



DIRECT CIRCULATION COMMERCIAL HOT WATER SUPPLY SYSTEMS

What systems?

- GLE Solar ICS collectors with special system design;
- Hot water inside the collector is pumped to circulate directly into the storage tank;
- No heat exchanger required; water is directly heated, resulting in higher system efficiency and daily production.

Where to use?

- Excellent solar, or very good solar condition;
- Warm and light freezing climate zone;
- No shading condition around.

Which features?

- ICS collection provides advantages over conventional low mass collectors that require large storage tanks where ICS has integral storage resulting in smaller storage tanks (50% to 70% storage tank size reduction).
- Maximize the solar BTU production; overheat protection;
- SRCC OG-100, FSEC of collectors certificated.



1. GLE Collectors Array

GLE Direct Circulation Commercial Hot Water Supply System

- Storage tank,
- Overheat protection
- Differential temp. control

4. Circuit setter



2. Tekmar 155+150

5. PVR



6. Solenoid valve

3. Circulation pump

Overheat protection
To hot water drain

12. Valve

Cold

Hot

11. Temp Mix Valve

9. Exp tank

10. Exp tank

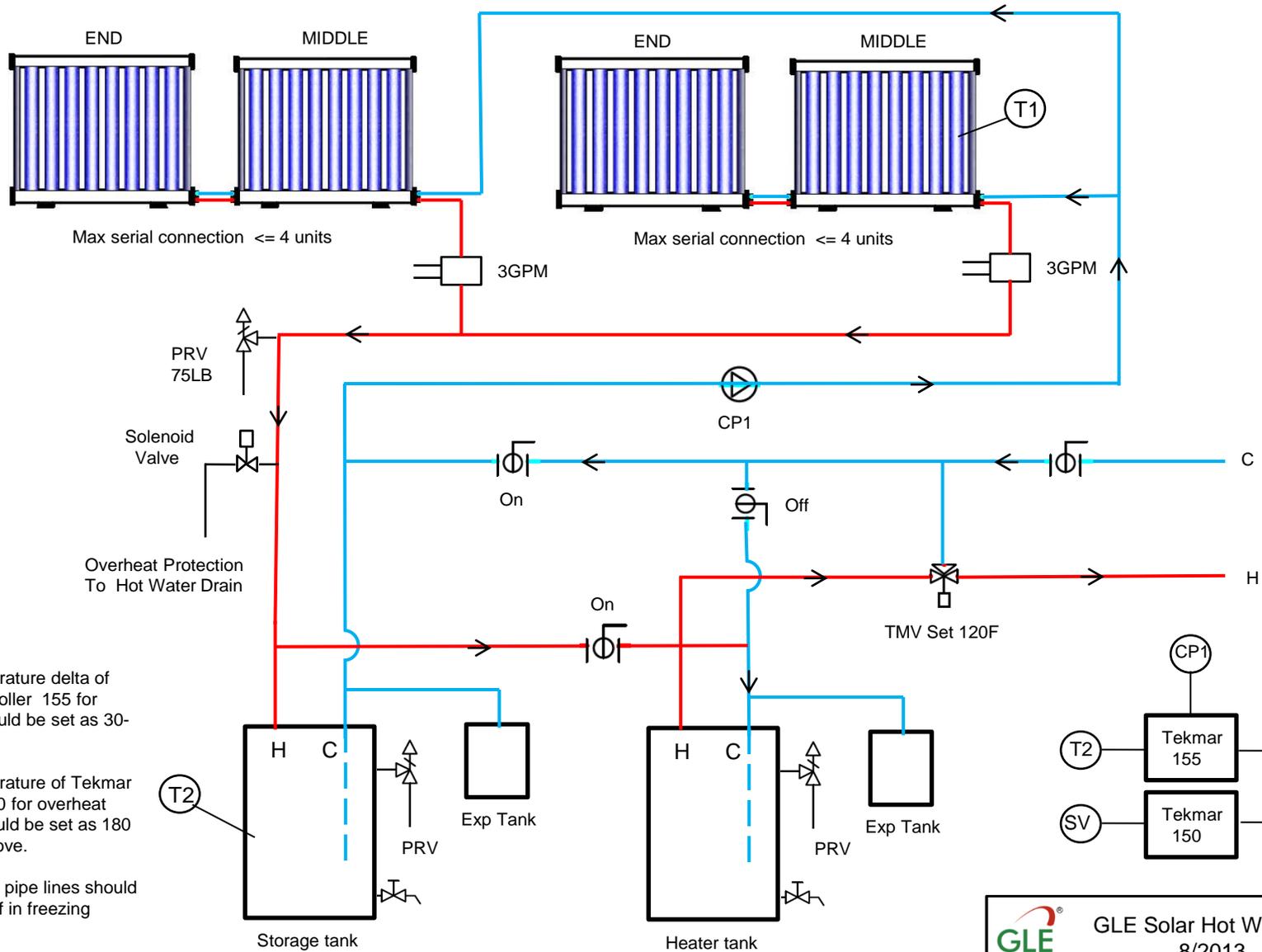
7. Storage tank

8. Water heater



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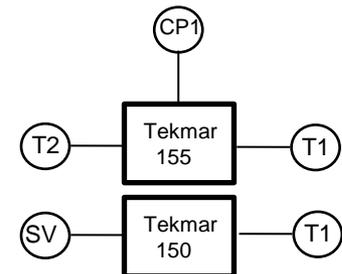
Notes:

