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Modular



7.5 HP Oilless Rotary Vane Medical Vacuum System

✓ Duplex
✓ Triplex

✓ Quadplex
✓ Expandable

Features

- ✓ No Oil
- ✓ Economical
- ✓ No Water
- ✓ Low Maintenance

Specifications

Class 1 Inc. [] plex modular, expandable, stack mounted oilless rotary vane medical vacuum system, factory assembled and tested, as follows:

Model:	OLRV750-S120X_[2,3,4]
Capacity (each pump):	32 SCFM @ 20" Hg
Maximum end vacuum:	27" Hg
Electrical Requirements:	7.5 HP, 575V, 3 Phase, 60 Hz
Receiver Capacity:	120 [*240] USG, Vertical

Vacuum Pumps: Becker KVT3.140 single stage, direct-driven, oilless, air cooled, rotary vane vacuum pump each complete with:

- high efficiency TEFC motor
- high strength carbon graphite composite sliding vanes
- shaft driven cooling fan and air shroud for pump cooling
- 5µ inlet filter with replaceable element

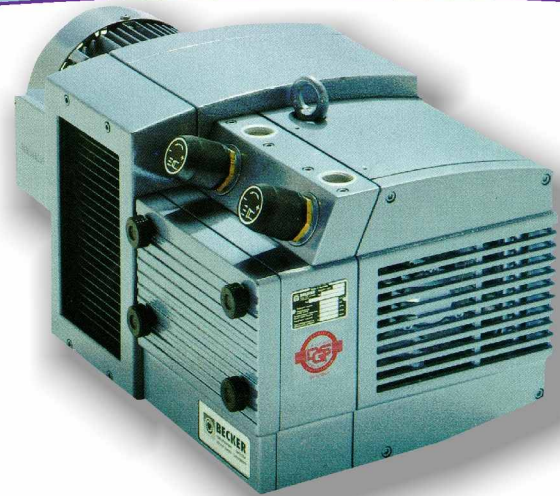
Pump Modules: Heavy gauge, 2", square, tubular steel frame, 32"W x 32"H x 56"D, suitable for stacking or side-by-side placement, primed and painted for corrosion resistance. Each pump module to include:

- inlet bleed valve, and 63.5 mm liquid-filled 0 to 760 mmHg vacuum gauge
- 1½" Technochek inlet check valve, isolation ball valve, and 316L stainless steel flexible inlet connector
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System Piping: Galvanized Schedule 40 pipe and fittings, receiver bypass isolation valve(s), main isolation valve, one Vacuum DISS demand check valve, and common exhaust manifold[†] complete with valved drip leg(s).

Receiver: Welded steel, ASME Certified and CRN Registered, galvanized inside and out, and complete with:

- liquid level sight glass
- 63.5 mm liquid filled 0 to 760 mm Hg vacuum gauge
- manual bleed valve with muffler
- manual drain valve



Control Panel: CSA special inspection approved, NEMA 12 enclosure, factory prewired, system mounted and tested and complete with:

- door interlock disconnect switches (each pump)
- motor circuit controllers with motor overload protection and push-button manual disconnect (each pump)
- magnetic motor contactors (each pump)
- two control transformers with primary and secondary fusing
- Manual / Off / Auto selector, switches (each pump)
- 90 dB alarm buzzer, Silence Button, Alarm Reset Button
- PLC controls
- Dual output electronic vacuum switch complete with digital display, security, and four user adjustable setpoints.
- 4-line interactive text display complete with system status and alarm events, hour meters, user adjustable settings, and password protection.
- Numbered terminal strip with dry contacts for site connection to Master Alarm panel for: Lag / Failure ; Motor Overload; Transformer Failure; Low Vacuum.

Programming and Control:

- All system settings to be user adjustable and accessible with the system in operation and the control panel door closed
- Lead pump(s) to operate between 21" Hg and 24" Hg.
- Lead pump(s) to automatically alternate.
- Lag pump to start at 20" Hg.
- Lag/Failure alarm to require manual reset.
- Minimum run operation to reduce pump cycling.
- Maximum run operation to ensure pump alternation.
- SmartStart controls to accommodate emergency generator power transfers
- Low Vacuum alarm to be set at 16" Hg.
- Lag/Failure alarm contacts to open on: Lag condition; Motor Overload; Power Failure; Transformer Failure; Selector switch not in Auto position.

