

LRV Series

Liquid Ring Pump DPE System



Features & Specifications

- Featuring **Dekker** and **Travaini** liquid ring oil sealed pump with cast iron casing and port, bronze impeller, ss shaft, mechanical seal with viton elastomer
- Welded steel oil reservoir/oil vapor separator with epoxy external finish
- Coalescing oil mist vapor discharge element with high DP indicator
- Automatic oil re-circulation control valve to maintain optimum seal temperature
- High temperature switch on pump discharge
- Oil/Air heat exchanger with copper tube aluminum finned elements to cool seal oil, fan direct driven off pump motor
- Check valve mounted on pump inlet
- Liquid ring pump, motor, heat exchanger and reservoir mounted on common steel base
- Temperature gage on pump inlet
- UL approved direct drive motor with permanently sealed ball bearings, coupling and guard, approved for Class I, Division I, Group D classified environment per NEC
- Complete charge of seal fluid
- Low oil level switch & site glass on oil reservoir
- 110VAC solenoid to prevent oil from flooding pump when not operating
- Polyester inline air filter with replaceable polyester element for 99%+ removal of 5 micron & larger particles, filter integral to separator
- VLS Welded steel separator with enamel external finish. Full vacuum design. Tangential inlet & polypropylene demister pad to 99%+ of moisture droplets 10 micron and larger
- 2" PVC site glass with stainless steel hermitically sealed float rod assembly with single or multiple floats for pump down control
- (2) Vacuum gages standard, to allow monitoring of pressure across filter element

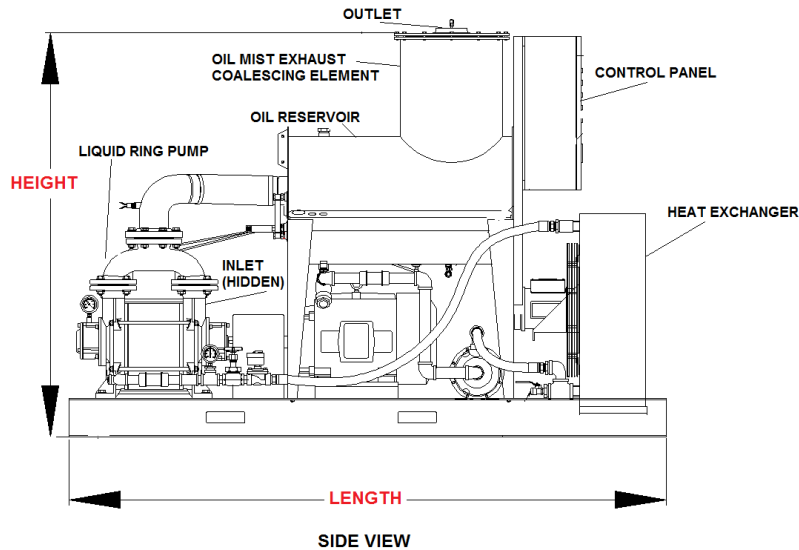


Applications

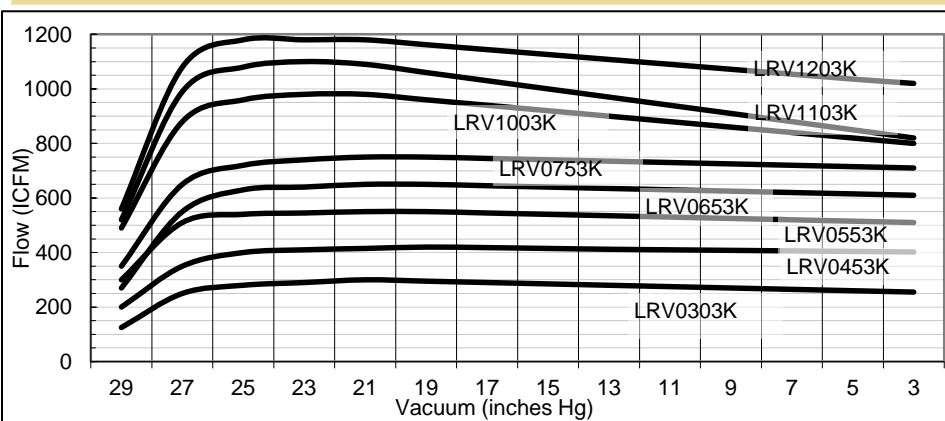
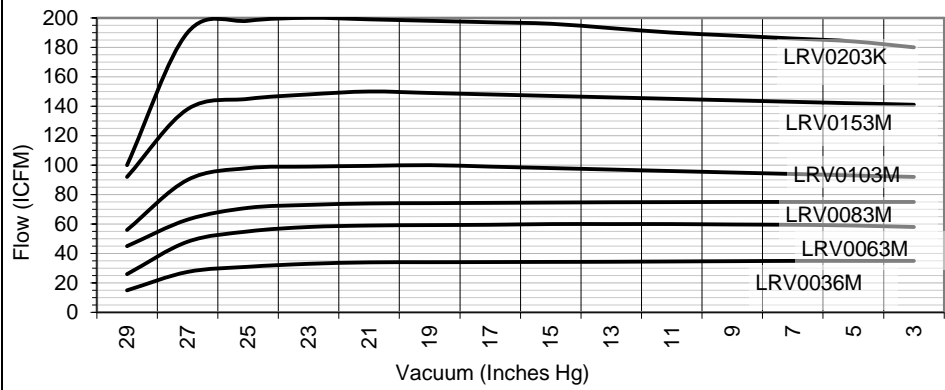
- High vacuum dual phase extraction
- Free product recovery
- Water extraction of 29' deep recovery wells
- Deep Water extraction with air assisted lift
- Remediation Industry
- Dissolved hydrocarbon groundwater recovery

