

500 and 1,000 ml EZE Seal Stirred Reactors Connection Schedule

All of the connections shown will be provided. For any accessories not ordered, the corresponding connection will be plugged. All connections at cover are AE high temperature F437 Flat Bottom adapted to the "External" connection listed below.

Opening	Purpose	Internal	External	Location
"A"	Charging Port	0.38 Port	3/8" Tube	Cover Top
"B"	Gas Inlet	3/16" Tube	1/8" Tube	Cover Top
"C"	Sparge Tube	3/16" Tube	1/8" Tube	Cover Top
"D" & "H"	Cooling Coil	3/16" Tube	1/4" Tube	Cover Side
"E"	Vent and Pressure Indication	None	1/8" Tube	Cover Side
"F"	Safety Head	None	1/8" FNPT	Cover Top
"G"	Thermowell	3/16" Tube	1/8" Port	Cover Top
"J"	Blow Pipe	3/16" Tube	1/8" Tube	Cover Top
"K"	Liquid Sample	3/16" Tube	1/8" Tube	Cover Top
"L"	MagneDrive® Agitator	None	AE Special	Cover Top

Technical Specifications

Parker Autoclave Engineers provides a variety of optional accessories to custom configure each reactor. See the EZE-Seal Stirred Reactor Ordering Guide to configure a reactor for a specific application.

Seal Materials: Metal Gasket (vessel material, silver plated), Buna-N, Ethylene-Propylene, PTFE, Viton®, Silicone, or Kalrez® O-rings.

Approvals: Optional ASME Code Stamp, or CE Mark.

Stand: Tall Bench Top or Floor Stand

Body Lift: None or Manual Jack.

Agitator: MagneDrive® MAG075-01 Series with 7 in-lb (0.79 N-m) static torque, Purebon® (carbon graphite) bearings, or MagneDrive® MAG075-02 Series with 16 in-lb (1.8 N-m) static torque, Purebon® (carbon graphite) bearings.

Motors: 1/2 HP (0.37 KW) General Purpose DC with either: 90 V Armature (120 V unit), or 180 V Armature (240 V unit).
1/2 HP (0.37 KW) Explosion-Proof DC with either: 90 V Armature (120 V unit), or 180 V Armature (240 V unit).
Air Motor with manual or electronic speed adjustment.

Impeller Styles: AE Dispersimax, Straight Turbine, Axial Flow-Up, or Axial Flow-Down; All 1.25 inch (31.8 mm) diameter.

Baffle: Two (2) blade spring loaded baffle bar (removable).

Speed Sensor: Magnetic Sensor General Purpose, or Intrinsically-Safe Magnetic Sensor (Barrier Required)

Heating: Furnaces: 120 VAC, Single Phase or 240 VAC, Single Phase; 500 ml- 1,000 Watt, 1,000 ml - 1,200 Watt
Jacket: Removable, Spiral Baffled with O-ring Seals.

Internal Accessories Available:

Liquid Sample Tube, 1/8" Valve
Blow Pipe, 1/8" Valve
Sparge Tube, 1/8" Valve
Cooling Coil, 1/8" Tube
Process Thermocouple, Type J or K

External Accessories Available:

Vent Valve, 1/8" Valve
2.5" (63.5 mm) Dial Pressure Gage - Multiple ranges available
Pressure Transducers - Range Dependent on Gage
One or Two Gas Inlet, 1/8" Valves, Shared Connection
Catalyst Charging Valve, 3/8" Tube with 1/4" port
External Thermocouple, Type J or K
1/2" Port Manual Flush Valve (Requires Floor Stand)

Supporting Information

Please refer to the following sections of the catalog for complimentary products and additional technical details.

- "EZE-Seal Stirred Reactor Ordering Guide" - Provides a step-by-step guide on how to configure the EZE-Seal Reactor to a specific application.
- "Instrumentation" - Details Autoclave Engineers' full line of control options for temperature, pressure, and speed.
- "Agitation" - Provides additional specifications on the MagneDrive® magnetic agitator and available impeller systems.
- "Pressure Vessels" - Provides details on the EZE-Seal vessel assembly.
- "Stirred Reactor Selection Guide" - Provides general information on all of Parker Autoclave Engineers' stirred reactors.

¹ Viton® and Kalrez® are registered trademarks of DuPont Dow Elastomers. ² Purebon® is a registered trademark of Pure Carbon.

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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ISO-9001 Certified

Bulletin SR-EZ-500/1L