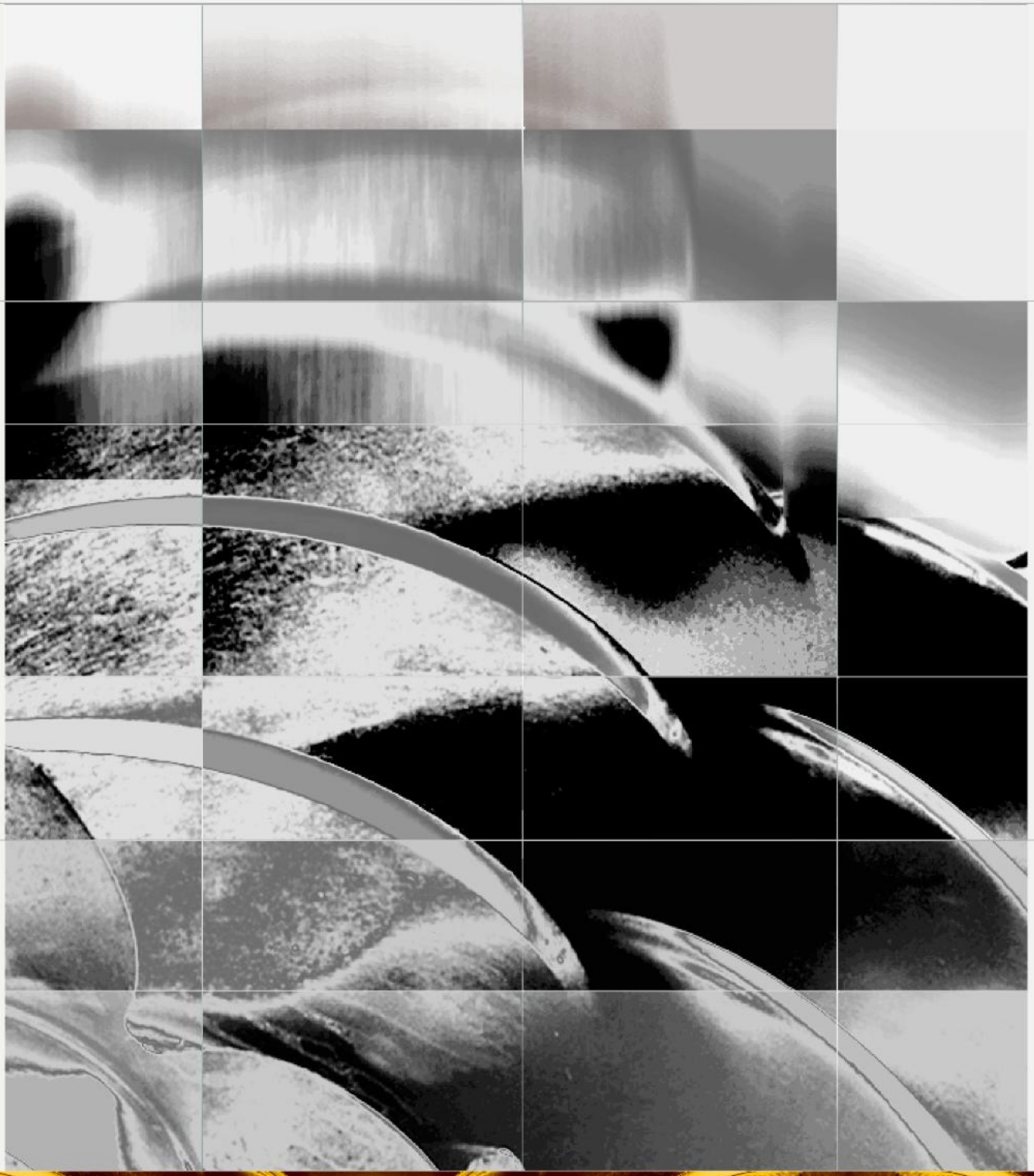
FLUIDAIR
INTERNATIONAL

Rotary Screw Compressors

RS 4-160



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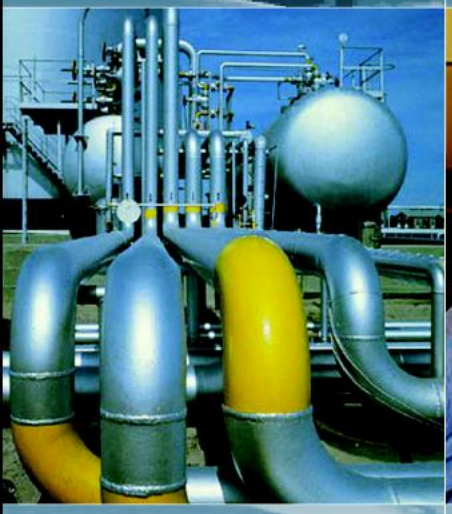
Fluidair Rotary Screw Air Compressors

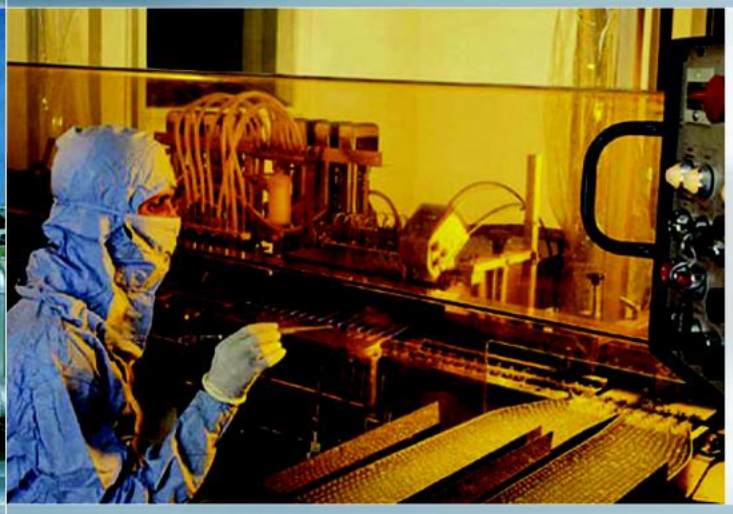
Compressed air solutions for industries of all sizes...

From large industrial operations to small workshops, many companies use Fluidair Rotary Screw Air Compressors to meet their needs of continuous compressed air.

Competitive prices, quick installation, easy maintenance, national coverage and full technical service support make Fluidair Compressors a popular choice.
Fluidair has become a leading manufacturer throughout Europe producing compressed air technologies and offering solutions to the industry since 1936.

Fluidair Compressors have also become an international brand of choice in countries in Europe, Asia, America, South Africa & Middle East.





Compressed Air Technology

High Performance and Efficiency

The Fluidair RS range of compressors use high profile airends and integral parts manufactured by world leaders in the industry. The general system temperature and the compressed air temperature has been minimised by modern design. The screw lubrication system allows increased life-span and efficiency of the screw airends.

Reliable, Efficient Operating System

One of the very basic needs of industrial companies is to have reliable, non-problematic material and machinery. In this context reliability and quality of compressed air systems is a significant factor in reducing production costs.

Problems occurring in the compressed air system could delay or even halt production. The cost of an hours loss of production could exceed the cost of the whole compressed air system. Reduced maintenance needs, reliable and efficient operation allows Fluidair to give customers the right choice.

Energy Saving

It is estimated that industrial operations use 8-12% of their energy to meet their compressed air needs. On an annual basis this expense could add up to significant costs. Fluidair compressed air equipment offers significant energy savings by means of using the latest technology combined with efficient but economic components.

