

Vectra XL Liquid Ring Vacuum Pumps and Compressors



NASH Vectra XL Vacuum Pumps & Compressors

Industry Workhorses

NASH liquid ring vacuum pumps produced by Gardner Denver Nash have been known for more than 100 years as tireless workhorses, designed to stand up to the rigorous, nonstop demands of the harshest industrial environments. Built better than industry standards, NASH pumps are known for their reliability.

Vectra XL vacuum pumps and compressors, created specifically for the chemical process industry, combine the highest standard of this reliability with a new level of ingenuity. Gardner Denver Nash employs advanced design technologies to achieve optimum performance and unprecedented production efficiencies. As a result, Vectra XL pumps are economical and provide great value to our customers.

Designed from the ground up based on customer defined market requirements; and the input from R&D, manufacturing, marketing, and most importantly, process engineers, Vectra XL pumps are a revolutionary line of pumps tough enough to be branded NASH.

These pumps include technological advancements such as a patented cone design and rotor configuration. These machines have been specifically designed to excel in applications that require discharging against a positive back pressure. Vectra XL pumps meet high combustible range standards and are ATEX certified. These vacuum pumps and compressors are in accordance with guideline 94/9/EG, category 1 and 2 and were also designed with API 681 specifications in mind.

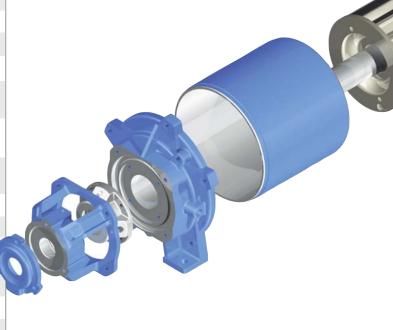
Vacuum technology for chemical processing

Vectra XL pumps are designed to stand up to the harsh environments found in the chemical process Industry. They are available in both ductile iron and stainless steel. and can accommodate a variety of mechanical seals. Key elements of the design are the improved cone angles, which decrease the size of the pump, and NASH patented Gas Scavenging Technology, which dramatically improves pump performance at high vacuum levels.

Basic specifications			
Vacuum range	0-29 in Hg vac/ to 33 mbar abs.		
Mechanical seals*	Single, double and cartridge		
Differential pressure capability	30 psi/ 2 bar		
Compressor pressure	30 psig/ 3 bar abs.		
Hydrotest pressure	150 psig/ 11 bar abs. standard (225 psig/ 16 bar abs. optional)		
Construction material *Mechanical seals are standard on sta	Ductile iron, stainless steel inless steel Vectra XL 35 - 150 models.		

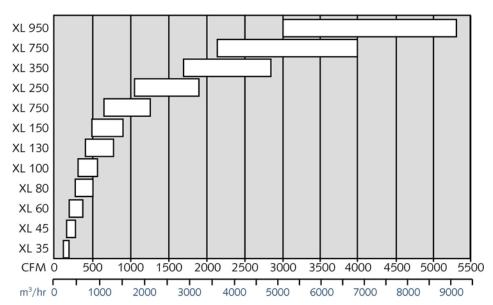
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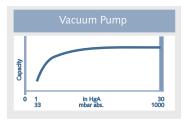
Features	Benefits			
Compact design	Less floor space required			
External mechanical seals	Flexibility & ease of maintenance			
Universal stuffing box	Accepts variety of mech. seals			
Global product design	Direct drive speeds for 60 Hz & 50 Hz motors			
Extended pressure ratings	Ability to handle tough applications where back pressure is required			
Conical design	Better ability to handle water/particulate slugs			
One moving part	Long term reliability			
Variable port design	High efficiency			
Lobe purges	Reduce erosion wear			
NASH patented Gas Scavenging	Increased performance at high vacuum levels			
Redesigned cone angle	Reduced pump length			
Optimum design using finite element analysis	Improved efficiency, performance and value			
100% performance tested	Trouble-free start-up and operation			

