NASH

LIQUID RING PUMPS & COMPRESSORS – EMEIA CATALOG

EXPERIENCE THE FUTURE OF SAFE & EFFICIENT HIGHLY ENGINEERED VACUUM SOLUTIONS

With more than 100 years of experience, Nash is today's leading manufacturer of liquid ring vacuum pumps and compressors and engineered to-order systems.

REQUEST A QUOTE

TURN TO THE TRUSTED MARKET LEADER!

CONTENTS

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NASH – Introduction

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Our vacuum and compressor systems have operated reliably for decades in the **oil and gas industry, in the chemical process industry, in filter applications, in pulp and paper production, in electric power plants, in refineries, in wastewater treatment, in general process industries and in many other applications.** Professional service, both in the field and in our service centers, keeps our customers' pumps and systems running efficiently for decades.

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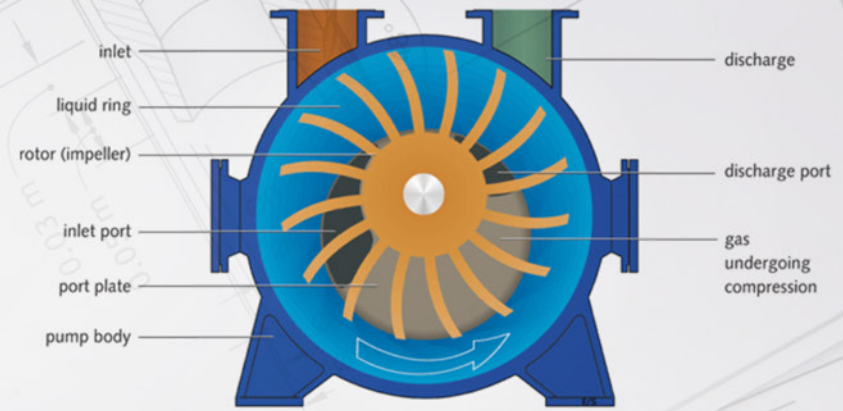
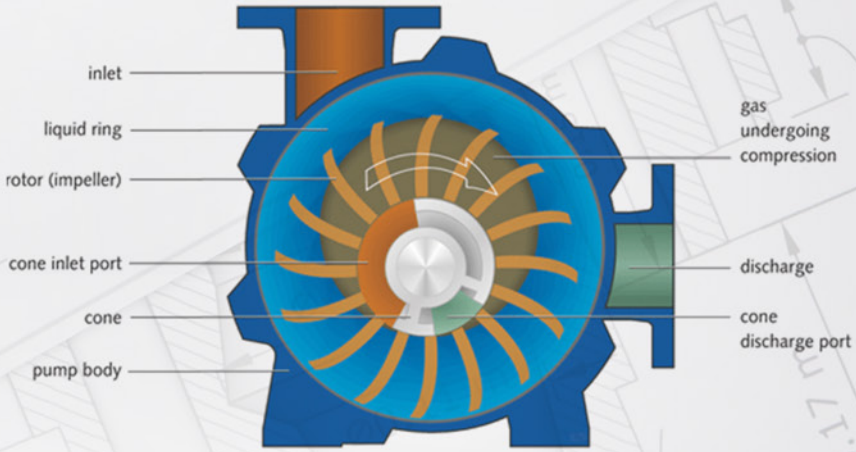
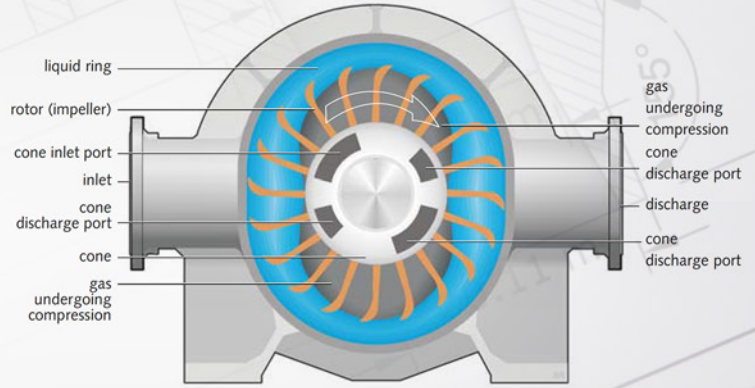
Liquid Ring Operating Principle

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.

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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**
  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

- **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.

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Materials, Suction Capacity, Vacuum & Compression

Materials

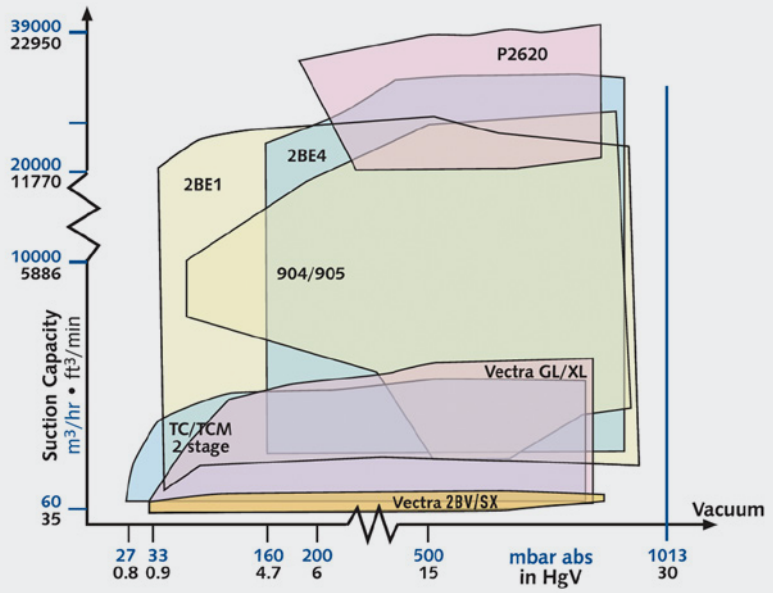
Our liquid ring pumps are available in a range of materials, including cast iron and stainless steel, and feature ceramic coated components and polyisoprene linings. We can also manufacture pumps in exotic materials such as titanium and bronze, ensuring that our equipment is able to meet almost any process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

Suction Capacity, Vacuum, Compression

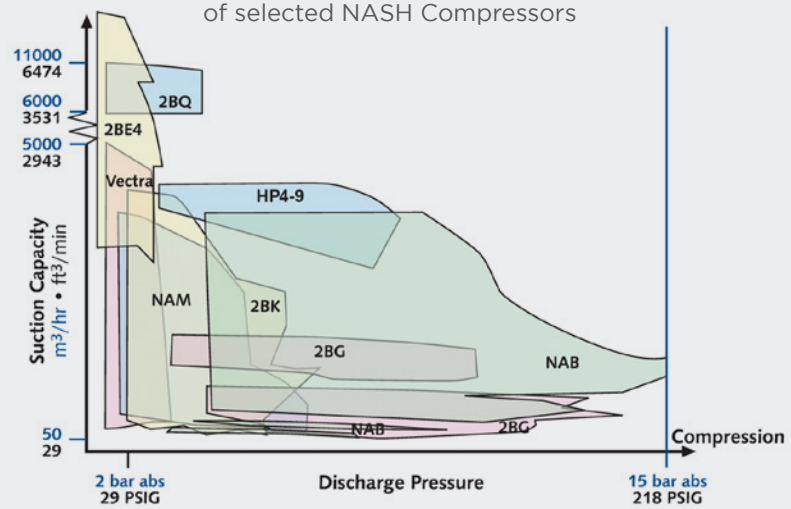
Nash liquid ring vacuum pumps and compressors offer the widest performance range on the market. Depending on the size and model, our liquidring vacuum pumps are capable of providing a suction capacity between 10 m^3/hr to 39,000 m^3/hr, with vacuum levels down to 28 mbar abs. Certain models can also 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 m^3/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



Compression: Performance Range
of selected NASH Compressors



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Applications

Wide Range of Applications

Compression inside the pump can cause gasses being handled to condense. Unlike other technologies, Nash liquid ring pumps have a high tolerance to moisture and condensation, making them ideal for a range of applications and processes that involve handling wet, aggressive, and explosive media.

Chemical Industry	HYDROGEN COMPRESSION	Electric Power Industry	Environmental	TEXTILE	Pulp & Paper	Food & Beverage	General Industrial	Oil & Gas	Mining	Pharmaceutical Industry
2BG	2BG	TC	Vectra XL	Vectra XL	VECTRA XS	Vectra GL/ XL	Vectra XL	2BM1	Vectra SX	2BM5
2BM1	2BK1	AT	Vectra GL	Vectra GL	2BG	Vectra SX	Vectra GL	2BM5	Vectra XL	2BM1
2BM5	2BM1	P2620	Vectra SX	Vectra SX	CL	2BK	Vectra SX	2BV6	Vectra GL	TC
2BV6	2BM5	SC	2BK	SC	SC	2BG	2BK	vectra XM	TC Two STAGE	2BV2
2BV	2BQ	CL	2BG	CL	904	TC	2BG	HP	AT	2BV5
VECTRA XM	2BE4	2BE1	TC	2BE1	905	AT	TC	2BQ	P2620	2BV6
HP	VECTRA XL	2BE4	AT	2BE4	2BE1	P2620	AT	TC	SC	2BV7
2BQ	VECTRA XM	2BV2	P2620	2BV2	2BE4	SC	P2620	Vectra XL	CL	2BE1
TC	HP	2BV5	SC	2BV5	P2620	CL	SC	2BE1	2BE1	VECTRA SX
VECTRA XL	NASH NAM/NASM	2BV6	CL	2BV6		2BE1	CL	2BE4	2BE4	VECTRA GL/ XL
2BE1	NAB	2BV7	2BE1	2BV7		2BE4	2BE1	2BK	2BV2	DryPro
2BE4	2BE1	904	2BE4			2BV2	2BE4	2BG	2BV5	Nash Dry-Pro
2BK	2BE4	905	2BV2			2BV5	2BV2	SC	2BV6	VSB
2BG	2BV2	Vectra SX	2BV5			2BV6	2BV5	DryPro	2BV7	
SC	2BV5	Vectra XL	2BV6			2BV7	2BV6	NASH NAM/NASM	N905	
DRYPRO	2BV6	Vectra GL	2BV7			904	2BV7	NAB	N904	
NASH NAM/NASM	2BV7		904			905	N905	905		
NAB			905				N904	Nash Dry-Pro		
905							VSB			
VSB										

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NASH VECTRA SX SERIES

NASH's Vectra SX liquid ring vacuum pump and compressor series delivers optimum performance with unprecedented production efficiencies and lower lifecycle costs. Available in capacities ranging from 25 to 260 m^3/h, (15 to 150 ACFM), and have been designed to meet the widespread needs of the process industry.

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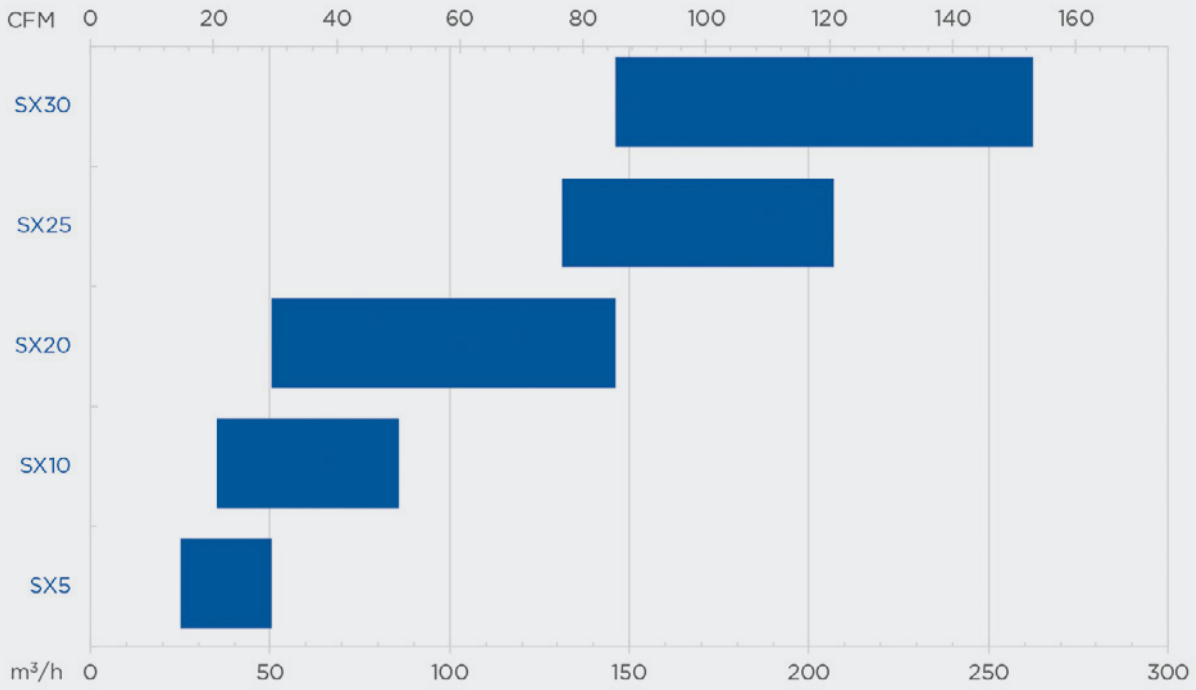
NASH VECTRA SX SERIES

Technical Data NASH VECTRA SX	
Suction Capacity	25 to 260 m³/h (15 to 150 ACFM)
Vacuum Range	33 mbar abs. (to 1 inHgA)
Maximum Discharge Pressure	to 2.3 bar abs (to 33 psia)
Differential Pressure	to 1.5 bar (to 19 psi)
Shaft Sealing	Single acting Mechanical Seal
Materials	Cast Iron with precision cast 316 SS Rotor and SS lined body; All precision cast 316 SS

Models and Performance Range



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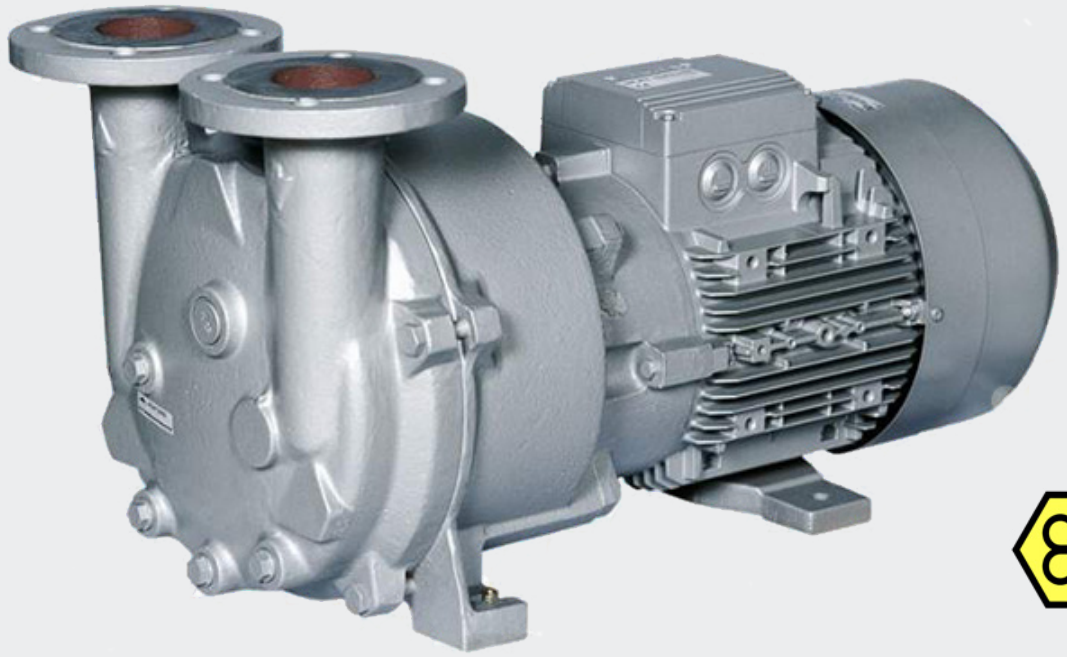
NASH 2BV5 SERIES

NASH 2BV series mono-block pumps are engineered to provide suction volumes of up to 600 m^3/h with pressures of up to 33 mbar abs. With sound pressures of less than 75 dBA, the 2BV series provides quiet, vibration free operation, ensuring compliance with the strictest noise standards; all in a compact, space saving package.



