

RS SERIES

ROTARY SCREW AIR COMPRESSORS



**FIXED SPEED
ROTARY SCREW
AIR COMPRESSORS
15–300HP**



**SOME COMPANIES ARE FOUNDED ON HARD WORK.
OTHERS ARE FOUNDED ON IDEALS.**

FS-CURTIS WAS FOUNDED ON BOTH.

A HISTORY OF

1854

Curtis & Co. –
Empire Saw founded
in St. Louis, MO, USA

1857

Earned Agricultural
and Mechanical Fair
award for excellence
and quality

1876

Named Curtis
and Co.
Manufacturing

1897

Built first
reciprocating
air compressor
that later evolved
into the Master
Line Series

1914

Supported U.S.
Government efforts
by producing more
than 2 million Howitzer
shell forgings

1940

Designed and
developed
mobile oxygen
compressors to be
used in Aerospace
applications

1955

Merged with U.S.
Air Compressor
Company, Central
Petroleum Company,
Lewis Machine
Company



REAL-WORLD PEOPLE

When you're successful, we're successful.
That's why FS-Curtis listens.

Trust and dependability are the foundations of our past
and the fabric of our future, so you can count on being
treated with the personal touch you deserve.



More than 150 years ago, the FS-Curtis way of doing business was established through two key commitments: a dedication to building quality products and a dedication to responsive customer service.

Over the decades, the company and its products have evolved through innovation and new technologies. But those commitments to quality and service remain unchanged. Today, just as in 1854, FS-Curtis customers can depend on our products for reliable, long-term service. Equally as important, they can depend on getting the same from our people.

EXCELLENCE

1976

Merged with Toledo Tools as Curtis-Toledo Inc.

1979

Introduction of Challenge Air Series reciprocating air compressors

1995

Began manufacturing and assembling Rotary Screw compressors

2005

Expanded global market reach by joining forces with Fusheng Industrial

2006

U.S. Headquarters certified as ISO9001:2000 and ISO14001:2004

2010

Introduced next generation GSV Variable Speed Rotary Screw compressors



REAL-WORLD PRODUCTS

Take more than a century of experience building quality compressors, add in a staff that's listening to the needs of the market, and the result is a product lineup that's built for tough working conditions. No wonder so many customers around the world depend on FS-Curtis compressors day in and day out.

HIGH PERFORMANCE. LEGENDARY RELIABILITY.

SIMPLE AND RUGGED

Built to work. Built to last. That's the essence of the FS-Curtis RS Series rotary screw air compressors. Performing dependably in thousands of locations worldwide, RS Series compressors combine efficient operation with outstanding durability in the most demanding environments. The easy-access design lowers maintenance costs while the top-quality components deliver maximum uptime — all backed by the FS-Curtis reputation for rugged dependability.



RS SERIES FEATURES AT A GLANCE

QUALITY COMPONENTS

Built to the highest levels of performance and reliability.

- Superior durability handles even the most demanding applications
- High-efficiency separation and filtration for long life
- Generously sized components for the utmost in reliability and maximum uptime
- Rugged sub-frame for years of trouble-free operation

SUPERIOR PACKAGE DESIGN

Robust design ensures maximum uptime.

- Open design offers easy access to all components — no need to remove panels or brackets
- Rugged and leak-free design
- Easy servicing for low cost of ownership

