



Nash highly engineered vacuum systems are renowned for delivering quality, reliability, value, and performance, making them ideal for the demands your chemical process requirements. Our engineered systems provide a low total cost of ownership, maximize process output and efficiency while minimizing maintenance and pollution into the environment. Thanks to our extensive expertise in the industry, we are able to design and build even the most complex engineered-to-order systems, suitable for applications listed below and more. Read on and discover the world of possibilities provided by our widest on the market product range.

VACUUM DISTILLATION	REACTOR VACUUM	SOLVENT RECOVERY	CHLORINE COMPRESSION	VAPOR RECOVERY & GAS BOOSTING	VINYL CHLORIDE MONOMER RECOVERY	HYDROGEN COMPRESSION
TC/TCM	TC/TCM	TC/TCM	<u>2BE1</u>	<u>2BE4</u>	<u>2BK1</u>	<u>2BK1</u>
2BE1	<u>2BE1</u>	2BE1	NAM/NASM	<u>P2620</u>	2BG1	<u>2BG1</u>
2BM1	<u>2BM1</u>	<u>2BM1</u>	<u>NAB</u>	2BQ	<u>HP</u>	2BE4
<u>2BM5</u>	<u>2BM5</u>	<u>2BM5</u>	<u>2BK1</u>	NAM/NASM	NAM/NASM	<u>2BQ</u>
<u>2BV6</u>	<u>2BV6</u>	<u>2BV6</u>	2BG1	NAB	<u>NAB</u>	<u>HP</u>
VECTRA XL	VECTRA XL	VECTRA XL		<u>2BK1</u>		<u>2BM1</u>
VACUUM BOOSTERS	VACUUM BOOSTERS	VACUUM BOOSTERS		<u>2BG1</u>		NAM/NASM
HYBRID VACUUM SYSTEMS	HYBRID VACUUM SYSTEMS	HYBRID VACUUM SYSTEMS				





# Liquid Ring Operating Principle

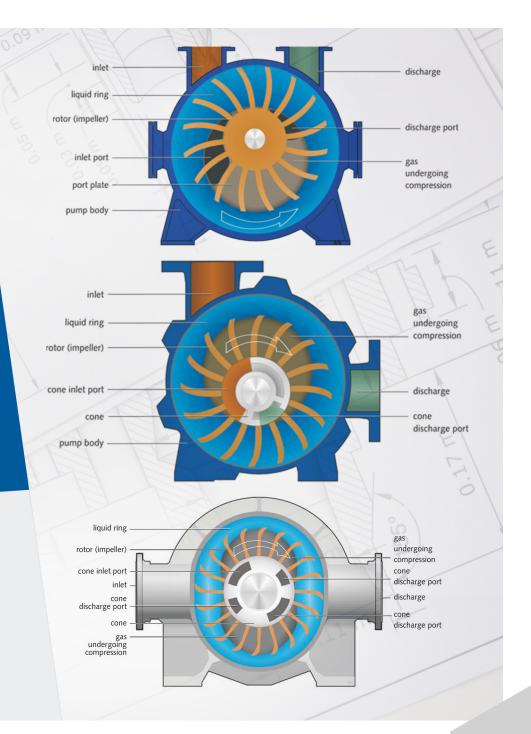
Nash liquid ring pumps are positive displacement machines achieve compression using a simple design and working principle. The seal liquid forms the ring inside a pump body as the rotor spins creating small chambers for gas to be trapped. The axis of the rotor is eccentric from the body allowing the liquid to almost fill, and then almost empty each rotor chamber during a single revolution, forming the compression of the gas for the pumping action.

Vacuum inlet and atmospheric discharge ports provide flow paths for the gas mixture being handled. The heat of compression of the gas is dissipated into the seal liquid, and some of the liquid flows out to discharge. The exhaust gas and residual water discharge is separated from the gas stream and directed to the house exhaust and returned to the pump respectively. Seal fluid is replaced by a constant flow of cooler seal fluid.

#### **Gases Handled**

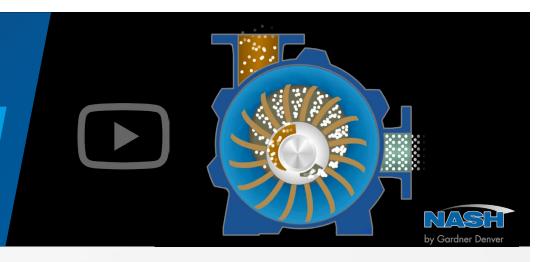
Nash liquid ring pumps are capable of handling a wide variety of gases; from gasoline vapors, sulfur dioxide, and chlorine to hydrogen sulfide and vinyl chloride monomers.

Seal liquids can be chosen based on process requirements and the gas being handled. In addition to water, a range of seal liquids including acetic acid, acetone, glycol, xylene, and more can be used.





# **Characteristics of a NASH Liquid Ring Vacuum Pump Advantages:**



Accepts Carryover

Soft solids, Moisture, slugs, Chemicals, etc, will not harm the pump. These impurities will simply be washed out through the pump discharge.

Cool & Quiet Operation

The pump runs cool owing to the circulation of he sealing water inside the pump. The operation is also relatively quiet - not exceeding 85 dBA.

 Constant Operation For Any **Vacuum Level** 

Pump can operate constantly and continuously at any vacuum level - from 29" HG Vac. to atmospheric pressure. Easy Maintenance

NASH pump has few parts and only one moving part. Therefore wear is less and thus maintenance is simpler and cheaper.

