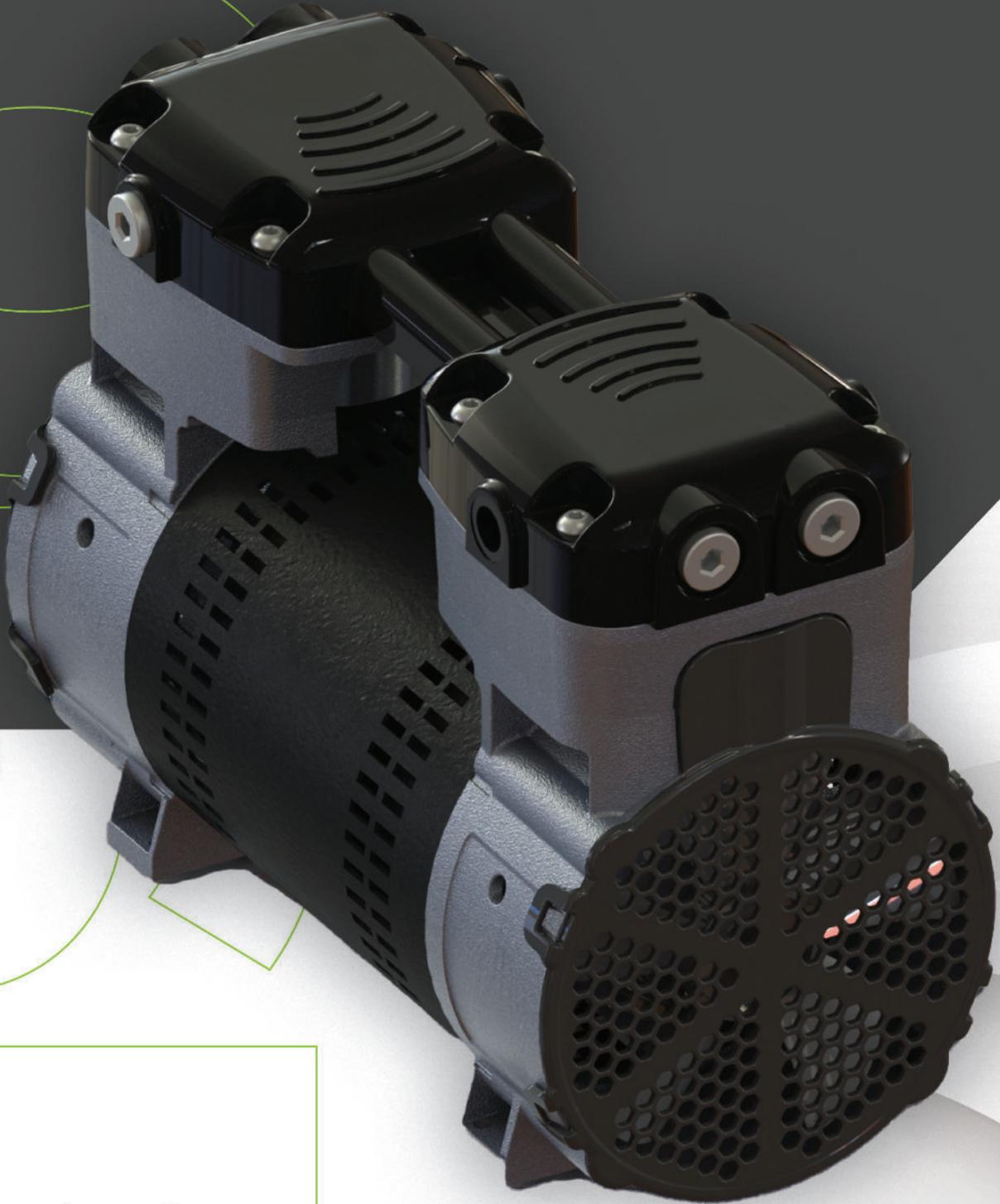


106R

3/4 HP ROCKING PISTON
COMPRESSOR & SYSTEMS



 **gast**
move with purpose



1921
FOUNDING YEAR

140+
APPLICATIONS

40+
MARKETS &
SEGMENTS SERVED

300+
EMPLOYEES
WORLDWIDE

200k
PRODUCTS
SHIPPED IN 2023



Gast has driven industrial progress for over a century, embedding our innovative solutions in systems and equipment vital to everyday life.

