

## Stainless Steel Essence Recovery System

<b>Mfg:</b>	<b>Model:</b>
<b>Stock No. CCFP526.</b>	<b>Serial No.</b>

Stainless Steel Essence Recovery System. System is used to "strip" feed juices of their flavor by evaporation and to "concentrate" these esters in a distillation column. System consists of a reboil u-tube, with a reboil rate of 328 lbs/hr, connected to an 11-1/2 in. inner dia x 17 ft. H essence column for fruit juice concentration. A Whitlock Hi-Transfer shell and tube heat exchanger/condenser, with (222) 5/16 in. dia. x 36 in. L tubes and 65.9 sq. ft. of surface area, is designed to keep condensate temperature as near to boiling as possible (212 F). Another Whitlock Hi-Transfer shell and tube heat exchanger with (84) 5/16 in. dia. x 36 in. L tubes and 24.7 sq. ft. of surface area, is used as a condenser/vent cooler and is designed to cool non-condensibles to within 15-20 F of water temperature. Last, an essence cooler, with (12) 1-3/8 in. dia. x 15 ft. L tubes, transmits the essence to the concentrate. Overall dimensions: 10 ft. L x 5 ft. W x 24 ft. H.

Whitlock Hi-Transfer Shell and Tube Heat Exchanger, Size: 5-Y-36, Type: AHI-1-3-0, shell design pressure 375 psig @ 400 F, (84) 5/16 in. dia. x 36 in. L tubes, 24.7 sq. ft. of surface area. Inlets/outlets: 1 in. dia. threaded fitting, (1) 1/2 in. dia. air inlet, (1) 1-1/2 in. dia. threaded inlet, (1) 1-1/2 in. dia. male ferrule with hex nut (1) 3 in. dia. with an 8 in. dia. flange and (4) 3/4 in. dia. attachment holes at a center-to-center distance of 6 in. Overall dimensions: 52 in. L x 10 in. W x 15 in. H.

Whitlock Hi-Transfer Shell and Tube Heat Exchanger, Size: 8, Type: A, (222) 5/16 in. dia. x 36 in. L tubes, 65.9 sq. ft. of surface area. Inlets/outlets: (1) 1/2 in. dia. pipe, (1) 2 in. dia. pipe, (1) 3 in. dia. with an 8 in. dia. flange and (4) 3/4 in. dia. attachment holes at a center-to-center distance of 6 in., (1) 4 in. dia. with a 9-1/2 in. dia flange and (8) 3/4 in. dia. attachment holes. Overall dimensions: 54 in. L x 13 in. W x 28 in. H.

Essence Cooler Shell and Tube Heat Exchanger, (12) 1-3/8 in. dia. x 15 ft. L tubes. Inlets/outlets: (1) 1/2 in. dia. FPT, (1) 5/8 in. dia. FPT, (1) 3/4 in. dia. male ferrule with hex nut, (1) 1-1/2 in. dia. female ferrule, (1) 1-1/2 in. dia. male ferrule with hex nut, (2) 1-1/2 in. dia. MPT.

Previously used with cherry and strawberry.





