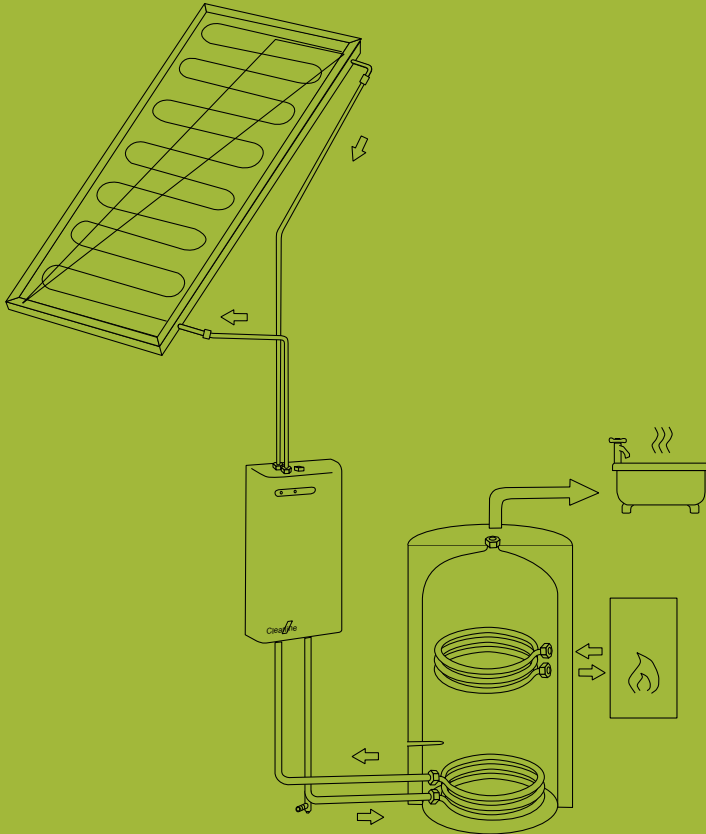
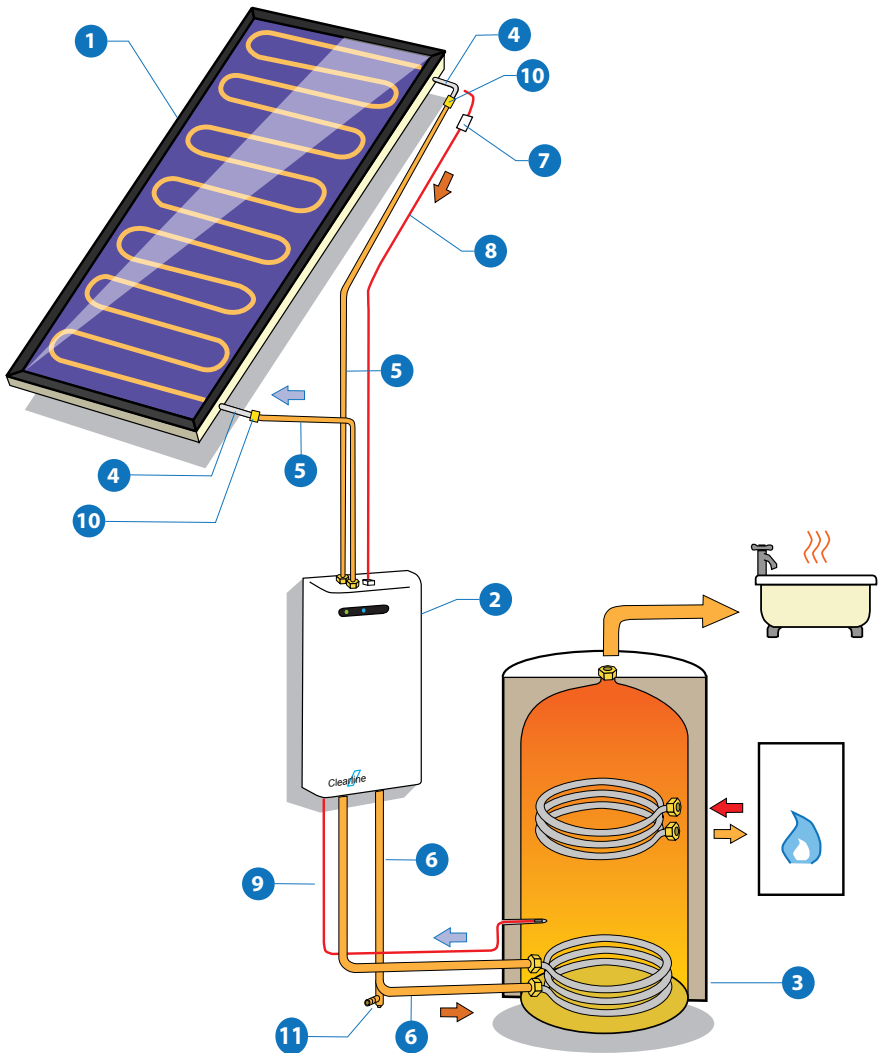


