

# Compact Liquid Separator & Filter

LRS Series 3/4" - 3", DN100 - DN150

## 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

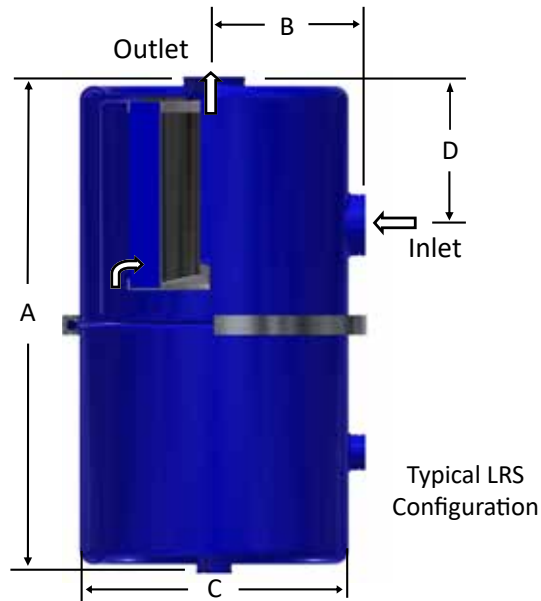
- Corrosive resistant blue powder coat carbon steel
- Integrated baffle
- Expansion chamber
- 1/4" inlet/outlet taps (select models)
- 1" BSPP drain and sight port

## Technical Specifications

- Vacuum Rating: rough to medium vacuum service\*
- Filter change out differential: 37-50 mbar over initial  $\Delta P$
- Polyester: 99%+ particulate removal efficiency to 5 micron



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Assembly m <sup>3</sup> /hr Rating	Inlet/Outlet		Assembly Part Number	Dimensions - mm				Suggested Service ht. mm	Approx. Holding Cap. (liter)	Replacement Element Part No.	Element m <sup>3</sup> /hr Rating
	Size	Type		A	B	C	D				
105	¾"	NPSC	LRS-19-075HC	451	117	230	76	121	5.7	19 <sup>®</sup>	170
145	1"	BSPP	LRS-19-101HC	454	117	227	76	121	5.7	19 <sup>®</sup>	170
145	1 ¼"	BSPP	LRS-19-126HC	455	117	227	76	121	5.7	19 <sup>®</sup>	170
170	1 ½"	BSPP	LRS-19-151HC	456	118	227	90	121	5.7	19 <sup>®</sup>	170
230	2"	BSPP	LRS-237-201HC	564	171	346	168	216	9.5	237™	935
335	2 ½"	BSPP	LRS-237-251HC	577	185	346	182	216	9.5	237™	935
510	3"	BSPP	LRS-237-301HC	578	186	346	182	216	9.5	237™	935
885	DN100	FLG	LRS-275-DN100	594	292	436	203	244	17	275™	1869
1415	DN150	FLG	LRS-275-DN150	998	305	436	229	244	40	275™	1869

## Options



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

\*See Vacuum Filter Technical Data for vacuum service data and sizing guidelines.

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