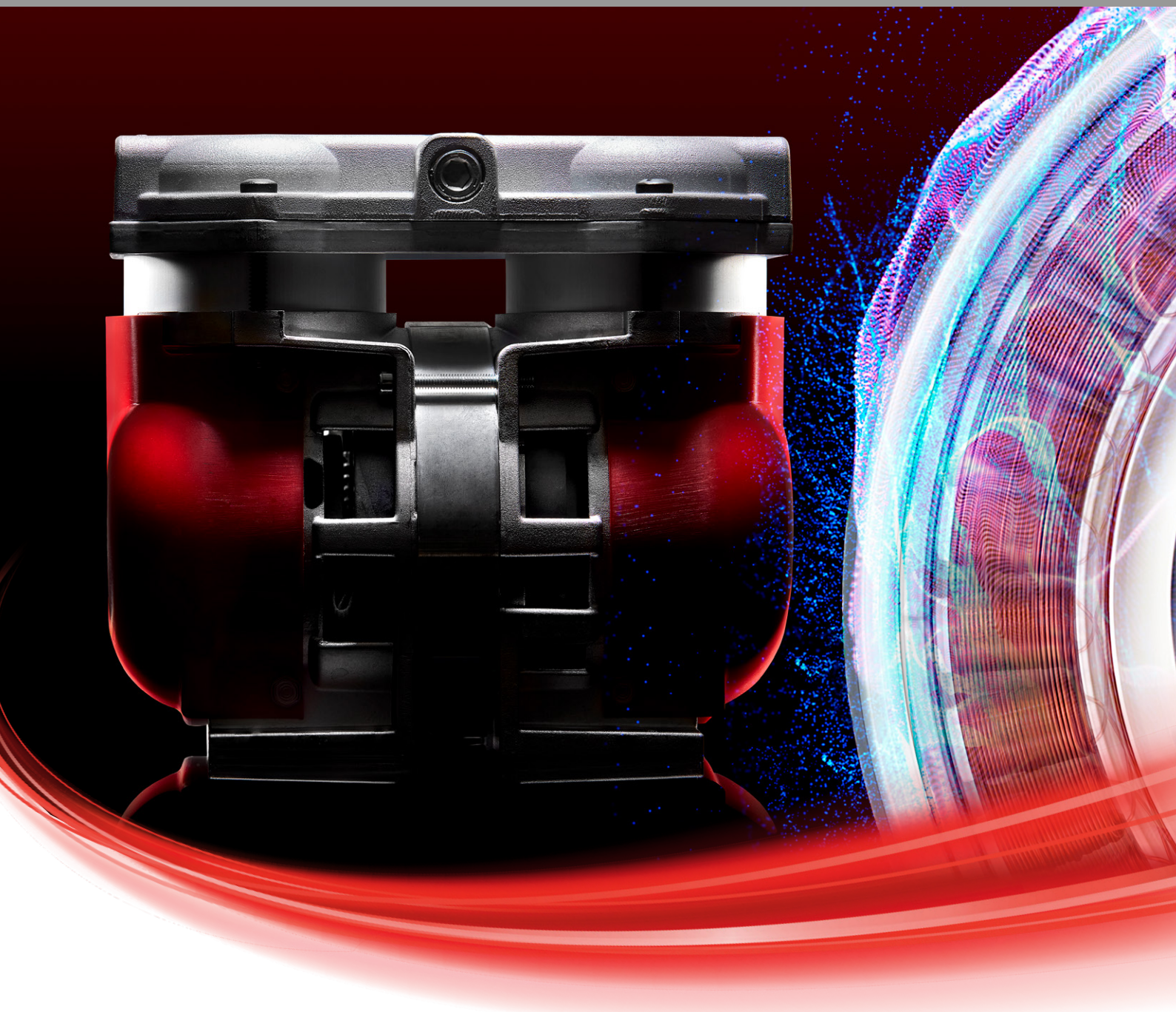


2320Z1

BLDC Pumps and Compressors

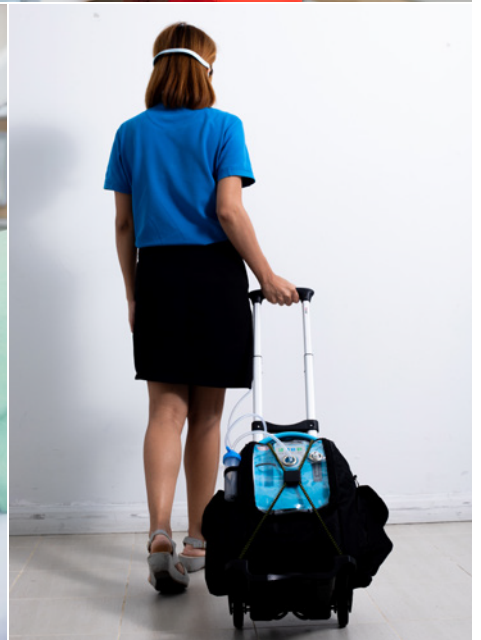
BRUSHLESS TECHNOLOGY AT WORK
YOU ARE IN CONTROL



2320Z1 BLDC PUMPS AND COMPRESSORS

Brushless Technology at Work

Meet the **2320Z1 BLDC Pumps and Compressors** – lighter, more compact, now with plug-and-play BLDC technology. With greater efficiency and flexibility guaranteed by a brushless motor, coupled with an innovative speed control system and the time-tested WOB-L® piston technology to meet your exact pump requirements.





BLDC MOTOR ADVANTAGES

The application of the BLDC Thomas Power drive system means an increased motor power to weight ratio and lower power consumption

HIGHER EFFICIENCY

INTEGRATED CONTROLLER SYSTEM

The new models come with a selectable fixed speed switch and a variable speed control input port, an industry leading technology for BLDC compressors and vacuum pumps

MOTOR SPEED FLEXIBILITY

WOB-L® PISTON RELIABILITY


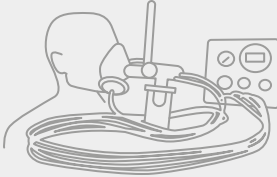
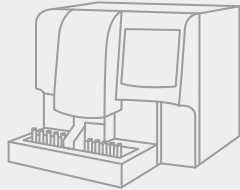


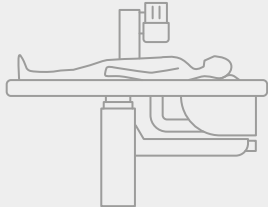
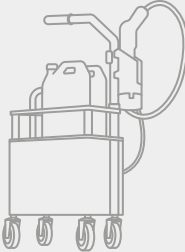
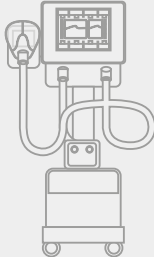

The use of patented WOB-L® piston technology in 2320Z1 BLDC pumps and compressors ensures longer worry-free operation

MINIMAL MAINTENANCE



Off the shelf adjustability to fine-tune the performance of your pump to address your unique application needs

Typical applications

<p>Transportable O2 concentrator</p> 	<p>IPV therapy</p> 	<p>In-vitro diagnostics</p> 
<p>Exoskeleton</p> 	<p>Surgical eye care device</p> 	<p>Lithotripsy device</p> 
<p>Spray Atomization</p> 	<p>Ventilator</p> 	<p>Radon abatement (water well drilling)</p> 

YOUR BENEFITS

User-friendly, plug-and-play pumps and compressors benefiting from Thomas' BLDC drive system and integrated motor controller technologies.



- ✓ Brushless motor allowing for variable output, as well as longer and more efficient operation with no service requirements compared to standard brushed DC motors.
- ✓ The integrated controller enables both variable flow and constant flow demand applications with a turn of a switch.
- ✓ Fit for use in a large number of industries, including medical, environmental, laboratory and food & beverage.
- ✓ Perfect for any portable application where a battery pack or cordless operation is required. Low power consumption allows for long battery life.
- ✓ A well-known and trusted brand.
- ✓ A reliable partner with global offices and production facilities offering full after-sale support.