Longer Pump Life

Generally, a NASH pump has a longer life span, mainly due to its robust construction and because the NASH pump has only one moving part, the rotor, which is mounted on a shaft supported by a set of bearings designed for a B-10 service life of 20 years continuous operation.

Environmentally Friendly

The NASH pump does not require any oil-change, filters, oil-pans, condensers etc. Plant rooms run clean, free of oil contamination and oil discharge to sewers.



# Materials, Suction Capacity, Vacuum & Compression

#### **Materials**

Our liquid ring pumps are available in a range of materials, including cast iron and stainless steel, and feature ceramic coated components and polyisoprene linings. We can also manufacture pumps in exotic materials such as titanium and bronze, ensuring that our equipment is able to meet almost any process demands and conditions.

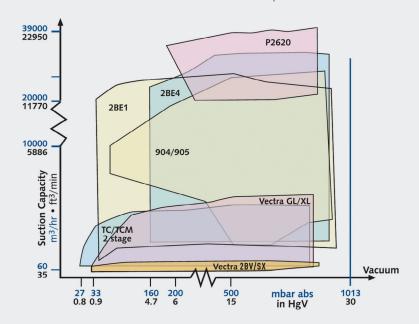
#### **Suction Capacity, Vacuum, Compression**

Nash liquid ring vacuum pumps and compressors offer the widest performance range on the market. Depending on the size and model, our liquidring vacuum pumps are capable of providing a suction capacity between 10 m³/hr to 39,000 m³/hr, with vacuum levels down to 28 mbar abs. Certain models can also be equipped with a center shroud, allowing the liquidring vacuumpump to operate at multiple suction pressures. Our liquid ring compressors are capable of achieving a capacity between 50 and 16.000 m³/h and discharge pressures from 2 bar abs up to 15 bar abs.

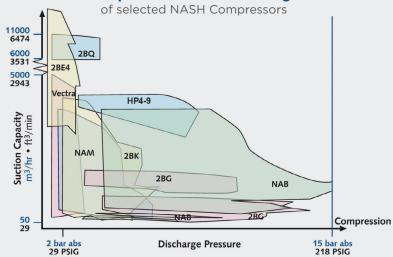
In certain applications it is also possible to use the same model for both vacuum and compression.

#### **Vacuum: Performance Range**

of selected NASH Pumps









# NASH TC/TCM SERIES

Nash TC/TCM two stage vacuum pumps are designed to operate at low suction pressures with low vapor pressure seal liquids. Ranging in capacity from 170 to 3,600  $m^3/h$  (100 to 2,100 ACFM), they feature an internal two stage rotor, and are capable of handling large amounts of liquid carryover without difficulty.





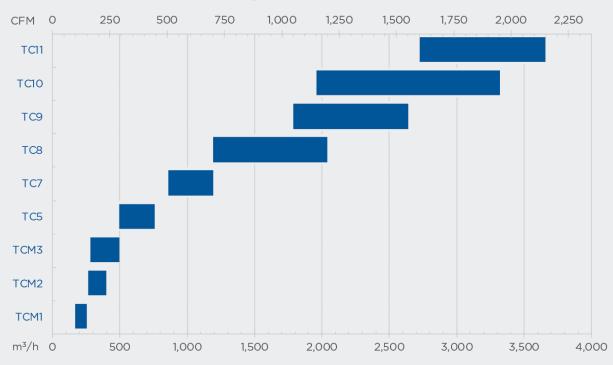








Technical Data NASH TC/TCM	
Suction Capacity	170 to 3650 m <sup>3</sup> /h (100 to 2,100 ACFM)
Vacuum Range	to 28 mbar abs. (to 0.8 inHgA)
Shaft Sealing	Stuffing box (standard), Mechanical Seals (single acting/double acting) or Cartridge (on request)
Materials	Cast Iron, Ductile Iron, Stainless Steel





# NASH 2BE1 LARGE SERIES

The NASH 2BE1 liquid ring vacuum pump and compressor series covers a broad range of suction volume, vacuum, and pressure. Based on the proven reliable flat sided liquid ring vacuum pump design the 2BE1 is available in 23 models, has a large differential pressure capability, and is ATEX Certified. For these reasons, the 2BE1 is one of the most popular liquid ring pumps worldwide and can be found in almost all industrial vacuum applications including the chemical, pulp & paper, and power generation industries.





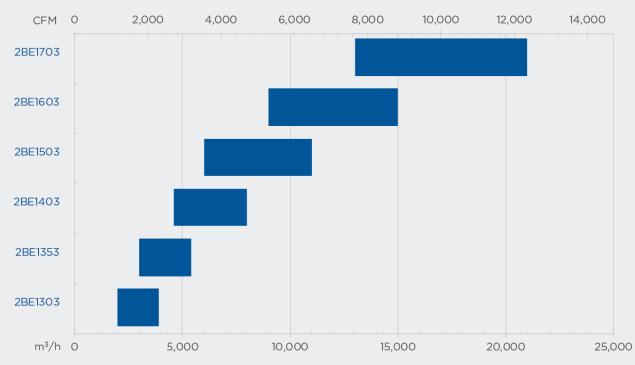








Technical Data NASH 2BE1		
Suction Capacity	2.000 m <sup>3</sup> /h to 21.000 m <sup>3</sup> /h (60 to 13,000 ACFM)	
Vacuum Range	to 33 mbar abs. (to 1 inHgA)	
Maximum Discharge Pressure	2,1 bar abs (50 psia)	
Differential Pressure	to 1.1 bar (to 37.7 psi)	
Shaft Sealing	Stuffing box (standard), Mechanical Seals (single acting/double acting) on request	
Materials	Cast Iron, Stainless Steel, Combination of both materials	









The NASH 2BM Mag Drive liquid ring vacuum pump and compressor series provides reliable, leak free performance for applications requiring the highest levels of safety. Each model is powered by a permanent magnet motor drive system, equipped with static O-ring seals, to provide non-contact torque transmission.

