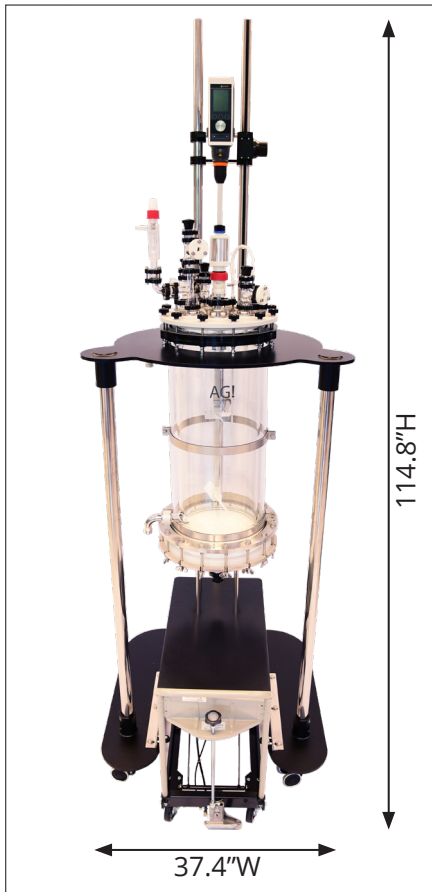


FILTER REACTOR PACKAGES

Complete Systems for Isolate Production

**PHARMACEUTICAL GRADE
GLASS FILTER REACTOR**
MAKE ISOLATE CAKE POWDER,
NOT CRYSTAL



50L FILTER REACTOR

Cascade Sciences' Filter Reactor Packages are complete systems for isolate production or other reactions. The reactor, filter housing, and vacuum/temp equipment are integrated into mobile carts.

These packages are available in 5L (Benchtop), 20L, and 50L vessel sizes. They feature quality, pharma-grade components from world-class manufacturers like Huber, Agilent, Asahi and Heidolph that are the standard in FDA, GMP, Health Canada pharmaceutical facilities.

FEATURES

- All in one reaction and filtration for isolate production (Winterization configurations also available)
- Make more cake - height adjustable and wide stir blade allows for maximum cake (isolate) yield
- Rapid reaction times. Achieve CBD isolate in about 4-6 hours
- Spray ball(s) inside reactor with valve control provide easy, uniform washes and system cleaning
- Vacuum glass vessel (carboy) for collecting mother liquors for ease of reprocessing
- Glass reactor has industry leading 110°C temp delta for demanding industry tolerances
- Full Jacket design for maximum temperature uniformity and minimized dead space
- Mobile cart for easy cake (Isolate) removal
- PTFE Filter assembly has double seal for maximum vacuum integrity
- Safety overpressure protection poppet valve

PACKAGE (20L and 50L) INCLUDES

- On-Site Professional Installation and Training
- All system components: reactor, filter housing cart, overhead stir motor, vacuum, temp control, all thermofluids, hoses, connection fittings, mobile carts/stands



MOBILE CART WITH COLD TRAP, VACUUM PUMP, CARBOY, AND TEMP CONTROL

YOU MAY ALSO LIKE Winterization Reactor



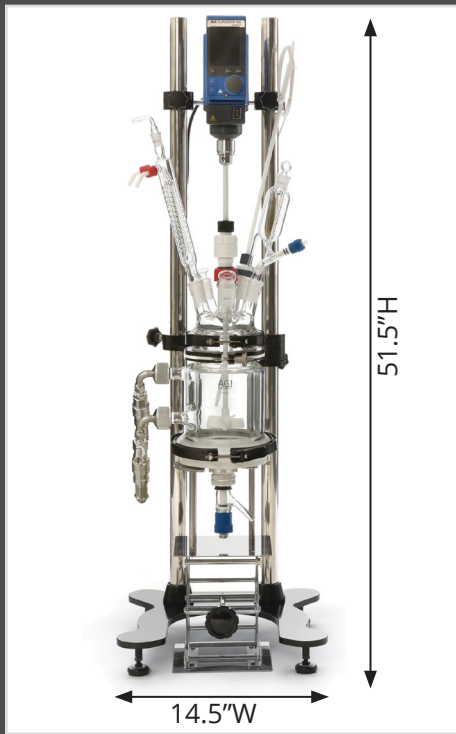
Winterize & Filter Crude
50L Filter Reactor with
Huber Unistat 815

