

SAV125-500 (125-500 HP) FIXED SPEED ROTARY SCREW COMPRESSORS

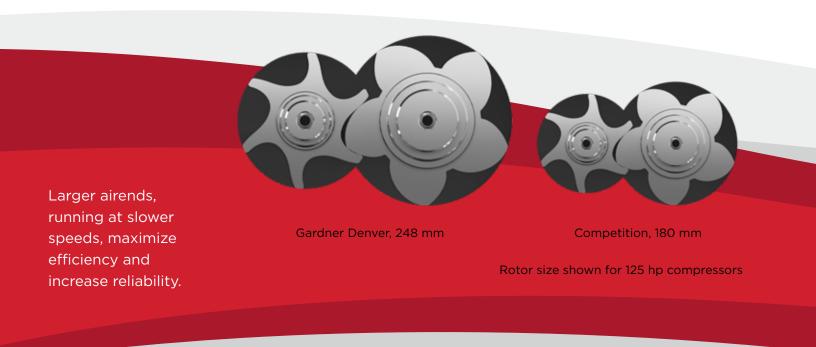
Electra Saver®



Slow Speed Success

A Serious Legend

The engineering ingenuity of Gardner Denver began in 1859. For over 150 years, our compressed air products have been a dependable resource for meeting the world's most demanding and ever-changing industrial needs. A legend in its own right, the Electra Saver was founded on slow-speed, 1800 rpm design principles and has been providing decades of dependability.



Featuring super-sized bearings and up to 40% larger airends than the competition, Electra Saver compressors not only outperform competition, but outlast them.

A Serious Technological Advancement

Even with careful planning, most systems experience varying air demand. As a result, compressors operate below their full-load rated capacity at what is most commonly referred to as "partial load." The horsepower consumed at partial load operation can be significant. Gardner Denver recognized this fact and developed a variable displacement technology designed to match compressor output to compressed air demand.

The patented TurnValve™ was introduced over 30 years ago to maximize compressor efficiency. The TurnValve displaced inlet throttling technology which was the most efficient means of compressor capacity control and eliminated wide pressure fluctuations and massive storage requirements.





Basic Operating Principle

Air is drawn in through the fully opened inlet valve. Volumes of air are encapsulated between the male and female rotors and airend housing. The volumes are reduced through further rotation of the rotors to a fixed compression ratio and discharged out of the airend at operating pressure.

Design Features

The cylindrical TurnValve has a helix-shaped relief on its outside diameter which mates to a precisely machined bore within the body of the airend housing. The TurnValve is supported axially by oversized tapered roller bearings to permit rotation through a hydraulically operated rack and pinion arrangement.

Openings, or windows, conjoin the compression chamber of the airend with the TurnValve bore where the circumference is sealed by tight clearances and lubricant to prevent air leakage during operation.





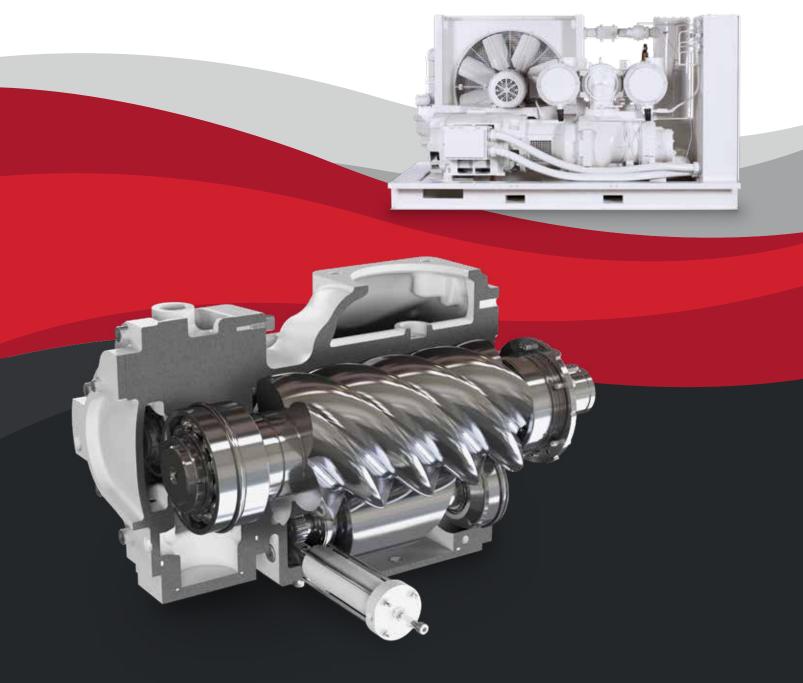
Part Load Conditions

Upon detection of decreasing system air demand (rising pressure), the TurnValve is rotated into a position where the helix relief progressively opens the succession of windows until system air pressure has stabilized.