This allows the 2BM series to feature a hermetically sealed pump body, eliminating any possibility of leakage and allowing for safe operation in hazardous and explosive conditions, as well as ensuring compliance with even the strictest environmental regulations. ATEX certification is available for the 2BM series.

Based on the venerable 2BE series pumps and compressors, the 2BM series offer proven reliability. The completely enclosed design, with no rotating shaft seals, eliminates wear and maintenance issues, while the pump's operating fluid ensures optimum lubrication and cooling of the friction bearings and magnetic coupling, further streamlining maintenance.



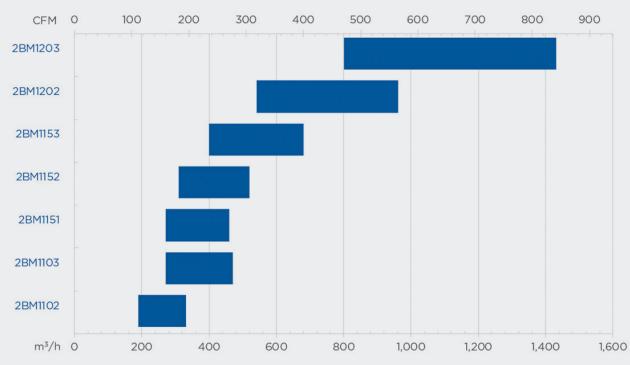








Technical Data NASH 2BM1		
Suction Capacity	125 to 1.400 m <sup>3</sup> /h (75 to 900 ACFM)	
Vacuum Range	to 33 mbar abs. (to 1 inHgA)	
Maximum Discharge Pressure	2,5 bar abs. (36 psia)	
Differential Pressure	to 1,5 bar (to 21.8 psi)	
Shaft Sealing	Magnetic seal	
Materials	Cast Iron, Stainless Steel	





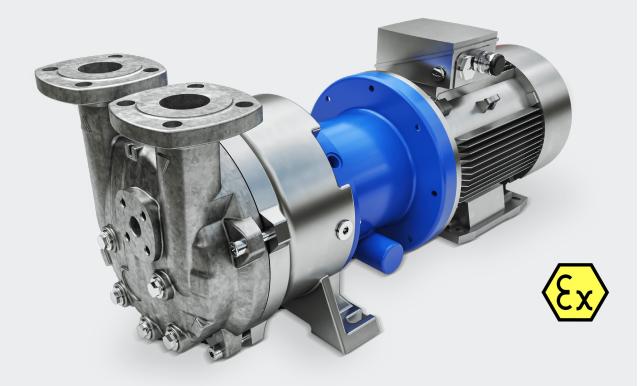
## NASH 2BM5 SERIES

The NASH 2BM Mag Drive liquid ring vacuum pump and compressor series provides reliable, leak free performance for applications requiring the highest levels of safety. Different than the 2BM1, the 2BM5 model has only 1 inlet and discharge port. With a hermetically sealed pump body and capacity from 75 to 440 m<sup>3</sup>/h (45 to 260 ACFM) the 2BM5 liquid ring pump/compressor is an ideal match for process applications in the chemical, pharmaceutical, petrochemical, and the food industries.



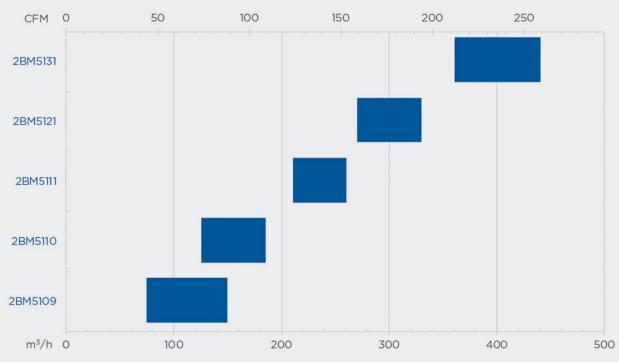








Technical Data NASH 2BM5		
Suction Capacity	75 to 440 m³/h (45 to 260 ACFM)	
Vacuum Range	to 33 mbar abs. (to 1 inHgA)	
Maximum Discharge Pressure	to 2.3 bar abs. (to 33.4 psia)	
Differential Pressure	to 19 psi (to 1.3 bar)	
Shaft Sealing	Can/O-Ring	
Materials	Cast Iron/Bronze, Stainless Steel	









NASH 2BV6 Liquid Ring Vacuum Pumps are single stage units designed for continuous operation, as vacuum pumps or compressors. With capacity ranging from 160 to 580 m³/h (95 to 340 ACFM), the 2BV6 series is used to extract and pump dry and moist gases, mainly air and air/vapor mixtures, in chemical, food & beverage, and other general industrial processes.

