



Parker Autoclave Engineers
Providing Tools for Research and Industry

Stirred Reactors

Stirred Reactor Conversion Kit Ordering Guide

Model Number: **A - B - C - D - E - F - G - H - I - J - K - L - M**

A: Closure Type

- B** - Bolted Closure
- E** - Eze-Seal
- Z** - Zipperclave®

B: Size

- CK13** - Converts 100 ml to 300 ml
- CK31** - Converts 300 ml to 100 ml
- CK51** - Converts 500 ml to 1000 ml
- CK15** - Converts 1000 ml to 500 ml
- CK24** - Converts 2000 ml to 4000 ml
- CK42** - Converts 4000 ml to 2000 ml

C: Material

- SS** - 316 Stainless Steel
- HC** - *Hastelloy® C-276

D: Bottom Port (Center)

- 0** - None
- 1** - 1/2" with Manual Flush Valve
(Requires Floor Stand)
- 2** - Flat Bottom Connection (Plugged)
F437FB 100 - 1000 ml Reactors
F750FB 2000 - 4000 ml Reactors

E: Approvals

- 0** - None
- 1** - ASME Code Stamp
- 2** - CE Mark Compliance

F: Impellers/Shfts/Baffle Bars

- A** - Dispersimax (6 Blade) w/ Baffle Bar¹
- B** - Turbine (6 Blade) w/ Baffle Bar
- C** - Axial-Up (4 Blade) w/Baffle Bar
- D** - Axial-Down (4-Blade) w/Baffle Bar
- E** - No Impeller (Hollow Shaft & Baffle Only)
- F** - No Impeller (Solid Shaft & Baffle Only)

G: Liquid Sample

- 0** - None
- 1** - Sample Tube Only
- 2** - Sample Tube with Manual Valve²

H: Blow Pipe³

- 0** - None
- 1** - Blow Pipe Only
- 2** - Blow Pipe with Manual Valve²

I: Sparge Tube / Ring³

- 0** - None
- 1** - Sparge Tube Only
- 2** - Sparge Tube and Manual Valve²

J: Cooling Coil

- 0** - None
- 1** - Cooling Only
- 2** - Cooling coil with 1/4" Manual Valve²
- 3** - Cooling coil with 1/4" Solenoid Valve (120V)
- 4** - Cooling coil with 1/4" Solenoid Valve (240V)

K: Process Thermocouple

- 0** - None
- 1** - Thermowell Only
- 2** - Thermowell with Type "K"
- 3** - Thermowell with Type "J"

L: Heating and Cooling^{4,5}

- 0** - None
- 1** - Electric Band Heater 120 VAC Single Phase
- 2** - Electric Band Heater 240 VAC Single Phase
- 5** - Baffled Removable Jacket 1/4" NPT
(450 °F (232 °C) Max)

M: External Thermocouple

- 0** - None
- 1** - Type "K"
- 2** - Type "J"

Note: 1 - Dispersimax Impeller is not available on 100 ml Reactors.
2 - Tubing to connect valves to reactor cover NOT included, consult factory if needed.
3 - Sparge Tube / Ring and Blow Pipe are available on 100 - 300 ml Reactors, but not both together.
4 - Verify furnace power and voltage (or amperage) for compatibility with temperature controllers.
5 - 4000 ml Eze-Seal only available in 240 VAC Power Supply.

<i>Closure Type and Reactor Volumes Available</i>		
<i>Bolted Closure</i>	<i>Eze-Seal</i>	<i>Zipperclave®</i>
300 ml	100 ml	500 ml
1000 ml	300 ml	1000 ml
2000 ml	500 ml	2000 ml
4000 ml	1000 ml	4000 ml
	2000 ml	
	4000 ml	

<i>Closure Type and Conversion Kits Available</i>		
<i>Bolted Closure</i>	<i>Eze-Seal</i>	<i>Zipperclave®</i>
2000 ml to 4000 ml	100 ml to 300 ml	500 ml to 1000 ml
4000 ml to 2000 ml	300 ml to 100 ml	1000 ml to 500 ml
	500 ml to 1000 ml	2000 ml to 4000 ml
	1000 ml to 500 ml	4000 ml to 2000 ml
	2000 ml to 4000 ml	
	4000 ml to 2000 ml	

Supporting Information

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

- * “Stirred Reactor Selection Guide” - Provides general information on all of Parker Autoclave Engineers’ stirred reactors.
- * “Pressure Vessels” - Provides details on the vessel assemblies.
- * “Agitation” - Provides additional specifications on the MagneDrive® agitator and available impeller systems.

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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