Compact and light design

Corrosion resistant

Quiet Operation

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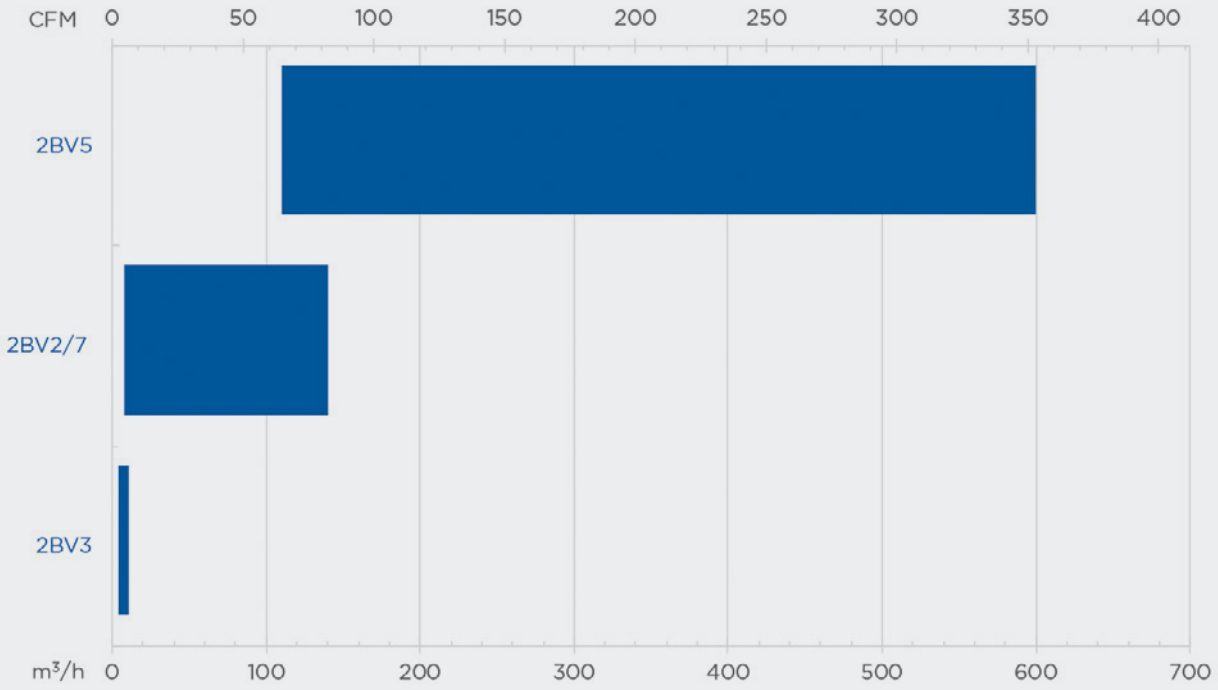
NASH 2BV5 SERIES

Technical Data NASH 2BV5	
Suction Capacity	160 to 580 m³/h (95 to 340 ACFM)
Vacuum Range	to 33 mbar abs. (to 1 inHgA)
Maximum Discharge Pressure	to 2.3 bar abs. (to 32 psia)
Differential Pressure	to 1,3 bar (to 19 psi)
Shaft Sealing	Single acting Mechanical Seal
Materials	Cast Iron/Bronze, Stainless Steel

Models and Performance Range



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NASH 2BV6 SERIES

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 m^3/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.

Rugged and Reliable

Quiet Operation

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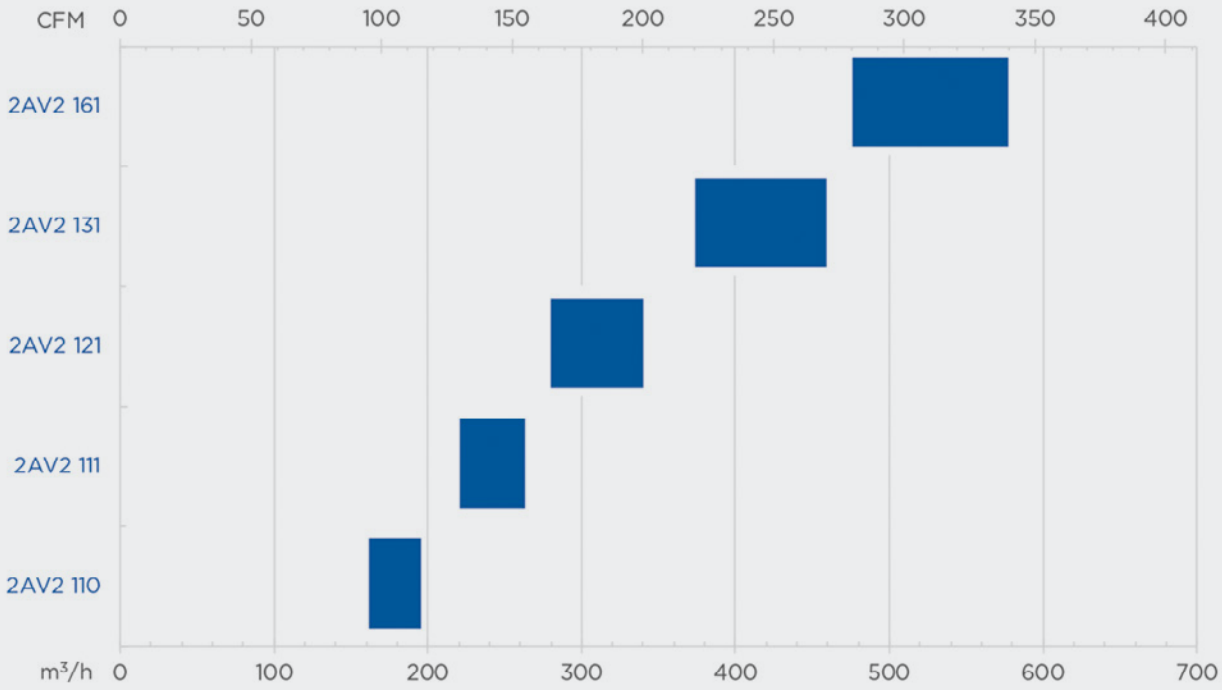
NASH 2BV6 SERIES

Technical Data NASH 2BV6	
Suction Capacity	160 to 580 m³/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

Models and Performance Range



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NASH 2BV2/7 SERIES

The NASH 2BV7 monoblock liquid ring vacuum pumps have been designed to provide superior performance for a wide array of applications. Available from 25 to 145 m^3/h (15 to 85 ACFM), their high vacuum capability, extra water handling ability, and compact size combine to make an ideal machine for industries like plastics manufacturing and medical technologies.

Compact and light design

Corrosion resistant

Quiet Operation

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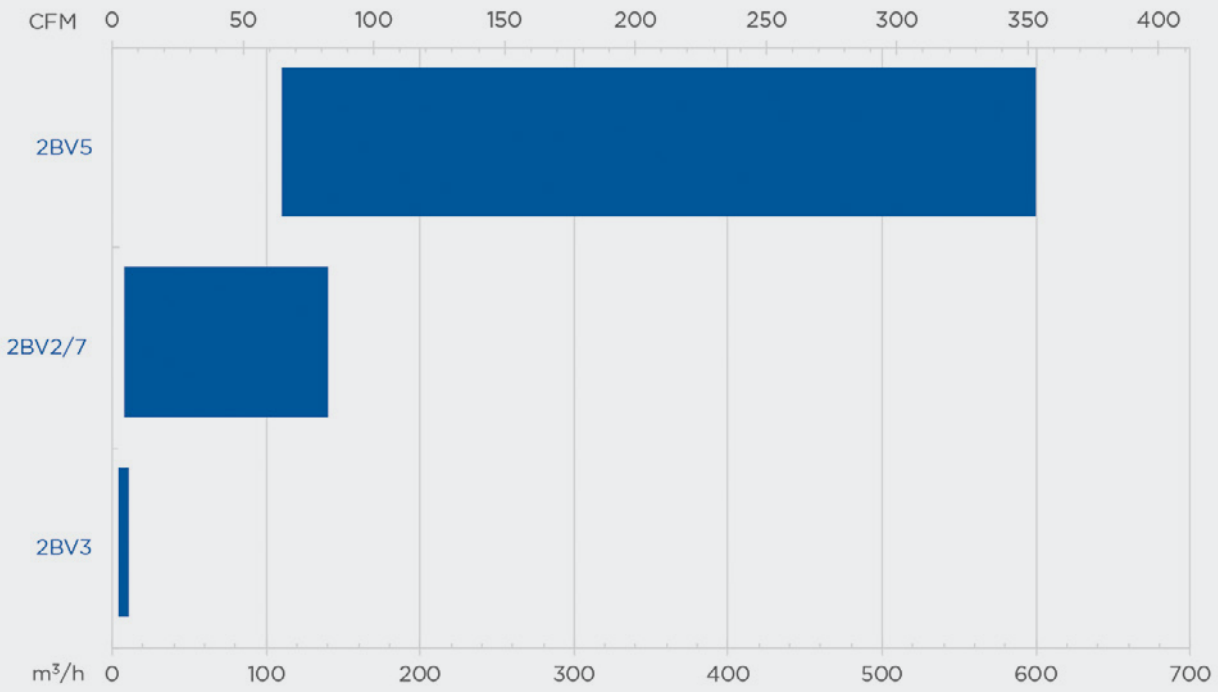
NASH 2BV2/7 SERIES

Technical Data NASH 2BV7	
Suction Capacity	25 to 145 m³/h, (15 to 85 ACFM)
Vacuum Range	to 33 mbar abs. (to 1 inHgA)
Maximum Discharge Pressure	to 2.2 bar abs. (to 32 psia)
Differential Pressure	to 19 psi (to 1.3 bar)
Shaft Sealing	Single acting Mechanical Seal
Materials	Cast Iron/Bronze, Stainless Steel

Models and Performance Range



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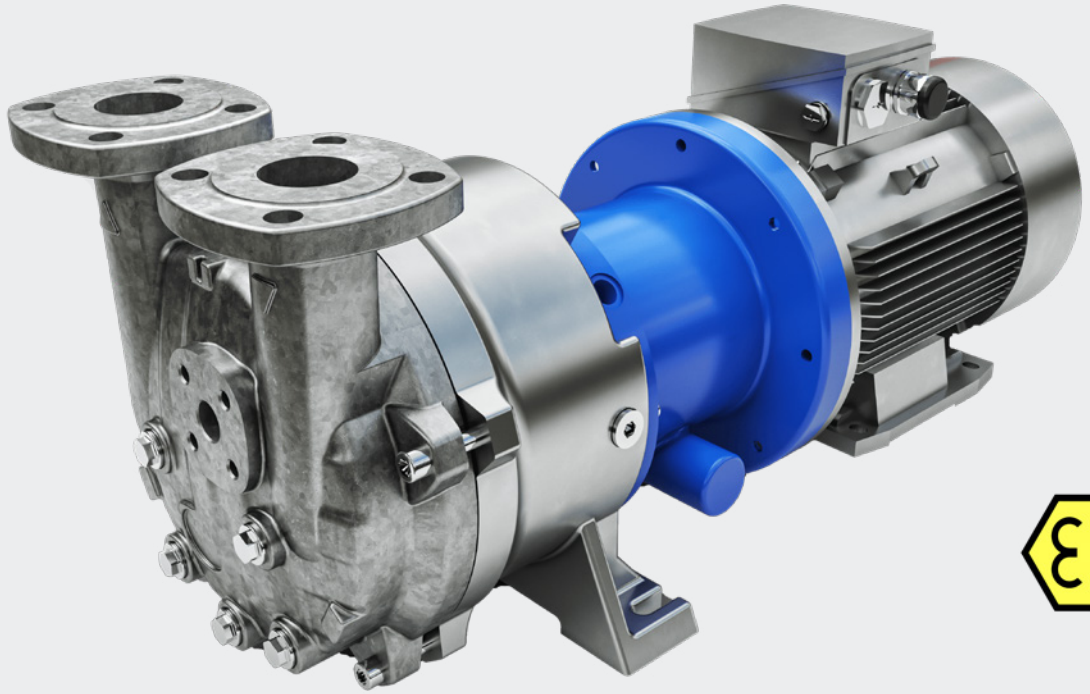
NASH 2BM5 SERIES

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^3/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.

