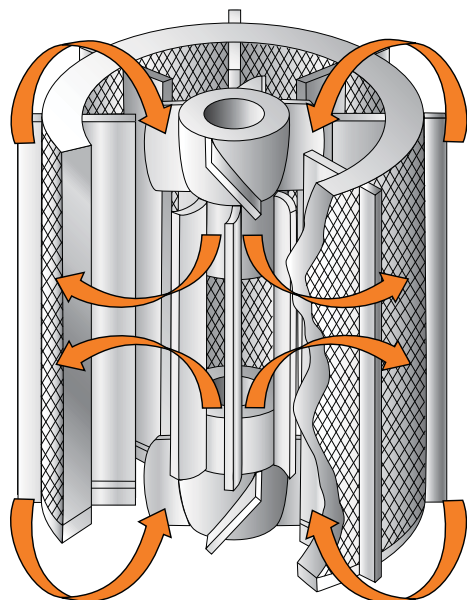


Robinson-Mahoney Stationary Catalyst Basket Reactor



Description: The fixed annular catalyst basket has baffles inside and outside to control vortices. The rotating shaft is equipped with two impellers that draw fluid into the center of the annulus at the top and bottom and outward through the catalyst bed. The gradient-free design and long duration circulation capability for multiple phases has made the Robinson-Mahoney the most widely used design for supported, heterogeneous catalyst research with liquids.

Reactants: Liquid/Solids, Gas/Liquid/Solids, Vapor/Liquid/Solids.

Typical Reactions: Liquefaction, hydro-treating, catalyst testing.

Basket Screen: 14 x 14 mesh, 0.020" (0.51 mm) wire and a nominal opening size of 0.051" (1.3 mm).

	1.8" (45.7mm) Inside Diameter	3" (76.2 mm) Inside Diameter
Basket Volume	3.0 in. ³ (49 cm ³)	8 in. ³ (131 cm ³)
Free Volume	16 in. ³ (262 cm ³)	63.5 in. ³ (1,040 cm ³)
Maximum Allowable Working Pressure	5,400 psig (372 Bar)	5,800 psig (400 Bar)
Temperature	650°F (343°C)	650°F (343°C)
Maximum Agitator Speed	1,000 RPM	1,000 RPM
Catalog Number Prefix	BC0005...	BC0012...

Common Customization: Conversion kits to switch an EZE-Seal™ or Bolted closure batch reactor into a Robinson-Mahoney catalytic reactor, special wire mesh size, special materials, specific pressure/temperature ratings, ASTM code stamp (or CE mark for Pressure Equipment Directive)

Standard Material: 316 Stainless Steel

See page 13 for the Ordering Guide

NOTES:

Product information can be downloaded after registering your name on the Autoclave Engineers web site:

<http://www.autoclaveengineers.com> to reach the main page of Autoclave Engineers reactor products. Request assembly drawings of the product(s) of interest to get more technical detail.

See the "Ordering Guide" of this bulletin to find drawing numbers and contact your local Sales Representative or Autoclave Engineers directly to obtain assembly drawings.