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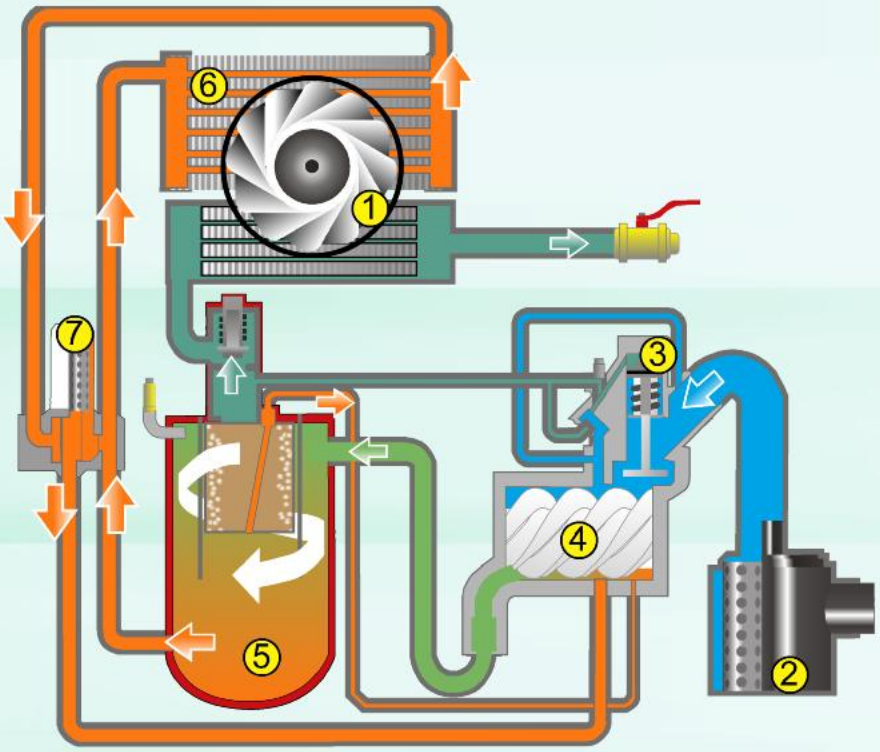
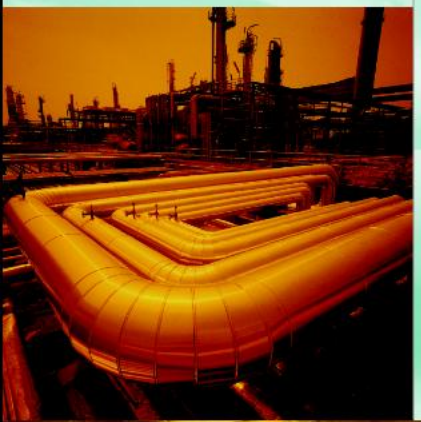


Air Intake System

Replaceable glass fibre panel type pre-filter and dry type paper filter element eliminates dusty environment problems. The air intake fan creates a turbo effect inside of the cabinet, this effect provides efficient cooling and helps the airend intake capacity

Air/Oil Aftercooler

Long-life and trouble free operation with “Plate&Bar” aluminium combi-coolers.The coolers size is selected to provide trouble free operations even in high ambient temperatures.