Reliable Hydraulics

Safe Solution No Leaks

Minimal Wear and Maintenance



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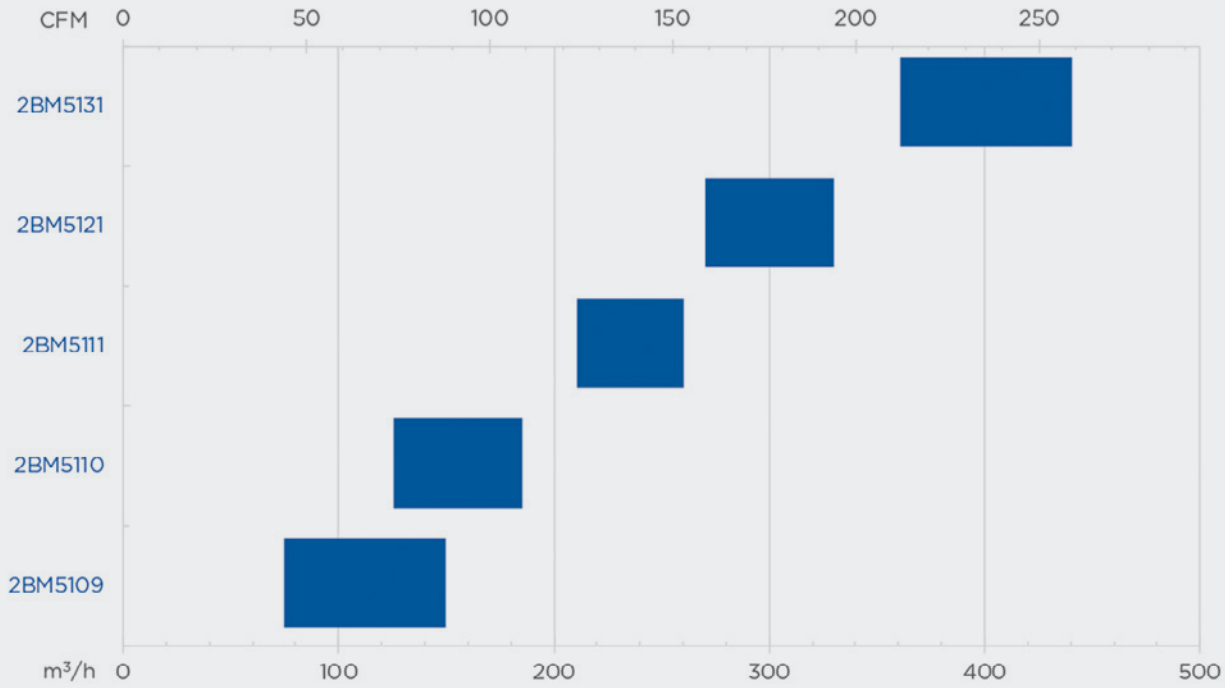
NASH 2BM5 SERIES

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

Models and Performance Range



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NASH 2BE1 SMALL SERIES

The NASH 2BE1 liquid ring vacuum pump and compressor series covers a broad range of suction volume from 100 to 22,500 m^3/h (60 to 13,000 ACFM), vacuum range of 33 mbar abs. (to 1 inHgA) and pressure of 3.5 bar abs. (50 psia). 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.

2in1 Pump & Compressor

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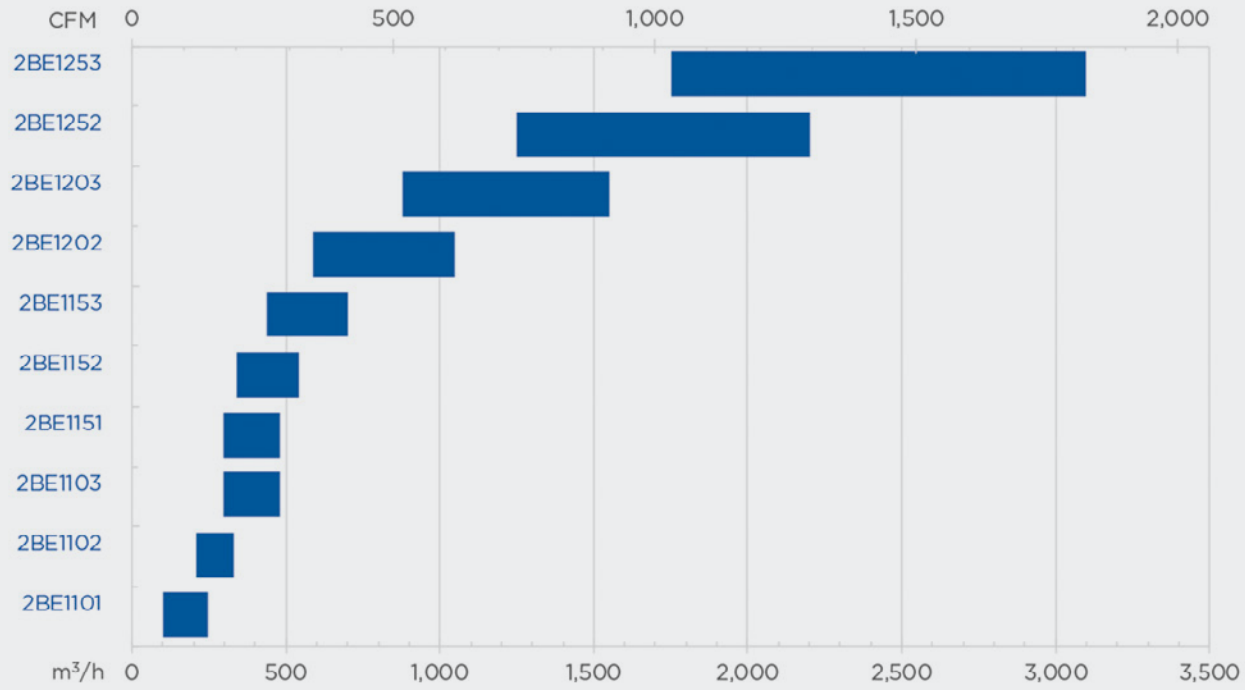
NASH 2BE1 SMALL SERIES

Technical Data NASH 2BE1	
Suction Capacity	100 to 3.000 m³/h (60 to 13,000 ACFM)
Vacuum Range	33 mbar abs. (to 1 inHgA)
Maximum Discharge Pressure	3.5 bar abs. (50 psia)
Differential Pressure	to 2,6 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

Models and Performance Range



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NASH 2BM1 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. 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.

Reliable Hydraulics

Safe Solution No Leaks

Minimal Wear and Maintenance

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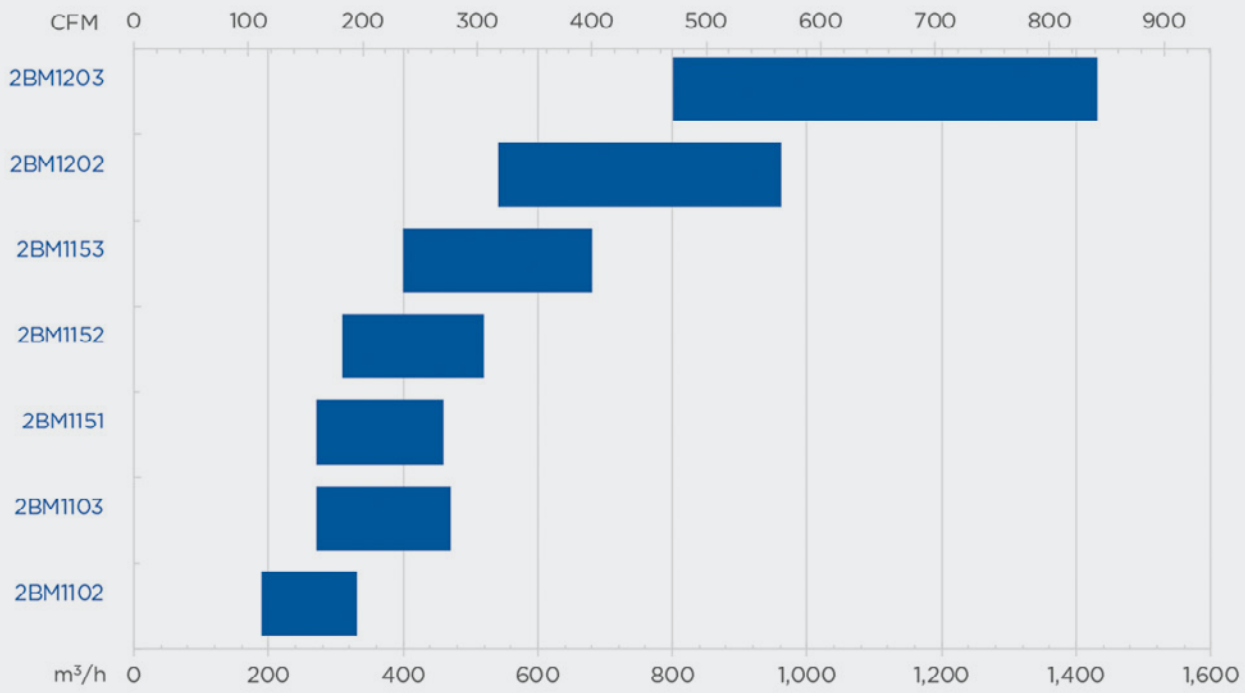
NASH 2BM1 SERIES

Technical Data NASH 2BM1	
Suction Capacity	125 to 1.400 m³/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

Models and Performance Range



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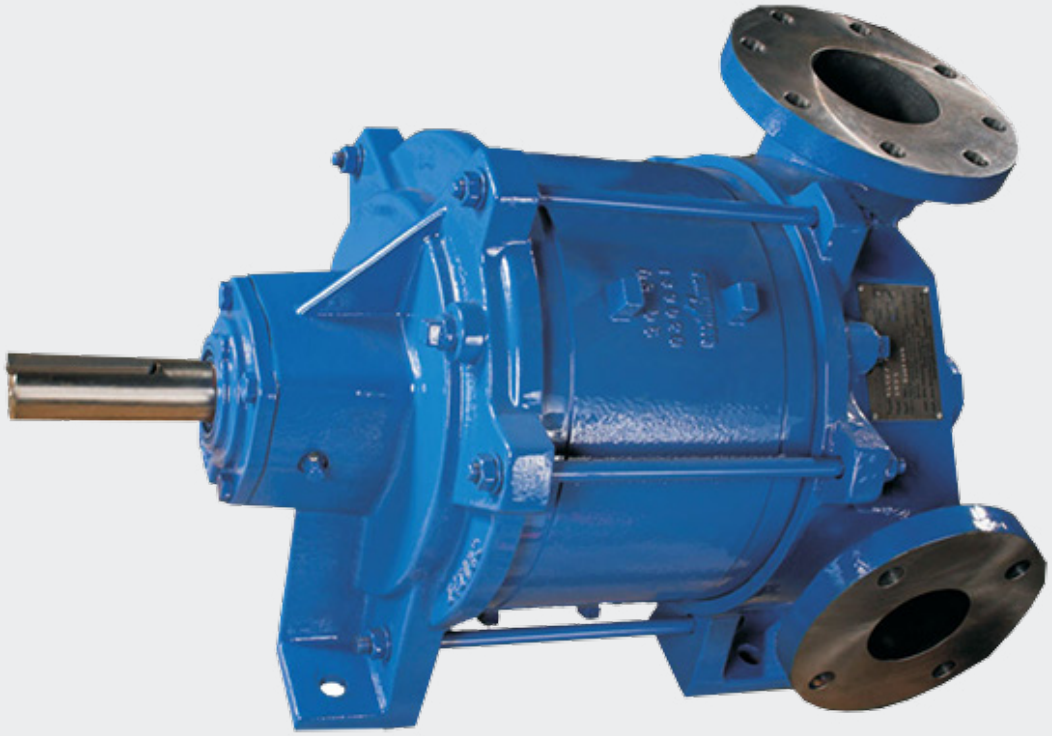
NASH VECTRA GL SERIES

The NASH Vectra liquid ring vacuum pump and compressor series deliver optimum performance with unprecedented production efficiencies. The Vectra GL models, with capacity ranging from 195 to 1,400 m^3/h (115 to 830 ACFM), are engineered to deliver outstanding reliability and performance for general industrial applications.

2in1 Pump & Compressor

Reliable And Efficient

Low total cost



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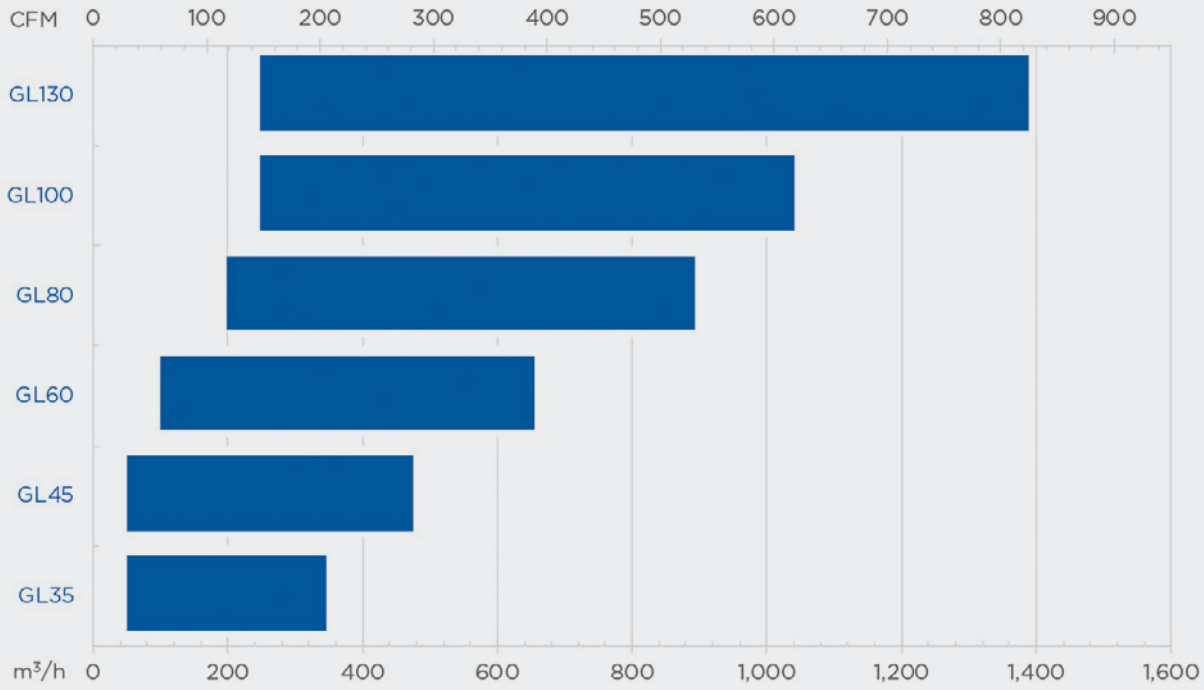
NASH VECTRA GL SERIES

Technical Data NASH VECTRA GL	
Suction Capacity	195 to 1,400 m³/h (115 to 830 ACFM)
Vacuum Range	to 67 mbar abs. (to 2 inHgA)
Maximum Discharge Pressure	2 bar abs. (15 psig)
Differential Pressure	to 1 bar (to 15 psi)
Shaft Sealing	Mechanical Seals single acting
Materials	Ductile Iron

Models and Performance Range



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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 m^3/h (115 to 5,200 ACFM) with pressures up to 2 bar (to 29 psi).