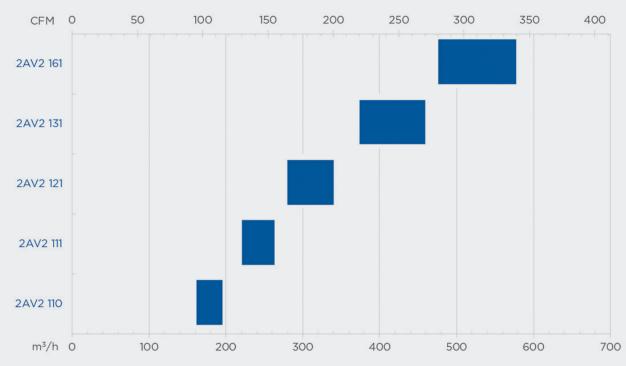








Technical Data NASH 2BV6	
Suction Capacity	160 to 580 m <sup>3</sup> /h (95 to 340 ACFM)
Vacuum Range	to 33 mbar abs. (to 1 inHgA)
Maximum Discharge Pressure	to 2.2 bar abs. (to 32 psia)
Differential Pressure	19 psi (1.3 bar abs.)
Shaft Sealing	Single-acting self flushing or externally flushed mechanical seals, or double-acting mechanical seals with external flushing
Materials	Cast Iron, 316 Stainless Steel





### NASH VECTRA XL SERIES

NASH Vectra XL vacuum pumps are designed for rigorous, nonstop demands of harsh industrial environments, including: chemical, oil & gas, and food & beverage. The Vectra XL vacuum series is manufactured to deliver optimum, reliable performance and exclusive production efficiencies specific to customer application requirements. The capacities of the Vectra XL pumps range from about 195 to 8,900 m³/h (115 to 5,200 ACFM) with pressures up to 2 bar (to 29 psi).









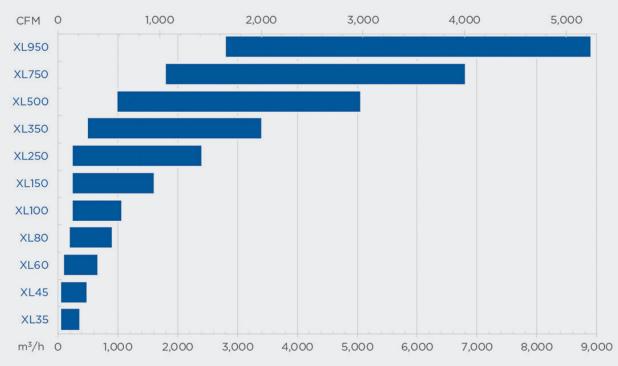








Technical Data NASH VECTRA XL		
Suction Capacity	195 to 8,900 m <sup>3</sup> /h (115 to 5,200 ACFM)	
Vacuum Range	to 33 mbar abs. (to 1 inHgA)	
Maximum Discharge Pressure	3 bar abs. (29 psig)	
Differential Pressure	to 2 bar (to 29 psi)	
Shaft Sealing	Stuffing box (standard), Mechanical Seals (single acting/double acting) or Cartridge (on request)	
Materials	Ductile Iron, Stainless Steel	





### **VACUUM BOOSTERS**

Vacuum boosters are positive displacement, two-lobe rotary blowers. Very tight running clearances enable the boosters to operate efficiently without the need for lubrication in the process chamber.

The lobes, which are synchronized by timing gears in the oil box, convey the gas from the inlet to the discharge along the inner wall of the casing. The gas flow path is very short, which reduces the potential for condensation and material buildup. Vacuum boosters, together with their backing dry vacuum pumps, are the key components of dry vacuum systems.

#### **Other Features:**

- Easy maintenance
- Small footprint
- Multistage combinations with wet or dry backing pumps
- Reliable and proven over decades
- Low capital and operating costs
- Similar to dry backing pumps











# **HYBRID VACUUM SYSTEMS**

#### **OPTIMIZING A HYBRID SYSTEM**

Our hybrid vacuum systems can be optimized in a variety of ways based on initial cost, payback period, or utility limitations. Our experienced team of application engineers can optimize a hybrid system specific to your process, application, and technology requirements to deliver maximum efficiency and performance benefits.



ORIGINAL SYSTEM UNITS

REPLACE LAST STAGE EJECTOR WITH A LIQUID RING VACUUM PUMP

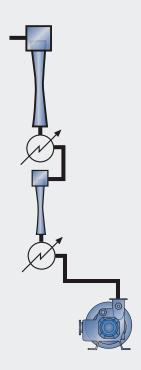
Reduced steam consumption Reduced energy costs Greater system stability REPLACE EXISTING 2ND STAGE EJECTOR WITH A REDESIGNED 2ND STAGE EJECTOR

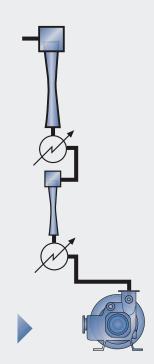
Reduced steam consumption

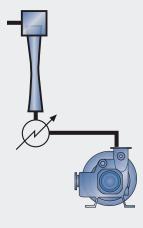
#### REPLACE 2ND & 3RD STAGE EJECTORS WITH LIQUID RING VACUUM PUMPS

Reduced steam consumption Reduced energy costs Higher system non-condensable load Greater system stability