Plumbing Manual

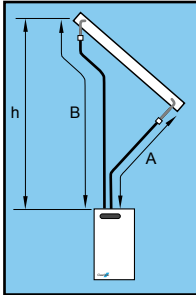




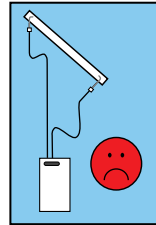
Key

No.	Description	In Kit
1	Solar Panel	-
2	V200 Control Unit	1
3	Solar Cylinder	-
4	Solar Panel Flexi Hose	-
5	10mm Pipe	-
6	15mm Pipe	-
7	Signal Wire Connector	Part No. V223
8	Panel Signal Cable (20m)	
9	Cylinder Sensor and Cable	1
10	10-10mm Compression Fitting	-
11	Drain Cock	-

1

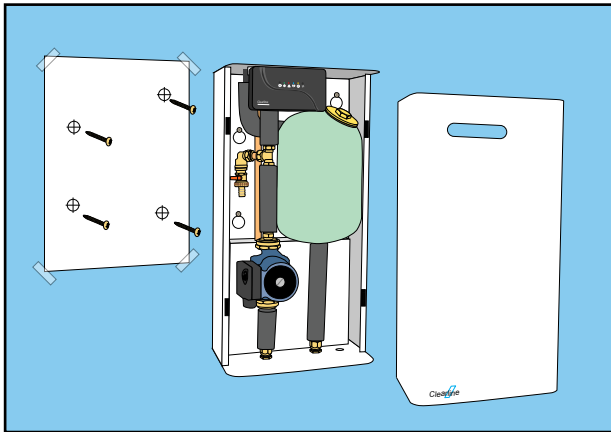


Panel Area (m ²)	Maximum A+B (m)	Maximum h (m)
2	38	4.5
3	32	
4	26	
6	14	



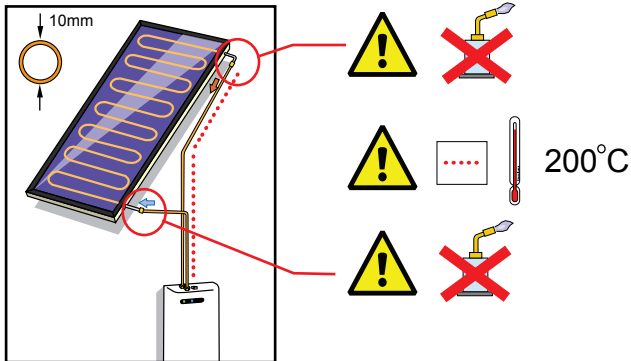
The control unit (2) should be located relative to the solar panel(s) according to the table above. The pipes must have a continuous fall to the control unit greater than 1 in 30.

2



Use the paper template to mark the position for the fixing screws. Part-screw the fixing screws into the wall. Hang the control unit (2) on the screws and tighten fully.

