

DIRECT FLOW DOMESTIC HOT WATER SUPPLY SYSTEMS

What systems?

- GLE Solar ICS collectors with special system design;
- Hot water inside the collector directly flows into the storage tank with pipe pressure;
- No heat exchange; no pump, no controller to operate; very cost effective.

Where to use?

- Good solar condition;
- Light freezing climate zone;
- Some shading condition around.

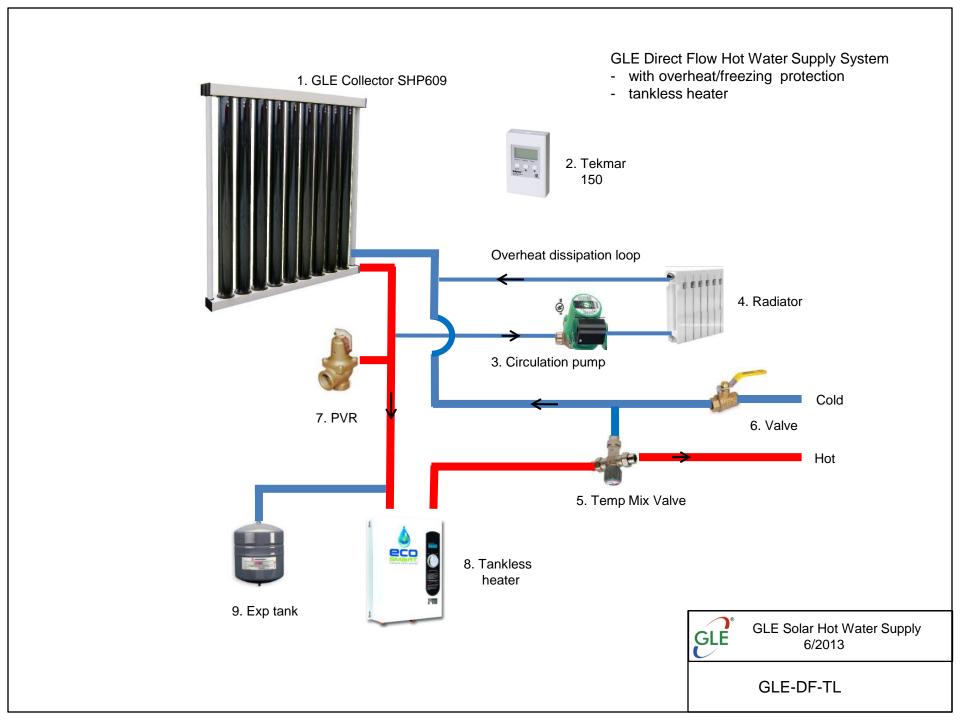
Which features?

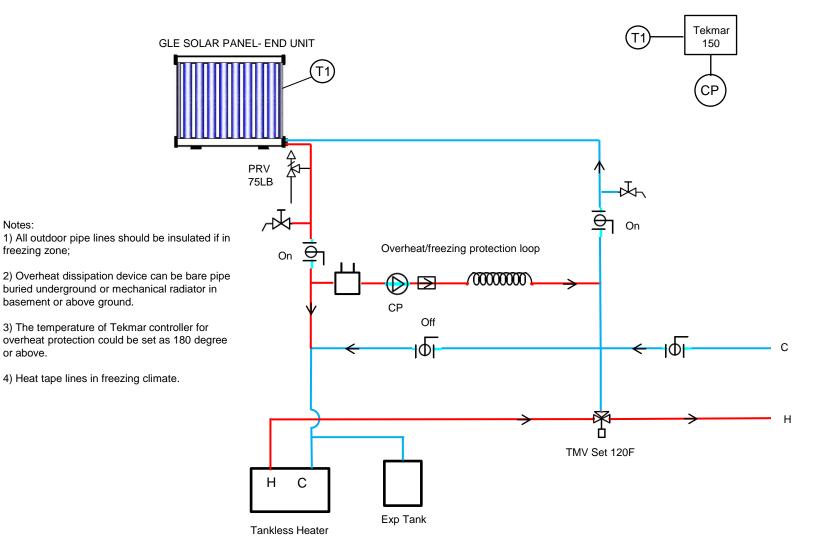
- Simplest system, no tank, no pump to work, no heat exchange, very cost effective;
- Maximize the solar BTU production; overheat/freezing protection;
- SRCC OG-100, OG-300 and FSEC of collectors and systems certificated.