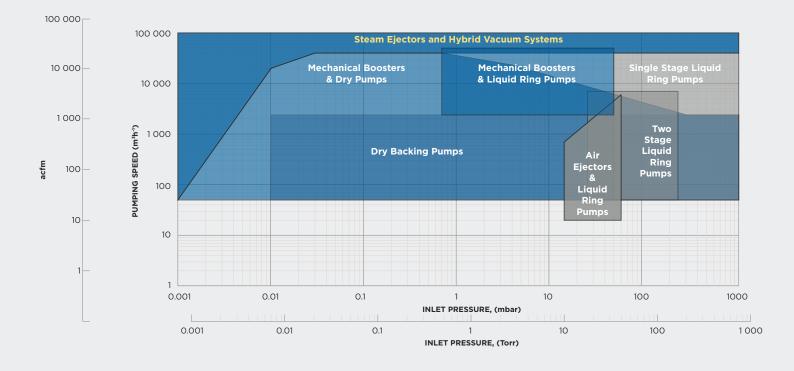
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Technical Data Hybrid Vacuum Systems		
Suction Capacity	as required	
Vacuum Range	down to 0.4 inHgA (13 mbar abs.)	

#### **Vacuum Technology**

Performance Range:





### NASH 2BE4 SERIES

NASH 2BE4 vacuum pumps and compressors have been engineered to provide maximum durability and reliability, with the lowest possible cost of operation.

Based on the proven reliable flat sided liquid ring vacuum pump design, the 2BE4 has a polyisoprene lined body for improved corrosion resistance, unique inlet and discharge connections for maximum flexibility, and a large inspection port for quick and easy access to pump internals. The 2BE4 provides efficient operation across the entire vacuum range, and can also be equipped with a center shroud providing split vacuum differential of up to 12 inHg (400 millibar). This allows the use of fewer vacuum pumps-which saves space and installation costs.

Available in a range of capacities, ranging from 1,950 to 32,100 m<sup>3</sup>/h (1,150 to 18,900 ACFM); the 2BE4 series has been designed to perform in the even the most demanding applications in the pulp & paper, power, mining, and the chemical process industries.













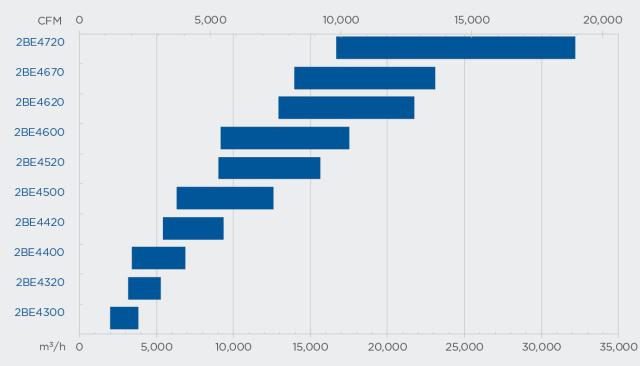






# NASH 2BE4 SERIES

Technical Data NASH 2BE4	
Suction Capacity	2.000 m <sup>3</sup> /h to 32.200 m <sup>3</sup> /h (1,150 to 18,900 ACFM)
Vacuum Range	to 160 mbar abs. (to 4 inHgA)
Maximum Discharge Pressure	2,5 bar abs. (36 psia)
Differential Pressure	to 1.5 bar (to 22 psi)
Shaft Sealing	Stuffing box (standard), Mechanical Seals (single acting / double acting) on request
Materials	Cast Iron, Stainless Steel, Combination ofboth materials, Polyisoprene Lining





CHLORINE COMPRESSION

NASH's NAM and NAB series are rugged Compression and reliable compressors that are capable of handling highly toxic, explosive, and corrosive gasses. They are ideal for use in petroleum refineries and chemical plants, in applications such as flare gas and Vinyl Chloride Monomer (VCM) recovery.

The NAM/NASM line of liquid ring compressors expands the capacity and pressure ranges of the Nash product line to meet the ever growing requirements of our customers in oil & gas, chemical and refining applications. Found primarily in petroleum refineries and chemical plants, rugged and reliable NAM/ NASM compressors handle highly toxic, explosive and corrosive gases in applications such as flaregas, chlorine and Vinyl Chlorine Monomer (VCM) recovery. NAM/NASM Compressors are available in single and two-stage designs, and in cast iron, stainless steel, carbon steel, spheroidal cast iron, 316 stainless steel, duplex stainless steel, and Hastelloy or Titanium on select models.

Together with other NASH liquid ring compressors, including the HP/2BG/2BK and 1250 range, the 14 GARO models form the NASH core compressor product line, which provides compression greater than 15 Bar abs (200 psig). Low pressure compressors are available to 3 Bar abs (30 psig), and 34,000 m<sup>3</sup>/hr (20,000 CFM). As a result, NASH offers the widest pressure and capacity ranges of liquid ring.