From our origins in 1921 in Bridgman, Michigan, as manufacturers of rotary vane technologies used in insecticide sprayers, Gast has grown and evolved through generations of family leadership and pivotal moments.

In 1998, Gast joined IDEX, shifting from a private company to a public one after 77 years.

OUR COMMITMENT

QUALITY

Our products are a testament to advanced performance and durability, earning trust for use in critical applications where dependability is a must. With an easy-to-service design, they virtually eliminate downtime, ensuring continuous operation. Furthermore, the addition of dual-voltage motors not only enhances their versatility but also cements their status as some of the most adaptable offerings within the pneumatic industry.

Since then, we've established ourselves as leaders in pneumatic products such as air motors, vacuum pumps, and compressors, catering to sectors from medical and industrial to transportation and food and beverage.



The acquisition of Jun-Air in 2006 marked another milestone, further enhancing our offerings with pneumatic systems for critical instrument air applications and cementing our role as innovators in the global market.

Today, with robust international operations in Europe and Asia, Gast's impact and opportunities continue to expand. At the heart of our identity lies a commitment to innovation, customer service, and our integrated role in powering the world.

SINGLE-SOURCE PARTNER

We offer a full range of pumps and compressed air systems suitable for a myriad of applications, solidifying our status as a one-stop shop for all your needs. Our fully enclosed cabinet systems stand out with their clean, attractive designs and quieter operation, offering a plug-and-play solution that's ideal for environments where comfort is paramount.

INTEGRATION ASSISTANCE AND CRITICAL CUSTOMER SUPPORT

We provide custom solutions that fit a customer's system and meet their requirements as well as a dedicated technical support team.

LABORATORY AND TESTING PARTNERSHIP

Customers can share drawings or visit our lab, where we help optimize performance, conduct lab tests, or submit data regulatory certification—saving time and labor to make their products more efficient.

106R ROCKING PISTON TECHNOLOGY

ENGINEERED WITH THE USER IN MIND

Designed with the user's needs in mind from the start, the 106R Rocking Piston Pump seamlessly combines top performance, unmatched durability, and superior sound quality into one cohesive package. Its advanced design emphasizes low noise and minimal vibration, alongside a compact size for optimal space efficiency, ensuring a smooth installation process. Each component of the 106R has been expertly crafted and rigorously tested to adhere to the highest standards, offering a dependable and enduring solution across various applications.

GLOBAL FLEXIBILITY

The 106R is equipped with a standard dual-voltage all-world motor, making it suitable for global applications.

QUIETLY SETTING THE STANDARD

Incorporating our whisper-quiet Sound Shield technology, the 106R delivers industry-leading sound levels and quality, setting a new standard for quiet operation.

HIGH PRESSURE DESIGN

The 106R series offers two standard models, including a high-pressure variant rated up to 175 psi.

- New seal blend material
- Over 6,000 hours piston seal life when operating at 145 psi
- Optimized seal to cylinder geometry