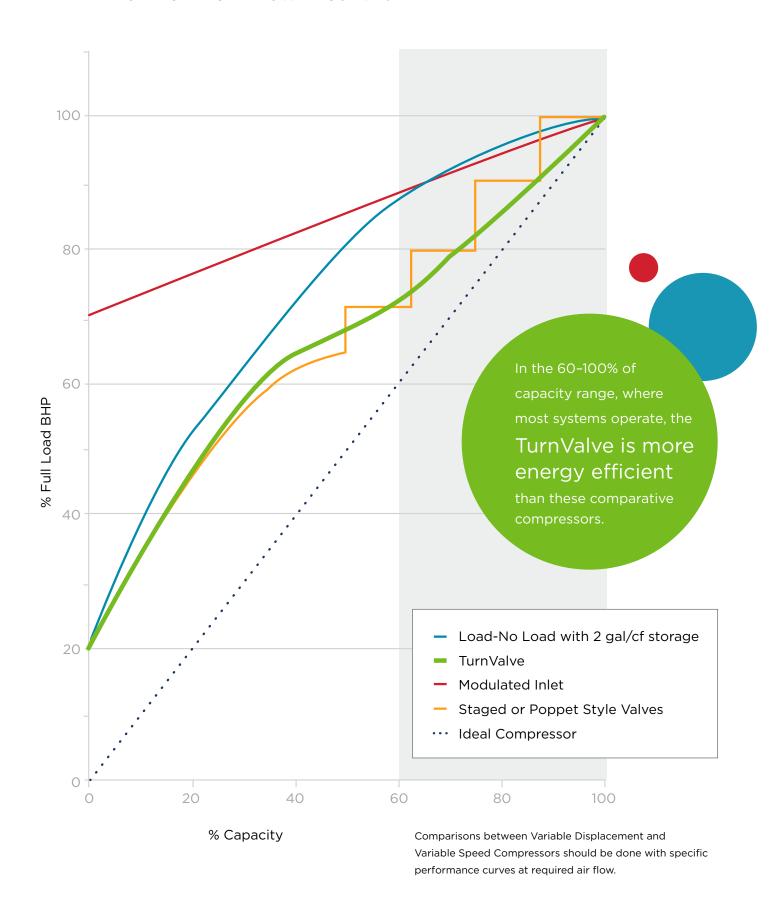
The Turn Valve Advantage

Trapped volumes of air are allowed to circulate back to the inlet without being compressed, resulting in only the required amount of air being compressed to meet system demands. The effective length of the rotor is shortened resulting in variable displacement operation allowing power use to drop, thus saving energy.

The TurnValve provides the exact amount of compressed air to maintain system pressure for maximum efficiency—no more, no less. In fact, in the 60-100% of capacity range, where most systems operate, the TurnValve is more energy efficient than comparative units.



PARTIAL LOAD CAPACITY POWER CURVES



Best of the Best

The Compressor to Exceed Your Demands

Whether it's the NEMA 4 control enclosure, directly driven airend, patented TurnValve technology or quiet enclosure, the Electra Saver™ is packed with high value standard and optional features that exceed your demands.

Serviceability Redefined

The Electra Saver™ redefines serviceability. Available in a standard unenclosed configuration, all filters are easily accessible and no piping needs to be disconnected to service the separator.

Unsurpassed Quality Components

Featuring a high performance airend, standard stainless steel control lines, seamless tubing for lubricant circulation, and 1800 rpm high efficiency motors, Gardner Denver thought of everything with the design of the Electra Saver™.







Information at your Fingertips

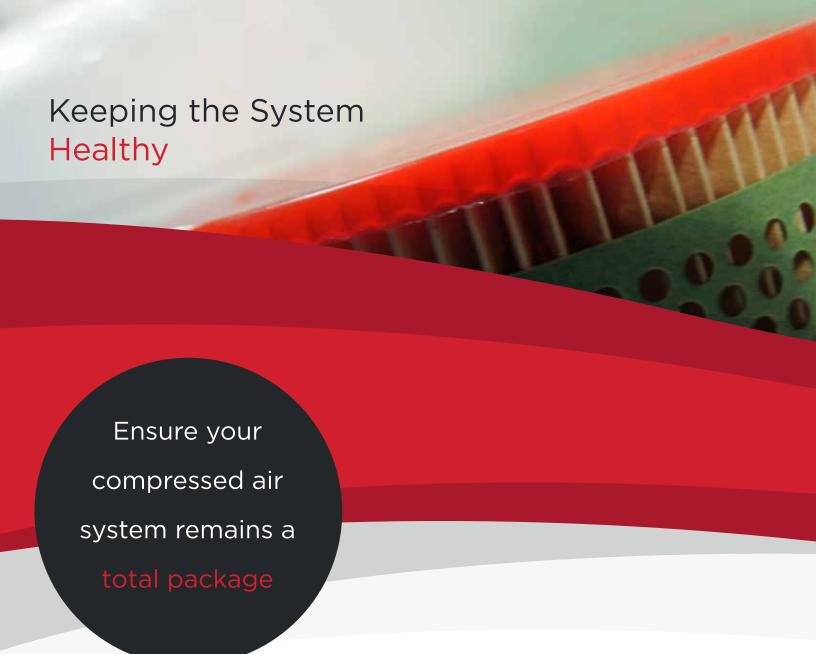
All Electra Saver™ compressors come equipped with the AirSmart™ microprocessor controllers because microprocessor control technology is the simplest, yet most powerful compressor control design available. The AirSmart™ from Gardner Denver is built on the foundation of being easy to operate and an industry leader in self diagnostic, protective shutdown, service advisory and full text digital display capabilities.



