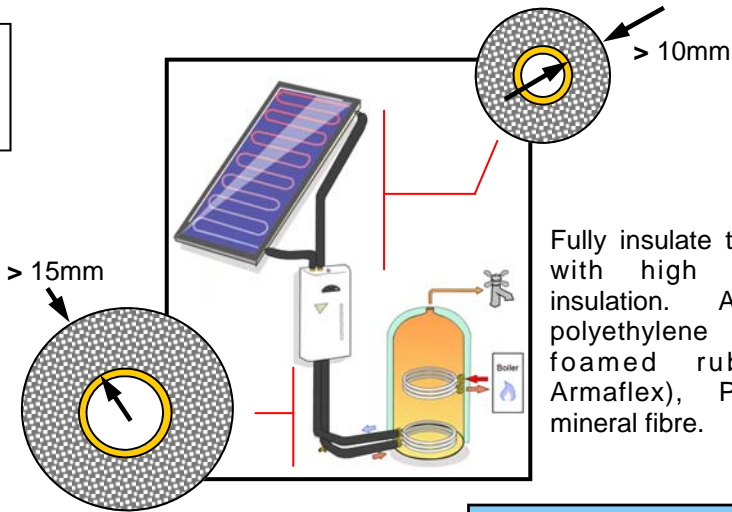


The bottom of the control unit should be above the cylinder solar coil connections.

Use 15mm pipe to connect from control unit to solar coil in cylinder. For easy filling, connect the right hand outlet from the control unit to the coil bottom.

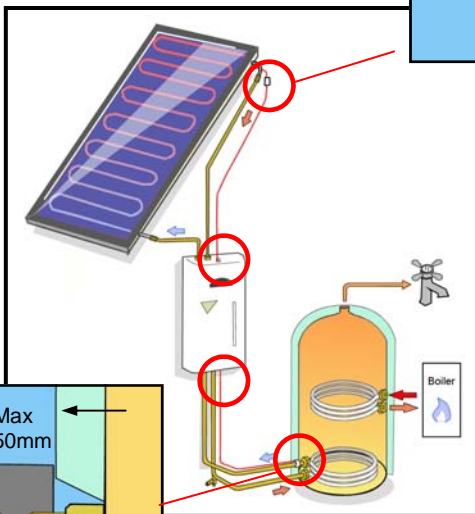
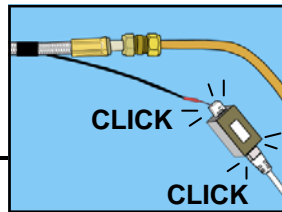
Install a drain-cock at the lowest point.

5



Fully insulate the solar loop with high temperature insulation. Avoid foamed polyethylene types, use foamed rubber (e.g. Armaflex), Polyurethane, mineral fibre.

6



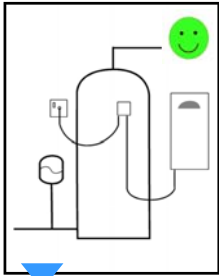
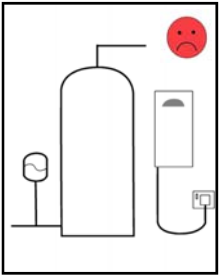
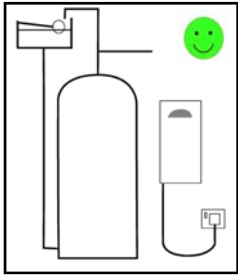
Connect the panel sensor cable to the top of control unit with the cable extension (8) .

Place cylinder sensor in lower cylinder pocket (if available). Secure in position, e.g. with silicone adhesive. Else attach the cylinder sensor to the return (cold) pipe as close to the cylinder as possible using jubilee clip (10). Insulate well around the sensor.

Connect the cylinder sensor cable (9) into the socket in the bottom of the control unit.

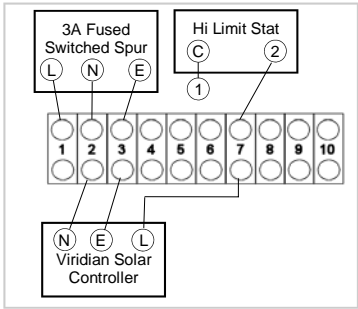
WIRING

7



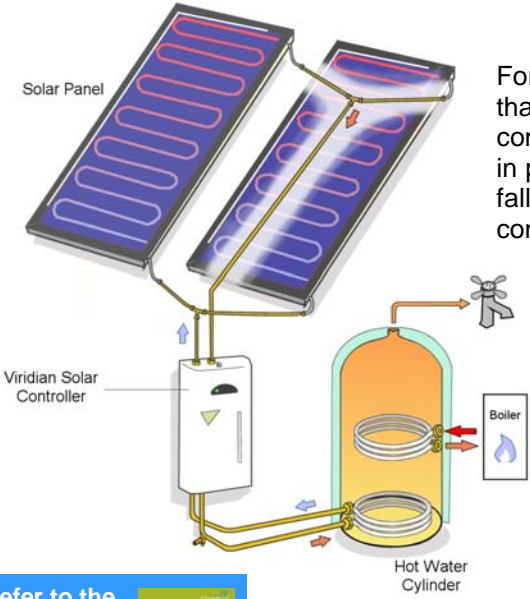
For vented cylinders, the control unit can be plugged into a normal socket.

For un-vented hot water stores, the control unit should be wired from a switched spur via a high-limit stat.



⚠ DO NOT SWITCH ON UNTIL COMMISSIONING

8



For installations of more than one solar panel, connect the panels to flow in parallel, with a constant fall all the way to the control unit

Please refer to the Commissioning Manual for the next steps

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