

Electra-Saver® II Rotary Screw Air Compressors



**40–50 HP, ST 40/50
Modulation Control**

Direct Drive Non-Geared Airend

- Increased bearing life (L-10 life in excess of 100,000 hours) due to large tapered roller bearings.
- Permanent alignment of the flexible coupling between airend and motor assured by rigid C/D-Flange mounting.

Intensive Injection

- 6-8% improved full load operating efficiency provided by patented intensive injection lubrication system. Immediate payback through energy savings.
- Provides highest CFM per brake horsepower in the industry.

Eliminator™ Air/Oil Separator

- Better separation and longer life ensured due to the Eliminator™ having TWICE the surface area of conventional separators.
- Lowest carry-over in the industry—less than two parts per million, measured BEFORE the aftercooler, at 100 PSIG (6.9 bar), full load operation.
- Reduces pressure loss common with competitive separation designs.

Maintenance Reducing Design Features

- Simplified access to air/oil separator element. This reduces maintenance time by 90%.
- Spin-On ten micron full-flow oil filters ensure longer lubricant life and protection for all working parts.

Heavy Duty Inlet Air Filter

- Removes 99.9% of airborne particulate five microns and larger.
- Extends lubricant life by almost 20%.

AirSmart™ Microprocessor Controller

- Most complete electronic control in its class with unsurpassed self-diagnostic, protective shutdown, service advisory and full text digital display capabilities.
- Built-in selectable automatic restart and optional sequencing (up to eight units) functions make the AirSmart™ the most versatile standard compressor control available.
- Large four-line LCD control display with capabilities of displaying information in up to eight languages.

GD
GARDNER DENVER

Experience Proven Results

Technical Data, Direct Drive

ST 40–50 HP

Motor power	Hz	Style	Model	Rated Pressure		Capacity at Rated Pressure*		Approximate Dimensions			Net weight			
				psig	bar	acfm	m ³ /min		Length	Width	Height		with Enclosure	Less Enclosure
40	60	ST 40	EBH	100	6.9	186	5.26	in	79	48	50	lb	2750	2425
				110	7.6	185	5.23							
				125	8.6	155	4.38							
				150	10.3	126	3.56							
				175	12.0	100	2.83							
50	60	ST 50	EBH	100	6.9	238	6.74	in	79	48	50	lb	2750	2425
				110	7.6	237	6.71							
				125	8.6	205	5.80							
				150	10.3	184	5.21							
				175	12.0	155	4.38							
				200	13.7	123	3.48							

* Capacity measured in accordance with CAGI/PNEUROP acceptance test code PN2CPTC2.

** Noise level measured in accordance with ISO 2151.

Standard Equipment

- Direct drive, non-gearred, C-flange mounted airend for permanent alignment
- Heavy-duty, 5 micron air filter, 99.9% efficient
- 460 volt, 3 phase, 60 Hz, 1800 rpm, 1.15 SF, EISA “energy efficient” ODP drive motor with 5-year motor warranty
- Wye-delta motor starting
- NEMA 4 electrical enclosure
- Flexible, cushion-type drive coupling
- Stainless steel control lines
- ASME coded air/oil reservoir with Eliminator™ separator
- Radiator-type air-cooled oil cooler/ after-cooler combination with moisture separator & trap
- Thermally controlled, TEFC fan motor
- Thermostatic oil mixing valve
- Rigid steel base with forklift slots
- Minimum pressure discharge check valve and pressure relief valve
- Factory fill of AEON™ 9000SP lubricant

AirSmart™ Features

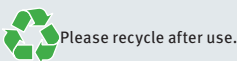
- Controller Designed Exclusively for Gardner Denver.
- Microprocessor controlled
- Low voltage 24 VDC operation
- Informative Control Panel
 - » 4 line x 20 character LCD Display
 - » 4 Status LEDs for “at a glance” compressor status
 - » 9 Buttons for Easy Control and Menu Navigation
 - » Wide Selection of Language Choices
 - › Up to 8 Languages
 - › Display Is Cyrillic Alphabet Capable
- Intelligence limits operation in extreme environmental conditions
- Sequence capable
- RS-232 Serial communications for local monitoring
- Ethernet communications for remote monitoring
- Compressor Control Features
 - » Feature Rich Error Handling
 - › 29 Different Sources for Advisories
 - › 68 Different Sources for System Shutdown

Advisory/shutdown History

- Stored in Non-volatile Memory
 - Last 6 Advisories
 - Last 6 Shutdowns
- › Distributor Contact Information and Part # are Displayed When Consumable Item Causes Advisory or Shutdown
- Ease of Maintenance
 - » Maintenance information at your fingertips
 - » Advisory and shutdown histories
 - » Programmable distributor phone number
 - » Part number identification of consumables

Optional Equipment

- Standard enclosure only
- Alternative voltages
- TEFC drive motor
- Premium Efficiency ODP or TEFC drive motor
- Current monitoring
- AEON™ 6000FG, BIO, 9000TH or 6000FG-68
- Remote mounted air-cooled coolers
- Sequencing communication module



Gardner Denver®

www.GardnerDenverProducts.com

Gardner Denver, Inc. 1800 Gardner Expressway, Quincy, IL 62305
www.contactgd.com/compressors
866-440-6241