AirSmart™ Microprocessor Controller

- Low voltage 24V DC operation
- Two pressure transducer inputs
- Informative control panel
 - 4 line by 20 character LCD display
 - 4 status LEDs for "at a glance" compressor status
 - 9 buttons for easy control and menu navigation
 - Multiple language support
- The controller is feature rich with maintenance and error handling information including:
 - 29 different sources for advisories
 - 68 different sources for system shutdown
 - Advisory/shutdown history stored in nonvolatile memory
 - > Last 6 advisories
 - > Last 6 shutdowns
 - Distributor contact information
- Part number is displayed when consumable item causes advisory or shutdown
- Sequence capability for control of up to eight AirSmart™ controlled compressors*
- RS-232 serial communications for local monitoring*
- Ethernet communications for remote monitoring*
- *With optional communications/sequencer module.





Total System Protection

Since 1859, Gardner Denver has been supporting the compressed air industry with high quality, long-lasting compressor and air treatment solutions. Carrying on that legacy, our robust line of parts, lubricant and downstream accessories ensure your system stays healthy.

Gardner Denver's focus on total system protection not only includes OEM parts and fluid solutions, but a commitment to the longevity of your equipment through our industry leading warranty programs.

Protect your investment.



Best Warranty in the Industry

Experience Peace of Mind

Gardner Denver's engineering philosophy ensures longlasting, reliable equipment. Our simple, but bold warranty programs demonstrate our belief in the quality found in Gardner Denver compressors.

Our standard warranty ensures that you have peace of mind when it comes to your system's operation. For added protection, take advantage of our 10-year extended airend warranty program. Simply stated, it's the best in the industry.



Sales & Service Distributors Across America

An Extensive Network

By leveraging the extensive network of Gardner Denver factory-trained authorized local distributors, your sales, service and technical support needs can be handled quickly and easily.







ELECTRA SAVER 125-500 HP **ROTARY SCREW COMPRESSOR**

MODEL	DRIVE MOTOR		50 Hz				60 Hz							
			NOMINAL PRESSURE		FAD		NOMINAL PRESSURE		FAD		NOISE LEVEL ¹ WE		IGHT	DIMENSIONS L × W × H
	HP	KW	PSIG	BAR	ACFM	M³/MIN	PSIG	BAR	ACFM	M³/MIN	DB(A)	LBS	KG	IN. (MM)
SAV-125	125	90	100 125 150	6.9 8.6 10.3	594 480 418	16.83 13.60 11.84	100 125 150	6.9 8.6 10.3	614 530 444	17.39 15.01 12.58		4844	2197	114 × 68 × 64 12896 × 1727 × 1626)
SAV-150	150	110	100 125 150	6.9 8.6 10.3	681 552 N/A	19.29 15.64 N/A	100 125 150	6.9 8.6 10.3	726 608 520	20.57 17.22 14.73		5151	2336	
SAV-200	200	150			/4		100 125 150	6.9 8.6 10.3	726 723 720	20.57 20.48 20.40	88	5519	2503	
SAV-200 DD	200	150		N,	/A		100 125	6.9 8.6	974 832	27.59 23.57		6408	2907	
SAV-200	200	150	100 125 150	6.9 8.6 10.3	1000 880 640	28.33 24.93 18.13	100 125 150	6.9 8.6 10.3	934 802 715	26.46 22.72 20.25	94	8142	3693	 124 × 72 × 71 (3150 × 1829 × 1803)
SAV-250	250	180	100 125 150	6.9 8.6 10.3	1250 1040 900	35.41 29.46 25.50	100 125 150	6.9 8.6 10.3	1215 1089 924	34.42 30.85 26.18		8720	3955	
SAV-300	300	225	100 125 150	6.9 8.6 10.3	1500 1200 940	42.49 33.99 26.63	100 125 150	6.9 8.6 10.3	1481 1206 1068	41.95 34.16 30.25		8852	4015	
SAV-350	350	260	100 125 150	6.9 8.6 10.3	1800 1390 1120	50.99 39.38 31.73	100 125 150	6.9 8.6 10.3	1684 1434 1166	47.71 40.62 33.03	14200 84 14500 85 15000	14200	6441	– 153 × 84 × 78 (3886 × 2134 × 1981)
SAV-400	400	298	100 125 150	6.9 8.6 10.3	2070 1670 1310	56.64 47.31 37.11	100 125 150	6.9 8.6 10.3	1943 1652 1414	55.04 46.80 40.06		14500	6577	
SAV-500	500	373	100 125 150	6.9 8.6 10.3	2580 2050 1700	73.09 58.07 48.16	100 125 150	6.9 8.6 10.3	2459 2118 1634	69.66 60.00 46.29		6804	_	

^{* 110} psig available as field set option only. Order 100 psig unit and reset operating pressure in the field.

1) Noise level, weights and dimensions are for unenclosed models.

The leader in every market we serve by continuously improving all business processes with a focus on innovation and velocity



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