

## HTST System- 25 GPM

Mfg: Cherry Burrell

Model:

Stock No. 450.TGP376aa.18

Serial No.

HTST System- 25 GPM. Includes 100 gallon (378 liter) Balance Tank with lumenite level controls, Waukesha Model 60 positive displacement pump with 5hp SEW varidrive, Automatic Flow Divert Valve with Leak Detector, hot water set, 15 second holding tubes, 3 pen ABB Chart Recorder, ABB Flow Meter, and 1991 Cherry Burrell Stainless Steel Triple Tube Heat Exchanger. S/N 91578. National Board Number 42XX. Shell side: MAWP 220 psi at 300 °F to -20 °F. Tube side: 500 psi at 300 °F to -20 °F. Heat exchanger has three sections: REGEN, HEATING, and COOLING. The REGEN section consists of 14 tubes, the HEATING section consists of 12 tubes and the COOLING section consists of 26 tubes. The triple tube diameters are 1.5 in. (3.8cm) inside, 2.5 inches (6.4cm) middle and 3.5 in. (8.9cm) outside. The triple tubes are 140 in. (3.5 meters) long.

Flow starts at balance tank. The product is pumped from the balance tank through the heating side of the REGEN section. After the REGEN section, the product flows through the HEATING section where it is pasteurized. The product then flows through the 15 second holding tubes and to the flow divert valve. At this point, if the product temperature is below the temperature set point, it is recycled into the balance tank. If product is at or above the temperature set point, product is allowed to flow into the cooling side of the REGEN section. After the REGEN section, the product flows into the COOLING section where it is cooled down to 35-39 °F depending on the cooling media temperature and flow rates. Product then exits the system.





