

US 08

L37SR - L45SR - L75SR - L110SR - L132SR Speed Regulated Rotary Screw Compressors



Engineered to Save



SPEED REGULATED ROTARY SCREW COMPRESSORS

Reliable compressed air provided at maximum efficiency under all operating conditions with quick, economical servicing as standard.

The CompAir LSR Series of rotary screw air compressors incorporates a variable speed switched reluctance drive system of outstanding efficiency, offering the ability to precisely match power consumption with air demand.

Maximum efficiency at any level of demand cuts energy costs and saves money

The ability to precisely match output to demand allows the compressors to consume exactly the right amount of energy to do the job, and no more. This is achieved by varying the speed of the drive motor with a level of efficiency which cannot be matched by any other conventional variable speed drive system.

In addition, precise pressure control and smooth acceleration and deceleration of rotary components extends service life improving payback on your investment.

Proven and dependable switched reluctance drive systems in a new application concept

CompAir's switched reluctance drive systems offer the most significant technological advance in rotary drives since the inception of the induction motor over a century ago and, combined with the latest features for control and monitoring, overcome many of the commonly accepted disadvantages of induction motors, still used in many applications today.





LSR Series compressors are able to accurately maintain a set pressure while responding instantly to changes in air demand. Maintaining air system pressure at an exact pre-set level eliminates the need to operate within pressure bands, enhancing efficiency still further. The quality of your process or product can also be improved with the guarantee of constant, unchanging air system pressure.



Saves Energy Costs

Regulates compressor speed to match output to system demand. Eliminates run-on time during periods of low system demand. Eliminates over pressurization.

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Improves Process or Product Quality Constant pressure air supply.

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Unique Switched Reluctance Drive System Higher efficiency than alternative variable speed drives. Simple motor and controller design. Established, proven and reliable.

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Reduces Electrical and Mechanical Loads Soft starting with no current peaks.

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Economical to Maintain Grouped service components reduce down time and simplify servicing.



Easy to Install and Operate Low noise level, free standing and simple operator controls.



The LSR Series of compressors are designed to operate effectively as stand alone units or in conjunction with other compressor packages to provide maximum air efficiency at all times.

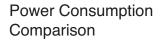


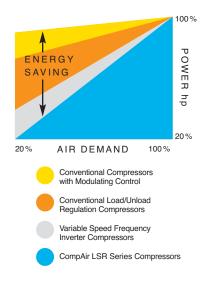
Remarkable energy savings

Air compressors are designed to be capable of performing continuously at maximum output capacity and the CompAir LSR Series is no exception.

Surveys show, however, that maximum capacity is only required at limited, peak times with a majority of air compressors operating at an average 50% - 70% of full capacity. Below maximum capacity is where the true energy saving potential of the LSR Series can be realized.

With energy consumption in near perfect proportion to demand, the energy wasted with conventional regulation systems can be saved. Combine this energy saving concept with the CompAir designed, developed and manufactured compression element, giving high air output for minimum power consumption, and you have a formidable duo with significant energy saving potential.







Enhanced reliability

The CompAir Switched Reluctance drive systems are inherently soft starting, with smooth and controlled acceleration and deceleration, reducing stress on mechanical and electrical components. Compared to conventional variable speed drives, the electronically controlled regulation of the LSR Series simplifies system construction resulting in a 'less to go wrong' enhanced reliability concept.

Quality you can rely on

An ISO9001 certified design and manufacturing process, continuously audited by our internal auditors ensures a high quality and reliable product.



The LSR Series compressor drives use tried and tested Switched Reluctance Drive Technology in a new application concept





Grouped service components and easy access keeps service downtime and costs to a minumum.

Drive efficiency losses are eliminated by direct coupling of the motor and compression element.



Easy operator interface and status monitoring via the microprocessor based control system.



SR motor assembly utilizing standard IP55 housings. (L75SR shown)

Easy to install

The compressor's small installation footprint, lifting slots and vertical air discharge simplify installation.

Easy starting

All conventional motor drive systems require a high starting peak current. The LSR Series compressor drive system, however, is able to start without any increase in power supply current above normal running levels, reducing stress on the site power supply system and eliminating peak current energy cost penalties.

Easy to operate

The compressor controller continuously protects your investment by monitoring every vital operational parameter. Once installed and commissioned, just tell any of the LSR Series compressors what pressure you require and press the start button.



The compressor is designed to help reduce maintenance costs. It will provide you with advance indication of service requirements allowing you to schedule maintenance at convenient times.