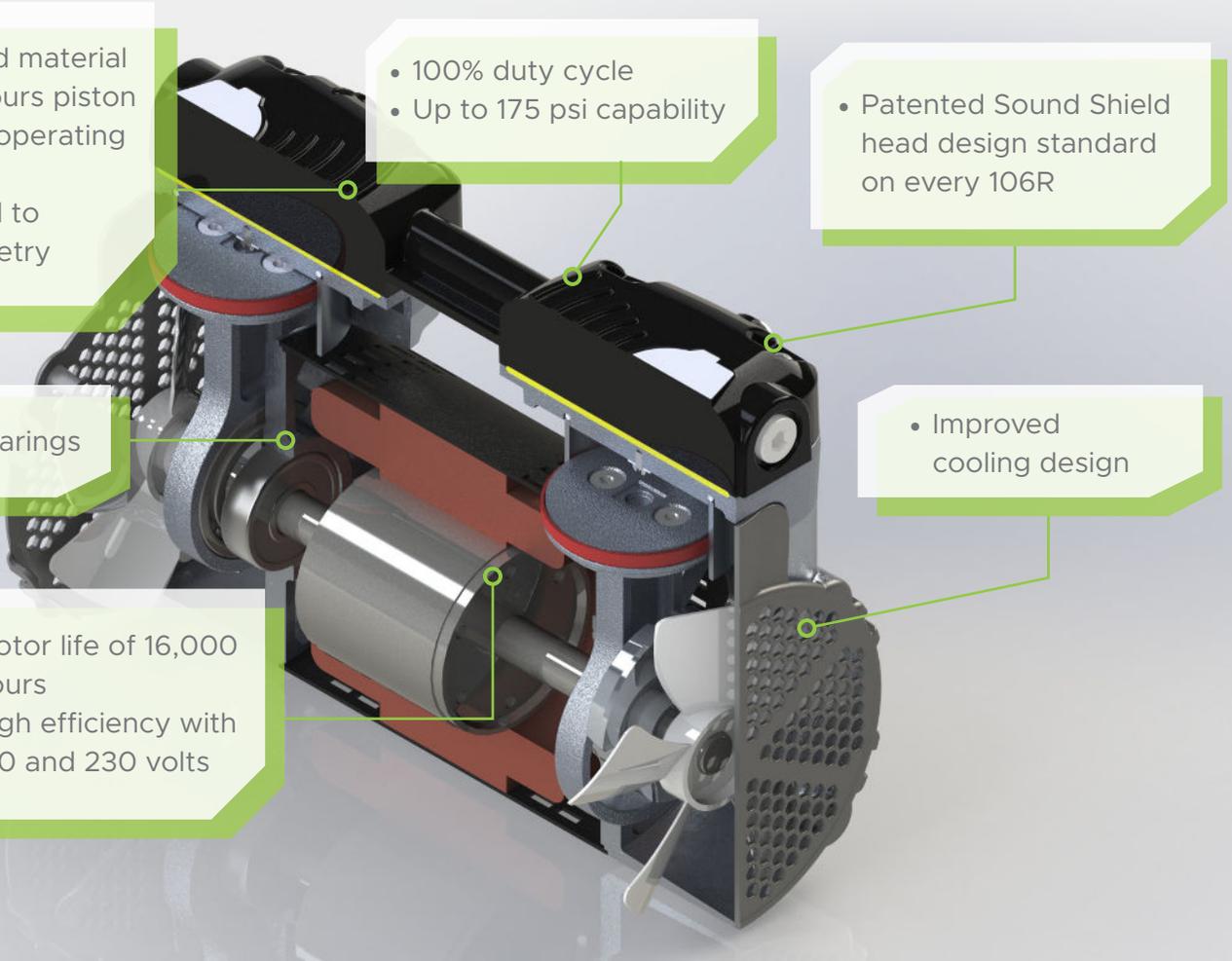
- 100% duty cycle
- Up to 175 psi capability

- Patented Sound Shield head design standard on every 106R

- Advanced bearings

- Improved cooling design

- Motor life of 16,000 hours
- High efficiency with 120 and 230 volts



LAB & REGULATORY

INDUSTRY LEADER IN SOUND & VIBRATION MEASUREMENT

At Gast, we are committed to precision and reliability. We leverage advanced real-time data acquisition equipment to meticulously capture a wide array of parameters within complex compressor systems. From temperature and gas purity to duty cycle, our approach spans controlled lab conditions and on-field customer applications, embodying our commitment to these values.

