

CL Liquid Ring Vacuum Pumps and Compressors



NASH CL Vacuum Pumps & Compressors

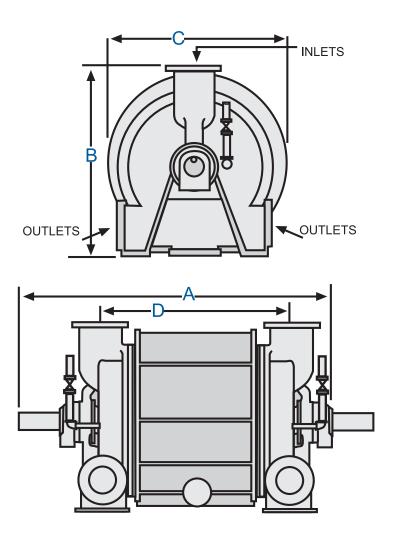
When to select a NASH CL Pump

- when liquid may carry over
- when air carries solid contaminants
- · when gas is corrosive
- when vapor is to be reclaimed
- when you want smooth operation
- when you need reliability

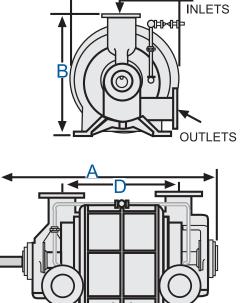
CL Pumps are single stage vacuum pumps ideal for demanding applications in extremely tough conditions. Heavy duty pumps, they are able to service a wide range of applications, which can include dewatering in the paper industry and vacuum filtering in mineral ore processing.

Connections		Dimensions in mm					
SERIES		Inlet	Outlet	Α	В	С	D
CL	9000	355	305	2388	2057	1778	1575
CL	6000	305	254	2261	1702	1473	1448
CL	4000	254	203	1930	1245	1219	1321
CL	3000	203	152	1727	1118	1016	1041
CL	2000	152	127	1524	914.4	838.2	914.4
CL	1000	127	102	1219	660.4	609.6	685.8
CL	700	102	76	1041	584.2	508.0	558.8
CL	400	76	64	914	482.6	431.8	457.2
CL	200	64	5	635	330.2	304.8	304.8

All dimensions are approximate







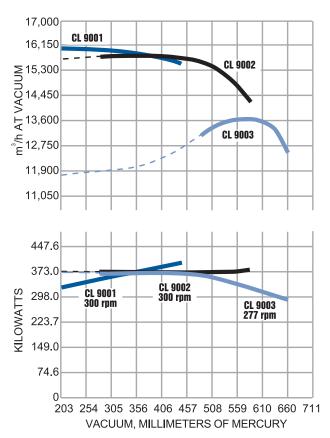
World Class Design & Performance

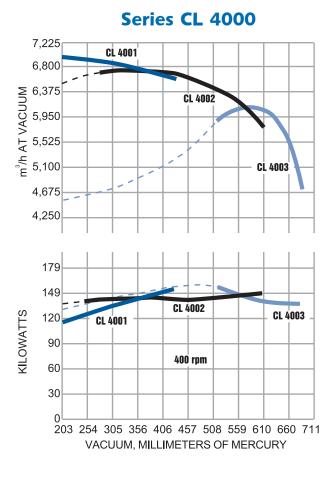
Basic specifications		
Vacuum range	0-27+ in Hg vac/ to 100 mbar abs.	
Differential pressure capability	15 psi/ 1 bar	
Compressor pressure	15 psig/ 2 bar abs.	
Construction material	Cast iron, Stainless Steel	

Features	Benefits		
High efficiency design	Lower operating costs		
Shrouded rotor design	Strength and durability		
Internal Center Shroud	Can draw from two sources with one pump		
Conical design	Better ability to handle water/particulate slugs		
Lobe purges	Reduce erosion wear		
Variable port design	High efficiency		
100% performance tested	Trouble-free start-up and operation		
Backed by 2 year warranty and over 100 years of vacuum and compressed gas experience	Peace of mind		