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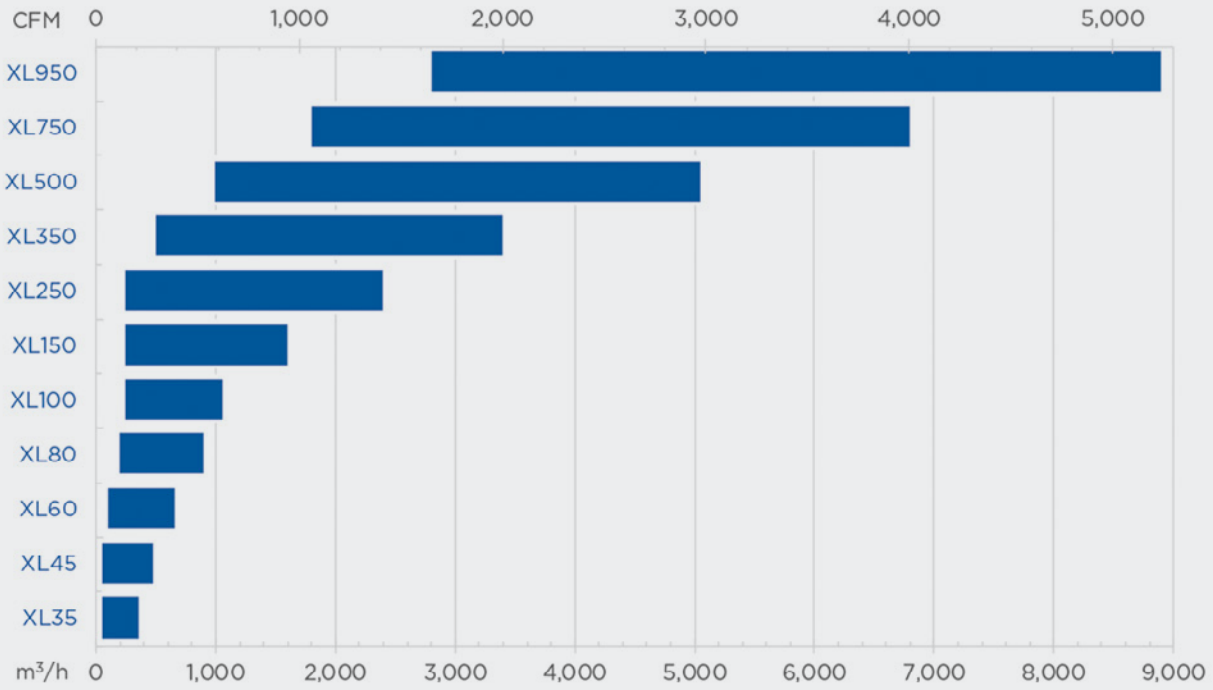
NASH VECTRA XL SERIES

Technical Data NASH VECTRA XL	
Suction Capacity	195 to 8,900 m³/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

Models and Performance Range



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NASH SC SERIES

The NASH SC liquid ring vacuum pump and compressor series is a reliable and flexible alternative to the popular NASH CL series. Designed as an upgrade to the existing CL models, the SC series delivers proven performance with flexible installation options and reduced maintenance requirements. Available in 9 models, the capacities of the SC pumps range from about 120 to 2,000 m^3/h (70 to 1,150 ACFM). SC pumps and compressors are typically found in food and general industrial applications.

Reliable And Efficient

2in1 Pump & Compressor

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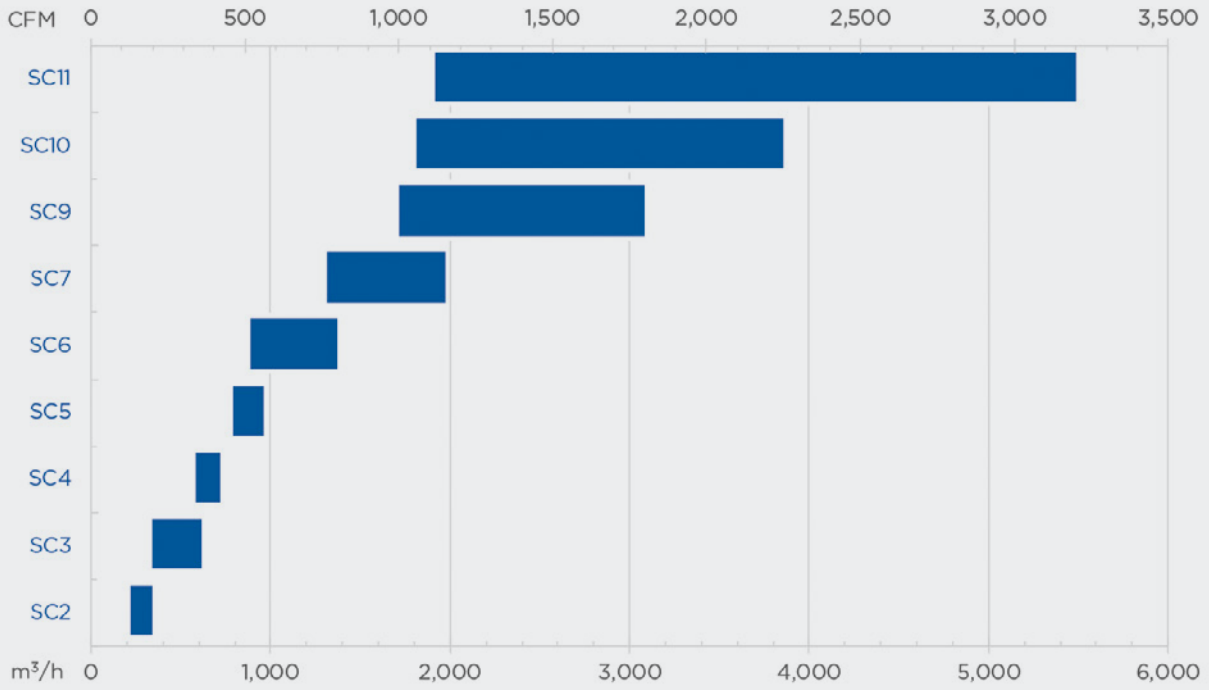
NASH SC SERIES

Technical Data NASH SC	
Suction Capacity	220 m³/h to 5.400 m³/h (70 to 1,150 ACFM)
Vacuum Range	to 100 mbar abs. (to 2 inHgA)
Maximum Discharge Pressure	2,5 bar abs. (20 psig)
Differential Pressure	1,5 bar (22 psi)
Shaft Sealing	Stuffing box (standard), Mechanical Seals (single acting/double acting) on request
Materials	Cast Iron, Stainless Steel

Models and Performance Range



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NASH CL SERIES

The NASH CL liquid ring vacuum pump & compressor series delivers classic Nash performance with a broad range of suction volume, vacuum, and pressure. This single stage liquid ring vacuum pump & compressor series is available in 12 different models and can be found in many applications including paper machine dewatering, autoclaves, carburetor testing, chucking, condenser air removal, container filling, cooking, deaerating, drying, evisceration, exhausting, molding, pickup and conveying, priming, slot extraction, and solvent recovery.

ECO-FLO

Reliable And Efficient

Demanding Environments

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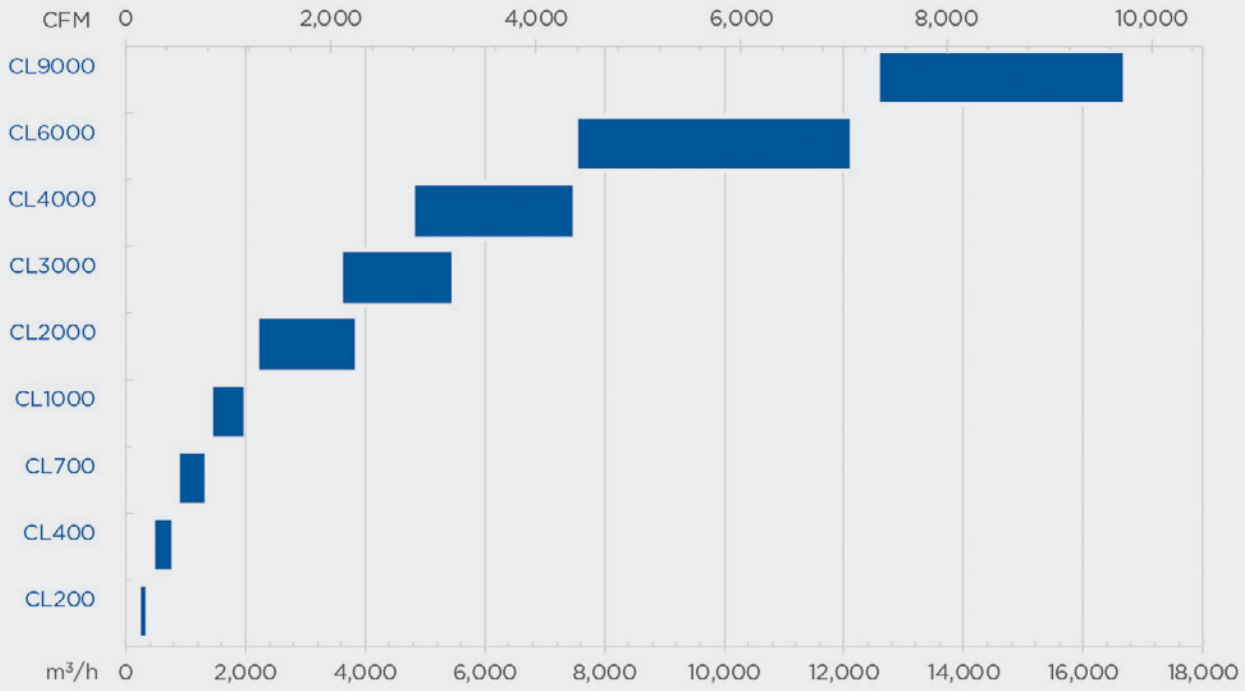
NASH CL SERIES

Technical Data NASH CL	
Suction Capacity	240 to 16.500 m³/h (140 to 14,800 ACFM)
Vacuum Range	to 100 mbar abs. (to 3 inHgA)
Maximum Discharge Pressure	2,5 bar abs. (20 psig)
Differential Pressure	to 1.5 bar (22 psi)
Shaft Sealing	Stuffing box (standard), Mechanical Seals (single acting/double acting) on request
Materials	Cast Iron, Stainless Steel

Models and Performance Range



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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.

2in1
Pump & Compressor

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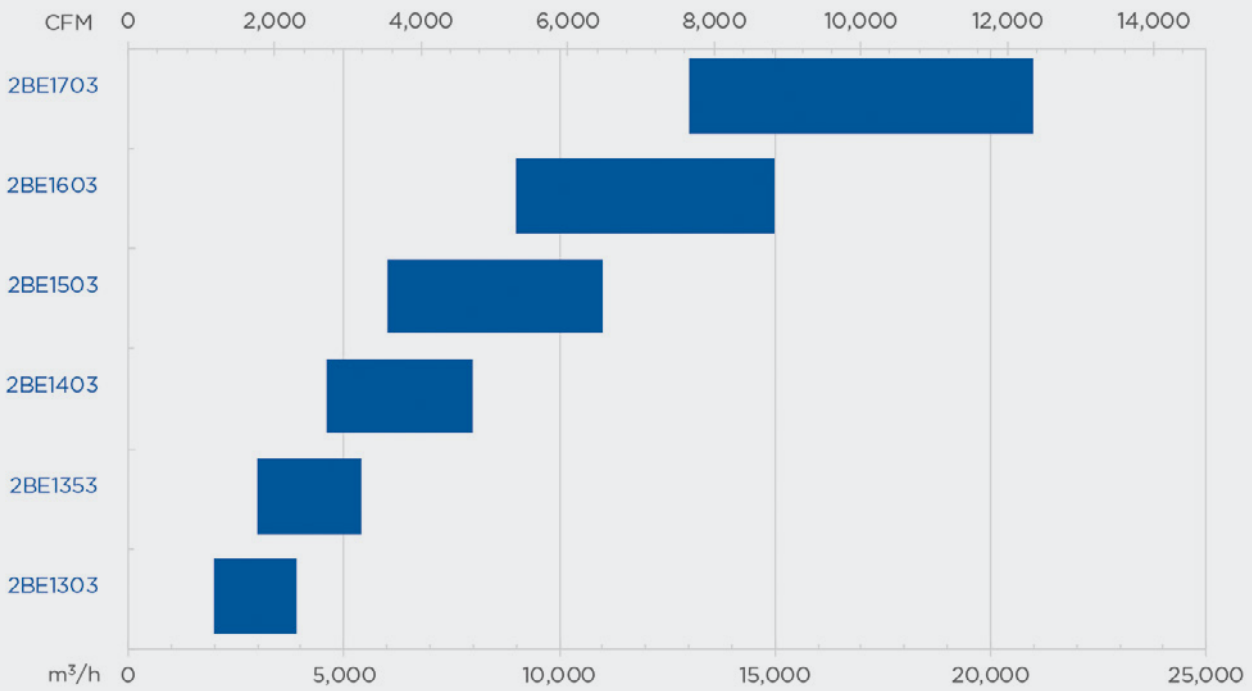
NASH 2BE1 LARGE SERIES

Technical Data NASH 2BE1	
Suction Capacity	2.000 m³/h to 21.000 m³/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

Models and Performance Range



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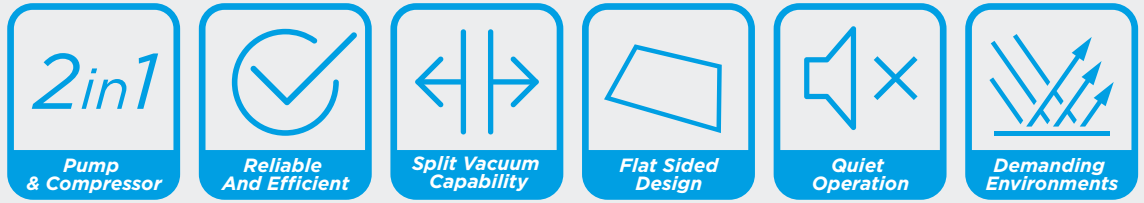
NASH 2BE4 SERIES

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^3/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.