Our laboratory is not just a place of work but the heart of our industry-leading, customer-focused product development. It ensures our electrically driven pumps set the standard for efficiency, backed by extensive testing in rotational torque and electric motor performance, providing our customers with reliable and efficient products.

Gast's testing lab is pivotal to our operations, offering comprehensive product validation in alignment with international standards such as UL, CSA, cURus, ATEX, CE, and cULus. Expertise in sound measurement down to 40 dB(A), vibration analysis, and power consumption specifics like inrush current, rpm, and temperature demonstrates our meticulous attention to detail.

Our testing capabilities extend to airflow rates up to 1500 cfm, pressure up to 200 psi, and voltage and amp draw up to 480V. Our custom endurance, environmental (ranging from -30°F to 185°F and 0-100% humidity), locked rotor, hydrostatic tests, and torque measurement up to 30 HP ensure the utmost product resilience and reliability.

Through comprehensive testing and thorough analysis, Gast continues to lead with innovative, reliable products designed to excel in performance and efficiency.



ROCKING PISTON TECHNOLOGY

106R 3/4 HP ROCKING PISTON COMPRESSOR & SYSTEMS

The 106R Rocking Piston Pump sets a new benchmark by delivering higher airflow faster and more efficiently than the competition, with significant reductions in energy consumption.

Designed with the end-user in mind, it combines performance, durability, and industry-leading sound quality into a compact, low-noise, and vibration-resistant package that underscores space efficiency and simplifies the installation process. With every component engineered to meet the highest standards, the 106R stands out as a reliable, long-lasting solution.



POWERFUL PNEUMATICS

The Gast 106R remains the most powerful twin cylinder rocking piston compressor on the market. Gast has also optimized connecting rod geometry for up to 3x longer cup life and improved reed valve material and port geometry to reduce valve stress by 18% for longer service life.

FORMED WITH FLEXIBILITY

The 106R is equipped with a standard dual-voltage all-world motor, making it suitable for global applications. This flexibility means you can use a single model anywhere in the world without worrying about compatibility issues. Additionally, it comes with both SAE and Metric mounting threads for enhanced adaptability, ensuring a perfect fit in diverse settings and installations.

QUIETLY SETTING THE STANDARD

Incorporating Sound Shield technology, the 106R sets the standard for quiet operation. This advanced technology minimizes noise and vibration, creating a more pleasant working environment and reducing sound pollution. Sound Shield ensures the pump operates quietly without compromising performance—ideal for noise-sensitive environments.

HIGH-PRESSURE DESIGN

The 106R series offers two standard models, including a high-pressure variant rated up to 175 psi. This model allows you to provide the perfect pump for any application, ensuring quiet and efficient operation under demanding conditions. The robust design and high-pressure capability make the 106R an excellent choice for applications requiring reliable, powerful performance.

EASIER SERVICEABILITY

With fewer moving parts and an easy-to-service seal, the 106R is easy to maintain and service.

MEETS UL 1450 REGULATORY STANDARDS

Inspected and tested to meet the strictest safety requirements for medical equipment.

UL TESTED & APPROVED TO 175 PSI

- Evaluated to UL 1450 “Standard for Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equip.”
- Approved for use to 175 psi (12 bar) pressure

CE APPROVED

- Machinery Directive
- Electromagnetic Compatibility (EMC) Directive
- Restriction of Hazardous Substances (RoHS2) Directive

106R PUMP CONFIGURATIONS

Compressor Family	106R PUMP ONLY			
Configuration	UNITS	106R650-101-N600X	106R550-102-N600X	106R550-103-N600X
Model Feature		Standard Model	High Pressure Staged Head	High Pressure Independent Head
Max Continuous Pressure	PSI	145	175	
	BAR	10	12	
Rated Voltage, 50 Hz	V	220-230		
Rated Voltage, 60 Hz	V	115-120/230-240		
Open Flow, 50 Hz	CFM	4.7	2.3	
	LPM	133	65.1	
Open Flow, 60 Hz	CFM	5.5	2.7	
	LPM	156	76.5	
Sound	dB(A)	57.6	-	
Dimensions (WxHxL)	IN.	5.7 x 8.9 x 11.8		
	CM	14.5 x 22.6 x 30.0		
Weight	LBS.	28	29.1	
	KG.	12.7	13.2	
Operating Temperature	°F	41 to 104		
	°C	5 to 40		
Service Life	HRS	6,000		
Product Life	HRS	16,000		