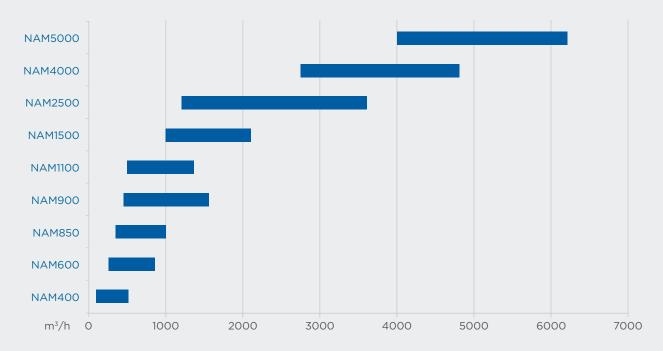






Technical Data NASH NAM (SINGLE STAGE)		
Suction Capacity	100 to 6,200 m³/h	
Maximum Discharge Pressure	6 bar abs.	
Differential Pressure	5 bar g	
Shaft Sealing	Mechanical Seals (single acting/double acting) or Cartridge	
Materials	Stainless Steel; other materials on request	

**CHLORINE COMPRESSION** 







# NASH NAB SERIES

NASH's NAM and NAB series are rugged and reliable compressors that are capable of handling highly toxic, explosive, and corrosive gasses. They are ideal for use in petroleum refineries and chemical plants, in applications such as flare gas and Vinyl Chloride Monomer (VCM) recovery. The capacities of the NAB series range from about 70 to 4,750 m<sup>3</sup>/h with pressures of 14 bar.







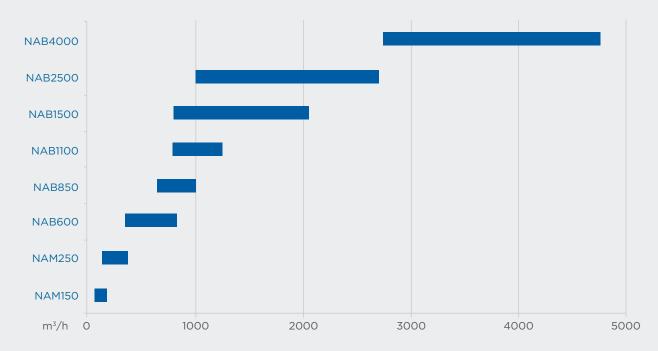






Technical Data NASH NAB (DOUBLE STAGE)		
Suction Capacity	70 to 4,750 m³/h	
Maximum Discharge Pressure	15 bar abs.	
Differential Pressure	14 bar	
Shaft Sealing	Mechanical Seals (single acting/double acting) or Cartridge	
Materials	Stainless Steel; other materials on request	

**CHLORINE COMPRESSION** 







The NASH 2BK single stage liquid ring compressor series functions with both negative and positive pressure inlets, and are/is particularly suitable for increased pressures. With capacity ranging from 85 to 4,100 m³/h (50 to 2,400 SCFM) the 2BK compressors are relied on for the compression and recovery of hydrocarbons in the oil & gas, petrochemical, and chemical process industries.





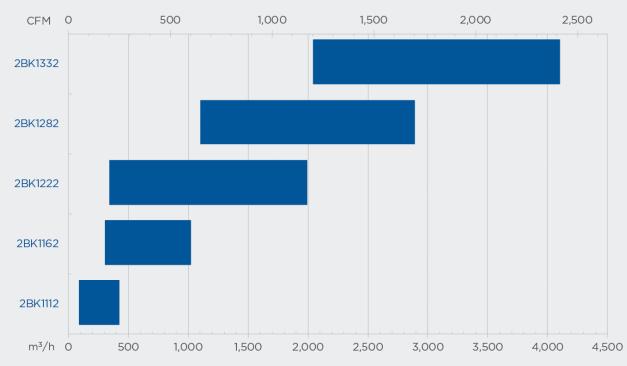






Technical Data NASH 2BK		
Suction Capacity	85 to 4,100 m <sup>3</sup> /h (50 to 2,400 SCFM)	
Suction Pressure	0.8 to 4 bar abs.	
Maximum Discharge Pressure	to 8 bar abs.	
Differential Pressure	to 5 bar	
Shaft Sealing	Mechanical Seals (single acting/double acting)	
Materials	Stainless Steel	

**CHLORINE COMPRESSION** 





### NASH 2BG SERIES

The NASH 2BG two stage liquid ring compressor series delivers reliable, proven performance for batch and continuous process applications.

2BG compressors are ideal for demanding processes including ozone compression, and other chemical and oil & gas applications.

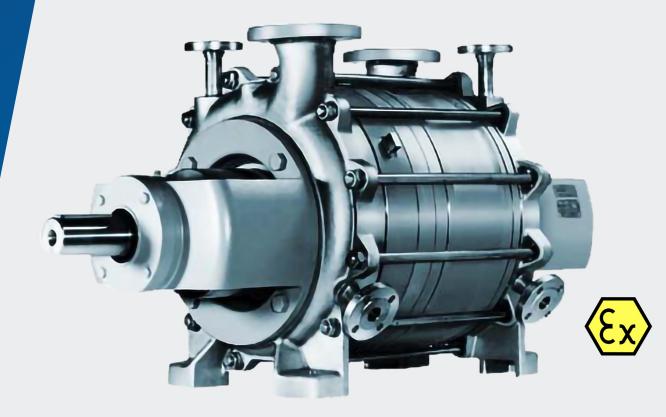
With compressor capacity ranging from 20 to 1,700 m<sup>3</sup>/h (12 to 1,000 SCFM), the 2BG liquid ring compressor is optimal for demanding chemical, petrochemical and oil & gas applications including ozone compression.