- 1 ADJUSTABLE, CONSISTENT PERFORMANCE** The on-board BLDC controller maintains a constant speed even as the pressure load changes for a steady flow rate and sound
- 2 ENERGY SAVINGS** BLDC motor technology reduces energy losses with savings of about 15-20% over AC motors. The 48V version consumes the least power, an advantage for battery or solar operated systems.
- 3 UNIQUE SPEED SELECTOR** Using the integrated selector switch, easily choose from 7 fixed operation speeds to set flow rates.
- 4 SMALL COMPACT LIGHTWEIGHT** Lightweight compact design makes the 2320Z1 BLDC models easy to operate and suitable for both tank mounted, stationary, and portable applications.
- 5 PLUG-AND-PLAY** The 2320Z1 BLDC models only require a standard 24V or 48V DC voltage supply to operate thanks to the built-in controller.
- 6 QUIET WORK** The possibility to adjust the noise emission through speed control makes this series of pumps and compressors perfect for sound-sensitive applications.
- 7 CONFIGURATION OPTIONS** Customers can choose pressure or vacuum configurations, and can change pneumatic port locations. For more configurations to meet your needs, contact our Applications Engineering team.
- 8 COST-EFFECTIVE OWNERSHIP** The unmatched level of quality, performance and reliability provided by Thomas' proven operating technologies result in a lower total cost of ownership.

2320Z1 BLDC PUMPS AND COMPRESSORS

Technical Data, Representative of Series Capabilities



2320Z1 SERIES

SPECIFICATION

FLOW RATE

From 1.83 cfm to 3.38 cfm (51.7 to 95.8 l/min) at open flow

From 0.99 cfm to 1.80 cfm (28.0 to 50.9 l/min) at 60 psi (4.2 bar)

MAX. PRESSURE/VACUUM

Up to 60 psi (4.2 bar) or 90% local barometer

STROKE

0.36 inches (8.1 mm)

INPUT VOLTAGE

24V or 48V BLDC

SIZE

6.84" x 5.29" x 6.03" (173.7mm x 134.4mm x 153.2mm)

WEIGHT

7.83 lbs (3.55 kg)

For more information on our range of BLDC pumps and compressors, please visit us at www.thomaspumps.com, or [contact us](#)

GENERAL CONTACT

EMEA

Gardner Denver Thomas GmbH

Livry-Gargan-Str. 10
82256 Fuerstenfeldbruck
Germany

Tel: +49 8141 2280 0
Fax: +49 8141 8892136
Thomas.de@irco.com

AMERICAS

Gardner Denver Thomas, Inc.

1419 Illinois Avenue
Sheboygan, WI 53081
USA

Tel: +1 920 457 4891
Fax: +1 920 451 4276
td.usa@irco.com

ASIA PACIFIC

**Gardner Denver Thomas
Pneumatic Systems (Wuxi) Co., Ltd.**

No. 1 New Dong An Road
Shuofang Town
Wuxi, Xinwu District
Jiangsu 214142
China

Tel: 400-012-1268
Fax: +86 510 6878 2200
QQ: 800 018 724
Thomas.cn@irco.com

INDIA

Gardner Denver Engineered Products India Private Limited

Block No. 878, Opposite: Gallops Industrial Park
Sarkhej-Bavla Road, Rajoda-Bavla
Ahmedabad. Gujarat. 382220
India

Tel: +91-2714-619300
welch.in@gardnerdenver.com

THOMAS is a leading manufacturer of systems, compressors, vacuum, and liquid pumps for Original Equipment Manufacturers (OEMs) in the medical, laboratory, environmental and industrial sector.

With its experienced Engineering, Technical, and Operations staff and capabilities, Thomas designs and manufactures customized pressure and vacuum solutions that meet the precise needs of its customers. Backed by over 60 years of engineering excellence and innovation, and a global manufacturing network, Thomas stands out as the reliable choice for OEMs worldwide.

For more information, visit www.thomaspumps.com

Please check out all our brands for your mission-critical flow control technologies:



OEM Pumps
gd-thomas.com



Vacuum Pumps & Systems
welchvacuum.com



Syringe Pumps
tricontinent.com



Lab Automation
zinsser-analytic.com



Syringes
microsyringes.com



Gas Sampling Pumps
airdimensions.com