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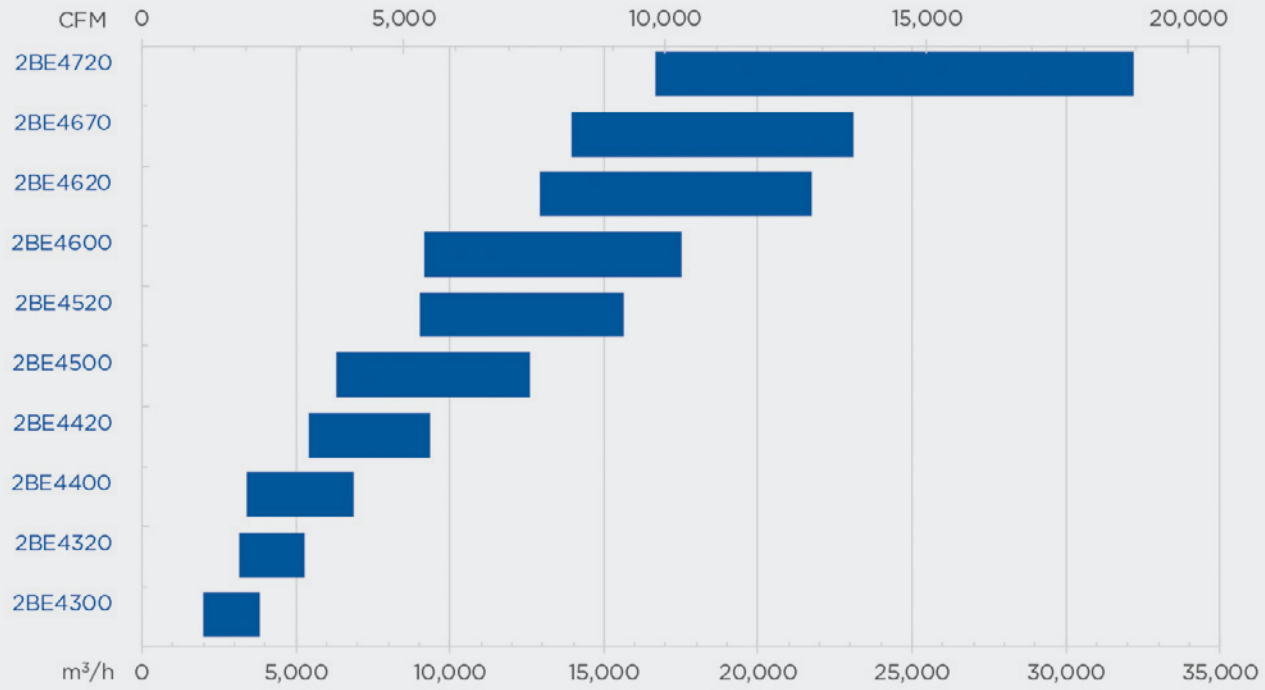
NASH 2BE4 SERIES

Technical Data NASH 2BE4	
Suction Capacity	2.000 m³/h to 32.200 m³/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

Models and Performance Range



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NASH 904 SERIES

Capacities of the 904 pumps range from 4,600 to 28,600 m³/h (upward from about 2,700 ACFM) at vacuum. These durable pumps can handle excess liquid carryover without any difficulty, even if it arrives as massive slugs. 904 pumps are found in many industries including paper, chemical, and mining.

Demanding Environments

Reliable And Efficient

2in1 Pump & Compressor

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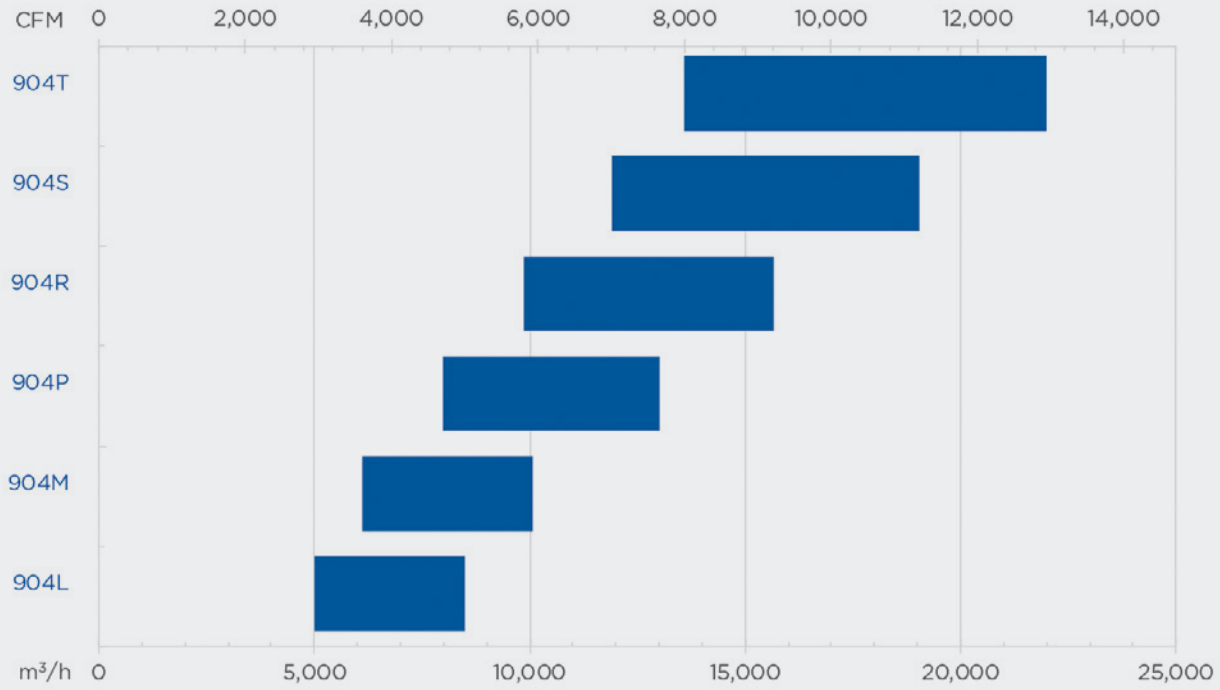
NASH 904 SERIES

Technical Data NASH 904	
Suction Capacity	5.000 m³/h to 22.000 m³/h (2,700 to 16,800 ACFM)
Vacuum Range	to 120 mbar abs. (to 4 inHgA)
Maximum Discharge Pressure	2.5 bar abs. (30 psia)
Differential Pressure	to 1.5 bar (to 15 psi)
Shaft Sealing	Stuffing Box (standard), Mechanical Seals (single acting/double acting) on request
Materials	Cast Iron

Models and Performance Range



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NASH 905 SERIES

The NASH 905 liquid ring vacuum pump series has been optimized to deliver superior reliability and performance over the existing 904 and CL models. With capacities ranging from 4,800 to 22,000 m^3/h (2,800 to 13,000 ACFM) the 905 is ideal for applications such as chemical processing, paper, mining, geothermal power generation or anywhere reliable compression of corrosive gases is needed.

Reliable And Efficient

Demanding Environments

2in1 Pump & Compressor

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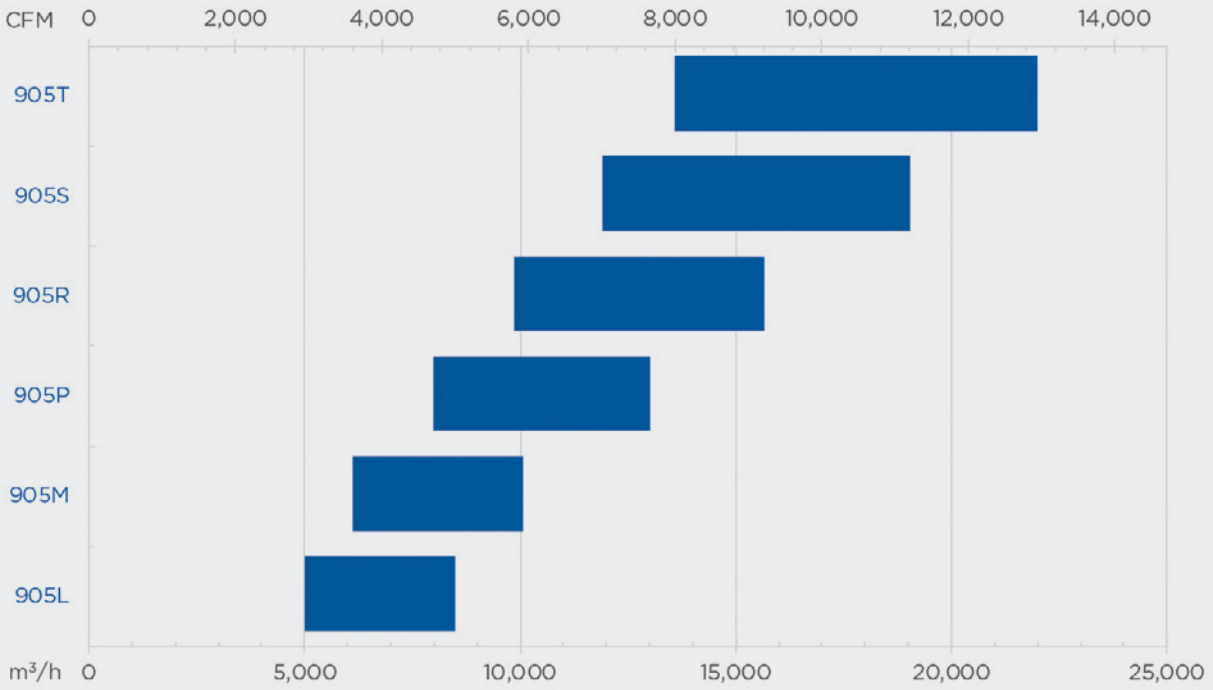
NASH 905 SERIES

Technical Data NASH 905	
Suction Capacity	5.000 to 22.000 m³/h (2,800 to 13,000 ACFM)
Vacuum Range	to 120 mbar abs. (to 4 inHgA)
Maximum Discharge Pressure	to 2,5 bar abs. (30 psia)
Differential Pressure	to 1.5 bar abs. (to 15 psi)
Shaft Sealing	Stuffing Box (standard), Mechanical Seals (single acting/double acting) on request
Materials	316L Stainless Steel

Models and Performance Range



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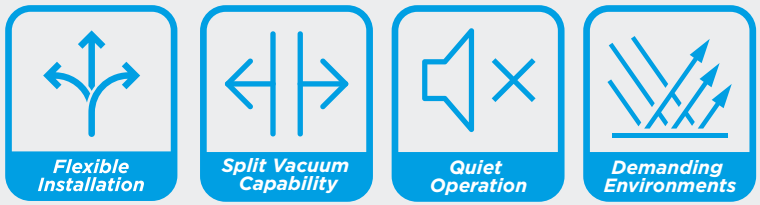
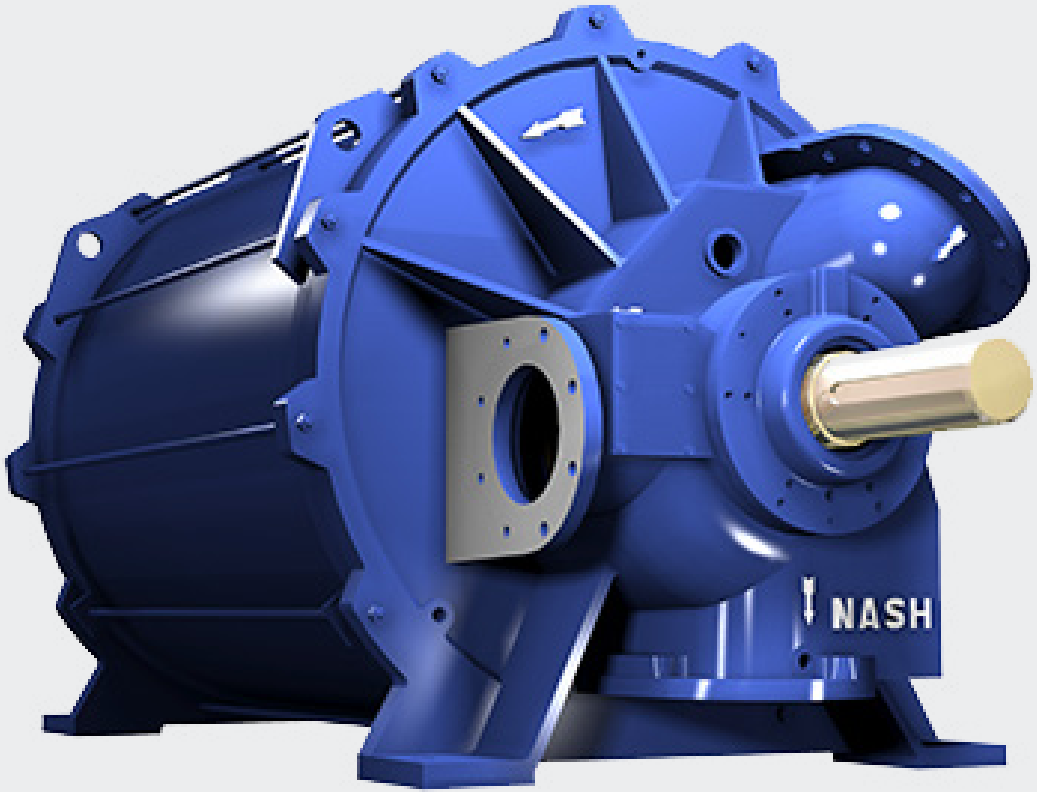
NASH P2620 SERIES

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 m^3/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.