1) The temperature delta of Tekmar controller 155 for circulation could be set as 30-40 degree.

2) The temperature of Tekmar controller 150 for overheat protection could be set as 180 degree or above.

3) All outdoor pipe lines should be insulated if in freezing zone;

4) Heat tape lines in freezing climate.



1. GLE Collectors Array

GLE Direct Circulation Commercial Hot Water Supply System

- Storage tank,
- Overheat protection

4. Circuit setter

2. Tekmar 152

5. PVR

3. Circulation pump

6. Solenoid valve

12. Valve

Overheat protection
To hot water drain

11. Temp Mix Valve

9. Exp tank

10. Exp tank

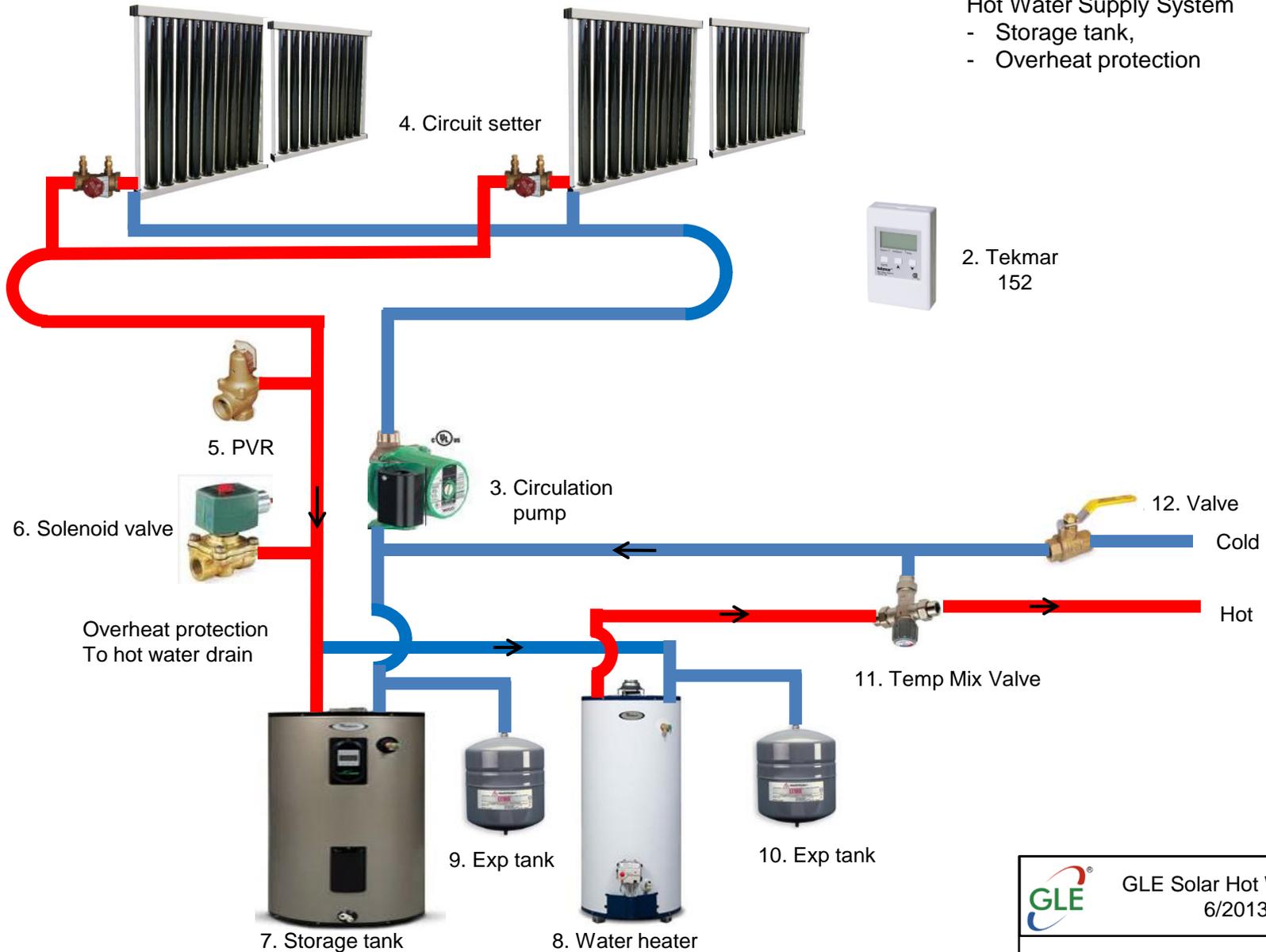
7. Storage tank

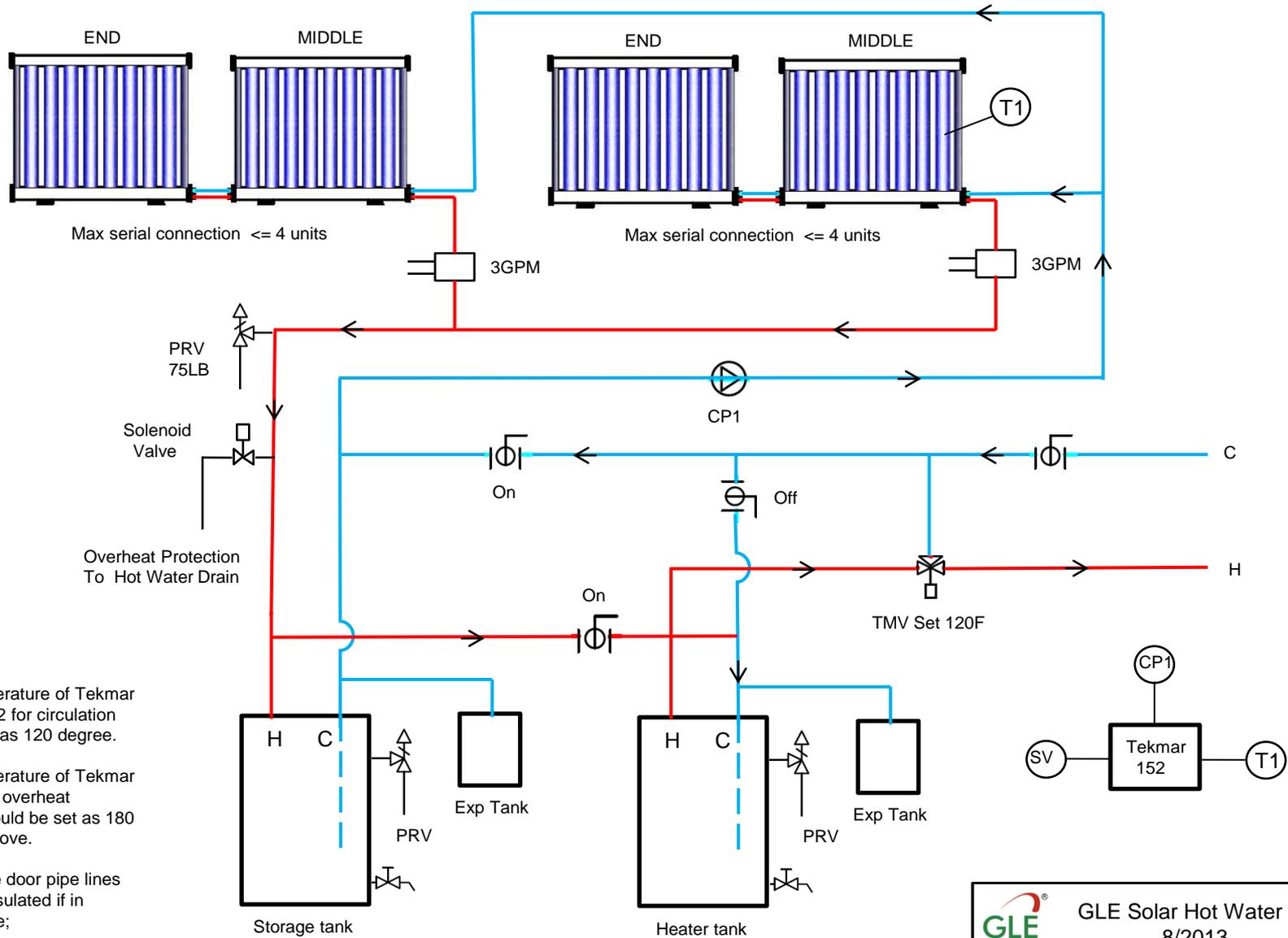
8. Water heater



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Notes:

- 1) The temperature of Tekmar controller 152 for circulation could be set as 120 degree.
- 2) The temperature of Tekmar controller for overheat protection could be set as 180 degree or above.
- 3) All outside door pipe lines should be insulated if in freezing zone;
- 4) Heat tape lines in freezing climate.