



NASH Vectra XL Series Liquid Ring Vacuum Pumps and 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.

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

Vacuum and compressor 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.



Features	Benefits		
Compact design	Less floor space required		
External mechanical seals	Flexibility & ease of maintenance		
Universal stuffing box	Accepts variety of mechanical seals		
Direct drive speeds for 60 Hz and 50 Hz motors	Global product design		
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		

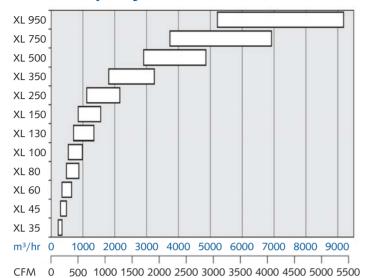
^{*} Mechanical seals are standard on stainless steel Vectra XL 35 - 150 models. Optional on others.

NASH Vectra XL Series World Class Design and Performance

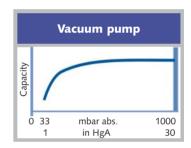
33 160 mbar abs. 1013

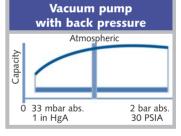
Performance: Suction Capacity

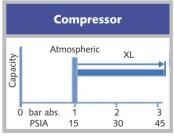
Performance: Vacuum and Compressor Range

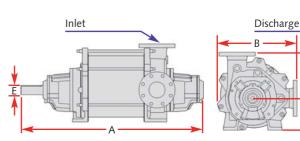












Dimensions

all dimensions are approximate: technical data subject to change

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



Gardner Denver Nash is a division of Gardner Denver, Inc. The histories of NASH and elmo provide more than 100 years of experience as the world's leading supplier of liquid ring vacuum pumps, compressors and systems.

Other NASH Products:

2BE4 / 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: 6,800 to 39,000 m³/h (4,000 to 23,000 CFM)
- Vacuum: to 160 mbar abs. (25" HgV)



TC/TCM

- Integral 2 stage liquid ring pumps with improved performance at high vacuum levels
- Designed to handle large amounts of liquid carryover without difficulty
- Capacity: 170 to 3,740 m3/h (100 to 2,240 CFM)
- Vacuum: to 27 mbar abs. (0.8" HgA)



Vectra SX

- · Liquid ring vacuum pumps and compressors
- · Available in monoblock or lantern design
- Water handling version for large amounts of liquid carryover
- Capacity: 35 to 260 m³/h (20 to 155 CFM)
- Vacuum: to 33 mbar abs. (29"+ HgV)



Service for Liquid Ring Pumps

We have the know-how, the experience and the specialists: We provide professional service to keep your pumps running and efficient for decades. Our Service Centers are located in:

- Australia
- Brazil
- China
- Germany

- Korea
- The Netherlands
- Singapore
- South Africa United Kingdom
- The recirculation
- USA

Steam Jet Ejectors

- Sizes range from 25mm to 2 meters (1" to 78") inlets
- Capacity: 34 to 34,000 m³/h (20 to 20,000 CFM)
- Vacuum: Multi-stage system pressures as low as 0.034 mbar abs.
 (0.001 mm HgA)



Gardner Denver Nash has many ISO 9001 certifications.



Gardner Denver Nash has an extensive network of sales offices and representatives all over the world.

Nash - Zweigniederlassung der Gardner Denver Deutschland GmbH

Katzwanger Straße 150 90461 Nuremberg, Germany Phone: +49 911 1454-0 Fax: +49 911 1454-6935 nash.de@gardnerdenver.com

www.GDNash.com



Order-No.: LRP:B-PB118-A1-EN 2.0/08-2011 Printed in Germany ©2011 All Rights Reserved; All data subject to change