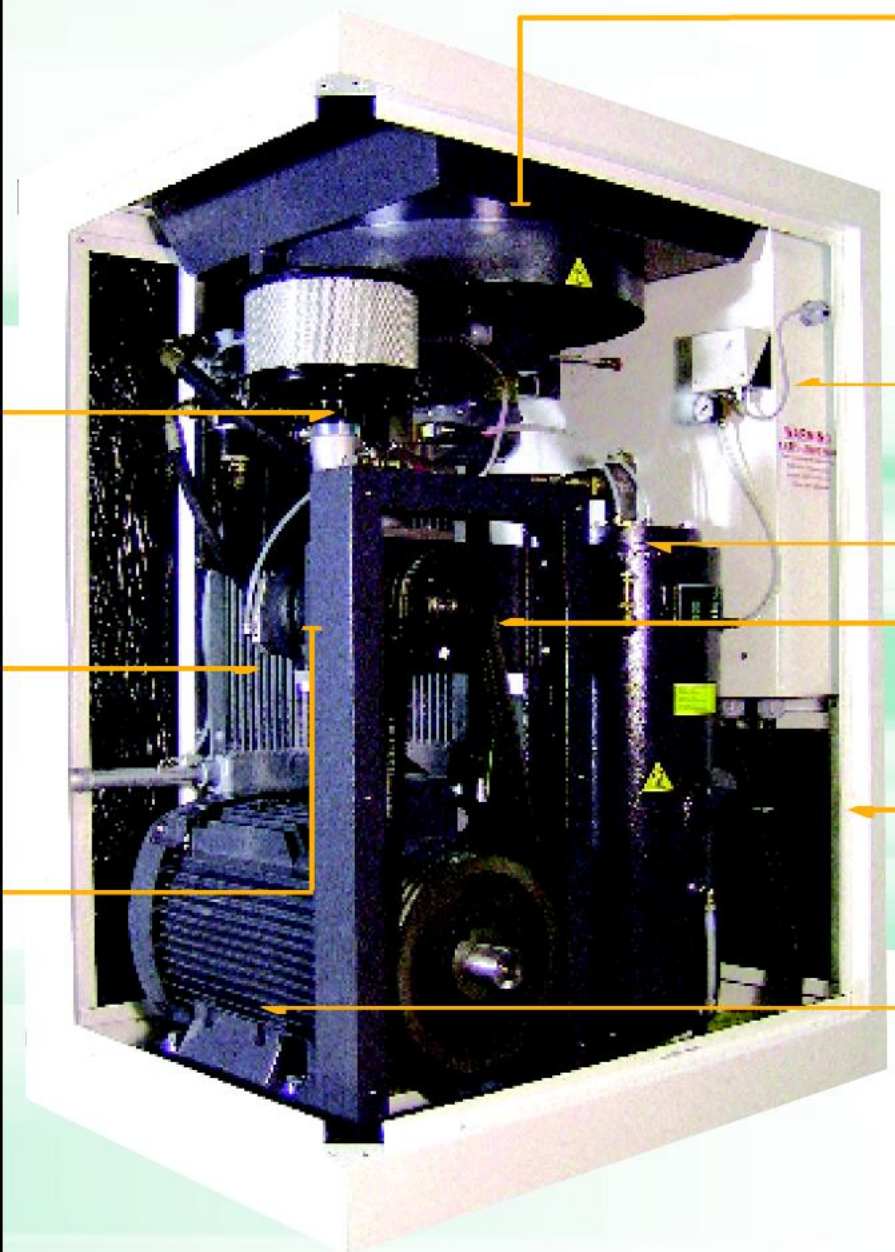


Airend

High efficiency airends supplied by the worlds first asymmetrical rotor airend. Efficient rotor profiles that offer reduced operational costs. The Fluidair airend design is based on a new rotor profile and lobe combination which is the result of long experience of screw compressor performance, new CAD methods and utilization of modern production technology.

Compressed Air Technology

Air taken into the system via the cooling fan ❶ is filtered through the front panel pre-filter and reaches the cassette type air suction filter ❷. The clean air moves on to the pneumatic controlled release valve ❸ and later reaches the screw component ❹ where the air is compressed. Oil is injected into the screw block during the compression process that is achieved by two asymmetrical profiled helical rotors. Oil prevents the two rotors from contacting each other. At the end of the compression phase air reaches the air/oil reclaimer ❺. The oil is separated from the air down to 2-4 mg/m^3 by a 3-phase separation technique. The air and the oil enter the final cooler ❻. The cooled compressed air is then supplied to the system. The separated oil returns to the system after filtration ❼.



Cooling Fan

Starter
High Quality electrical components chosen for long term reliability.

Efficient Oil Separation System

Driving System
Easily replaceable belts. Trouble-free belt tensioning system.

Compact Cabinet Design
Compact design that allows trouble free maintenance and access to every part of the compressor.

Electric Motor
415V/50hz/3ph IP54 TEFV motor models RS 4-55
415V/50hz/3ph IP23 ODP motor on all other models.

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RS 4 - 160

Standard Equipments

Screw compressor
415V/3ph/50hz IP 54 TEFV models RS 4-55.
415V/3ph/50hz IP 23 ODP models RS 75-160.
Motor drive system with belt-pulley.
Removable acoustic lined panels.
Rigid steel canopy.
Glass fibre pre-filter.
5 micron dry type air inlet filter.
Air/oil separator element with 3 ppm efficiency.
10 micron full flow oil filter.
Minimum pressure valve.
Pressure relief valve.
Star-Delta starter.
Fluidair Logic 10 electronic control panel RS 4-11
Fluidair Logic 20 electronic control panel RS 15-160.
Power on lamp.
Start/stop buttons.