LOW POWER CONSUMPTION

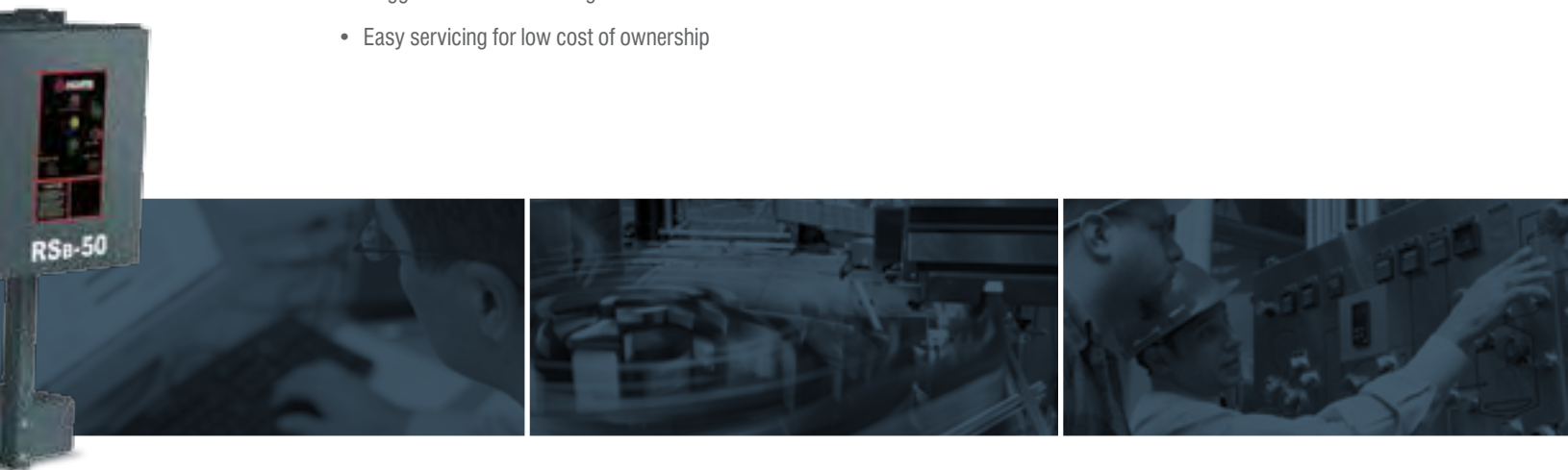
Designed for outstanding efficiency.

- Exclusive slow-speed airend profile results in higher air delivery while reducing power consumption
- Proven control technology for power savings and pressure stability in all demand loads
- NEMA Premium Efficiency motors
- Low internal pressure drop increases efficiency

CUSTOMER-FOCUSED ENGINEERING

Flexibility to meet your specific needs.

- Open design allows flexibility for meeting the needs of unique applications
- Large range of factory options to fit individual needs



**AMERICAN
CRAFTSMANSHIP
ST. LOUIS, MO USA**

RS Series compressors combine efficient operation with outstanding durability in the most demanding environments

BUILT RIGHT. BUILT SMART.

FS-Curtis' well-known reliability begins with the selection of quality components designed for long-term use under tough working conditions. The rigid base includes built-in forklift slots to reduce the risk of damage. Add in the meticulous selection of components, such as premium efficiency motors (up to 200 HP), generously sized coolers and airends, and it's easy to see why RS Series compressors have earned a reputation for durability and performance.



TAKE CONTROL OF YOUR APPLICATION



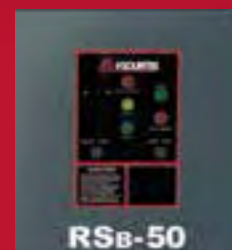
STANDARD CONTROLS

Display includes discharge and sump pressure gauges, temperature gauge, hour meter, dual high air/oil temperature shutdown switches with indicating light, start-stop buttons, optional timed dual control switch, load/unload switch, standby light, power on light and optional PSID indicators.



OPTIONAL AIRTRON CONTROLLER

Advanced, simple to use micro-processor incorporates a logic which monitors the parameters and working conditions of the compressor. The display includes discharge pressure, sump pressure, operating temperature and run/load hours. Service advisories include air filter, oil filter, oil and separator. Warning indicators include high separator differential pressure, high temperature and blocked air filter.



ELECTRICAL CONTROL ENCLOSURE

Conveniently located with hinged access door. Built-in across the line magnetic starters with thermo overload protection ensures long motor life. 120 volt control circuit with fused protection is provided for safe operation. Standard NEMA 1 control panel comes U.L. and C.U.L. listed with electrical components U.L. and C.S.A. approved. Wye-Delta Starters are standard on 125 through 300 HP.



PACKAGED TO PERFORM.

RS Series compressors are built for ease of installation and intuitive operation. The plug-and-play design allows for easy installation in a wide range of applications. The standard machine has no cabinet to work around, giving you easy access to all components. Features like long-life consumables, factory-filled synthetic oil, and an oil level sight glass help reduce maintenance time. The multi-stage oil separation system and the heavy-duty oil filter with bypass help ensure long-term operation.