[†]Quadplex and larger systems have two exhaust manifolds

* Optional

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Updated: September 28, 2002



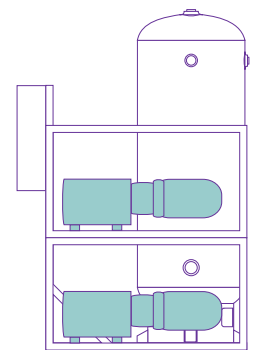
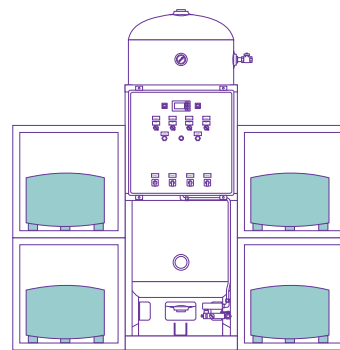
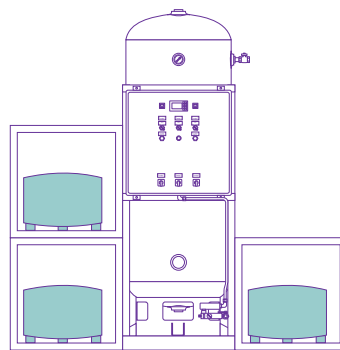
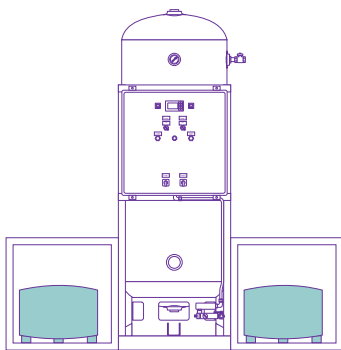
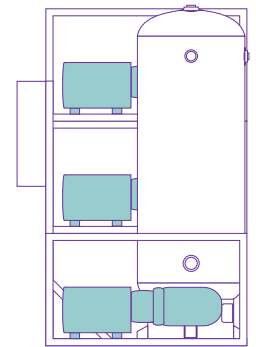
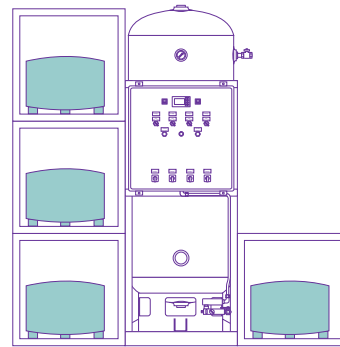
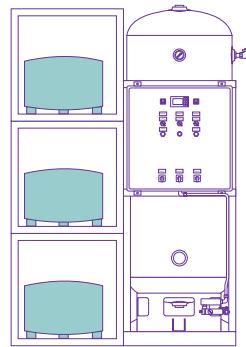
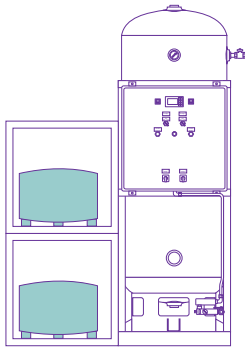
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Duplex

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Side

Capacities and Dimensions

	Model Number	*Flow Each		*Flow Total		Length		Width		Height		**Weight	
		SCFM	LPM	SCFM	LPM	In.	mm	In.	mm	In.	mm	Lb.	kg
Duplex	OLRV750-S120X2	32	906	64	1812	56	1422	68	1727	96	2438	1950	885
Triplex	OLRV750-S120X3	32	906	96	2718	56	1422	68	1727	96	2438	2500	1134
Quadplex	OLRV750-S120X4	32	906	128	3624	56	1422	96	2438	96	2438	3050	1384

* Flow capacities shown @ 20" Hg

** Weights are approximate.

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