

# **BLG40 - 200**

## **Lubricated Screw Compressors**



**GD**  
**GARDNER DENVER**

*Experience Proven Results*

# BLG Series Lubricated Screw Compressors

## Smarter thinking Delivers Innovation

Since 1859, Gardner Denver has designed and built the industry's highest quality products. We have continually been a leader in developing advanced technology that meets our customers' needs.

Advanced technology, careful engineering, micro-precision manufacturing, total quality management, and unmatched aftermarket service and spare parts have made Gardner Denver a name that stands for reliability and value.

The BLG series lubricated screw compressor range continues this tradition. The result of thousands of man hours of design and development. The BLG series takes the best features of our global screw compressor range and delivers a completely new package. Using smart design to provide enhanced durability, reduced operating and maintenance costs, with the quality and performance you've come to expect from a Gardner Denver product.

### EndurAir™ Air End

- Proven performance tens of thousands installed globally.
- High efficiency design for maximum efficiency.
- High quality Gardner Denver manufactured air end.

### Eliminator II Separator

- TWICE the surface area of conventional separators offering superior separation performance and longer service life.
- Low oil carry-over. Less than two parts per million.
- Lower pressure loss than competitive separation designs.
- Improved design provides easier maintenance access.

### Heavy Duty Inlet Air Filter

- Standard canister-type filter, an optional extra with other manufacturers.
- Removes 99.9% of airborne particles five microns and larger. Extending lubricant life.

### Efficient Power Delivery

- Beltless drive reduces transmission losses improving efficiency.
- Reduced maintenance costs & greater reliability.
- Lower noise levels.

### The Optimal Package

- TEFC IE2 High efficiency electric motor.
- Acoustically treated steel enclosure with attenuation plenum for quiet operation.
- Unrestricted access to all primary service points for easy maintenance.
- Compact high performance cooling system, side air inlet, top outlet configuration.
- Rigid metallic pressure piping for maximum durability.



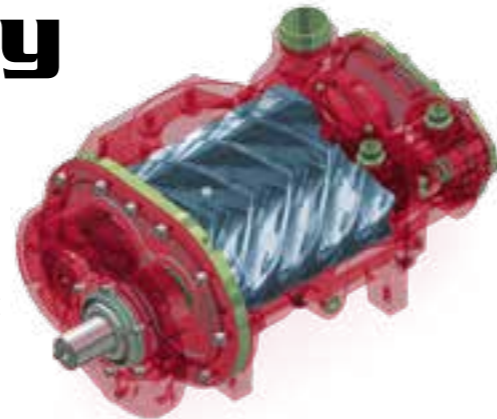
*BLG75 Air Cooled Compressor*

## EndurAir™ Quality

Our advanced screw compression elements are designed, developed and then manufactured in our advanced manufacturing facilities in Germany and Finland, using the latest CNC rotor grinding technology, coupled with on-line laser measurement, in order to maintain precise manufacturing tolerances. The resulting reliability and performance ensure that operating costs will remain low throughout the compressor's life.

The new design of the high efficiency airend operates at low rotational speeds, reducing energy consumption, wear and tear, increases reliability, improves service life and most importantly reduces your operating costs.

- EndurAir™ Housing. Fewer parts results in less opportunity for leaks to develop
- Advanced Rotor Profile. Shortened sealing line and minimal air "slippage" means lower running costs
- O-Ring Seal. Highest quality positive sealing for years of trouble-free operation
- Dedicated Thrust bearings. Provides total support for both vertical and horizontal forces placed on each rotor
- Multi-Lip Shaft Seal. Keeps the lubricant in and the dirt out for maximum seal performance and life



BLG40 Air Cooled Compressor

3 - BLG Series Lubricated Screw Compressors

## AIRSMART®

You don't need to be an expert to operate a Gardner Denver BLG series compressor. The AirSmart controller takes care of the details. Automatically adjusting compressor performance to meet your changing system demands.

- Clear text indicator display
- Multiple languages
- Microprocessor Controller
- Pressure, Temperature, Runtime display
- High temperature, High pressure, Reverse-phase protection function
- 3 filter and oil change reminder
- Low control voltage 24 VDC
- Safe operation protection
- Up to 5 pressure/temperature input points
- Optional RS-232 series communications for local monitoring
- Optional RS-485 / Ethernet communications for remote monitoring



## Optional Integrated sequence control

The Air Smart Controller can be optionally configured to sequence up to 8 packages together and operate as a single unit for precise air delivery. Sequenced units will only turn on/off as plant demand requires them.

Fixed and variable speed machines can be combined to provide precisely the amount of air required and save costs.

Rather than one oversized compressor running constantly, two smaller units could be applied: one fixed speed unit for continuous use and one small variable speed unit sequenced to provide air at only peak demand times.



