

# Electra-Saver® Rotary Screw Air Compressors



## 75–100 HP, SAV 75/100 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.

### Direct Drive Non-Geared Airend

- Increased bearing life (L-10 life in excess of 100,000 hours) due to large tapered roller bearings.
- Permanent airend to motor connection via rigid flange connection for vibration-free operation.

### Maintenance Reducing Design Features

- Simplified access to air/oil separator, requiring removal of only six bolts and no piping to change separator elements. This reduces maintenance time by 90%.
- 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.

### Heavy Duty Inlet Air Filter

- Standard canister-type filter on Electra-Saver units; usually an option with other manufacturers.
- Removes 99.9% of airborne particulates 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*

## Standard Equipment

- Direct drive, non-geared, C-flange mounted airend
- Automatic, integral Turn Valve part-load control system
- Modulating, vertical inlet valve
- Heavy duty, 5 micron, inlet air filter
- 460 volt, 3 phase, 60 HZ, 1800 RPM, 1.15 S.F., E.I.S.A. premium efficiency ODP drive motor **with standard 5-year warranty**
- 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 Gardner Denver Eliminator™ separator element
- 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 control valve
- Package mounted moisture separator and trap
- Rigid steel base with forklift slots
- Pressure relief valve
- Automatic blowdown valve through inlet filter
- Minimum discharge pressure check valve
- Lube system includes all galvanized steel fittings and piping
- Factory fill AEON™ 9000SP synthetic lubricant
- NEMA 4 control/electrical enclosure includes:
  - Wye-Delta, 460 volt main motor starter with NEMA starting requirements
  - Fan motor starter
  - Control voltage transformer
  - AirSmart controller
  - 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

- Full acoustic enclosure with access doors
- Seacoast (air-cooled) or salt water (water-cooled) coolers
- Factory fill AEON™ 6000FG Food Grade synthetic lubricant, Bio, 9000TH, 6000FG-68
- Alternate voltages and TEFC E.I.S.A. premium efficiency motor
- Remote mounted air cooled coolers
- Communication modules for sequencing

## Performance 60 HZ, 75–100 HP

Motor HP	Style	Model	Working Pressure		Air Delivery (1)	
			psig	bar	acfm	m <sup>3</sup> /min
75	SAV 75	EAM	100	6.9	350	9.91
			110*	7.5	348	9.85
			125	8.6	305	8.64
100	SAV 100	EAP	100	6.9	470	13.31
			125	8.6	420	11.49
			150	10.3	344	9.74

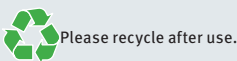
## Performance 50 HZ, 75 kW

Motor HP	Style	Model	Working Pressure	bar	acfm	m <sup>3</sup> /min
100/75	SAV 100	EAQ	100	6.9	491	13.90
			125	8.6	409	11.60
			150	10.3	313	8.90

## Dimensions/Weights

HP	Approximate Dimensions (2)				Approximate Shipping Weight (3)		
		Length	Width	Height		Enclosed	Open
75	in	90	55	60	lb	3665	3210
	mm	2286	1422	1524	kg	1662	1455
100	in	90	55	60	lb	4106	3650
	mm	2286	1422	1524	kg	1862	1643

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.
- \* 110 psig available as field set option only. Order 100 psig unit and reset operating pressure in the field.



# Gardner Denver®

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