

Frozen Juice System

Mfg:	Model:
Stock No. JMB522aa.110	Serial No.

Frozen Juice System. Designed to take 3000 gallons per hour of frozen orange juice (0 degrees F), melt, grind, and liquefy it to a pumpable stage of 34 °F. Entire system consists of roller conveyor track, vertical lift dumper, stainless steel thaw tunnel, stainless steel food chopper, 400 gallon tank with agitator, and Tri-Clover positive displacement pump. Roller conveyor track features (14) rollers suspended in a 78 in. L x 37-1/2 in. W x 16 in. H frame. Height at conveyor inlet: 14 in. Maximum aperture/clearance: 25 in. L x 24 in. W. Vertical lift has ability to dump product at a height of 14 ft. Lift is driven by a 2 hp Baldor Industrial Motor coupled to a Reynard Wormgear Speed Reducer with a ratio of 60:1 and a final rpm of 28.83. Product travels down through a 30 in. L x 29 in. W stainless steel tunnel into a stainless steel food chopper. Food chopper has (2) 12 in. dia. x 28 in. L press rollers. Chopper is activated by a 40 hp U.S. Motor coupled to a U.S. Motor Drive, with an output rpm of 350.79. A 400 Gallon Double Jacketed, Sloped-Bottom Stainless Steel Tank mixes and blends product with a (4) paddle agitator. Agitator blades are 11-1/2 in. L x 4 in. W. A 5 hp Lincoln AC Motor in conjunction with a Winsmith Speed Reducer, with a final rpm of 58.16, provide the power to rotate the agitator. A 9 in. L x 2 in. W tank outlet feeds into a Tri-Clover Positive Displacement Pump inlet. Pump has a 3 in. dia. outlet. Overall dimensions: 20 ft. L x 70 in. W x 9 ft. 6 in. H.

Baldor Industrial Motor, 2 hp, 1730 rpm, 28.83 rpm (final), 208-230/460 V, 60 Hz, 3 phase. Reynard Wormgear Speed Reducer, 60 ratio, 5545 in-lb. torque.

U.S. Motor, 40 hp, 1775 rpm, 350.79 rpm (output), 230/460 V, 94.8/47.4 amps, 60 Hz, 3 phase.
U.S. Motor Drive, 5.06 ratio.

400 Gallon Double Jacketed, Sloped-Bottom Stainless Steel Tank with Agitator. (2) 5 in. dia. sight glasses. Inlets: (2) 1 in. dia. MPT tank, (2) 1-1/2 in. dia. jacket pipes. Outlets: (1) 1 in. dia. Q-line jacket fitting, (1) 1-1/2 in. dia. Q-line jacket fitting, (1) 9 in. L x 2 in. W tank outlet.

Lincoln AC Motor, 5 hp, 1745 rpm, 58.16 rpm (output), 230/460 V, 13.0/6.8 amps, 60 Hz, 3 phase.
Winsmith Speed Reducer, 30 ratio.

Tri-Clover Positive Displacement Pump, Model: PRS125-R3-TC1-4-ST-S, S/N: 186188-01, impeller diameters: 6 in. Pump inlet: (1) 9 in. L x 2 in. W inlet with (4) 1/2 in. dia. attachment holes. Pump outlet: (1) 3 in. dia. Q-line fitting. U. S. Motor, 5 hp, 1745 rpm, 276.28 rpm (output), 208-230/460 V, 15.0-13.6/6.8 FLA, 60 Hz, 3 phase. Falk Ultramite Motor Drive, 6.316 ratio.