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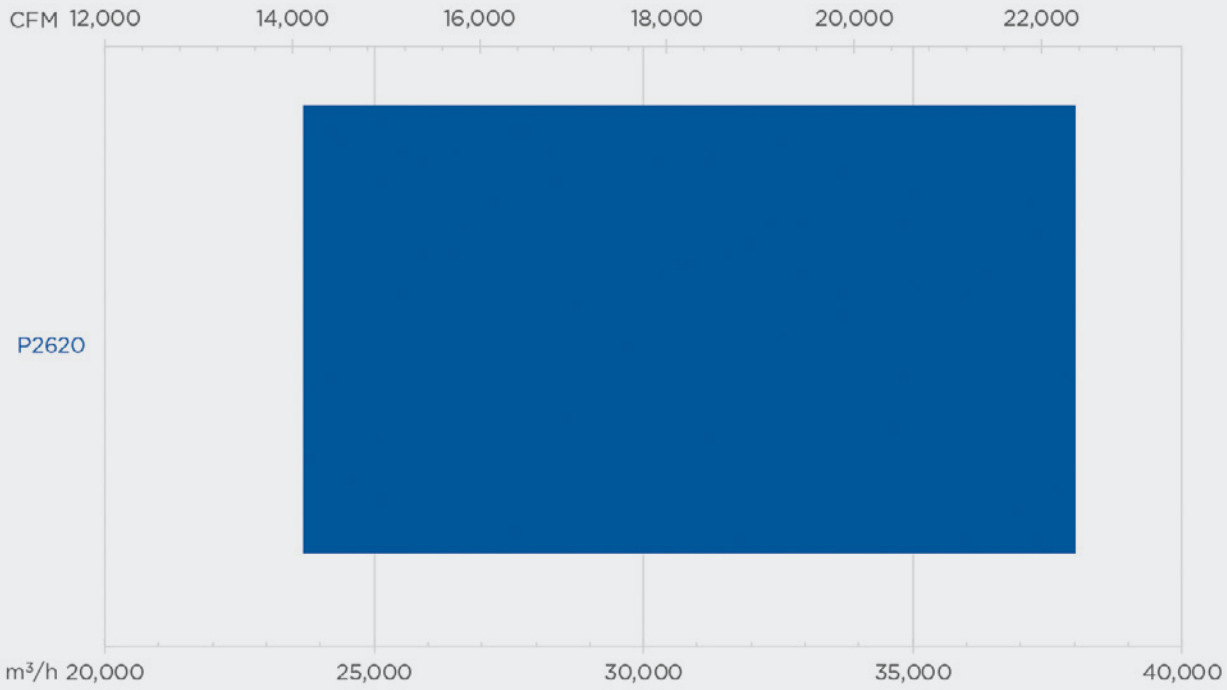
NASH P2620 SERIES

Technical Data NASH P2620	
Suction Capacity	24.000 to 38.000 m³/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

Models and Performance Range



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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.

Harsh Conditions

Reliable And Efficient

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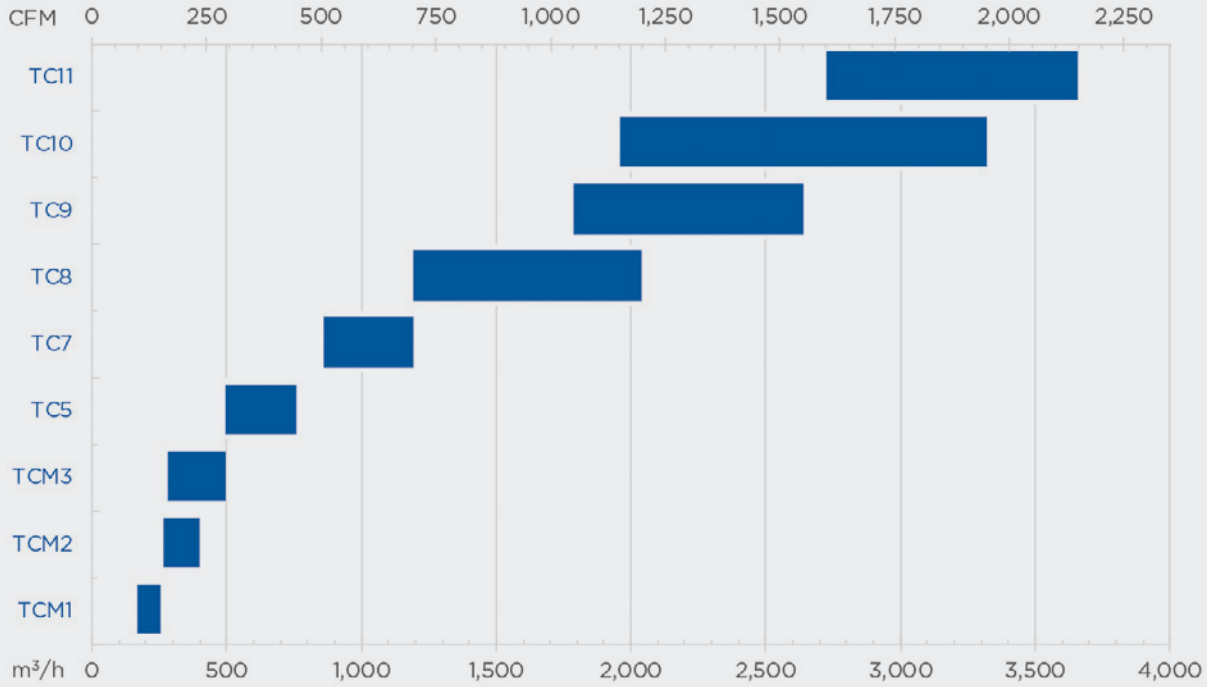
NASH TC/TCM SERIES

Technical Data NASH TC/TCM	
Suction Capacity	170 to 3650 m³/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

Models and Performance Range



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NASH AT SERIES

The popular NASH AT two stage vacuum pump series has been providing reliable high vacuum performance in the power industry for over 25 years. With capacity ranging from 680 to 4,750 m^3/h (400 to 2,800 ACFM) the AT's four vacuum pump models are an ideal choice when you need a rugged and long-lasting machine to handle your saturated process gases.

Harsh Conditions

Reliable And Efficient

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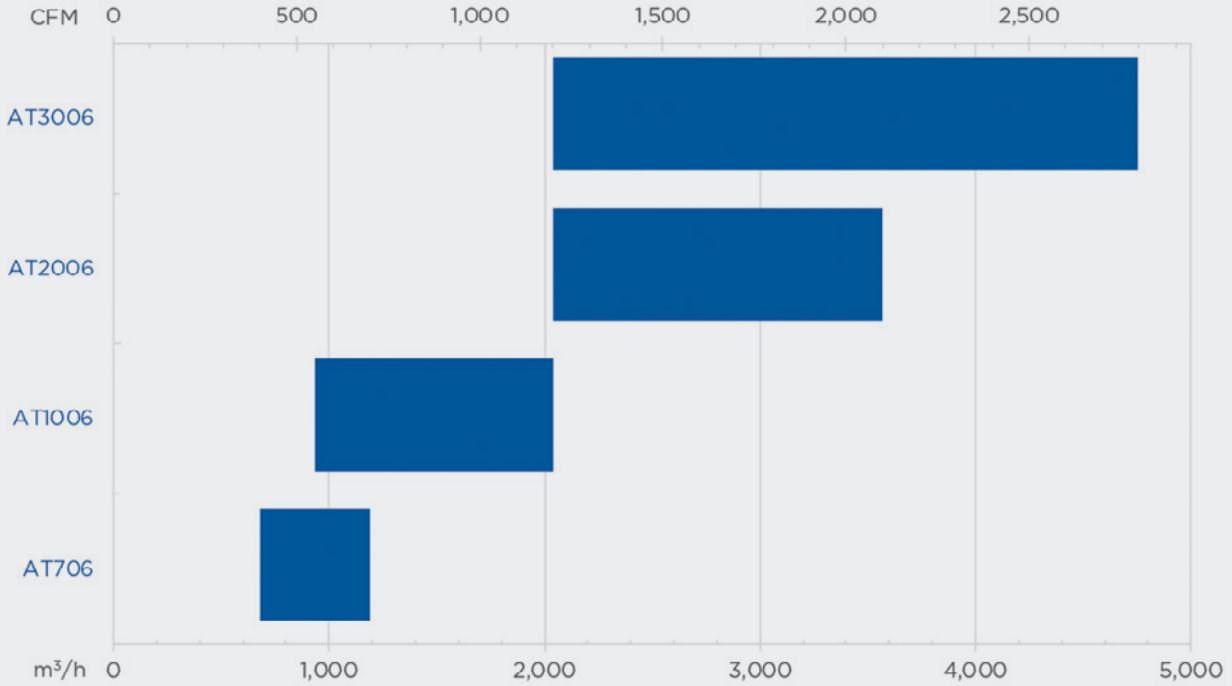
NASH AT SERIES

Technical Data NASH AT	
Suction Capacity	680 to 4,750 m³/h (400 to 2,800 ACFM)
Vacuum Range	to 28 mbar abs. (to 0.8 inHgA)
Shaft Sealing	Stuffing box (standard)
Materials	Cast Iron

Models and Performance Range



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NASH 2BK SERIES

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 m^3/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.

Unpredictable Industries

Optimized Performance

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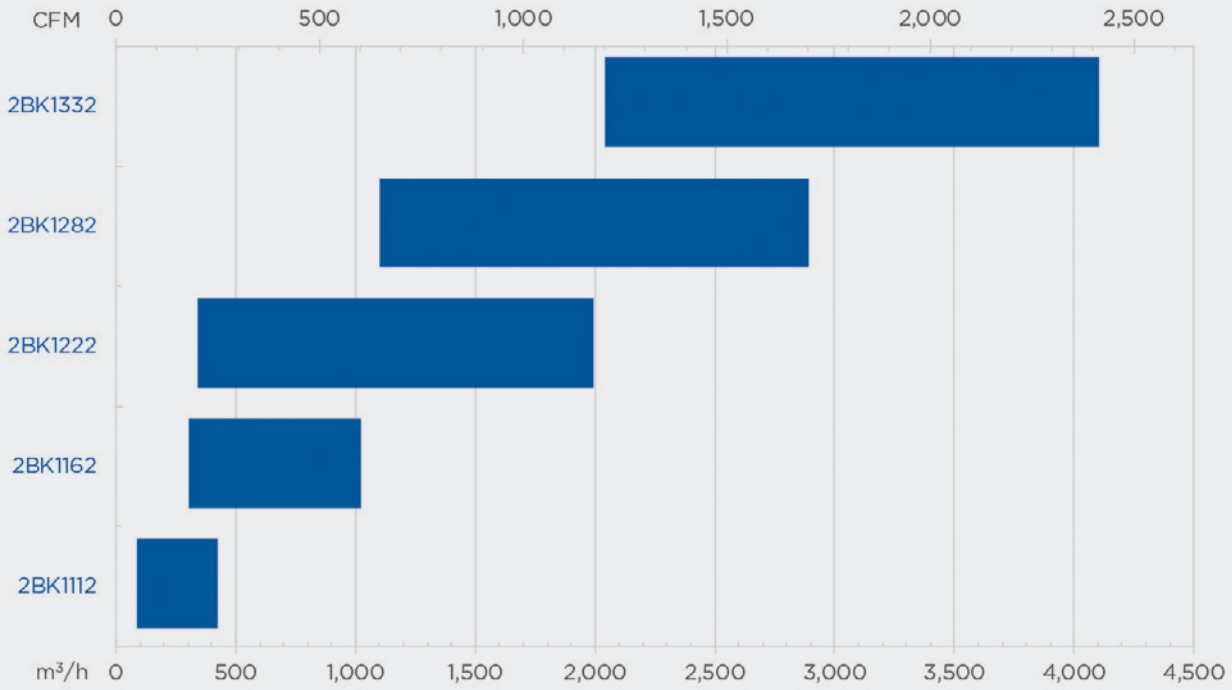
NASH 2BK SERIES

Technical Data NASH 2BK	
Suction Capacity	85 to 4,100 m³/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

Models and Performance Range



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NASH 2BG SERIES

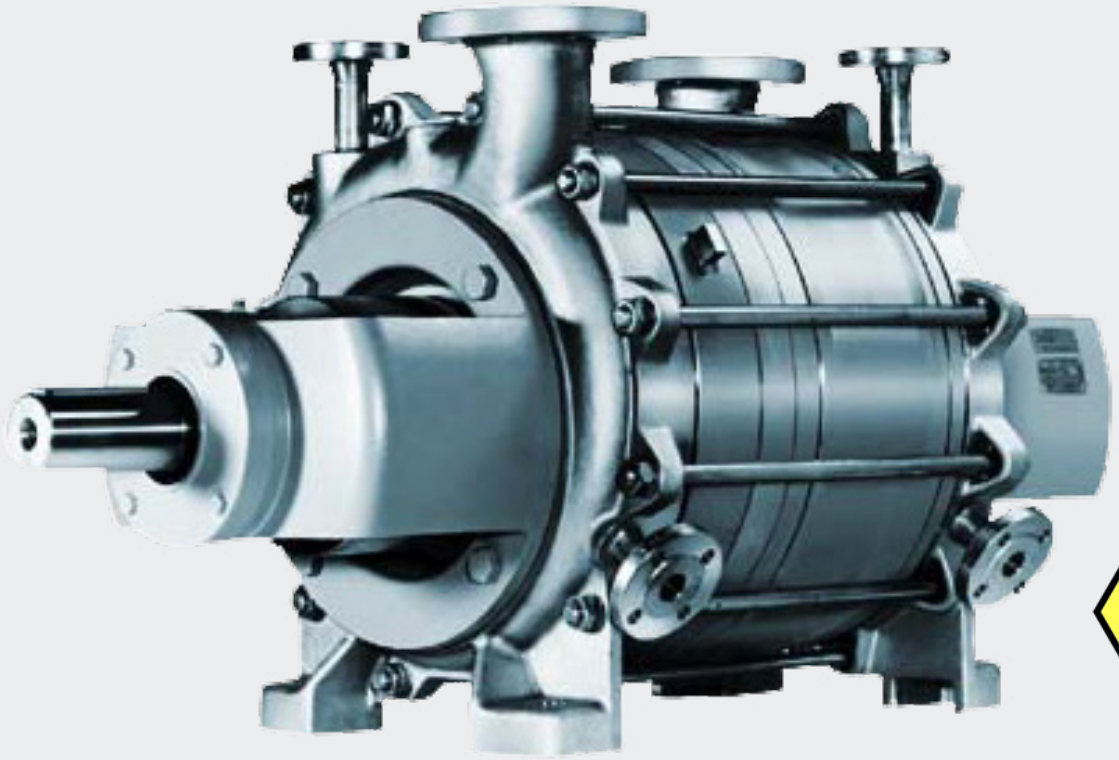
The NASH 2BG two stage liquid ring compressor series delivers reliable, proven performance for batch and continuous process applications. 2BG compressors are ideal for demanding processes including ozone compression, and other chemical and oil & gas applications. With compressor capacity ranging from 20 to 1,700 m^3/h (12 to 1,000 SCFM), the 2BG liquid ring compressor is optimal for demanding chemical, petrochemical and oil & gas applications including ozone compression.

