



DESIGN INTEGRATED TECHNOLOGY, INC.

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2HPCV HELICONE MIXER

STANDARD SPECIFICATIONS

CAPACITY	Batch Range = 1.25 to 5 oz (37 to 148 ml)	Max. Internal Volume = 12.5 oz (370 ml)
DIMENSIONS	34" Depth x 19" Width x 40" Height	
WEIGHT	340 Lb. (154 Kg)	
BOWL / HEAD	<p>Bowl is double intersecting cone-type designed for 150 psi positive pressure or vacuum to 0.01 inHg. at a temperature of 450F. Vessel is equipped with baffled jacket to permit uniform circulation of heating and cooling medium at a pressure of 100 psi. Material will be 316 SST throughout with 320 scotch brite finish on interior of mix chamber and built in accordance with ASME code. Head will be complete with a sight glass, two loading sanitary ports, and two NPT ports. The bowl is bolted to the head.</p> <p>Optional: Interior surface finish of 16Ra mirror polish finish</p>	
BLADES	Twin opposing helicone blades with 270 degree twist constructed of alloy 2205 duplex stainless steel with a polish finish to match bowl and head.	
DRIVE	<p>0.75 HP, Inverter drive motor, 115/230 VAC, 60Hz, single phase, TEFC. The motor drive powers a right angle reducer, providing blade speeds of 1 to 60 rpm.</p> <p>Optional: Exp proof motor (Class I Group D: Class II Group F,G)</p>	
CONTROLS	<p>Standard: Mounted direct motor drive for simple motor operation</p> <p>Optional 1: Full controls cabinet with pushbutton controls featuring safety e-stop/limit circuit and the ability to integrate optional digital readouts for sensors and external equipment control.</p> <p>Optional 2: Full controls cabinet with PLC touchscreen featuring automation (recipes), advanced safety circuit, sensor readout, data collection (speed, temperature, torque, etc.), alarms, and optional external equipment control and feedback.</p>	
O-RINGS	<p>Standard: Viton o-rings for all</p> <p>Optional: High Temp Silicone, FFKM (Kalrez, Simrez, eta), PFA encapsulated Silicone</p>	
DISCHARGE	Bottom discharge. Manually operated, slide type valve, 316 SST with a 1/2" opening.	
SEALS	<p>Double mechanical seals designed for specified pressure / temperature service.</p> <p>Standard: Thermocouple, type J, located in the bowl wall protruding into mix to monitor temperature</p>	
SENSORS	Optional: Pressure transducer, Preset pressure relief valve, Vacuum sensor, RPM Sensor, Humidity sensor	
FRAME	<p>Standard: Aluminum frame</p> <p>Optional: Powder coated steel or stainless steel frames available</p>	
CUSTOMIZATION	In addition to the standard options listed above, each mixer can be customized to fit the needs of each customer. Features can be added or changed to integrate the mixer into your process.	