

# L Dehydrator

The 3L Filters™ L Series dehydrators provide gross water removal from liquid hydrocarbon fuels to an efficiency of 99%. They employ a variety of replaceable coalescent filter packs to trap particle contamination and coalesce water from the fuel. Free water is collected in a drainage sump.

## Applications

Gross water removal from liquid hydrocarbon fuels such as aviation fuel, kerosene, gasoline, diesel and liquid propane.

## Standard Features

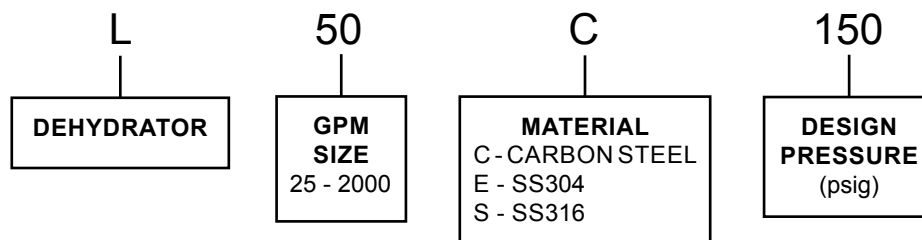
- designed to ASME Section VIII Div.1 & 2
- 150 psig standard design pressure
- -20°F to 150°F (-29°C to 66°C) standard design temperature
- 150 lb ANSI RF flanged inlet/outlet
- 3000 lb NPT couplings for vent, drain and pressure gauge connections
- horizontal vessel design
- carbon steel housing material
- hinged closure
- excelsior repack media
- water collection sump
- quick access for replacement of filter packs
- standard Swing Bolt closure with O-ring seal
- external primer finish for carbon steel housings
- saddle support



## Options & Accessories

- custom design pressures to 2500 psig
- custom flange ratings
- custom housing materials
- optional closure: Thru-Bolt
- O-ring closure seal in Buna or Viton®
- various application specific repack media available
- internal epoxy coating on carbon steel models
- electropolishing of stainless steel housings
- passivation of stainless steel housings
- paint or coating to customer specifications
- sump heater
- additional nozzles as needed
- air eliminators
- valves
- safety relief valves
- automatic water dump valve
- pressure gauges
- liquid level gauges
- working platform

## Model Coding



## Dehydrator

Fig.	Model No.	A Vessel OD in (mm)	B1 in (mm)	B2 in (mm)	C in (mm)	D in (mm)	E in (mm)	G in (mm)	H in (mm)	Inlet/ Outlet (RF)	Vent Safety Drains (NPT)	Press. Gauge (NPT)	GPM (US)	Weight lbs (kg)
1	L50C150	10.75 (273)	4.50 (114)	30.00 (762)	38.00 (965)	42.00 (1067)	62.00 (1575)	8.125 (206)	20 (508)	2"	3/4"	1/2"	50	240 (109)
1	L100C150	14.00 (356)	10.00 (254)	48.00 (1219)	69.50 (1765)	73.50 (1867)	105.50 (2680)	12.000 (305)	52 (1321)	2"	3/4"	1/2"	100	430 (331)
1	L200C150	20.00 (508)	12.00 (305)	56.0 (1422)	83.50 (2121)	87.50 (2223)	131.50 (3340)	15.000 (381)	62 (1575)	3"	3/4"	1/2"	200	650 (295)
1	L300C150	24.00 (610)	15.00 (381)	61.5 (1562)	96.00 (2438)	100.00 (2540)	144.00 (3658)	17.000 (432)	70 (1778)	4"	3/4"	1/2"	300	790 (358)
1	L500C150	30.00 (762)	17.50 (445)	72.0 (1829)	112.00 (2845)	124.50 (3162)	166.00 (4216)	21.000 (533)	84 (2134)	6"	3/4"	1/2"	500	1250 (567)
1	L750C150	36.00 (914)	22.50 (572)	88.0 (2235)	138.00 (3505)	152.00 (3861)	210.00 (5334)	24.000 (610)	100 (2540)	6"	3/4"	1/2"	750	1650 (748)
1	L1000C150	42.00 (1067)	24.25 (616)	98.0 (2489)	152.75 (3880)	169.25 (4299)	224.75 (5709)	29.000 (737)	108 (2743)	8"	3/4"	1/2"	1000	2670 (1211)
1	L1300C150	48.00 (1219)	28.00 (711)	106.0 (2692)	167.50 (4255)	185.50 (4712)	239.50 (6083)	32.000 (813)	112 (2845)	8"	3/4"	1/2"	1300	3500 (1588)
1	L1600C150	54.00 (1372)	32.00 (813)	114.0 (2896)	182.50 (4636)	204.00 (5182)	262.50 (6668)	35.000 (889)	116 (2946)	10"	3/4"	1/2"	1600	4600 (2087)
1	L2000C150	60.00 (1524)	34.00 (864)	120.0 (3048)	193.50 (4915)	216.50 (5499)	277.50 (7049)	40.000 (1016)	120 (3048)	12"	3/4"	1/2"	2000	5700 (2585)

**Note:**

Dimension 'E' is the minimum clearance required for removal of filter packs.  
 Flow rates are based on gasoline. More viscous liquids will have lower flow rates.  
 Drawings for reference only. Certified drawings will be supplied after receipt of order.

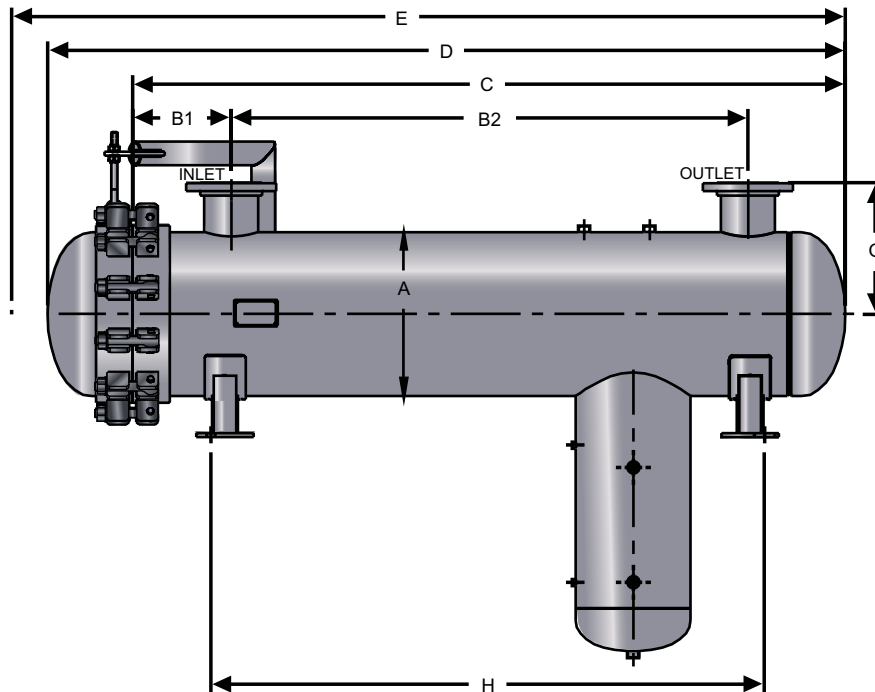


Figure 1 L Series Dehydrator