503-847-9047
sales@cascaDESCIENCES.COM
cascaDESCIENCES.COM

VISIT OUR SHOWROOM!
6725 NE Evergreen Pkwy, Ste 106
Hillsboro, OR 97124

JACKETED GLASS FILTER REACTOR PACKAGES

SPECIFICATIONS



5L BENCHTOP FILTER REACTOR



20L FILTER REACTOR

JACKETED GLASS FILTER REACTOR	5L	20L	50L
Item Number	CS-5L-FR	CS-20L-FR	CS-50L-FR
Operating Pressures	Full Vacuum Up to +0.5 bar G	Full Vacuum Up to +0.5 bar G	Full Vacuum Up to +0.5 bar G
Operating Temperature	-90°C to +200°C (ΔT:110°C)	-90°C to +200°C (ΔT:110°C)	-90°C to +200°C (ΔT:110°C)
Package Footprints			
Approximate Overall Footprint	56"W x 28"D x 56"H (Benchspace)	76"W x 60"D x 102"H	76"W x 60"D x 118"H
Reactor Unit	14.5"W x 15"D x 51.5"H (Benchtop)	37.4"W x 54.1"D x 100.9"H	37.4"W x 54.1"D x 114.8"H
Equipment Pkg			
Vacuum Pump	6"W x 15"D x 7"H	Integrated Mobile Cart	Integrated Mobile Cart
Carboy	8"W x 8"D x 12"H	26"W x 26"D x 51"H	26"W x 26"D x 51"H
Cold Trap	14"W x 24"D x 14"H		
Temp Control	10.0"W x 17.7"D x 18.7"H		
Power Circuits			
	1 each 230V/1ph/20AMP powers temp control	1 each 230V/1ph/20AMP powers temp control	1 each 208V/1ph/20AMP powers temp control (needs two each 16A fuses)
	1 each 120V/1ph/20AMP powers vac pump, stir motor, cold trap	1 each 120V/1ph/20AMP powers vac pump, stir motor, cold trap	1 each 120V/1ph/20AMP powers vac pump, stir motor
			1 each 120V/1ph/20AMP powers cold trap

AGILENT VACUUM PUMP - NRTL CERTIFIED

Pumping Speed	2.1 CFM	5.4 CFM	9 CFM
Ultimate Pressure	2.5 x 10 ⁻¹ Torr	2 x 10 ⁻² Torr	10 x 10 ⁻³ Torr
Power	120V / 1ph / 3AMP	120V / 1ph / 6AMP (220V option)	120V / 1ph / 5AMP (220V option)

COLD TRAP - NRTL CERTIFIED

Capacity	3Qt. (2839mL)	3Qt. (2839mL)	3Qt. (2839mL)
Temperature	-50°C	-50°C	-105°C
Power	115V / 1ph / 4AMP	115V / 1ph / 4AMP	115V / 1ph / 13AMP

TEMPERATURE CONTROL - NRTL CERTIFIED

Type	230 Ministat	CC-508	Huber or Julabo
Temp Range	-40°C to +200°C	-55°C to +200°C	-90°C to +200°C
Power	230V / 1ph / 16AMP	230V / 1ph / 16.5AMP	208V / 1ph / 14.5AMP (2 each 16 AMP Fuses) (460V/3ph Option)



MOBILE CART FOR EASY CAKE REMOVAL



HEIDOLPH OVERHEAD STIRRER ON HEIGHT ADJUSTABLE FRAME