Notes:

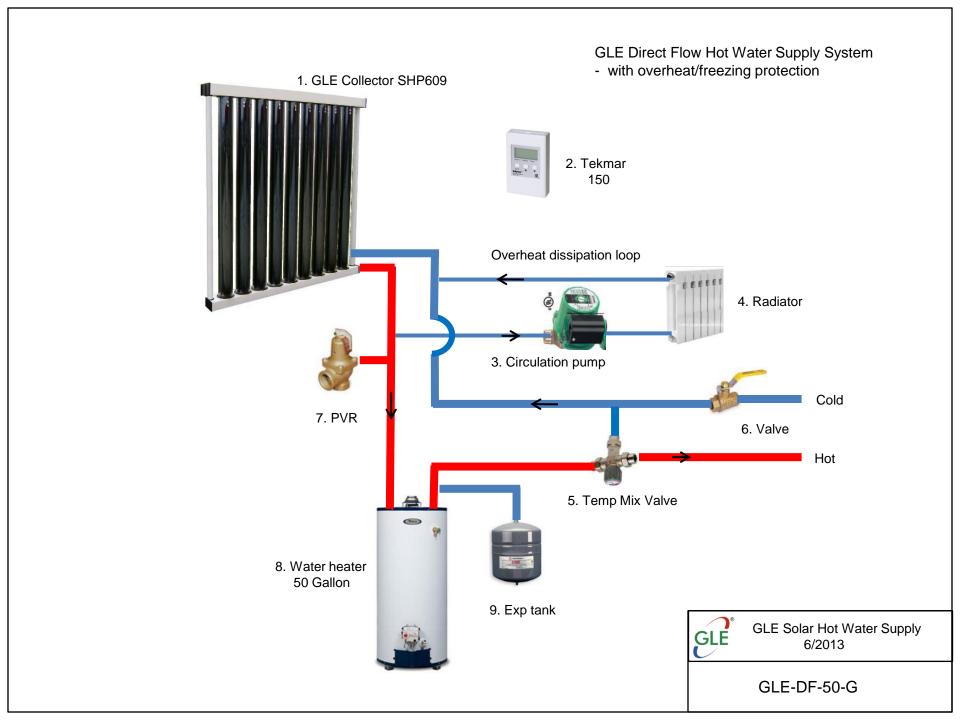
freezing zone;

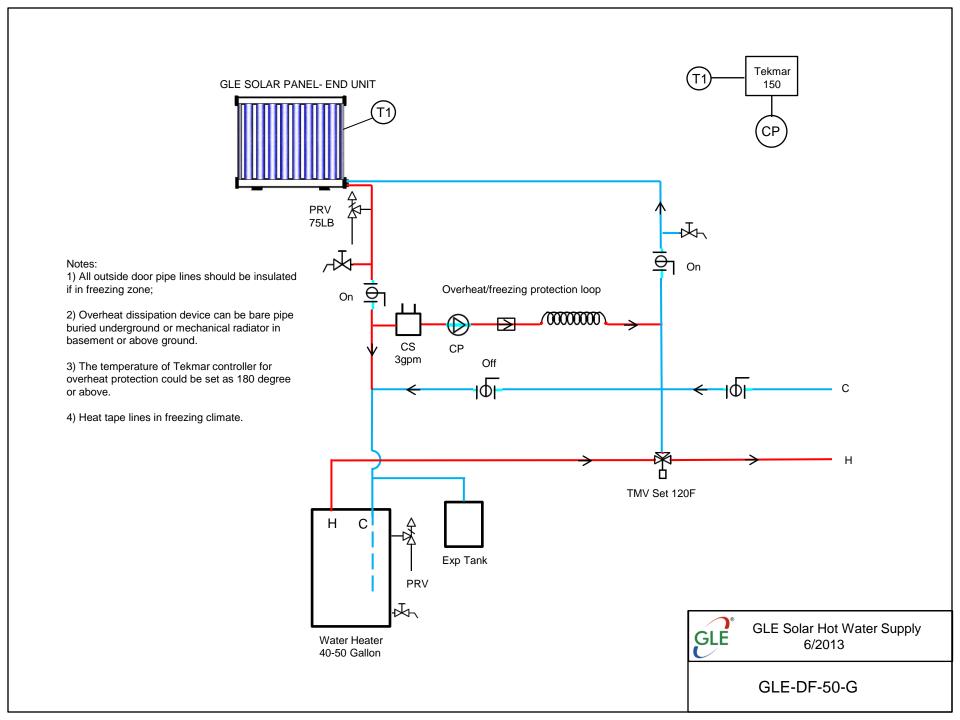
or above.

basement or above ground.

4) Heat tape lines in freezing climate.







Key Devices and Components List

Order	Name	Description	Sizes	Notes
1	Solar collectors	GLE Solar ICS collectors	4 foot; 6 foot panel	
2	Controller	Tekmar 152; 150; 155		
3	Circulation pump 1	Wilo Star 8 BS7		Main circulation
4	Circulation pump 2	Wilo		Protection loop pump
5	Dissipation Device	Pex pipe loop or mechanical radiator		
6	PRV	Pressure relief valve	75 LB	
7	Storage tank	Regular electric water heater as storage tank, Whirlpool	40 – 50 G	
8	Water heater	Electric or gas based heater or tankless heater ECO	40 – 50 G	
9	Expansion tank	Amtrol ST-8	3.2 Gallon	
10	Temperature mix valve	Honeywell RAM	120 set temperature	
11	Ball valves			
12				