

Rotary Screw Air Compressors Electra-Saver II®



40–100 HP, ST 40/50/60/75/100 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)

Auto Sentry® ES+ Solid State Electronic Controller

- Most sophisticated, technically advanced microprocessor based control system in the compressor industry.
- Every control option available in the industry is standard on the Gardner Denver Auto Sentry® ES+ controller.
- More self-diagnostic capability than any other rotary screw compressor.
- Built-in ability to sequence up to eight compressors.
- User friendly readout. No codes to decipher. Digital and full text Vacuum Fluorescent Display (VFD).

Technical Data, Direct Drive

ST 40–100 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		
40	60	ST 40	EBH	100	6.9	186	5.27	in	79	48	50	lb	2750	2425
				110	7.6	185	5.24							
				125	8.6	160	4.35							
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							
60	60	ST 60	EBM	100	6.9	279	7.90	in	90	55	60	lb	3415	2960
				110	7.6	269	7.62							
				125	8.6	242	6.85							
75	60	ST 75	EBM	100	6.9	355	10.05	in	90	55	60	lb	3415	2960
				110	7.6	350	9.91							
				125	8.6	320	9.06							
100	60	ST 100DX	EBP	100	6.9	361	10.22	in	90	55	60	lb	4275	3820
				110	7.6	359	10.17							
				125	8.6	357	10.11							
100	60	ST 100	EBP	100	6.9	495	14.02	in	90	55	60	lb	4275	3820
				110	7.6	488	13.82							
				125	8.6	450	12.74							
				150	10.3	360	10.19							

* 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, EPAAct “energy efficient” ODP drive motor with 5-year motor warranty
- Wye-delta motor starting
- NEMA 12 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
- Auto-Sentry® ES+ Microprocessor based fully programmable touch pad controller with:
 - Full text display with interactive compressor system diagram

- Multiple operating modes: Constant Run, Low Demand with Blowdown, Auto Start/ Stop with timed blowdown and Sequencing
- Advisory lamps (yellow) indicating: air filter, separator, oil filter and oil servicing as well as high/low temperature warning or sequence comm error
- Shutdown lamps (red) indicating: high discharge temp, low oil pressure, current overload (drive & fan motors) and high P separator.
- One field selectable message: high vibration, phase relay, motor protector or low voltage

- Power interruption protection
- Auxiliary contacts for remote start/stop and remote monitoring

Optional Equipment

- Acoustic enclosure (Standard and Quiet)
- Alternative voltages
- TEFC drive motor
- Premium Efficiency ODP or TEFC drive motor
- Current monitoring
- NEMA 4 electrical enclosure
- AEON™ 6000FG, BIO or 9000TH
- Remote mounted air-cooled coolers

Gardner Denver®

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