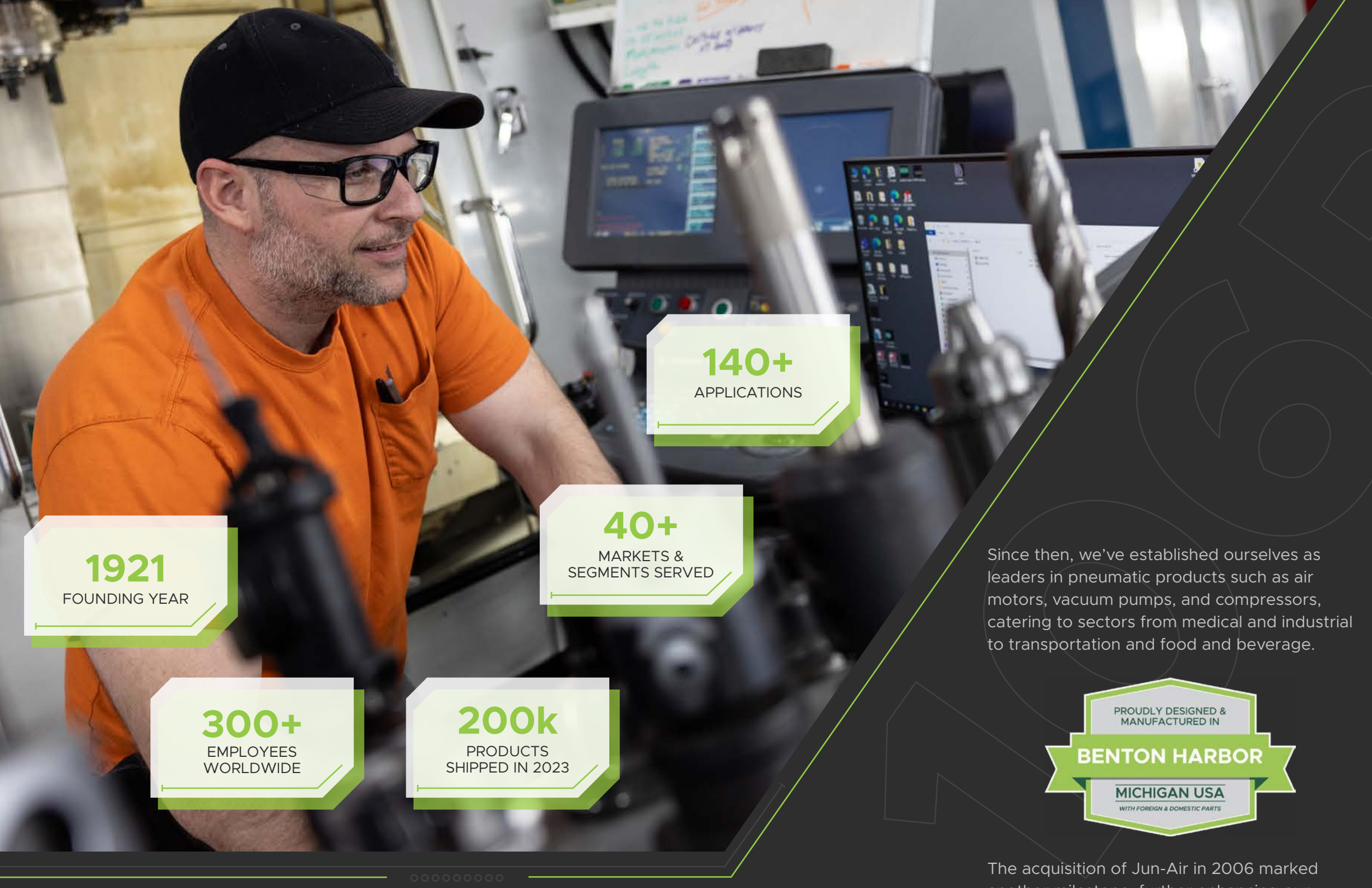


106R

3/4 HP ROCKING PISTON
COMPRESSOR & SYSTEMS



 **gast**
move with purpose



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.