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Model Number	Height In.	Length In.	Width In.	Inlet connection In	Outlet connection In	Motor HP	Available Voltage	Holding Capacity gallons	Shipping Weight Lbs.	Max. Noise Level At 3 feet	Fan /re-circ Pump motor HP
LRV-0036M	54"	58"	24"	3" MPT	1" FPT	3	230 VAC 1 phase 230/460 VAC 3phase	40	800	70 dBA	NA
LRV-0063M	54"	72"	24"	3" MPT	2" FPT	5.5	230/460 VAC 3phase	40	920	76 dBA	NA
LRV-0083M	54"	72"	24"	3" MPT	2" FPT	5.5	230/460 VAC 3phase	40	980	76 dBA	NA
LRV-0103M	54"	78"	24"	3" MPT	2" FPT	7.5	230/460 VAC 3phase	40	1,040	76 dBA	NA
LRV-0153M	54"	78"	24"	3" MPT	2" FPT	10	230/460 VAC 3phase	40	1,060	76 dBA	NA
LRV-0203K	58"	100"	30"	3" MPT	3" FPT	15	230/460 VAC 3phase	40	1,548	76 dBA	NA
LRV-0303K	58"	100"	30"	3" MPT	3" FPT	20	230/460 VAC 3phase	40	1,675	76 dBA	NA
LRV-0453K	68"	110"	30"	4" MPT	4" FPT	25	230/460 VAC 3phase	40	2,170	78 dBA	NA
LRV-0553K	68"	110"	36"	4" MPT	4" FPT	40	230/460 VAC 3phase	40	2,400	78 dBA	NA
LRV-0653K	78"	101"	73"	6" 150 lb flange	6" 150 lb flange	40	230/460 VAC 3phase	75	4,800	79 dBA	1hp fan ¾ hp pump
LRV-0753K	78"	101"	73"	6" 150 lb flange	6" 150 lb flange	50	230/460 VAC 3phase	75	4,800	79 dBA	1hp fan ¾ hp pump
LRV-1003K	78"	101"	73"	6" 150 lb flange	6" 150 lb flange	60	230/460 VAC 3phase	75	5,100	80 dBA	1hp fan ¾ hp pump
LRV-1103K	78"	101"	73"	6" 150 lb flange	6" 150 lb flange	75	460 VAC 3phase	75	5,100	80 dBA	2hp fan ¾ hp pump
LRV-1203K	78"	101"	73"	6" 150 lb flange	6" 150 lb flange	100	460 VAC 3phase	75	5,300	80 dBA	2hp fan ¾ hp pump



Liquid Ring Pump Performance Curves



Options

- Synthetic food grade oil to prevent poisoning of oxidizer catalysts in the event of blow-by
- Vacuum relief valve
- Air bleed valve with filter/silencer
- Solenoid vacuum break on moisture separator to allow gravity or centrifugal pump out
- Progressive cavity condensate pump to pump against the high vacuum levels without a vacuum break
- Moisture separator heat trace or immersion heater for classified or non-classified electrical areas for freeze protection
- Centrifugal pump to pump off condensate with vacuum break line
- Moisture separator R-5 insulation with jacket, (steel or aluminum jacket)
- Oversized or redundant oil mist filter to minimize blow-by at transient low vacuum conditions
- Pressure relief valve on blower discharge
- Clean out ports on moisture separator
- Flow, pressure, level & temperature gages or transmitters
- Custom control panel to control blower, pump and other equipment if required
- Sound enclosure with urethane sound insulation to reduce sound level 10-15 dBA at 3'