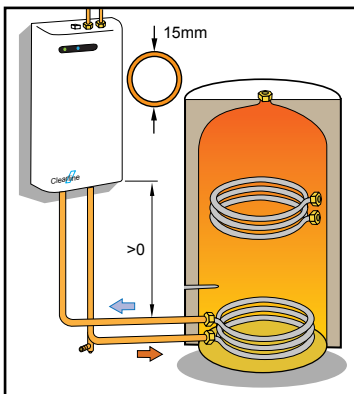
3



Connect between the flexible hoses and the top of the control unit using 10mm copper pipe. The rear fitting on the top of the control unit connects to the top of the solar panel, the front fitting to the bottom of the panel. This allows solar fluid to fill the panel through the bottom hose, and return to the pump station from the top hose.

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

4

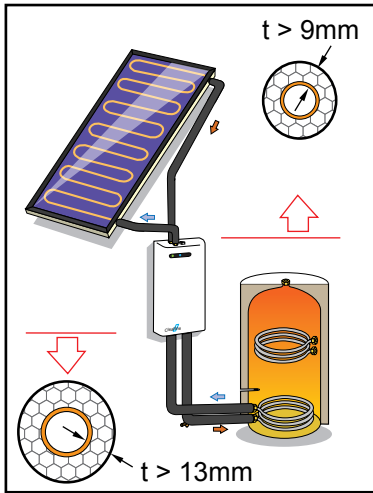


The bottom of the control unit should be above the cylinder solar coil connections.

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

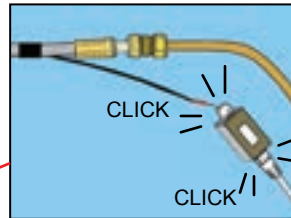
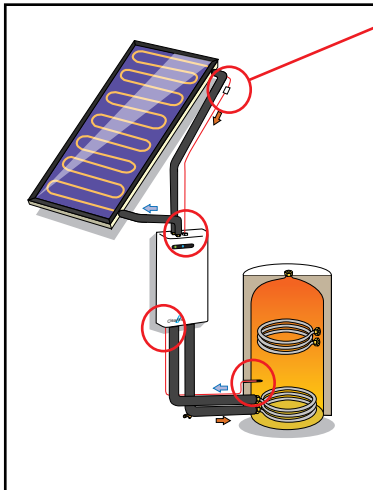
Install a drain-cock (11) at the lowest point.

5



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

6



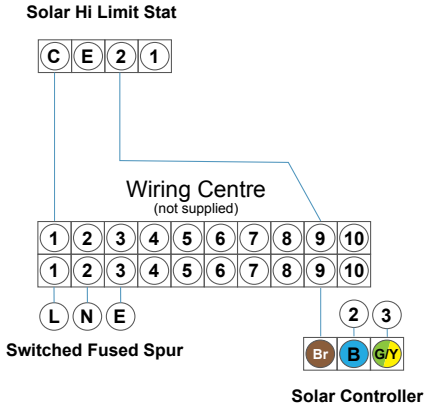
Connect the panel sensor cable to the top of control unit (2) with the panel signal cable (8).

Place the cylinder sensor (9) in the solar coil sensor pocket on the cylinder. Secure in position, e.g. with silicone adhesive.

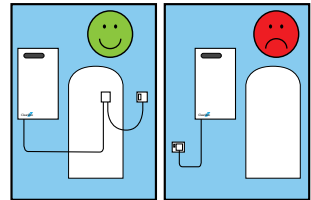
Where no cylinder pocket is available, attach the cylinder sensor to the return (cold) pipe as close to the cylinder as possible using the jubilee clip provided. Insulate well around the sensor.

Connect the cylinder sensor cable (9) into the socket in the bottom of the control unit (2).

7 Wiring

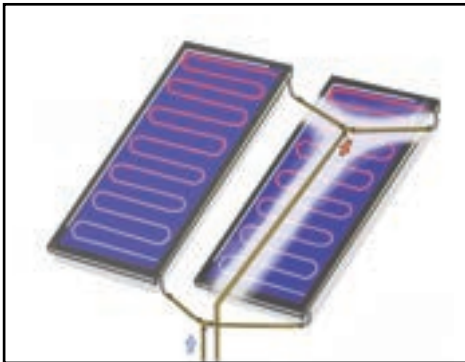


The control unit (2) should be wired from a switched spur via a high-limit thermostat on the hot water cylinder.



Do not switch on until commissioned

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



Refer to the commissioning manual for the next steps

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