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.

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 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.

140+
APPLICATIONS

40+
MARKETS &
SEGMENTS SERVED

1921
FOUNDING YEAR

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.

106R ROCKING PISTON

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

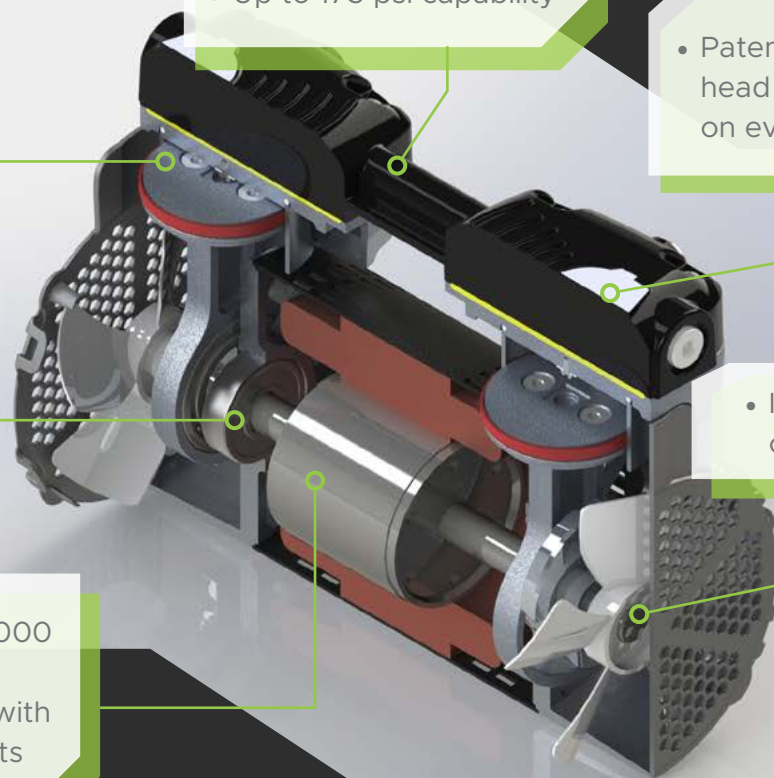
- 100% duty cycle
- Up to 175 psi capability

- 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 (10 bar) pressure

CE APPROVED

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

106R PUMP CONFIGURATIONS

Compressor Family		106R						
Configuration		106R-8B	106R-25HBSS	106R-25B		106R-25BQ2	2x106R-40B	
Model Feature	UNITS	High Volt	Stainless Tank	Low Volt		With Dryer	Low Volt	High Volt
Max Continuous Pressure	PSI	87	87	145	145	145	145	135
	BAR	6	6	10	10	10	10	10
Rated Voltage, 50 Hz	V	220-230						
Rated Voltage, 60 Hz	V	115-120/ 230-240						
Tank Size	GAL	2.1	6.6	6.6	6.6	6.6	10.6	10.6
	L	8	25	25	25	25	40	40
Open Flow, 50 Hz	CFM	1.9	1.9	1.8	1.4	1.5	3.1	2.9
	LPM	53.8	53.8	51	39.6	42.5	86.4	92.1
Open Flow, 60 Hz	CFM	2.3	2.2	1.8	1.7	1.8	3.1	3.5
	LPM	65.1	61.7	51	47.3	51	86.4	99.1
Sound	dB(A)	60	60	60	60	60	60	69
Dimensions (WxHxD)	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
	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
Weight	LBS.	46	52	80	76	106	115	113
	KG.	21	24	36	34	48	52	51
Operating Temperature	°F	41 to 104						
	°C	5 to 40						
Service Life	HRS	6,000						
Product Life	HRS	16,000						

JUN-AIR
A BRAND OF **GAST**

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

- Multiple tankzzzz sizes for compressed air storage based on your requirements.

