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.

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).