

Electra-Saver® II

Rotary Screw Air Compressors



125–200 HP, ST 125/150/200
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.
- Robust design with rigid D-flange motor connection and all angle elastomer vibration isolator mountings to ensure vibration-free operation.

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.

Maintenance Reducing Design Features

- Simplified access to air/oil separator, requiring removal of only twelve bolts and no piping to change separator elements. 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.
- Special option for most competitive models.
- Extends lubricant life by almost 20%.

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).

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Experience Proven Results

Standard Equipment

- Direct drive, non-geared, D-flange mounted airend
- Modulating, vertical inlet valve
- Heavy duty, five micron air filter
- 460 volt, 3 phase, 60 HZ, EPAAct energy-efficient, 1800 RPM, 1.15 S.F., ODP, drive motor or 380/415 volt, 3 phase, 50 HZ, 1500/3000 RPM, 1.15 S.F., ODP D-flange drive motor with Standard 5-Year Warranty
- DX models include 125 HP, oversized drive motor not running into service factor at 110/125 PSIG
- DX models include 200 HP, oversized drive motor designed not to run into the service factor at 110/125 PSIG
- Airend and motor shaft are coupled through a permanently aligned, resilient cushion-type flexible coupling
- Stainless Steel Control Lines
- Unitized airend/motor assembly mounted to the compressor base with all angle elastomer vibration isolators
- ASME coded air/oil reservoir with Eliminator™ separator
- Oil cooler/aftercooler:
 - Air cooled models - heavy duty radiator-type with thermally controlled, totally enclosed fan motor
 - Water cooled models - shell and tube heat exchanger
- Thermostatic oil mixing valve
- Package mounted moisture separator and trap
- Rigid steel base with forklift slots
- Pressure relief valve and discharge check valve
- Automatic blowdown valve through inlet filter
- Minimum discharge pressure valve
- Lube system includes all galvanized steel fittings and piping
- Factory fill AEON® 9000SP synthetic lubricant
- Full sound attenuating enclosure (optional on domestic units)
- NEMA 12 control/electrical enclosure includes:
 - Rugged full voltage main motor starters or Star Delta Starters on international units
 - Separate fan motor starter and control transformer
 - Auto Sentry™ ES+ microprocessor based controller
 - U.L. listed and CSA certified electrics
- Auto-Sentry® ES+ microprocessor based, fully programmable touch pad controller with the following functions:
 - Full text display with interactive compressor diagram
 - Multiple operating modes: constant run, low demand with blowdown, automatic stop/start with timed blowdown and sequence (up to 8 units)
 - Emergency stop button
 - Complete system diagnostics through display
 - Displays for hourmeter, loaded hours, total runtime, discharge air temperature, system/reservoir pressure, separator differential pressure and motor amps
 - Advisory lamps (yellow), displays service for air filter, change separator, oil and oil filter change, low/high temperature, sequencing communication error, and high motor amps
 - Shutdown lamps (red), displays high temperature, low oil pressure, main motor overload, fan motor overload, high pressure, change separator, choice of one field-selectable message: high vibration, phase relay, motor protector, low voltage
 - Power interruption protection
 - High speed electronic modulation control
 - Thermally controlled fan motor on air cooled units
 - Contacts for remote start/stop operation plus remote monitoring

Optional Equipment

- Wye-Delta main motor and starter (IEC rated)
- NEMA 4/IP-66 control enclosure
- Alternate voltages, TEFC or high efficiency, main compressor motor
- Full sound attenuating enclosure
- Seacoast (air-cooled) or salt-water (water-cooled) coolers
- Remote mounted air cooled, oil cooler/aftercooler
- Factory fill AEON® 6000FG Food Grade lubricant

Performance 60 HZ, 125–200 HP

Motor HP/kW	Style	Model	Working Pressure		Air Delivery (1)	
			psig	bar	acfm	m³/min
125	ST 125	EBQ	100	6.9	620	17.56
			125	8.6	537	15.21
125	ST 125DX	EBQ	100	6.9	490	13.88
			110	7.6	488	13.82
			125	8.6	485	13.74
			150	10.3	480	13.60
150	ST 150	EBQ	100	6.9	750	21.24
			106	7.3	758	21.20
			125	8.6	618	17.50
			150	10.3	530	15.01
200*	ST 200DX	EBQ	100	6.9	760	21.50
			110	7.6	757	21.20
			125	8.6	752	21.20
			150	10.3	745	21.00
200	ST 200	EBU	100	6.9	1000	28.32
			125	8.6	875	24.78

*100, 110, 125 psig available as field set option only.

Performance 50 HZ, 95–115 kW

125/95	ST 125	EBQ	100	6.9	601	17.27
			125	8.6	500	14.06
			150	10.3	428	12.11
125/115	ST 150	EBQ	100	6.9	734	20.79
			125	8.6	637	18.04
			150	10.3	632	17.89

Dimensions/Weights

HP	Approximate Dimensions (2)				Approximate Shipping Weight (3)		
		Length	Width	Height		with Enclosure	Less Enclosure
125/150	in	114	68	69	lb	5500	4800
	mm	2896	1727	1753	kg	2495	2177
200 DX	in	114	68	69	lb	6360	5598
	mm	2896	1727	1753	kg	2885	2539
200	in	114	68	69	lb	5650	5050
	mm	2896	1727	1753	kg	2563	2291

1. Capacity measured in accordance with CAGI/PNEUROP acceptance test code PN2CPTC2.
2. Dimensions shown are nominal for all unenclosed models and for quiet enclosed water cooled models. Width on all quiet enclosed air cooled models is 90" (2286 mm.)
3. Weights shown are for air cooled models less shipping skid. Water cooled models weigh slightly less.

Gardner Denver®

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