106R Jun-Air SYSTEMS

powered by 

PORTABLE, ON-DEMAND, CLEAN AIR

Jun-Air clean air systems provide reliable, clean, oil free, and quiet air for dental, laboratory, and medical environments.

PORTABLE & LONG LIFE

Compact, lightweight, and easy to move with casters to be able to fit into any space.

- Long-life, 2-year warranty
- 8,000 hours cup life at 8 bar
- 4,000 hours maintenance interval and 5-year warranty for the dryer

ON-DEMAND

Multiple tanks sizes for compressed air storage based on your requirements.

- 100% duty cycle
- Receiver with internal coating
- Pressure regulator included

CLEAN-AIR

Ensuring optimal air quality, this system boasts multiple standout features.

- 100% oil-free
- Built-in 2-column absorption dryer providing dew points down to -40°C
- $1\ \mu\text{m}$ air filtration (class 2 for dust)



JUN-AIR PLUG AND PLAY SOLUTIONS



106R-25B
Basic System



106R-8B
Basic System



106R-25HBSS
Basic System

Jun-Air

106R PLUG-AND-PLAY SYSTEMS

powered by 

Compressor Family		106R BASIC SYSTEMS							106R CABIN SYSTEMS								
Configuration	UNITS	106R-8B	106R-25HBSS	106R-25B	106R-25BQ2	2x106R-40B		106R-4M	106R-25M	106R-25MQ2	2x106R-40M		2x106R-40MQ2				
Model Feature		High Volt / Stainless Steel Tank		Low Volt	High Volt	High Volt / With Dryer		Low Volt	High Volt	Low Volt	Low Volt	High Volt	Low Volt / With Dryer	High Volt / With Dryer	Low Volt	High Volt	High Volt / With Dryer
Max Continuous Pressure	PSI	87		145					145								
	BAR	6		10					10								
Rated Voltage, 50 Hz	V	230		-	230	230		-	230	220-230							
Rated Voltage, 60 Hz	V	230		120	230	230		120	230	115-120/ 230-240							
Tank Size	GAL	2.1	6.6			10.6		1.1	6.6			10.6					
	L	8	25			40		4	25			40					
Open Flow, 50 Hz	CFM	3.9		-	3.9		-	6.5	-	-	3.6	-	3.6	-	6.3		
	LPM	110		-	110		-	184	-	-	102	-	102	-	178		
Open Flow, 60 Hz	CFM	4.3			7		4.3			6.6		6.9					
	LPM	122			198		122			187		195					
Sound	dB(A)	60	60	60	60	60	69	69	52	50	49	50	50	54	54	54	
Dimensions (Wx-HxD)	IN.	22.9 x 16 x 8.9	22.3 x 23.2 x 10	15.0 x 26.2 x 15.0	15.0 x 26.2 x 15.0	22.3 x 25.2 x 20.5	21.9 x 24.8 x 20.8	21.9 x 24.8 x 20.8	17.3 x 16.6 x 22.4	17.6 x 33.8 x 22.4	17.6 x 33.8 x 22.4	17.6 x 33.8 x 28.2	17.6 x 33.8 x 28.2	25.2 x 33.8 x 26.6	25.2 x 33.8 x 26.6	25.2 x 33.8 x 26.6	
	CM	58.2 x 40.6 x 22.7	56.6 x 59 x 25.4	38 x 66.5 x 38	38 x 66.5 x 38	56.6 x 64 x 52	55.5 x 63.1 x 52.8	55.5 x 63.1 x 52.8	43.9 x 42.2 x 56.9	44.7 x 85.9 x 56.9	44.7 x 85.9 x 56.9	44.7 x 85.9 x 71.7	44.7 x 85.9 x 71.7	64 x 85.9 x 67.6	64 x 85.9 x 67.6	64 x 85.9 x 67.6	
Weight	LBS.	46	52	80	76	106	115	113	102	176	176	186	188	238	234	245	
	KG.	21	24	36	34	48	52	51	46	80	80	84	85	108	106	111	
Operating Temperature	°F	41 to 104							41 to 104								
	°C	5 to 40							5 to 40								
Service Life	HRS	6,000							6,000								
Product Life	HRS	16,000							16,000								



