

Buderus Solar STECA Control:

1. STECA Solar Controls Model TR0603mc U

- a) STECA Solar control model TR0603mc U comes equipped with 6 inputs and 3 120/60/1 line voltage outputs.
- b) The user may adjust desired storage tank temperature(s) but all other parameters are predetermined by the manufacturer and fixed to avoid system damage or potential harm to the user.
 - Delta T between storage tank(s) and solar Collector, Minimum 16° F
 - Delta T between Storage tank(s) and desired storage temperature, Minimum 6° F
 - Maximum collector return water temperature 261° F

2. Sequence of Operation:

- a) 10k Ω probes are inserted into the membrane of the solar collector as well as in the dry well of the storage tank(s)
- b) Establish and set desired primary storage tank temperature
- c) Set desired temperature for auxiliary or secondary storage tank
- d) Wire the solar 120 volt pump module to R1 on the STECA control
- e) The STECA control monitors the temperature between the collector temperature and the storage tank(s)
- f) As long as the temperature of the panels S1 is 16° F higher than the storage tank sensor S2 the pump is initiated and heat is transferred from the collectors to the primary storage tank.
- g) Once the primary storage tank S2 achieves the temperature set by the user, R2 (120 V) on the STECA control is energized, powering the diverting valve and transferring heat to the secondary storage tank S3 as long as the temperature in the primary tank S2 does not fall below the desired setting.
- h) When the secondary tank S3 falls below set point R2 is de-energized and the diverting valve is closed and until the primary tank S2 is re-established.
- i) When both primary tank S2 and secondary tank S3 have reached user set point temperatures, STECA control will disengage solar pump module until S2 and S3 fall below user set points.