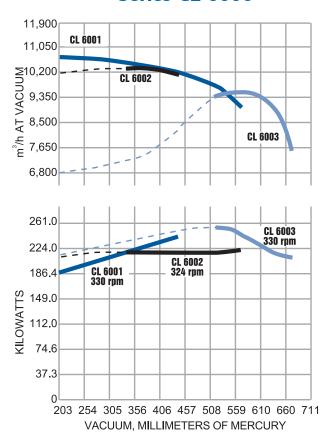


Series CL 9000

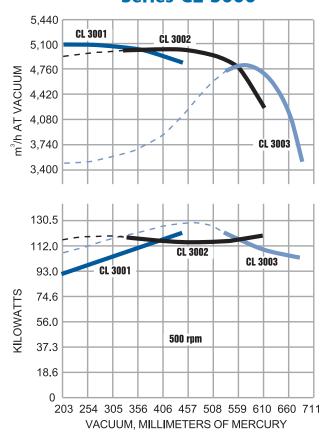




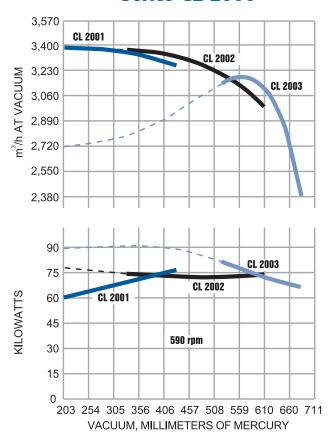
Series CL 6000



Series CL 3000

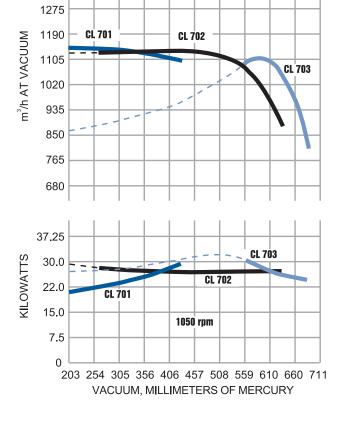


Series CL 2000

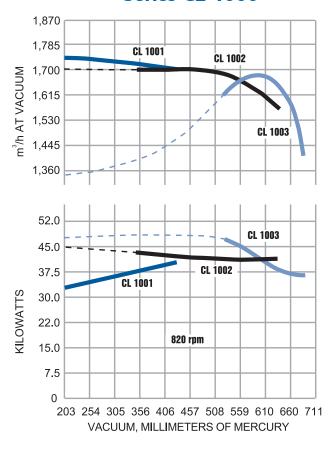




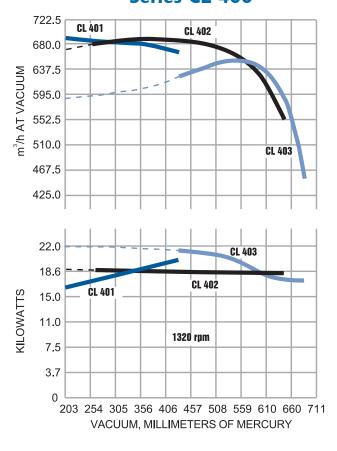
1360



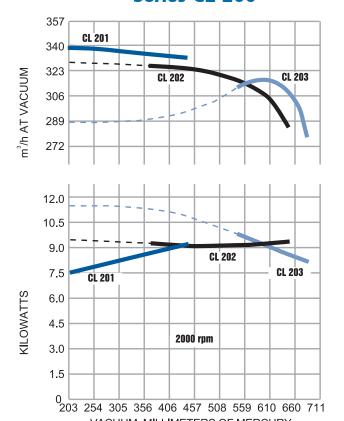
Series CL 1000



Series CL 400



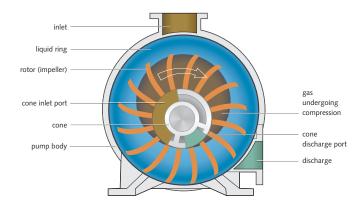
Series CL 200

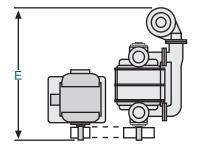


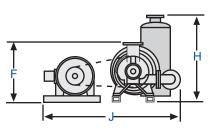
VACUUM, MILLIMETERS OF MERCURY

A NASH liquid ring system:

- is more economical over its life cycle
- will last longer
- requires significantly less maintenance
- provides more uptime for your plant
- is safer. The isothermal compression allows it to:
 - run cooler
 - condense hydrocarbons for sale or reuse
 - eliminate auto-ignition concerns
 - keep the discharge gas cool
 - increase bearing life
 - reduce mechanical wear
- does not require many of the complicated instrumentation safeties and ancillary accessories that add complexity to hot-running compressors



