

## Product Description

The De Dietrich Process Systems 6.3 liter laboratory reactor combines the quality and strength you expect from DDPS glass-lined equipment, in a small-scale design, yielding an easy to operate laboratory reactor system. This apparatus makes it possible for you to test your product in DDPS glass-lined equipment before you scale-up to production sized units.

## Features

DDPS's 3009 glass lines the entire vessel interior and accessories. This is the identical lining that you will find on all DDPS vessels, thereby allowing you to test your process in the same ultra-pure environment that exists in a production size vessel.

The unique reactor stand incorporates a complete drive system and an emptying mechanism with a sturdy support structure. The V-belt transmission is outfitted with an inverter duty explosion proof motor and variable frequency drive achieving an agitator speed range of 50 – 700 rpm. The easy to operate emptying mechanism assures complete drainage of the product while allowing excellent cleanability.

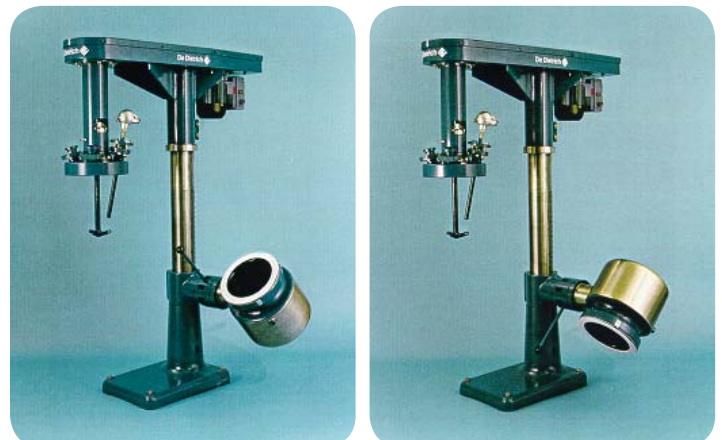
Additional features included as a standard supply are:

- Variable frequency drive
- Explosion proof, inverter duty motor
- Lubricated double mechanical seal (580 psig)
- One inch of insulation with polished stainless steel sheathing
- All necessary connection accessories: clamps, flanges and bolting
- Glass-lined baffle thermowell (designed to accept a RTD temperature sensor)

## Specifications

The 6.3 liter Laboratory Reactor is designed to handle a large range of process conditions:

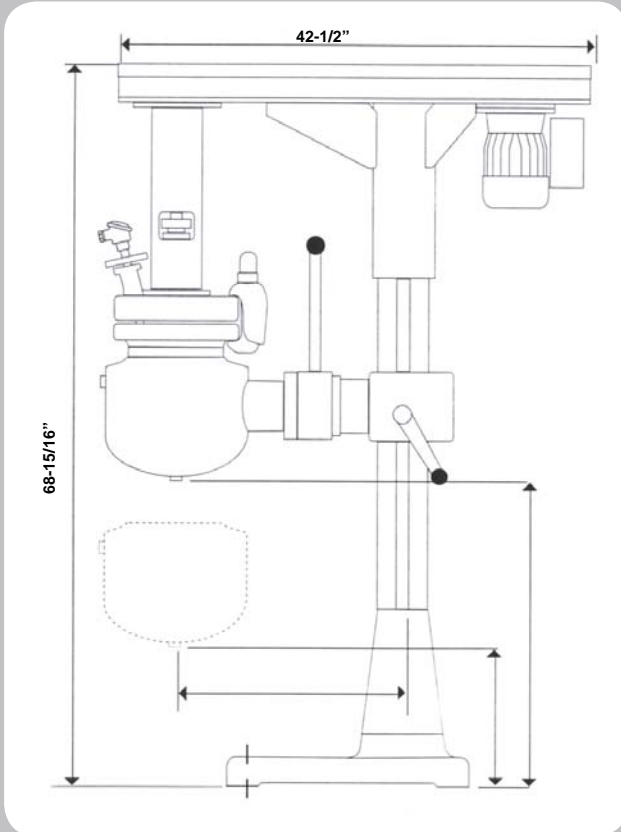
- The inner vessel is rated for 580 psig and full vacuum
- The jacket is rated for 290 psig
- Temperatures from -20 °F to 482 °F



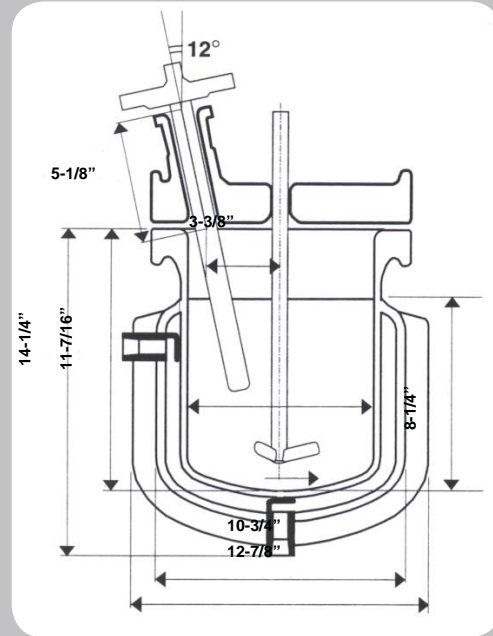
*Entire vessel can be lowered by a hand crank, released to swing to the side and tipped for complete product emptying.*

## OPTIONS

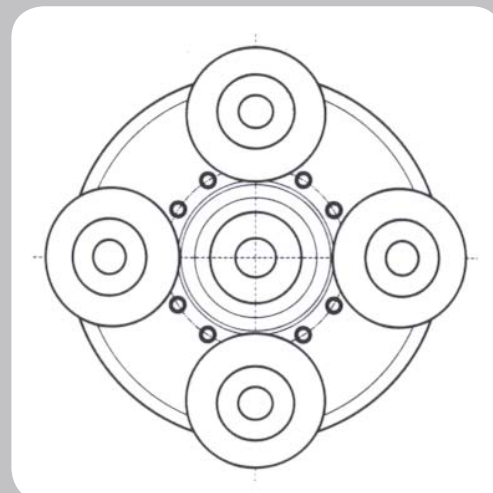
- Bottom outlet nozzle
- Anchor agitator for viscous materials or turbine agitator for high shear
- Dry running mechanical seal (87 psig, 300 rpm, 212 °F)
- Stainless steel hardware (clamps, flanges, bolting)
- UniTip® glass-lined thermowell
- Customized designs



*General configuration.*



*Standard dimensions.*



*Five top openings: four 1-1/8" nozzles, one with glass-lined baffle thermowell, one 1-3/16" centered agitator nozzle, pad type.*