BLG Series Lubricated Screw Compressors - 4



BLG200 Air Cooled Compressor

## Simplified Maintenance

Servicing costs and downtime minimised with:

- 6 large removable doors provide easy access to all service points.
- Improved reliability with all metal tubing.
- Less service points, less service parts, lower service costs.
- Lowest possible running temperature, longer lifetime for seals and oil.
- Easy access to air filter mounted directly to the inlet valve.
- Spin-On full flow oil filters ensure longer lubricant life and protection for all working parts
- New Eliminator II separator design with simplified access.

## Low noise

Low noise levels allow installation adjacent to the production environment with no impact on nearby personnel, resulting in reduced installation costs.

## Air or Water Cooled

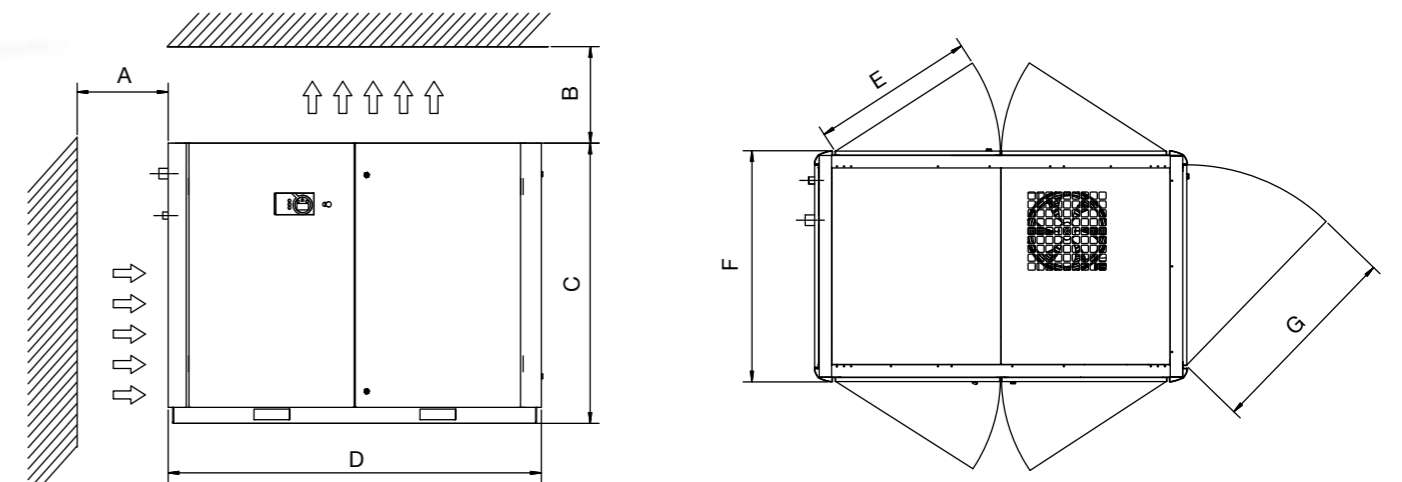
Air cooled as standard and available with optional water cooling. The BLG series cooling system has been designed for optimal performance, easy cleaning and maintenance. Water cooling also provides the additional option of our integrated heat recovery system. Allowing you to use waste heat from your compressor in other processes.

## Performance

Model	Motor Rating		FAD m <sup>3</sup> /min*			Noise Level dB(A)**
	(kW)	(hp)	7 bar g	8 bar g	10 bar g	
BLG40	30	40	5.8	5.7	5.3	67
BLG50	37	50	6.5	6.4	5.7	68
BLG60	45	60	7.9	7.0	7.0	69
BLG75	55	75	10.7	10.5	9.5	72
BLG100	75	100	13.8	12.5	10.6	74
BLG125	90	125	15.3	14.9	13.8	75
BLG150	110	150	20.0	19.8	17.1	75
BLG175	132	175	22.9	22.8	21.3	76
BLG200	150	200	26.5	25.5	23.0	78

\*Measured and stated in accordance with ISO 1217 Annex C at the following conditions: Air Intake Pressure - 1 bar a (14.5 psi.a), Air Intake Temperature - 20°C (68°F), Humidity - 0% (dry), Cooling Water Inlet Temperature - 20°C (68°F), \*\*+\_3 dB(A).

## Dimensions



Type	A	B	C	D	E	F	G	Weight (kg)
BLG40	1500	1000	1505	1654	900	946	720	900
BLG50	1500	1000	1505	1654	900	946	720	946
BLG60	1500	1000	1505	1654	900	946	720	1020
BLG75	1500	1000	1580	2104	960	1300	1170	1400
BLG100	1500	1000	1580	2104	960	1300	1170	1450
BLG125	1500	1000	1580	2104	960	1300	1170	1500
BLG150	1500	1200	1880	2350	995	1600	1025	2400
BLG175	1500	1200	1880	2350	995	1600	1025	2700
BLG200	1500	1200	1880	2350	995	1600	1025	2800

Gardner Denver policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.



Australian Master Distributor

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