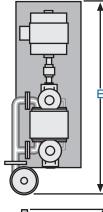


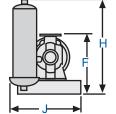


V-BELT DRIVE

With discharge manifold and one water-trap silencer

Dimensions in mm							
SERIES		E	F	н	J		
CL	4000	3073	1422	2642	3073		
CL	3000	2565	1219	2642	2794		
CL	2000	2210	1016	2311	2413		
CL	1000	1930	737	1524	1880		
CL	700	1499	584	1194	1651		
CL	400	1295	483	1168	1422		
CL	200	965	432	864	1092		

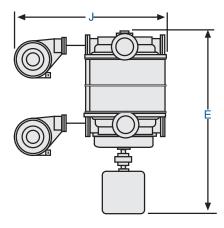


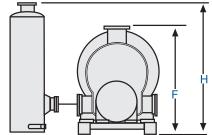




With discharge manifold and one water-trap silencer

		Dimensi	ions i	n mm	1
SERI	ES	E	F	H	J
CL	400	2134	483	1168	787
CL	200	1524	432	864	559



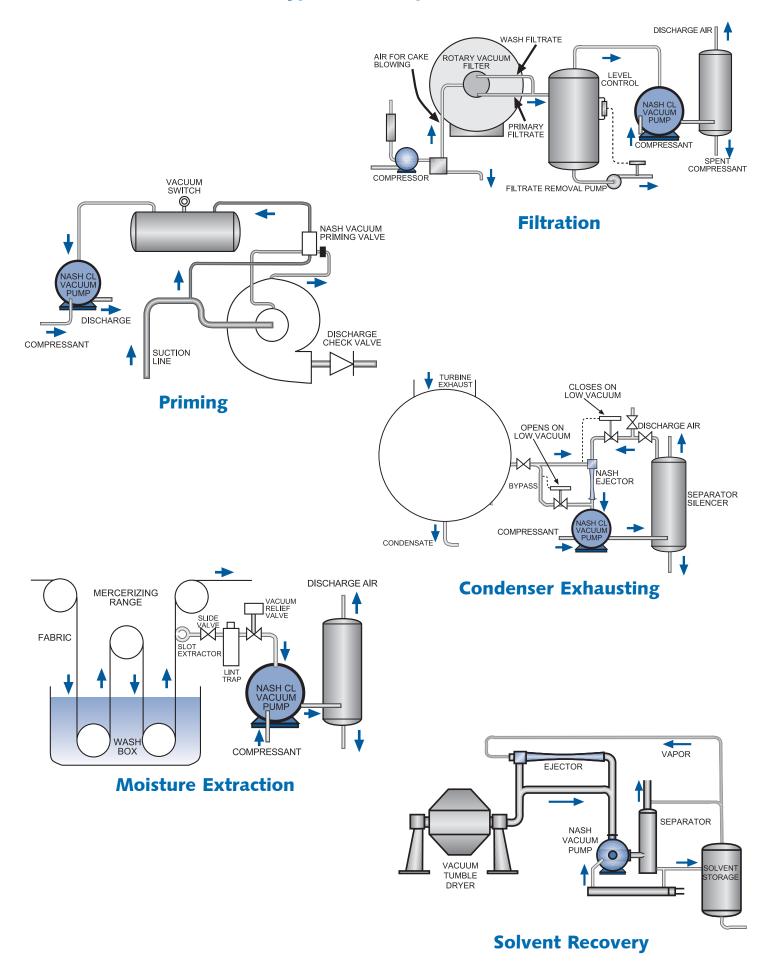


INTEGRAL GEAR DRIVE

With two water-trap silencers

Dimensions in mm							
SER	RIES	E	F	Н	J		
CL	9000	4064	2337	2642	2896		
CL	6000	3505	1981	2311	2540		

Some Typical CL Pump Installations





Other NASH Products

2BV

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 7 to 595 m³/h with vacuum to 31 mbar abs.



Vectra

Liquid ring vacuum pumps and compressors

Available in feature rich budget designs (XL or GL)

Designed to handle high back pressure requirements

Capacity of 195 to 4 860 m³/h with vacuum to 31 mbar abs.



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 6 800 to 39 000 m³/h with vacuum to 31 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 170 to 3 740 m³/h with vacuum to 27 mbar



Garo Compressors

Highly rugged and reliable compressors that 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 100 to 3 740 m³/h with pressure to 15 bar abs. Single and two stage models available



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