demanding environment

reliable & efficient

low maintenance requirements

withstand the harshest processes



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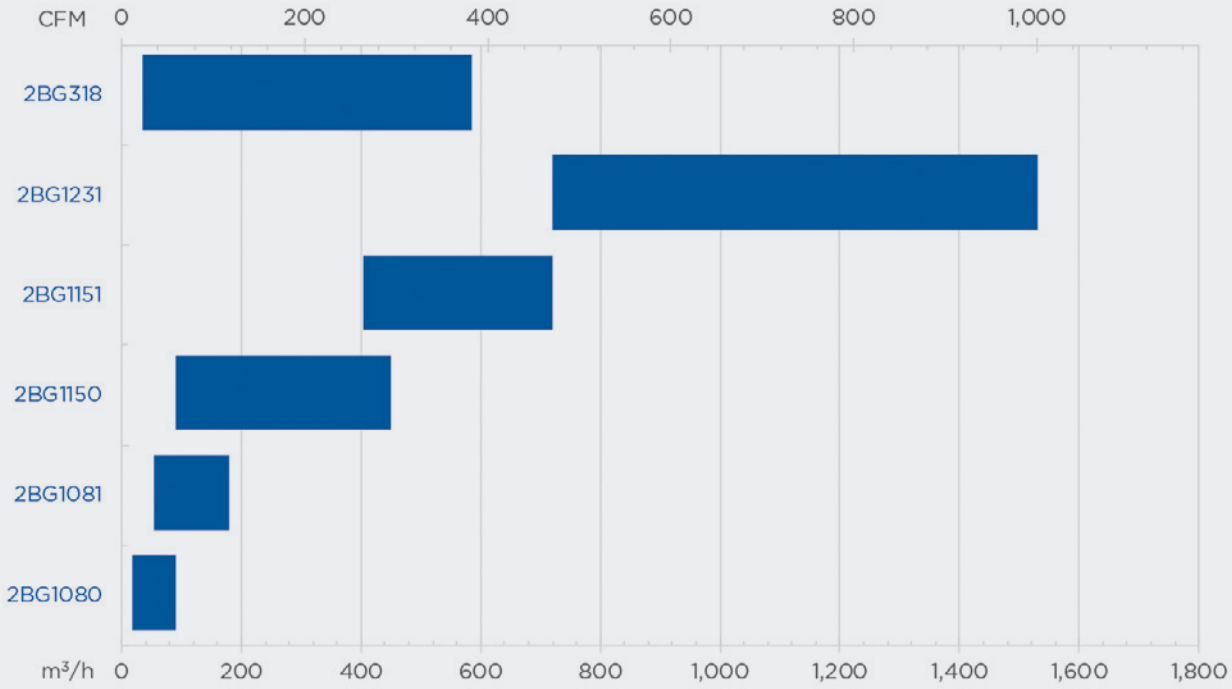
NASH 2BG SERIES

Technical Data NASH 2BG	
Suction Capacity	20 to 1,700 m³/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

Models and Performance Range



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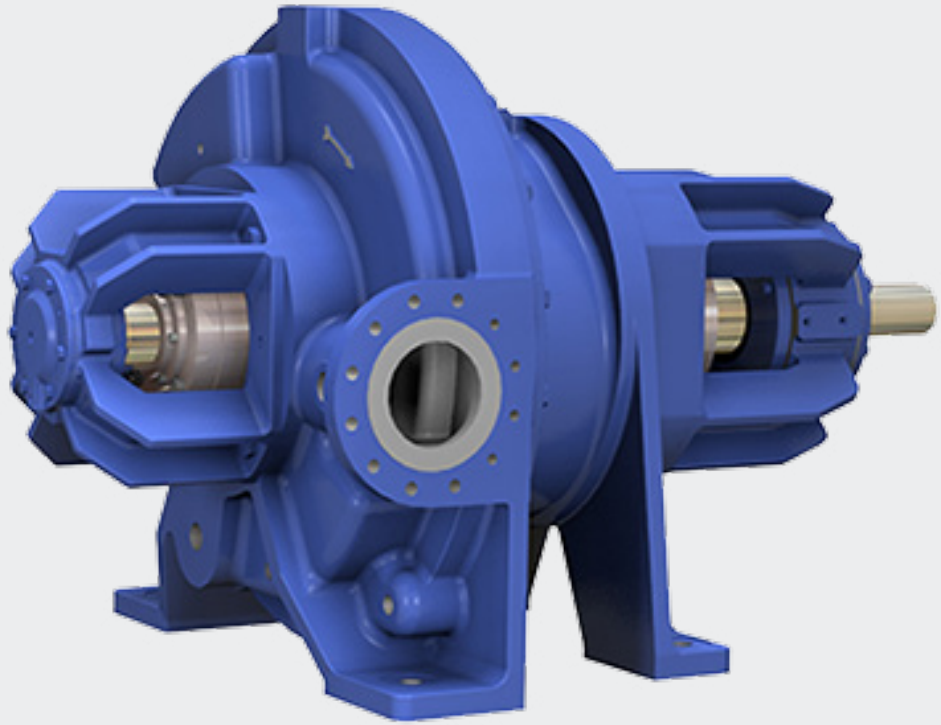
NASH VECTRA XM-150 SERIES

The NASH Vectra XM-150 liquid ring compressor extends the series of popular and reliable Vectra XL compressors to a higher level of performance. Operating at up to 4.7 bar abs. (70 psig), the patent valid Vectra XM compressor is specifically designed for the higher pressures and performance expected in many process applications such as hydrogen compression, corrosive gas handling, and flare gas recovery.

API
API Compliant

Proven Reliability



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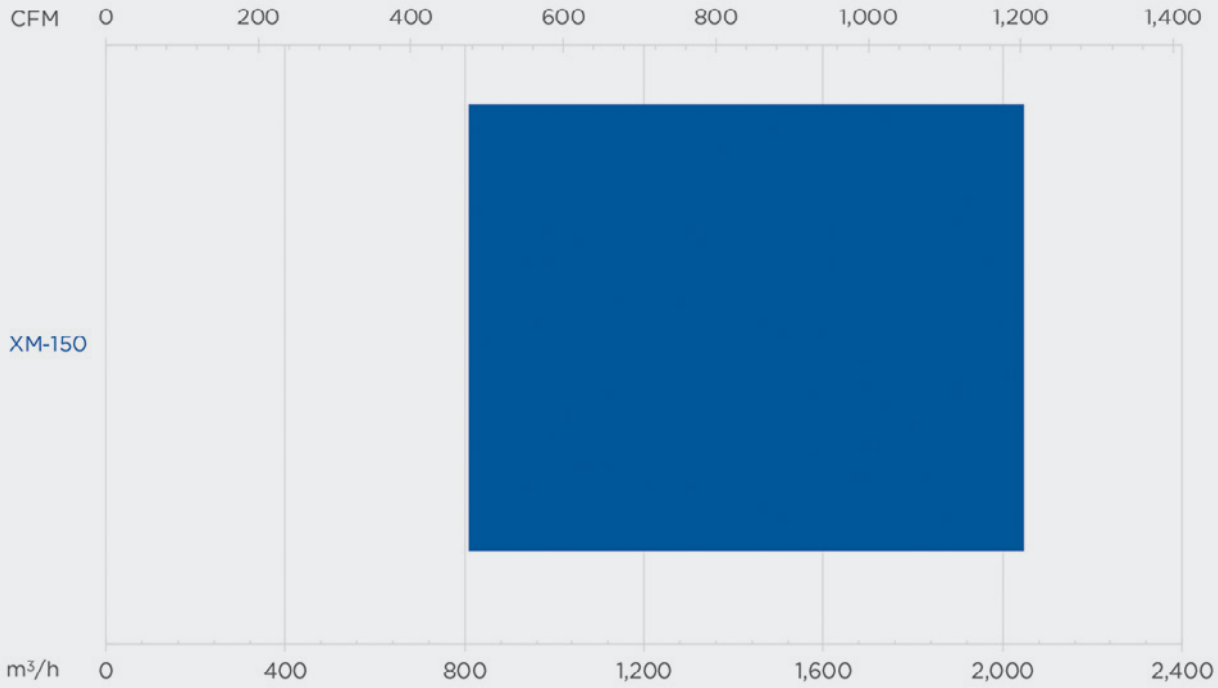
NASH VECTRA XM-150 SERIES

Technical Data NASH VECTRA XM-150	
Suction Capacity	800 to 2,000 m³/h (470 to 1,200 SCFM)
Maximum Discharge Pressure	to 4.7 bar abs. (to 70 psig)
Shaft Sealing	API 682 shaft seal
Materials	316 Stainless Steel

Models and Performance Range



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NASH 2BQ SERIES

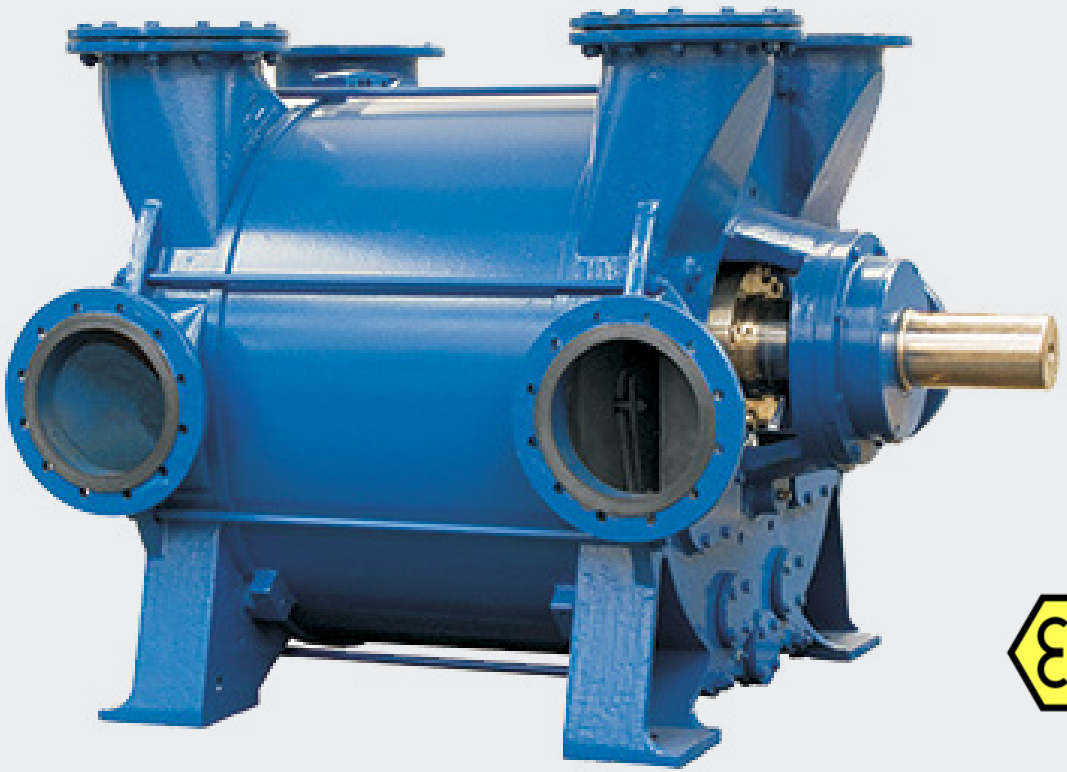
NASH's 2BQ series provides proven performance and reliability in a modular package that can be tailored to a range of applications. Based on the renowned 2BE4, the NASH 2BQ series has an improved compressor configuration, as well as compatibility with a comprehensive range of standard components.

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 application-specific 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.

Robust Construction

Proven Reliability



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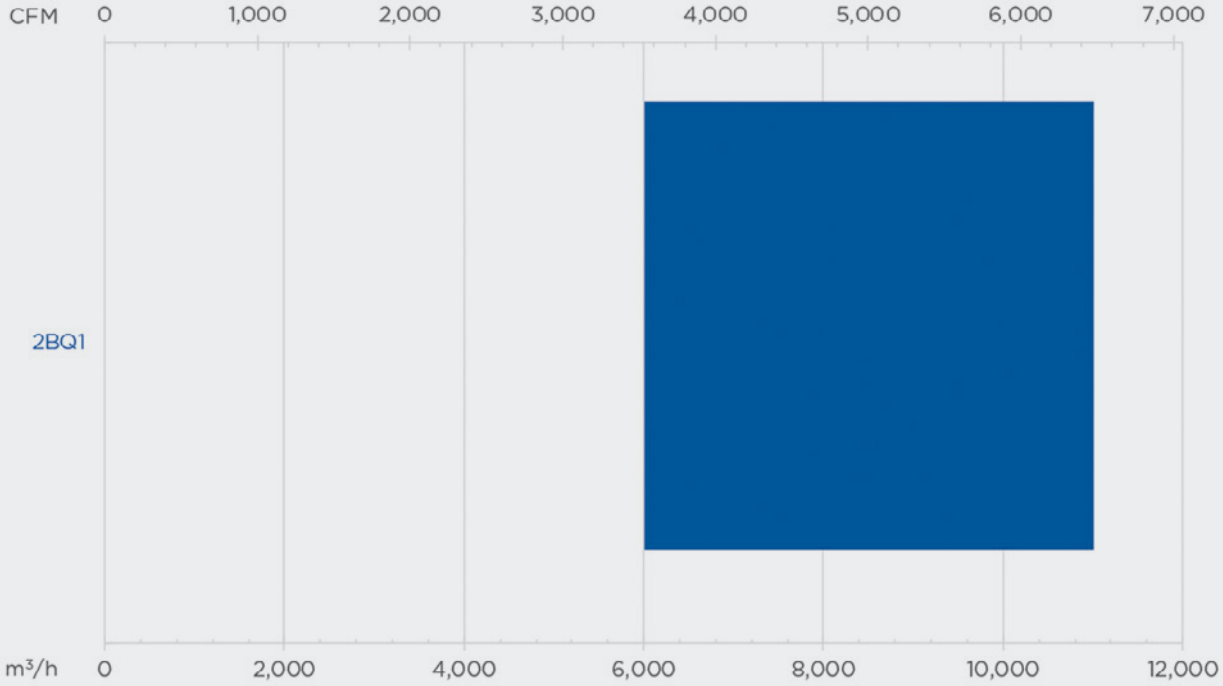
NASH 2BQ SERIES

Technical Data NASH 2BQ	
Suction Capacity	6,000 to 11,000 m³/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

Models and Performance Range



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NASH NAM/NASM SERIES

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 flare-gas, 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^3/hr (20,000 CFM). As a result, NASH offers the widest pressure and capacity ranges of liquid ring.

