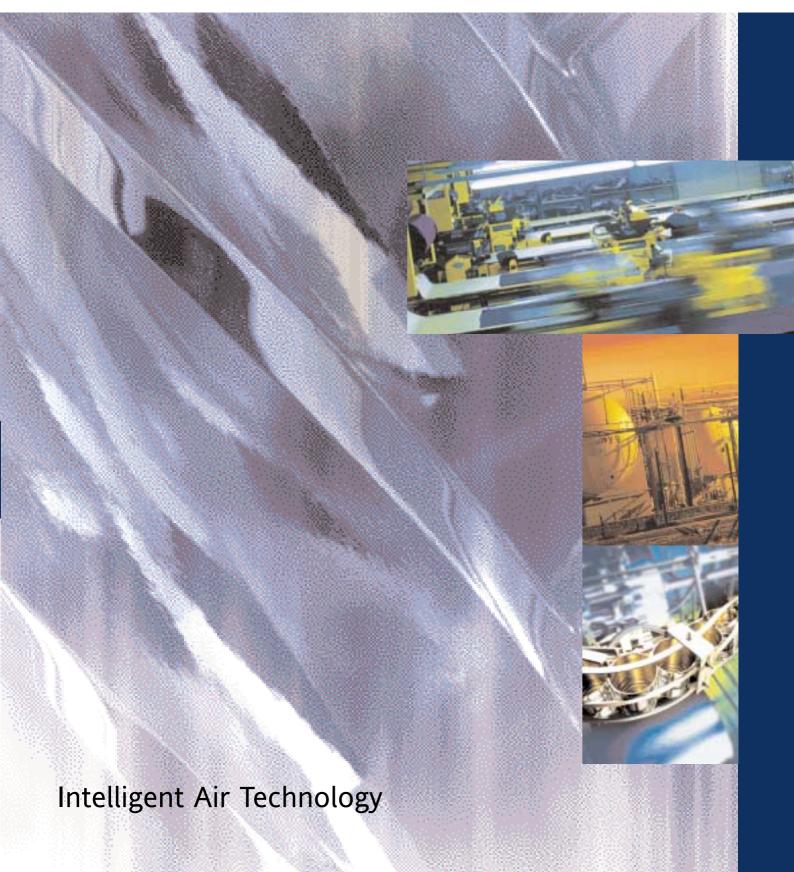
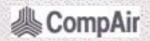


L45SR - L75SR - L120SR Speed Regulated Rotary Screw Compressors





### **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.

## Tried and tested 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 pressurisation.

Improves Process or Product Quality Constant pressure air supply.

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

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

### **Economical to Maintain**

Grouped service components reduce down time and simplify servicing.



### Easy to Install and Operate

maximum air efficiency at all times

Low noise level, free standing and simple operator controls.





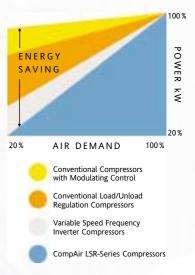
#### Remarkable energy savings

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 realised.

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.

# Power Consumption Comparison





#### **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 and Lloyd's Register ensures a high quality and reliable product.



Grouped service components and easy access keeps service downtime and costs



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.



Electronic level controlled zero loss condensate drain (I.120SR).



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

#### Easy to install

The compressors 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 systems, however, are 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.



#### Easy to maintain

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.

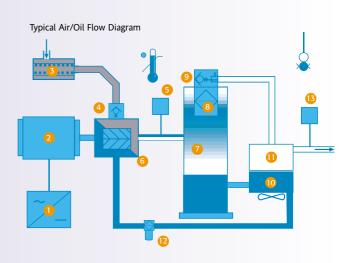
LSR-Series compressors represent CompAir's commitment to providing innovative and high technology solutions for complete compressed air systems



L45SR







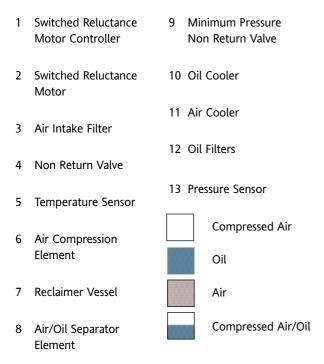
Technical Specifications									
Model	Drive Motor kW	Max. Working Pressure bar g (psig)	Working Pressure bar g (psig)	Free Air Delivered* minimum - maximum m³/min (cfm)	Dimensions mm			Noise Level**	Weight
					Length	Width	Height	dB(A)	kg
L45SR	50	13 (189)	5 (72)	1.12(40) - 8.02(283)	1420	990	1650	77	955
			7 (102)	1.09(39) - 7.93(280)					
			10 (145)	1.32(47) - 6.99(247)					
			13 (189)	1.64(58) - 5.97(211)					
L75SR	75	13 (189)	5 (72)	1.90(67) - 12.40(438)	2050	1200	1702	77	1243
			7 (102)	1.83(65) - 12.20(431)					
			10 (145)	1.80(64) - 10.73(379)					
			13 (189)	2.10(74) - 9.51(336)					
L120SR-11	128	11.5 (167)	5 (72)	2.66(94) - 19.81(700)	2500	1400	2020	76	2100
			7 (102)	2.60(92) - 19.59(692)					
			10 (145)	2.48(88) - 17.61(622)					
			11.5 (167)	3.39(120) - 16.34(577)					
L120SR-13	128	13 (189)	13 (189)	3.35(118) - 15.38(543)	2500	1400	2020	76	2100

<sup>\*</sup> At stated working pressure and measured and tested in accordance with Pneurop/CAGI PN2CPTC2 and ISO 1217 Ed 3 Annexe C at the following reference conditions:

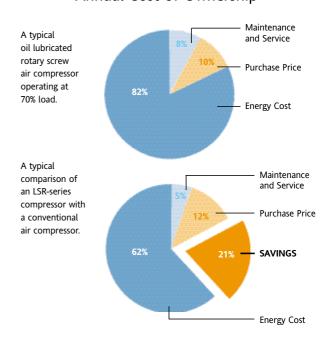
Air intake pressure - 1 bar a Air intake temperature - 20°C

Performance of the L120SR-13 at lower working pressures is identical to the L120SR-11

#### Key to diagrams



#### Annual Cost of Ownership



<sup>\*\* + 3</sup> dB(A) according to Pneurop / Cagi test code

# Intelligent Air Technology

## Compressed air solutions for every application





www.CompAir.com Email sales@compair.com

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.



