

## 20L Triple Jacketed Electric Lift Reactor

### Description:

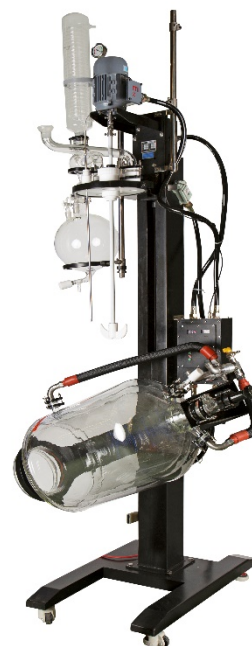
The Goldleaf Scientific Electric Lift Glass Reactor makes your life easy. This unique design allows separation of the body and lid of the reactor by simply pressing a button. Now you can easily access and add or remove large solids into the body.

These reactors are very versatile laboratory machines. The outer jacket allows for vacuum insulation so that you can greatly increase efficiency and reduce temperature loss to the outside environment. This not only allows your chiller/heater to operate with greater efficiency it also allows you to keep constant view of the inner process material because the vacuum jacketing prevents fogging and condensate build up.

The inner jacket allows you to use a chiller or heater to circulate fluid so that you can keep the contents at your desired temperature for as long as needed. The PTFE impeller with high torque motor can stir and agitate your sample. A convenient drain valve with optional filter is on the bottom to drain liquids.

The combination of controlled heating/cooling and agitation is ideal for many laboratory applications including:

- **Liquid to liquid extraction** (hexane/saline washes)
- **Solid to liquid extraction** (cannabinoid extraction with ethanol, heptane, etc)
- **Chemical reactions** (precise temperature/agitation control, and all surfaces and parts are glass or PTFE for optimal chemical resistance)
- **Bulk heating/cooling** (degassing/decarbing or winterization)
- **Distillation** (can distill your solvent, i.e. recover your ethanol)
- **Steam distillation** (for large scale terpene extraction)
- **Crystallization** (ideal for large crystal growth)
- **Cryo-extraction** (can withstand and hold very hot or cold temperatures)
- **Mix/refluxing material** (great for carbon scrubs or mixing absorbents)



These reactors greatly speed up your processing times and quickly pay for themselves by increasing the process scale and reducing downtimes. For a brief video of the reactor and its uses, click [here](#).

*\*Not recommended for pressure applications. Internal pressure can be relieved by using the reflux condenser. Always reduce concentration of residual flammable solvents from spent material to a safe level before removing from sealed machine.*

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	Type	Electric Lifting Reactor
Basic Parameters	Item SKU	REA20E4TJEL
	Glass material	3.3 Borosilicate
	Number of Jackets	3
	Frame material	Steel
	Pipe material	304 stainless steel
	Moving method	Rolling wheels with locking brake
	Reactor Body Volume	20L
	Jacket capacity	6L
	Number of ports in reactor lid	Six
	Operating Temperatures	-80-250°C (do not rapidly cool/heat glass)
	Maximum Temp difference	50°C ( $\Delta T$ =Glass temperature and temp of material inserted)
	Maximum Vacuum	5 Torr
	Maximum Pressure	8 PSI
	Stirring speed	0-450rpm
	Stirring rod diameter	12mm
	Functions and Configurations	Speed regulation method
Rotary speed display		LCD digital display
Temperature display		PT100 sensor digital display
Sealing method		PTFE sealing, $\phi$ 50 flange stirring opening
Reflux Condenser		Vertical efficient double-coil condenser
Addition Funnel		5L with 40# standard opening
Pressure reducing valve		34/45 joint with PTFE vacuum valve
Temperature measuring		24/40 Thermowell into body with PT100 inserted
Solid feeding		80mm OD threaded opening in PTFE lid
Discharging method		45/50 glass joint w/ PTFE piston on bottom reactor
Vacuum display method		Oil Vacuum Gauge
Stirring connection		Double axis pivot motor coupling w/ locking hex screw
Stirrer		Stainless rod, coated by PTFE
Main Frame		Steel with PTFE coating
Collecting device		5L round bottom flask w/ 3 ports and drain
Optional Configurations		Frame parts
	Stirring seal	Ceramic bearing, mechanical seal
	Solvent recovery	Horizontal condenser, large receiving flask w/cart
	Lid of reactor	PTFE or glass, can customize any ports upon request
	Electrical	120V standard, can be converted to 230V
	Stirring Type	1-4 blades, multiple heads at different levels
	Explosion-proof	C1D1, or C1D2
	Stirring speed	Low Speed/high viscosity, or fast speed/low viscosity

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## Electrical Specs:

Stirring power	Brushless DC 90W, with 3:1 gear reducer
Voltage/frequency (V/Hz)	120V/60Hz (230V upon request)
Lifting motor	Brushless DC 40W, with 12.5:1 gear reducer
Degree of Protection:	IP 30 (further protection available upon request)

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## Dimensions:

Exterior size (in)	36x29x84" (106" when fully raised)
Packing size (in)	77x25x41"
Gross Weight (lbs)	265lbs

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## Warranty:

Our products are warranted to be free from defects in materials or workmanship for one year from the date of purchase (original invoice date). Within this period, Goldleaf Scientific will, at its sole discretion, replace any components that fail in normal use.

Note: This warranty does not cover any glass parts or components, (all defective glass parts must be reported immediately after receiving) failures due to abuse, misuse, accident, unauthorized alteration or repairs or consumable products such as (but not limited to), heating elements, gaskets, and thermocouples.

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*Note: Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations may deviate from the original.*