High-Pressure Compression

NASM

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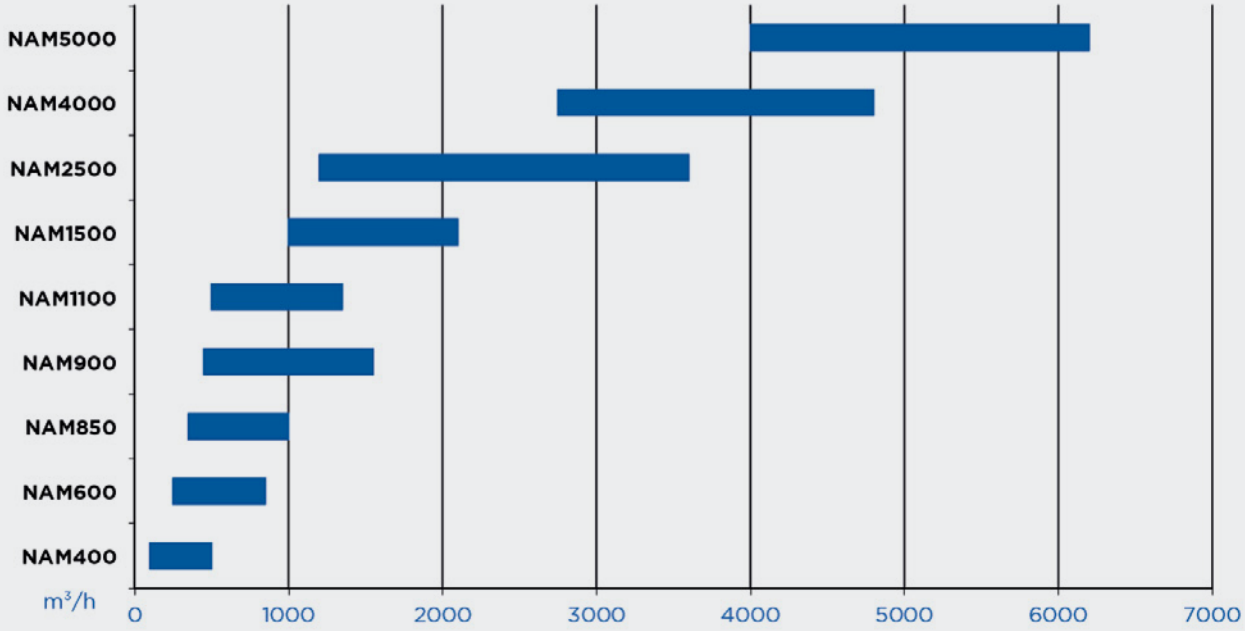
NASH NAM/NASM SERIES

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

Models and Performance Range



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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^3/h with pressures of 14 bar.

withstand the harshest processes

low maintenance requirements

Ex

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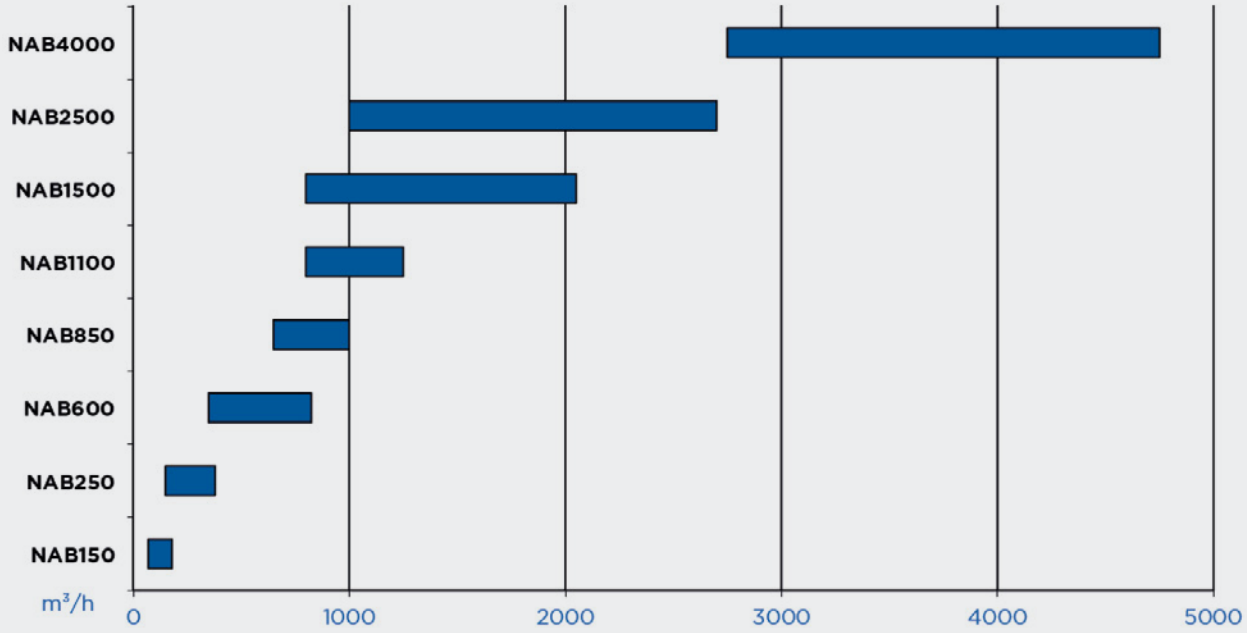
NASH NAB SERIES

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

Models and Performance Range



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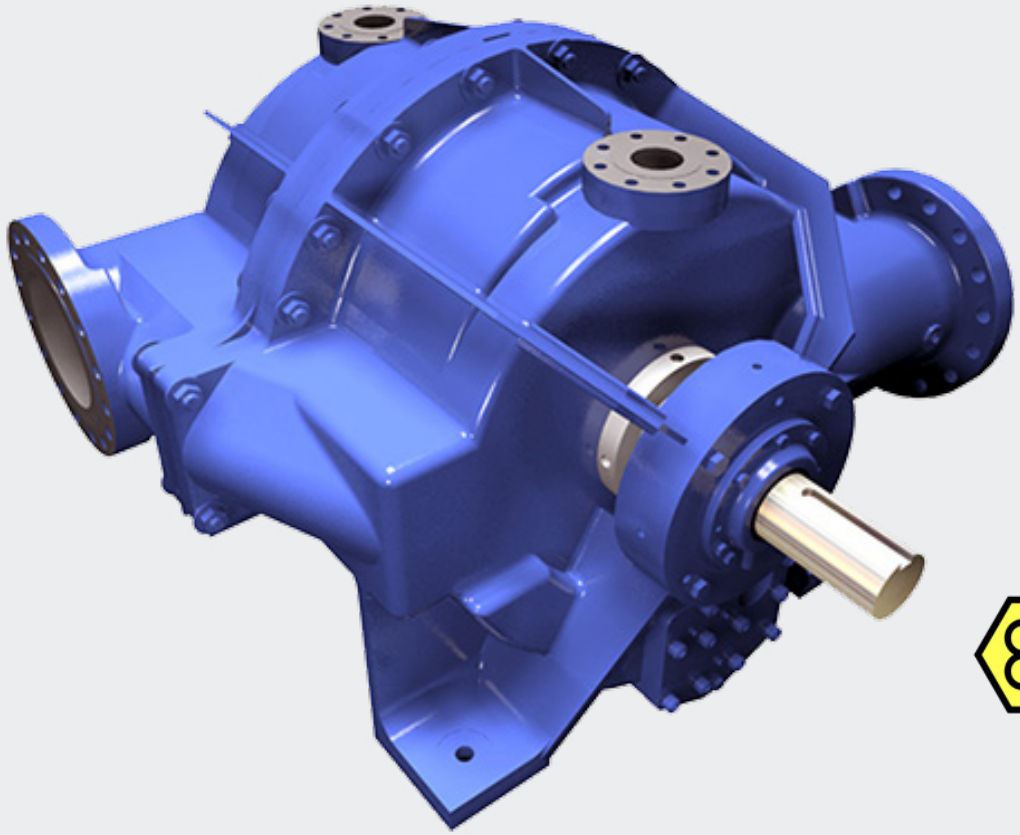
NASH HP4-9 SERIES

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 m^3/h (1,500 to 2,500 SCFM).

High-Pressure Compression



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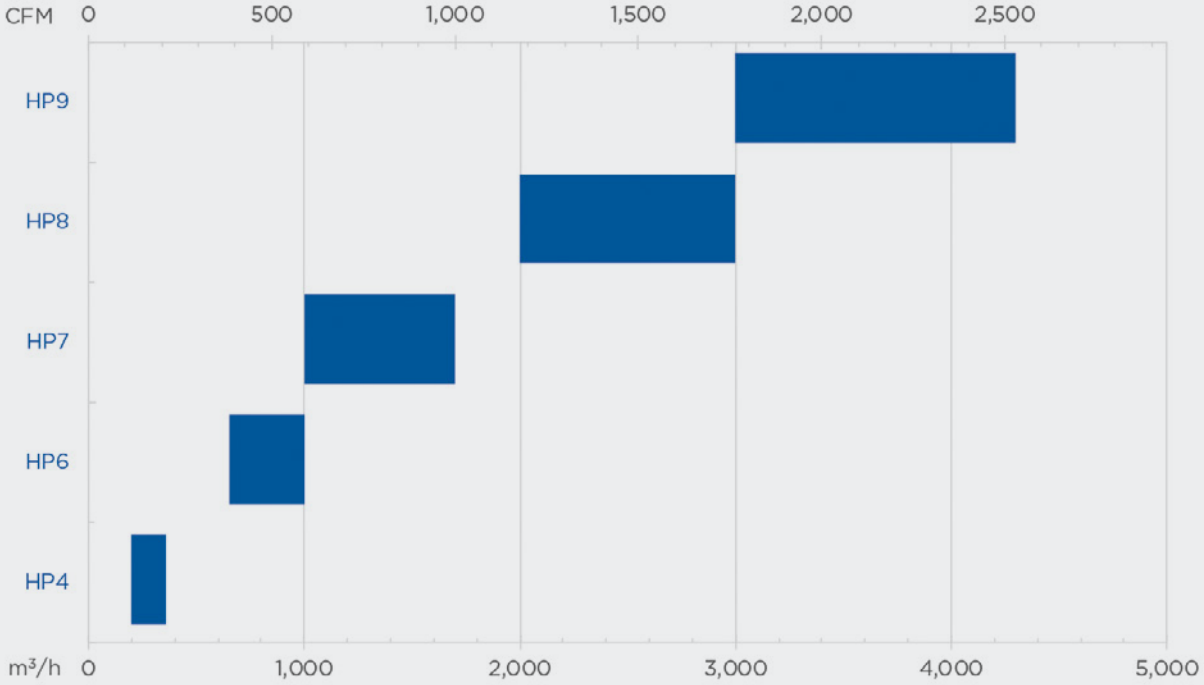
NASH HP4-9 SERIES

Technical Data NASH HP4-9	
Suction Capacity	200 to 4,300 m³/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

Models and Performance Range



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NASH 1250 SERIES

The NASH 1250 range of liquid ring compressor series is a range of compressors for smaller capacities with a medium pressure range up to 8.5 bar abs and a maximum differential pressure of 5 bar and available in a variety of materials. It handles various toxic, explosive, and corrosive gases in oil & gas, petrochemical, chemical and chlorine applications. Together with the NASH/GARO compressor models and our other liquid ring compressors, the 1250 completes our compressor product line by providing capacity ranging from 160-575 m^3/h (95 to 340 SCFM).

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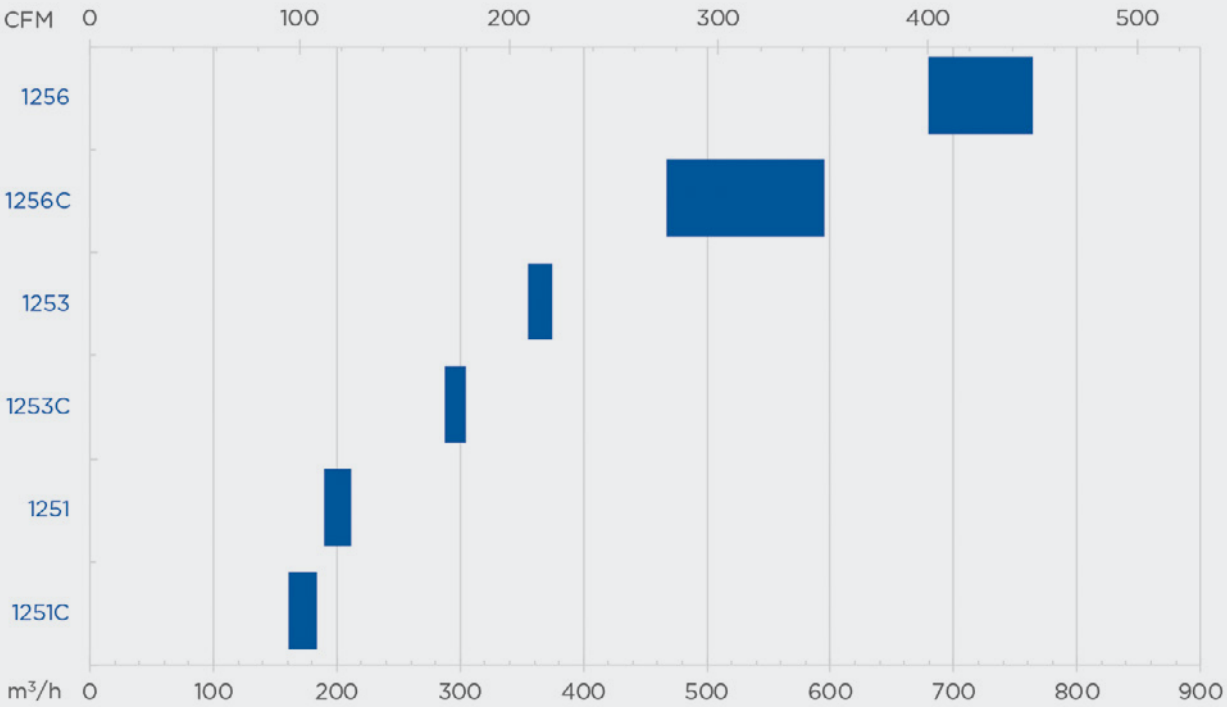
NASH 1250 SERIES

Technical Data NASH 1250 (SINGLE STAGE)	
Suction Capacity	160 to 765 m³/h (95 to 340 SCFM)
Suction Pressure	0.8 to 4 bar abs.
Maximum Discharge Pressure	to 8,5 bar abs.
Differential Pressure	to 5 bar
Shaft Sealing	Stuffing box (standard), Mechanical Seals (single acting/double acting)
Materials	Stainless Steel

Models and Performance Range



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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

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.

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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.

2BG Flare Gas recovery package

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DRY-PRO®
Dry Vacuum Pumps & Systems

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Our dry vacuum pumps & systems deliver dry, clean, flexible, and safe vacuum solutions that are engineered for rigorous, non-stop demands of tough industrial environments; such as pharmaceutical and fine chemicals. Our dry vacuum pumps & systems are one of the most reliable and highly efficient solutions on the market.

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