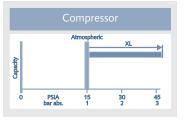


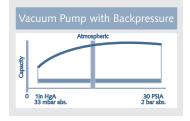
World Class Design & Performance

Performance

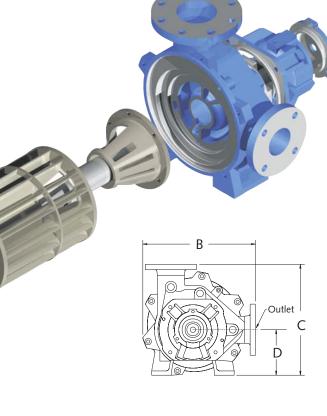


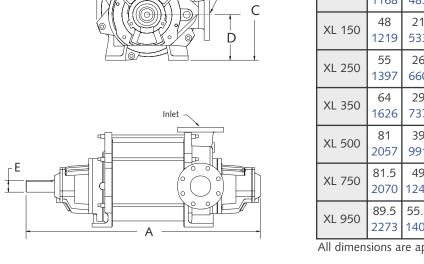












Pump	А	В	С	D	Е	Inlet	Outlet
XL 35	30	13.4	14	6	1.5	3 in. FLG	3 in. FLG
	762	340	356	152	38	80 mm FLG	80 mm FLG
XL 45	33	13.4	14	6	1.5	3 in. FLG	2 in. FLG
	838	340	356	152	38	80 mm FLG	50 mm FLG
XL 60	36	17	16	6.8	1.9	4 in. FLG	3 in. FLG
	914	432	406	173	48	100 mm FLG	80 mm FLG
XL 80	39	17	16	6.8	1.9	4 in. FLG	3 in. FLG
	991	432	406	173	48	100 mm FLG	80 mm FLG
XL 100	42	19	20	8	2.4	4 in. FLG	4 in. FLG
	1067	483	508	203	61	100 mm FLG	100 mm FLG
XL 130	46	19	20	8	2.4	4 in. FLG	4 in. FLG
	1168	483	508	203	61	100 mm FLG	100 mm FLG
XL 150	48	21	21	9.3	2.5	6 in. FLG	4 in. FLG
	1219	533	533	236	64	150 mm FLG	100 mm FLG
XL 250	55	26	25	11.5	3	6 in. FLG	6 in. FLG
	1397	660	635	292	76	150 mm FLG	150 mm FLG
XL 350	64	29	31	13	3.4	8 in. FLG	6 in. FLG
	1626	737	787	380	86	200 mm FLG	150 mm FLG
XL 500	81	39	41	18	3.5	10 in. FLG	8 in. FLG
	2057	991	1041	457	89	250 mm FLG	200 mm FLG
XL 750	81.5	49	47.3	20.5	5.1	10 in. FLG	8 in. FLG
	2070	1244	1200	520	130	250 mm FLG	200 mm FLG
XL 950	89.5	55.4	53.5	23.2	5.9	12 in. FLG	10 in. FLG
	2273	1407	1360	590	150	300 mm FLG	250 mm FLG

All dimensions are approximate



Other NASH Products

2_BV

Compact liquid ring vacuum pumps built for serious cost savings Use up to 50 percent less water than other liquid ring pumps Monoblock and pedestal designs available Capacity of 4 to 350 CFM with vacuum to 29+" HgV Capacity of 7 to 595 m³/h with vacuum to 31 mbar abs



Steam Jet Ejectors

Sizes range from one-inch (25mm) to 78-inch (2 meters) inlets Capacities range from 20 CFM to 20,000 CFM Capacities range from 34 m³/h to 34,000 m³/h Multi-stage system pressures as low as 0.001 mm HgA



2BE3/P2620

Large liquid ring vacuum pumps with superior corrosion resistance Top discharge capability which eliminates need for trench Self-recirculating seal water, reducing need for external seal water source

Capacity of 4,000 to 23,000 CFM with vacuum to 24" HgV Capacity of 6,800 to 39,000 m^3/h with vacuum to 200 mbar abs



TC/TCM

Integral 2 stage liquid ring pumps with improved performance at vacuum levels down to 0.8" HgA (27 mbar) Designed to handle large amounts of liquid carryover without difficulty

Capacity of 100 to 2,240 CFM with vacuum to 0.8" HgA Capacity of 170 to 3,740 m³/h with vacuum to 27 mbar



Compressors

Wide range of liquid ring compressors designed for many applications. Rugged and reliable, they can handle highly toxic, explosive and corrosive gases

Specifically developed for applications such as flare-gas, Chlorine and Vinyl Chlorine Monomer (VCM) recovery Capacity of 60 to 2,200 SCFM with pressure to 200 PSIG Capacity of 100 to 3,740 m³/h with pressure to 15 bar abs Single and two stage models available



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