Cooling System

High efficiency combi “Plate&Bar” type air/oil aftercooler.
Thermostatically controlled cooler mounted fan RS 15-160.
Cooling fan mounted on motor models RS 4-11.
Factory filled with 2000 hours oil.

Safety System

Warning for all shutdown.
Main motor overload shutdown.
Fan motor overload shutdown.*
Low voltage shutdown.*
Phase failure/reversal shutdown.
High airend discharge temperature shutdown.
Low airend discharge temperature shutdown.
High discharge pressure shutdown.
Pressure sensor fault shutdown.*
Temperature sensor fault shutdown.
High airend discharge temperature pre-warning.
Blocked air filter warning.
Service Interval warnings.
Pressure relief valve.
Emergency stop button.

** RS 4-11 FEATURES NOT AVAILABLE*

Compressed Air Technology

MODEL	BAR	CFM	M3/MIN	KW/HP
RS 4	8	22	0.63	4/5.5
	10	18	0.51	
	13	15	0.425	
RS 5	8	29	0.83	5.5/7.5
	10	23	0.65	
	13	17	0.5	
RS 7	8	39	1.1	7.5/10
	10	30	0.85	
	13	25	0.7	
RS 11	8	60	1.7	11/15
	10	48	1.35	
	13	39	1.1	
RS 15	8	92	2.6	15/20
	10	70	2.0	
	13	60	1.7	
RS 18	8	109	3.1	18.5/25
	10	88	2.5	
	13	74	2.1	
RS 22	8	127	3.6	22/30
	10	106	3.0	
	13	92	2.6	
RS 30	8	180	5.1	30/40
	10	152	4.3	
	13	124	3.5	

MODEL	BAR	CFM	M3/MIN	KW/HP
RS 37	8	218	6.2	37/50
	10	180	5.1	
	13	152	4.3	
RS 45	8	256	7.2	45/60
	10	211	6.0	
	13	187	5.3	
RS 55	8	339	9.6	55/75
	10	286	8.1	
	13	247	7.0	
RS 75	8	438	12.4	75/100
	10	381	10.8	
	13	317	9.0	
RS 90	8	582	16.5	90/125
	10	476	13.5	
	13	388	11.0	
RS 110	8	688	19.5	110/150
	10	600	17.0	
	13	494	14.0	
RS 132	8	819	23.2	132/180
	10	724	20.5	
	13	582	16.5	
RS 160	8	968	27.4	160/220
	10	847	24.0	
	13	706	20.0	

MODEL	L x W x H (mm)			WEIGHT (KG)	OUTLET SIZE (BSP)	NOISE LEVEL (dBA)
	LENGTH	WIDTH	HEIGHT			
RS 4	810	700	1180	225	3/4	72
RS 5	810	700	1180	250	3/4	72
RS 7	810	700	1180	275	3/4	72
RS 11	810	700	1180	300	3/4	72
RS 15	1000	800	1390	490	1	72
RS 18	1000	800	1390	510	1	72
RS 22	1000	800	1390	525	1	73
RS 30	1100	960	1690	620	1 1/4	74
RS 37	1100	960	1690	670	1 1/4	74
RS 45	1100	960	1690	855	1 1/4	75
RS 55	1410	1210	1890	1250	1 1/2	76
RS 75	1410	1210	1890	1450	1 1/2	78
RS 90	2150	1500	1990	1600	2	79
RS 110	2150	1500	1990	1600	2	79
RS 132	2500	1750	2000	2250	2 1/2	79
RS 160	2500	1750	2000	2300	2 1/2	79

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Compressed Air Technology

Rotary Screw Air Compressors

RS 4-11
RS 15-45
RS 55-75
RS 90-110
RS 132-160
RSV 15-250

Air Purification Products

FRD Refrigerant Dryers
FDD Desiccant Dryers
FP Purification Filters
FCC Condensate Cleaners
FZD Drains

Sales and Service

UK National Coverage
Maintenance & Service
Surveys & Installation

Research and Developement

High-Tech Products
Customer Focused Design
Specified Industry Requirements

10 Year Warranty Available

www.fluidair.co.uk

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