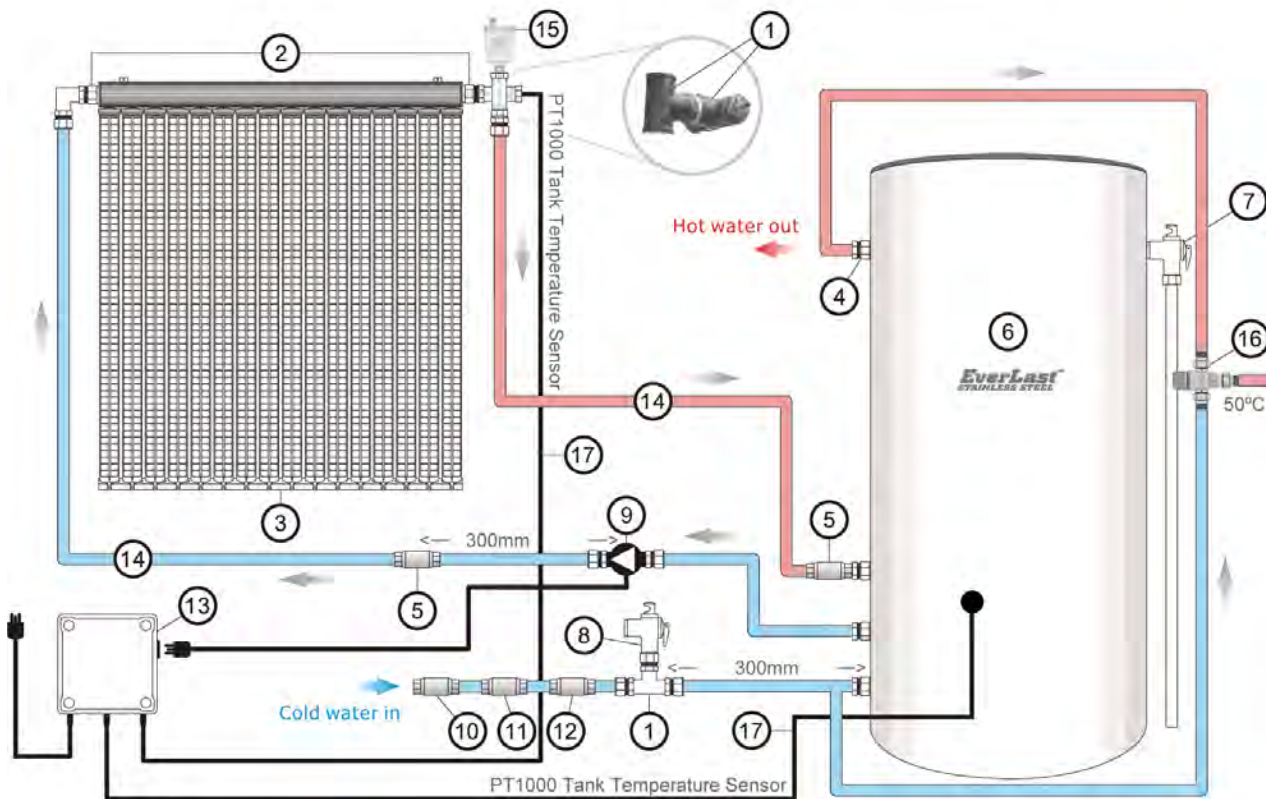


# Greenland Systems solar electric dhw system

# TECH SHEET 1B



No	Component Name	Qty	Notes
1	T-fitting †	4-5	
2*	Compression Fitting C22 x ½", DZR †	2	
3*	GLS Solar Collector (70 or 100 mm) †	1	
4	¾" Male Connecting Fitting †	2	
5*	High Temperature Non-Return Valve (170°C) †	2	
6*	Everlast Stainless Steel Cylinder †	1	
7*	PTR Valve, 850kPa (supplied with cylinder) †	1	
8	Expansion Control Valve (optional) †	1	
9*	Grundfos UP15 Pump (240V/25W DZR, PWA)	1	
10	Strainer †	1	
11	Pressure Limiting Valve (500kPa max) †	1	
12	Non-Return Valve †	1	
13*	SolarKnight (GLS) Controller	1	
14	½" or ¾" Copper Tube (with solar insulation) †	A/R	
15	Caleffi Automatic Solar Air Vent	1	
16	Caleffi ¾" Solar Tempering Valve	1	
17*	PT 1000 Temperature Sensors (170°C)	2	

13. SolarKnight controller - refer separate manual for wiring configuration and controller settings.

14. Copper pipe and insulation - all copper tubes between the collector and the cylinder to be lagged with suitable UV resistant high temperature rated insulation.

17. Caleffi air vent - if manifold is installed level, air vent may be located on inlet side (as shown in diagram). However, if manifold has any incline, it must be located at the highest point of the manifold (hot water outlet), along with the PT 1000 collector sensor. This will require an extra T-fitting off the existing T-fitting.

\* Included with GLS solar systems.  
† AS/NZS approved.