- 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
- $1\text{ }\mu\text{m}$ air filtration (class 2 for dust)

106R-25B
Basic System



106R-8B
Basic System



106R-25HBSS

Basic System



106R-25M

Cabinet System



2X106R-40M

Cabinet System

106R JUN-AIR PLUG-AND-PLAY SYSTEMS

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	High Volt / Stainless Tank	Low Volt	High Volt	With Dryer		Low Volt	High Volt	Low Volt	Low Volt	High Volt	Low Volt	High Volt	Low Volt	High Volt	
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	6.6	6.6	6.6		10.6	10.6	1.1	6.6	6.6	6.6	6.6	6.6	10.6	
	L	8	25	25	25	25		40	40	4	25	25	25	25	40	40	
Open Flow, 50 Hz	CFM	4.8							-	-	4.8	-	4.8	-	4.8	4.8	
	LPM	136							-	-	136	-	136	-	136	136	
Open Flow, 60 Hz	CFM	5.5							5.5								
	LPM	155.7							155.7								
Sound	dB(A)	60	60	60	60	60		69	69	52	50	49	50	50	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	
	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	
Weight	LBS.	46	52	80	76	106		115	113	102	176	176	186	188	238	234	
	KG.	21	24	36	34	48		52	51	46	80	80	84	85	108	106	
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								



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

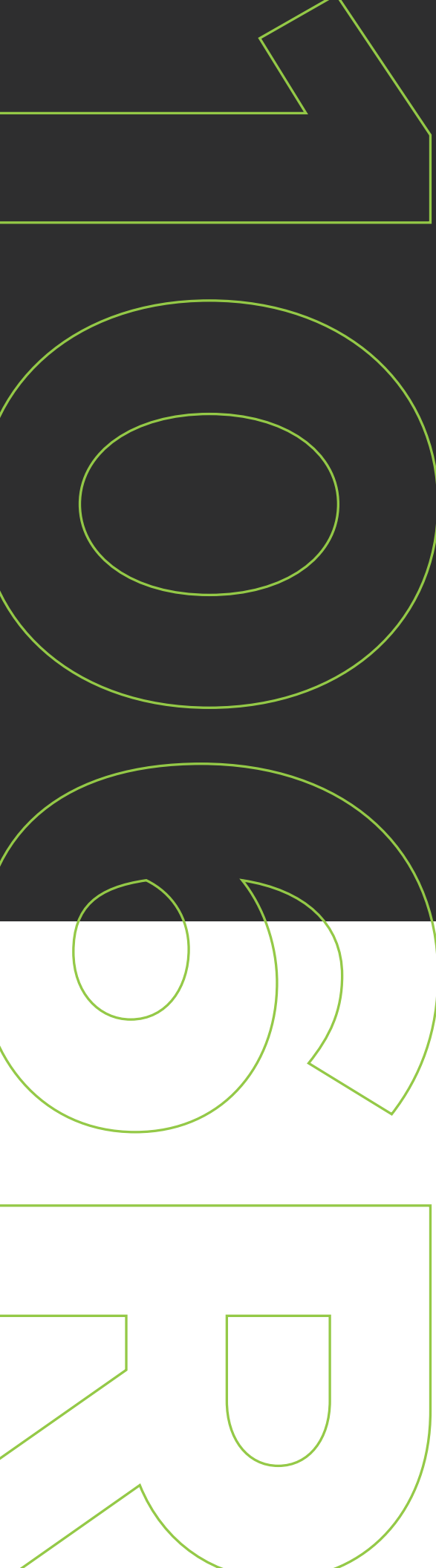


FOOD & BEVERAGE

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





GAST MANUFACTURING, INC.
A UNIT OF IDEX CORPORATION
2300 M-139 HIGHWAY, BENTON HARBOR, MI 49022
OFFICE: 269-926-6171 | TECH: 269-934-1130

COPYRIGHT © IDEX CORPORATION 2024.
GAST IS A UNIT OF IDEX CORPORATION.
2024 GAST106R FAMILY CATALOG V1_4.24