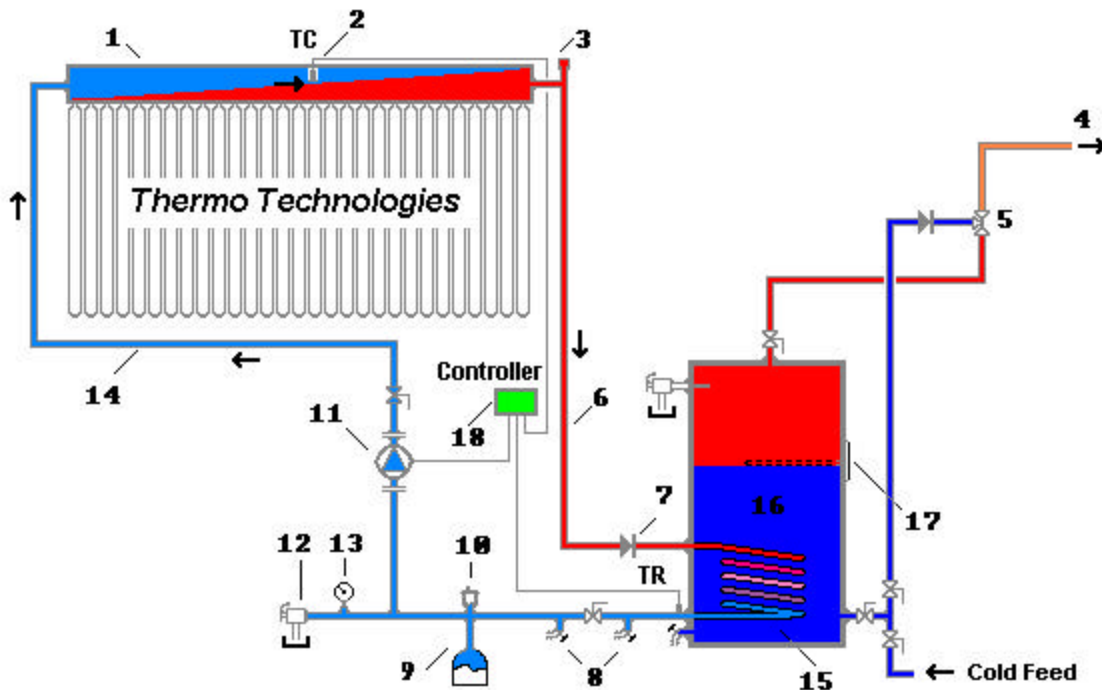


Minneapolis Package – Minneapolis Package is suitable for areas with questionable water quality and all climate conditions. The Closed Loop Solar Heating Systems are the preferred option for extremely cold areas. An 80-gallon Rheem tank with internal heat exchanger can be ordered with the package.



- | | | | | |
|----------------------|---------------------------------------|--|--------------------------|----------------------|
| 1. Collector | 5. Tempering Valve | 9. Expansion Tank | 13. Pressure Gauge | 17. Immersion Heater |
| 2. Collector Sensor | 6. Collector Return | 10. Air Scoop & Air Vent | 14. Collector Supply | 18. USDT 2001 |
| 3. Manual Air Valve | 7. Check Valve | 11. Circulating Pump with flanges or couplings | 15. Heat Exchange Coil | Controller |
| 4. Hot Water to Taps | 8. Hose Bibs for Filling and Flushing | 12. Pressure Relief Valve | 16. Solar Hot Water Tank | |

Operation

- The **USDT Controller (18)** will switch on the pump when the temperature at the collector sensor **TC** is higher than the return temperature **TR** by at least the pre-selected amount.
- The **pump** circulates a heat transfer fluid around the loop.
- **Heat** from the collector is transferred to the storage tank through the heat exchange coil.
- With the pump running, if delta T is less than preset value, the pump will switch off.
- When a preset tank temperature is reached at **TMAX**, the controller can switch off the pump.
- The **check valve** (non-return valve) prevents heat from the tank rising towards the collector should the tank be warmer (e.g. at night).