Servicing is simple, quick and economical. All routine maintenance parts are conveniently grouped behind the hinged and removable service door, providing instant access and reducing service times.





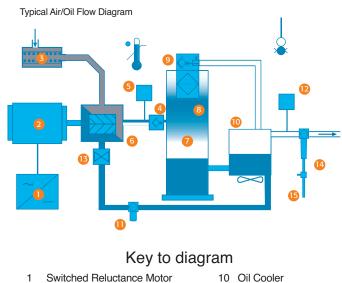






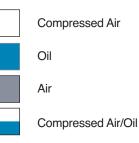


LSR Series compressors represent CompAir's commitment to providing innovative and high technology solutions for complete compressed air systems



- Switched Reluctance Motor 1 Controller
- Switched Reluctance Motor 2
- Air Intake Filter 3
- Non Return Valve 4
- 5 **Temperature Sensor**
- 6 Air Compression Element
- 7 **Reclaimer Vessel**
- Air/Oil Separator Element 8
- Minimum Pressure 9 Non Return Valve

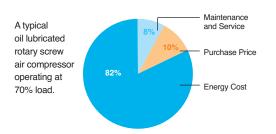
- 11 Air Cooler
- 12 Oil Filters
- 13 Pressure Sensor

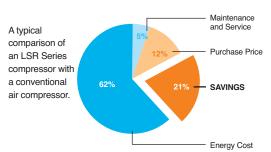


			FR	AME 3					
Compre	ssor Model	L37 SR				L45 SR			
Normal Pressure	psi g			125	190	75	100	125	190
	bar g	6	7.5	9	13	6	7.5	9	13
	HP	50				60			
Drive Motor	Kw	37			45				
Free Air Delivered Mini- mum-Maximum	Scfm	53-244	52-242	51-228	47-186	53-283	52-280	51-265	47-217
Noise Level	dB(A)	70 (at 70% Load)			71 (at 70% Load)				
Weight	Lbs (kg)	2275 (1032)			2281 (1035)				
Dimonsions	L x W x H INS.	68 x 36 x 65			68 x 36 x 65				
Dimensions L x W x H MI		1722 x 920 x 1659				1722 x 920 x 1659			
Discharge Pipe Size	NPT	1.5"			1.5"				
			FR	AME 4	1				
Compres	L75 SR								
Normal Pressure	psi g	72		100		125		190	
	bar g	6		7.5		9		13	
Drive Motor	HP	100							
	Kw	75							
Free Air Delivered Minimum-Maximum	Scfm	81-493		79-481		78-446		77-377	
Noise Level	dB(A)	73 (at 70% Load)							
Weight	Lbs (kg)	4075 (1848)							
Dimonsions	LxWxH INS.	73x85x48							
Dimensions	LxWxH MM	2158x1223x1971							
Discharge Pipe Size	NPT	2.0"							
			FR	AME 5					
Compre	L110 SR				L132 SR				

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Compre	L110 SR				L132 SR				
Normal Pressure	psi g	75	100	125	160	75	100	125	190
Normal Pressure	bar g	6	7.5	9	11	6	7.5	9	13
Drive Motor	HP	150				180			
Drive Wotor	Kw		1:	10	_	132			
Free Air Delivered Minimum-Maximum	Scrm	171-626	168-623	167-583	164-506	171-806	169-803	167-760	161-609
Noise Level	dB(A)	72 (at 70% Load)			76 (at 70% Load)				
Weight	Lbs (kg)	5514 (2501)				5595 (2538)			
Dimensions	L x W x H INS.	92 x 54 x 80				92 x 54 x 80			
Dimensions	L x W x H MM		2337 x 13	.368 x 2039		2337 x 1368 x 2039			
Discharge Pipe Size	NPT	2.5"				2.5"			

Annual Cost of Ownership







COMPRESSED AIR SOLUTIONS FOR EVERY APPLICATION

Compressors	Complete	Value Added Services Air Audit Performance Reporting Utility Air Performance Contracting		
Up to 2750 cfm	Accessories Program			
1 - 604 hp	0			
Up to 6000 psi	Filters and Dryers			
	Cooling Systems			
Lubricated	Heat Recovery			
Rotary Vane	Condensate Management			
Single Stage Screw	Air Receivers			
Speed Regulated Screw	Multi-Set Controllers			
Piston	Lubricants			
Portable				

Complete Service for Compressed Air Technology

Engineering of Complete **Compressor Stations**

Local Service Centers

Guaranteed Parts Availability

Oil-Free

Two Stage Screw Water-Sealed Screw Piston Portable



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INTELLIGENT AIR TECHNOLOGY

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

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