

Electra-Saver® II Rotary Screw Air Compressors



60–100 HP, ST 60/75/100 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%.

Acoustic Enclosure

- Significant overall noise reduction with optional sound attenuating, full enclosure.
- Unrestricted access to all service points through removable panels.
- Quiet enclosure option provides 77 dBA air cooled operation. (ST60-ST100DX)

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 60–100 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
60	60	ST 60	EBM	100	6.9	279	7.90	in mm	90 2286	55 1397	60 1524	lb kg	3415 1578	2960 1342
				110	7.6	278	7.87							
				125	8.6	234	6.62							
				150	10.3	206	5.83							
				175	12.0	200	5.66							
				200	13.7	163	4.61							
75	60	ST 75	EBM	100	6.9	355	10.05	in mm	90 2286	55 1397	60 1524	lb kg	3415 1578	2960 1342
				110	7.6	353	9.99							
				125	8.6	320	9.06							
				150	10.3	273	7.73							
				175	12.0	232	6.56							
				200	13.7	226	6.39							
100	60	ST 100	EBP	100	6.9	495	14.02	in mm	90 2286	55 1397	60 1524	lb kg	4275 1938	3820 1732
				110	7.6	493	13.96							
				125	8.6	450	12.74							
				150	10.3	350	9.91							
				175	12.0	347	9.82							
				200	13.7	316	8.94							

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

** Noise level measured in accordance with ISO 2151.

Standard Equipment

- Direct drive, non-geared, 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, E.I.S.A. premium efficiency ODP drive motor with 5-year 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

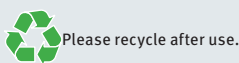
- Controller designed exclusively for Gardner Denver
- Microprocessor controlled
- Low voltage 24 VDC operation
- Informative control panel
 - 4 line X 20 character LCD Display
 - 4 Status LEDs for “at a glance” compressor status

- 9 buttons for easy control and menu navigation
- Wide selection of 8 language choices
- Sequence capable
- RS-232 Serial communications for local monitoring
- Ethernet communications for remote monitoring
- Compressor controls provide 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
 - » Ease of maintenance
 - Maintenance information at your fingertips

- Advisory and shutdown histories
- Programmable distributor contact information
- Part number identification of consumables

Optional Equipment

- Acoustic enclosure (Standard and Quiet)
- Alternative voltages
- TEFC E.I.S.A. premium efficiency drive motor
- Current monitoring
- AEON™ 6000FG, BIO, 9000TH or 6000FG-68
- Remote mounted air-cooled coolers
- Communication modules for sequencing
- Seacoast (air-cooled) or saltwater (water-cooled) coolers



Gardner Denver®

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