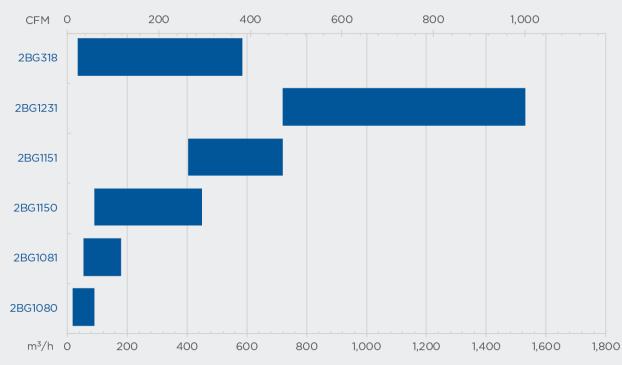






Technical Data NASH 2BG		
Suction Capacity	20 to 1,700 m <sup>3</sup> /h (12 to 1,000 SCFM)	
Maximum Discharge Pressure	to 14 bar abs. (to 170 psig)	
Differential Pressure	13 bar (to 170 psi)	
Shaft Sealing	Mechanical Seals (single acting/ double acting)	
Materials	Stainless Steel, Cast Iron	

**CHLORINE COMPRESSION** 





# NASH P2620 SERIES

The NASH P2620 liquid ring vacuum pump model allows efficient operation over the entire vacuum range without the need to change the pump's internals. With the largest capacity in our portfolio, ranging from 23,800 to 39,000 m³/h (14,000 to 21,800 ACFM), the P2620 is designed to operate in demanding environments such as paper, power, mining, and chemical process industries.







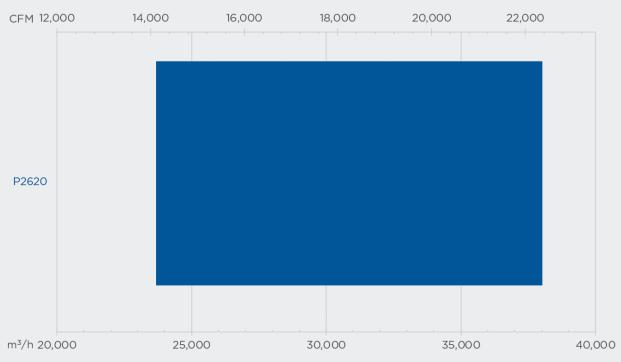






# NASH P2620 SERIES

Technical Data NASH P2620		
Suction Capacity	24.000 to 38.000 m <sup>3</sup> /h (14,000 to 21,800 ACFM)	
Vacuum Range	to 160 mbar abs. (to 4.7 inHgA)	
Maximum Discharge Pressure	2.5 bar abs. (22 psia)	
Differential Pressure	to 1.5 bar (to 22 psi)	
Shaft Sealing	Stuffing Box (standard), Mechanical Seals (single acting/double acting) on request	
Materials	Cast Iron	



# NASH 2BQ SERIES

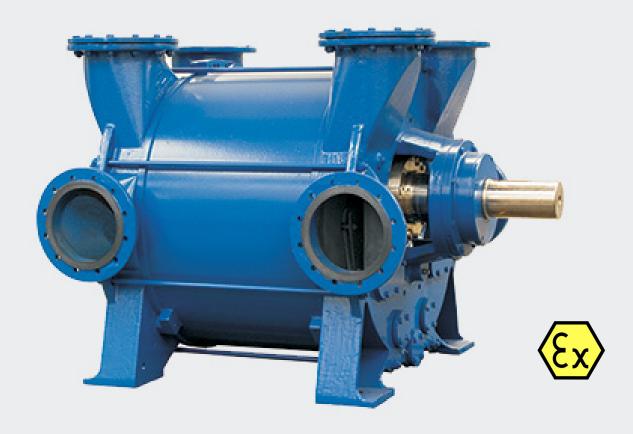
NASH's 2BQ series provides proven performance and reliability in a modular package that can be tailored to a range of applications. Based on the renowned 2BE4, the NASH 2BQ series has an improved compressor configuration, as well as compatibility with a comprehensive range of standard components.

Featuring a reinforced rotor, drive shaft, and bearings, the 2BQ series is capable of withstanding higher pressures, up to 1.5 bar abs suction and 3.75 bar abs discharge pressures; as well as a wider range of operating speeds, from 420 to 611 rpm.

The 2BQ series provides the ultimate operational flexibility. In addition to the modular design, each component can be manufactured from applicationspecific materials such as stainless steel. This ensures that the 2BQ series can be used for a range of demanding processes and applications, including the recovery and compression of hydrocarbons, as well as compression of hydrogen, chlorine, and a range of other process gasses.



