



BROWN INTERNATIONAL CORPORTATION, LLC

Model 1050

Vertical Mixer

Applications: The Model 1050 is configured to provide high efficiency washing and leaching of citrus pulp, fruit and vegetable pomace or other food materials for maximum concentrate recovery. The high turbidity caused by the rotating paddle blades provides excellent mixing and efficient solids contact with the solvent.

Operation: Washing and leaching is accomplished in the Model 1050 by means of paddles rotating concentrically inside the cylindrical tank. Staggered paddles pitched at an appropriate angle force the product downward. Fixed paddles on the inside of the tank mesh with the rotating paddle to provide high turbidity while eliminating any vortex being formed in the liquid. Raw material is pumped into the lower side inlet of the Vertical Mixer creating a counter current type of operation, providing additional efficiency. Mixed liquid and leached solids flow out of the top mounted discharge weir. The height of the mixer discharge allows for a gravity feed to the finishing stage, eliminating the need for an additional pump, while maintaining a complete ground level system installation.

Construction: Stainless steel alloys and FDA approved materials are used throughout including all support members. As a result, maintenance is reduced and product contamination due to paint specks and rust is eliminated. The Model 1050 has only two replaceable, highly reliable wear parts. There are no periodic adjustments and only one easily accessible lubrication point. As a result, the Vertical Mixer will provide years of smooth, maintenance free operation.

Cleanability: Utilizing a valve arrangement on the feed pump system, the Vertical Mixer can be thoroughly cleaned with a backflush of caustic or sanitizing solution, and has two included, top mounted, **Brown** Rotary Wash Nozzles. A 4" bevel seat sanitary ferrule outlet at the bottom of the tank is provided for easy drainage.

Drive: A low maintenance, direct drive gear motor provides power for the Vertical Mixer. This eliminates the need for chain or belt drive adjustment and periodic replacement of drive components.

Specifications:

Tank diameter	22"	Overall width	27 1/2"	Overall height	144"
Height of inlet	26"	Height of product outlet	110"	Size of inlet	3" diameter
Horsepower	3	Mixer speed	35 rpm	Input capacity	up to 50 gpm



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