106R-25M
Cabinet System



2X106R-40M
Cabinet System



MEDICAL & DENTAL

Ever mindful of the needs of the patient, Gast offers proven reliable, quiet, high-quality products for the most demanding medical and dental applications. The dependable, lasting, and low-maintenance features make them the natural choice for system integration.

- Autoclaves, sterilizing
- Blood analyzers (AIDS/HIV)
- Chiropractic & physiotherapy tables
- Dentistry, dental labs, veterinary dentistry



LABORATORY

Gast provides consistently reliable, quiet, and superior products designed for the most rigorous laboratory uses. Their durable, low-maintenance characteristics make them the obvious selection for system integration.

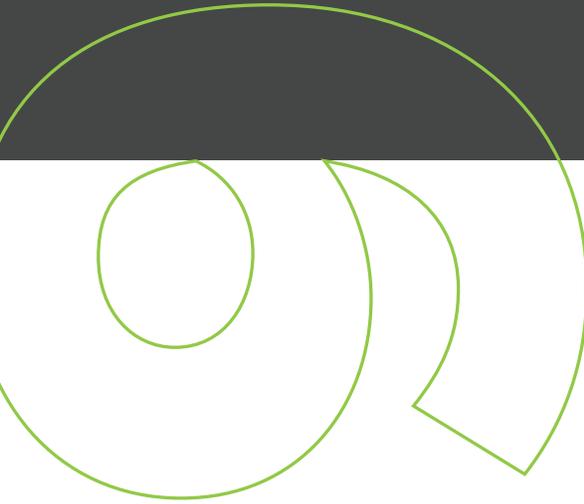
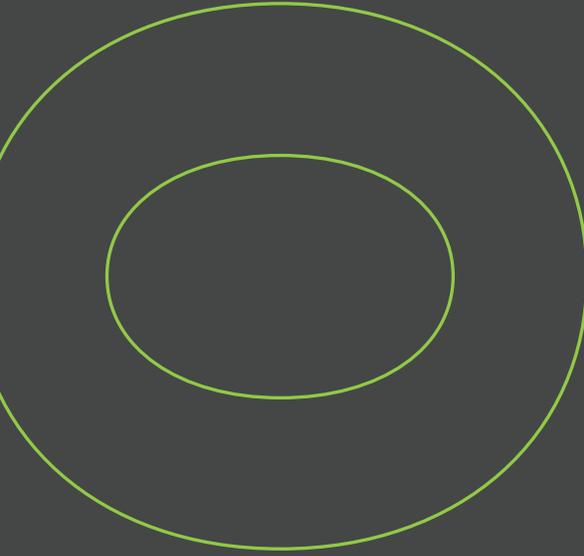
- Gas chromatography
- High performance liquid chromatography
- ION chromatography
- Spectroscopy (X-ray, Infra-red, ultraviolet, AA, mass, NMR)
- Rheometers
- Particle size analyzers
- Optical tables, microscopes
- Lab automation
- Generators for nitrogen, oxygen, CO₂-free purgze air



FOOD & BEVERAGE

Gast products are a cornerstone in the food and beverage industry, celebrated for their high-quality and steadfast reliability in even the most demanding settings.

- Diverse industrial applications, including nitrogen generation, beverage, and food processing
- Adaptable range from packaging and milking equipment to ice cream and yogurt dispensing



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