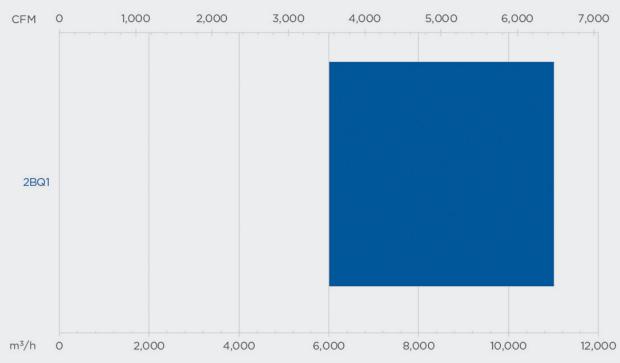






# NASH 2BQ SERIES

Technical Data NASH 2BQ		
Suction Capacity	6,000 to 11,000 m <sup>3</sup> /h (3,500 to 6,400 SCFM)	
Maximum Discharge Pressure	to 3.8 bar abs. (to 40 psig)	
Differential Pressure	to 2.8 bar (to 40 psi)	
Shaft Sealing	Single acting Mechanical Seal (standard), Stuffing box, double acting Mechanical Seal on request	
Materials	Ductile Iron, Stainless Steel	

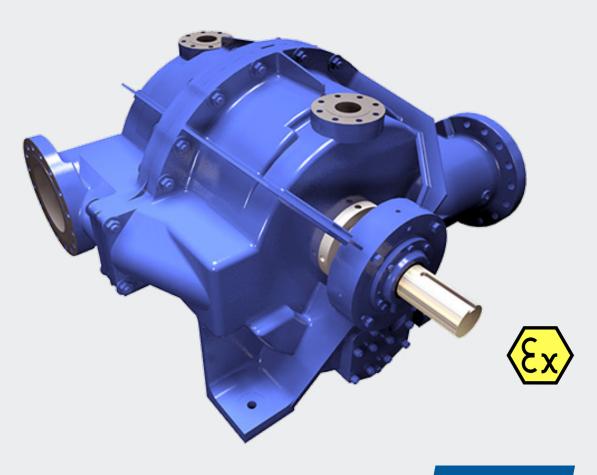




### NASH HP4-9 SERIES

The NASH HP-9 liquid ring compressor series reliably handles toxic, explosive, and corrosive gases in oil & gas, petrochemical, and chemical applications including flare-gas recovery and Vinyl Chloride Monomer (VCM) recovery. Together with the NASH/GARO compressor models and our other liquid ring compressors, the HP-9 completes our core compressor product line by providing capacity ranging from 2,500 to 4,300 m³/h (1,500 to 2,500 SCFM).





**READ MORE** 

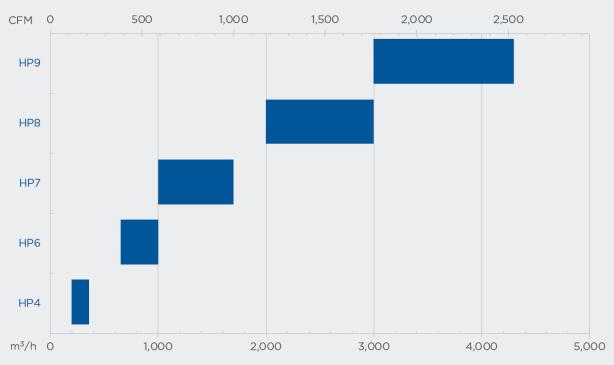


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# NASH HP4-9 SERIES

Technical Data NASH HP4-9		
Suction Capacity	200 to 4,300 m <sup>3</sup> /h (1,500 to 2,500 SCFM)	
Maximum Discharge Pressure	to 8.5 bar abs. (to 110 psig)	
Differential Pressure	to 7.5 bar (to 110 psi)	
Shaft Sealing	Mechanical Seals (single acting/double acting)	
Materials	Stainless Steel	





# **Service & Support**

#### **Local Support Backed by Global Expertise**

Nash offers a comprehensive range of service and support products that are designed to help keep your operations running smoothly and efficiently, avoiding potential equipment failure and costly downtime.

Our ISO 9001:2008 and ISO 14001 certified service **centers** are strategically located around the world, providing our customers with a range of service and support for your vacuum pump, compressor, or blower system, including:

- Inspections & Repair
- OEM Spare Parts
- Service & Repair Kits
- Conversions and Upgrades
- Materials & Seals
- Coatings & Linings
- ATEX Repairs
- Factory Performance Testing
- Field Service
- Installation & Start-Up Services
- Maintenance
- On-site Capacity & Performance Testing
- Fiberscope Inspections
- Pump Cleaning
- Vacuum Audits

**LEARN MORE** 

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Each service center is staffed by CERTIFIED, factory trained professionals who have access to a range of state-of-the-art, specialty equipment, tools, and fixtures that are required to rebuild and overhaul a range of pumps, compressors, blowers, screw vacuumpumps and engineered systems. Nash's technical service and support group is also on hand to provide engineering support as required.

Our team of experts relies on the latest engineering drawings and specifications, as well as a complete inventory of high quality OEM parts and spares. This ensures that your equipment is guaranteed to work within the same performance and reliability tolerances as a new pump or compressor.



# **Engineered project solutions for vacuum and compressor systems**

#### **LEARN MORE**

#### Tailored to Your Needs.

When it comes to vacuum and compressor technology, each industry and every application has its own specific needs and requirements. NASH offers unparalleled expertise designing and manufacturing efficient and reliable engineered systems to meet your specific process needs. Each engineered system comes packaged and ready for operation, easily integrating with existing processes and automation systems; minimizing installation and operating costs.

Regardless of the application, our broad portfolio of products and technologies ensures that Nash has a solution for you. Whether it's a standard pre-engineered package for general industry, an application specific package for the power industry, or a complete engineered to order hybrid system for the chemical industry; NASH has the experience and expertise to deliver an engineered system that is designed to meet the rigors of even the most demanding applications.

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#### Manufacturing Facilities

#### Nash - Zweigniederlassung der Gardner Denver

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