

# Compact Liquid Separator & Filter

## LRS Series 3/4" - 6"

### Overview

The inlet air, with liquids and particulate that are potentially harmful to the vacuum pump, enters the highly efficient vacuum filter and is separated by an integrated baffle. The larger particles and liquid drop down to the large capacity lower chamber. The lower chamber has significant liquid/slurry holding capacity. The final stage has a replaceable filter element for particulate that is 99+% efficient before it reaches the vacuum pump.

### Benefits

- Simplified vacuum package: 2 functions in 1 (liquid separator & inlet air filter)
- Multistage filtration & separation
- Protects pump from harmful liquids that break down lubricating/sealing oil
- Lower cost than individual separator and filter
- Significant liquid/slurry holding capacity
- Prevents emulsification of oil in oil lubricated systems
- Reduce footprint with compact design

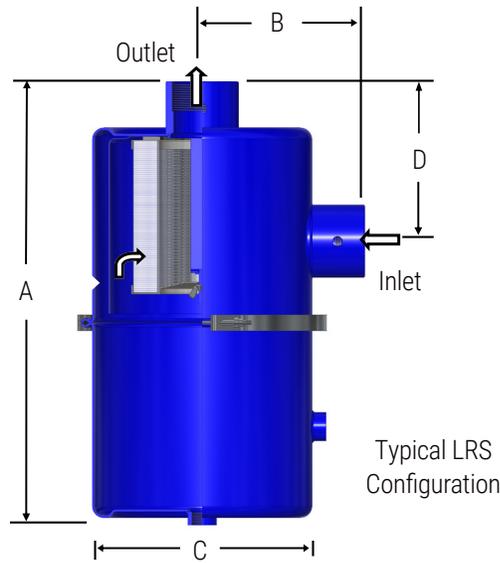
### Features

- Corrosive resistant blue powder coat carbon steel
- Integrated baffle
- Expansion chamber
- 1/4" inlet/outlet taps (select models)
- 1" NPSC drain and sight port

### Technical Specifications

- Vacuum Rating: rough to medium vacuum service
- Filter change out differential: 15-20" H<sub>2</sub>O over initial  $\Delta P$
- Polyester: 99%+ particulate removal efficiency to 5 micron





Inlet / Outlet		Assembly SCFM Rating	Assembly Part Number	Dimensions (inches)				Suggested Service Height	Holding Capacity (gallons)
Size	Type			A	B	C	D		
3/4"	NPSC	60	LRS-19-075HC	17.74	4.59	9.05	3.00	5"	1.5
1"	NPSC	85	LRS-19-100HC	17.88	4.59	9.05	3.00	5"	1.5
1 1/4"	NPSC	85	LRS-19-125HC	17.93	4.59	9.05	3.00	5"	1.5
1 1/2"	NPSC	100	LRS-19-150HC	17.96	4.63	8.93	3.53	5"	1.5
2"	NPSC	135	LRS-237-200HC	22.19	6.75	13.61	6.62	9"	4.5
2 1/2"	NPSC	195	LRS-237-250HC	22.72	7.28	13.61	7.15	9"	4.5
3"	NPSC	300	LRS-237-300HC	23.03	7.56	13.61	7.44	9"	4.5
4"	FLG	520	LRS-275-400F	23.38	11.50	17.16	8.00	10"	4.5
6"	FLG	830	LRS-275-600F	39.38	12.00	17.16	9.00	10"	10.5

Options  ATEX Available

- PED, ASME rated vessels
- Stainless steel construction & nonstandard finishes
- Specialty filter media
- Extended bucket for additional holding capacity
- Preseparator stainless steel demister
- Vacuum gauges
- Support legs
- For larger flows, see our Liquid Knockout Separator Series

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