

# Electra-Saver® Rotary Screw Air Compressors



## 200–350 HP, SAV 200/300/350 Variable Displacement Control

### Turn Valve Part Load Technology

- The patented Turn Valve is the most efficient part load capacity control system in the industry.
- Kypho™ rotor design, coupled with turn valve technology, can reduce energy costs as much as 16%.
- Automatically compresses exactly the right amount of air required, assuring maximum efficiency and energy savings.

### Highly Efficient, Slow Turning Airend

- Patented Kypho™ profile rotors are precision machined on advanced technology CNC machining centers for unrivaled performance.
- Increased bearing life (L-10 life in excess of 100,000 hours) due to large tapered roller bearings.

### Eliminator™ Air/Oil Separator

- Eliminator™ has TWICE the surface area of conventional separators for better separation and longer life.
- 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

### Simple Maintenance

- Wye-Delta reduced voltage starting minimizes power surges and eliminates costly power spikes.
- Easy access to air filter mounted directly to the inlet valve.
- Spin-on ten micron full-flow oil filters ensure longer lubricant life and protection for all working parts.
- Simplified access to air/oil separator

### Heavy Duty Inlet Air Filter

- Standard canister-type filter on Electra-Saver units; usually an option with other manufacturers.
- Removes 99.9% airborne particulate five microns and larger.
- Extends lubricant life by almost 20%.

### Acoustic Enclosures

- Optional acoustically treated steel enclosure with attenuation plenum provides quiet 77 dBA air cooled operation (73 dBA on water cooled units.)
- Unrestricted access to all primary service points for easy maintenance and cleaning.

### 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.

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*Experience Proven Results*

### Standard Equipment

- Turn Valve automatic capacity control airend
- Modulating inlet valve with selectable load/no load setting
- Intensive injection oil injection with quad port delivery
- D-flange mounted to Wye-Delta EISA “energy efficient” drive motor:
  - 460 or 575 volt, 60 HZ, 3 phase, 1800 rpm, 1.15 S.F. ODP
  - 380 or 415 volt, 50 HZ, 3 phase, 1500 rpm, 1.15 S.F. ODP
- DX model includes 350 HP, oversized drive motor designed not to run into motor service factor @ 110 PSIG
- Airend and motor shafts coupled through a permanently aligned, cushion type flexible coupling
- Stainless steel control lines
- Unitized airend/motor assembly mounted to the compressor base with elastomeric, all-angle vibration isolators
- Heavy duty, all welded steel base with fork lift slots
- Heavy duty, canister type five micron inlet air filters
- ASME coded air/oil reservoir with Gardner Denver Eliminator™ separator element
- Air Cooled aftercooler and oil cooler are package mounted, industrial duty, high thermal transfer radiator type with thermally protected TEFC fan motor
- Water Cooled aftercooler and oil cooler are package mounted, heavy duty shell and tube heat exchangers
- Thermostatic oil mixing valve
- Moisture separator and trap, mounted
- Air/oil separator pressure relief valve
- Automatic blowdown valve through inlet filter
- Minimum discharge pressure/check valve
- All galvanized steel fittings and steel piping
- Stainless steel control line tubing
- Factory fill with AEON™ 9000SP rotary screw lubricant
- NEMA 4 electrical control enclosure includes Wye-Delta main motor starter, fan motor starter, control voltage transformer, ammeter, AirSmart, U.L. listed and CSA certified electrics

### 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

- Quiet enclosure, 73 dBA water cooled, 77 dBA air cooled
- Remote mounted oil cooler and aftercooler for air-cooled models
- Alternate voltages, TEFC and high efficiency motors
- Seacoast (air cooled) or saltwater (water cooled) coolers
- Factory fill AEON™ 6000FG Food Grade Lubricant

### Performance 60 HZ, 200–350 HP

Motor HP/kW	Style	Model	Working Pressure		Air Delivery (1)	
			psig	bar	acfm	m <sup>3</sup> /min
200	SAV 200	EAU	100	6.9	934	26.44
			125	8.6	802	22.71
			150	10.3	715	20.24
250	SAV 250	EAU	100	6.9	1215	34.40
			125	8.6	1089	30.84
			150	10.3	924	26.16
300	SAV 300	EAU	100	6.9	1481	41.94
			125	8.6	1206	34.15
			150	10.3	1068	30.24
350	SAV 350 DX	EAU	100	6.9	1481	41.93
			110	7.6	1476	41.79

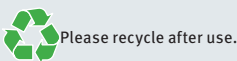
### Performance 50 HZ, 149–224 kW

200/ 149	SAV 200	EAU	100	6.9	974	27.58
			125	8.6	832	23.56
			150	10.3	640	18.12
250/ 185	SAV 250	EAU	100	6.9	1215	34.40
			125	8.6	960	32.28
			150	10.3	900	25.49
300/ 224	SAV 300	EAU	100	6.9	1481	41.94
			125	8.6	1200	33.98
			150	10.3	940	26.62

### Dimensions/Weights

HP	Approximate Dimensions (2)				Approximate Shipping Weight (3)		
		Length	Width	Height		Enclosed	Open
200	in	124	72	74	lb	8064	7510
	mm	3150	1829	1880	kg	3658	3407
250	in	124	72	74	lb	8562	8008
	mm	3150	1829	1880	kg	3884	3632
300	in	124	72	74	lb	8666	8112
	mm	3150	1829	1880	kg	3931	3680
350DX (4)	in	124	72	74	lb	8812	8258
	mm	3150	1829	1880	kg	3997	3745

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.
4. Consult Customer Service for correct dimensions (500 Series motor frames are packaged in larger sizes due to voltage variations).



# Gardner Denver®

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