MAXIMUM ENERGY SAVINGS.

Thanks to the timed dual control with modulation, proven energy savings and stable pressure come standard. During the load cycle, the compressor capacity automatically adjusts to meet system demand — so when the demand drops, so do your energy costs. The sump system automatically blows down to a low idle pressure and maintains extremely low unloaded horsepower. Unloaded timed shutdown, which turns the RS Series compressor completely off if no further air is required, also comes standard. Plus, for additional energy savings, you can add lead-lag/sequence control and a variable frequency drive.

MORE OPTIONS. MORE CHOICES.

The RS Series gives you the flexibility to configure your compressors to meet your needs. Optional features include:

- Quiet Enclosure
- VFD
- Water Cooled
- Alternative Voltages (200, 230, 460, 575V, 60Hz, 50Hz)
- Airtron™ Microprocessor Control
- TEFC Motors
- NEMA 4 Control Panel
- Y/D starter (standard for 125-300HP)
- Solid-State Soft Starter
- Pressure Differential Gauges for Air, Oil and Separator Filters
- Moisture Separator and Drain Trap



TECHNICAL DATA

MODEL	Capacity FAD* (CFM)				MOTOR	TANK	DIMENSIONS	WEIGHT (UNENCLOSED)
	100 psi	125 psi	150 psi	175 psi	HP	Gal.	L x W x H – In.	Lbs.
RSB-15B	69	59	51	45	15	-	60 x 41 x 39	940
RSB-15T	69	59	51	45	15	80	73 x 41 x 65	1175
RSB-20B	92	81	76	65	20	-	60 x 41 x 39	985
RSB-20T	92	81	76	65	20	120	77 x 41 x 69	1305
RSB-25B	111	104	92	84	25	-	60 x 41 x 39	1060
RSB-25T	111	104	92	84	25	120	77 x 41 x 69	1380
RSB-30B	138	129	115	102	30	-	60 x 41 x 39	1150
RSB-30T	138	129	115	102	30	120	77 x 41 x 69	1420
RSB-40B	189	173	150	140	40	-	72 x 53 x 44	1425
RSB-40T	189	173	150	140	40	200	80 x 53 x 81	1745
RSB-50B	220	204	186	170	50	-	72 x 53 x 44	1600
RSB-50T	220	204	186	170	50	200	80 x 53 x 81	1920
RS50D	240	222	195	165	50	-	72 x 53 x 46	1925
RS60D	280	275	236	212	60	-	76 x 48 x 60	2170
RS75D	357	330	312	260	75	-	84 x 54 x 60	2690
RS100D	457	438	374	337	100	-	84 x 54 x 60	2950
RS125D	600	570	516	440	125	-	84 x 66 x 68	4520
RS150D	760	706	583	546	150	-	84 x 66 x 68	4750
RS200D	960	860	770	680	200	-	90 x 80 x 75	5250
RS250D	1170	1073	970	890	250	-	112 x 80 x 78	8900
RS300D	1450	1298	1150	1090	300	-	112 x 80 x 78	9200

STANDARD FEATURES

- Heavy Duty Intake Filter
- High-Efficiency Airend
- NEMA Premium Efficiency Motors (up to 200 HP)
- Timed Dual Control with Modulation
- 120V Control Voltage
- Multi-Stage Oil Separation System
- Heavy-Duty Oil Filter with Bypass
- Oil Level Sight Glass
- Mixing Three-Way Oil Thermostat
- Side-by-Side Air Cooled Oil/Air Aftercooler
- Rigid Base with Forklift Slots
- Multi-Level Safety Systems
- Pressure Relief Valve
- Factory-Filled Synthetic Oil



* Capacity (FAD) measured in accordance with ISO 1217, Ed 3, Attachment C1996, Ref. conditions: Dry air, suction pressure 1 bar. Due to continuous product development at FS-Curtis, design and specifications are subject to change without notice.



EASY TO WORK WITH

Just as you get personal attention from FS-Curtis when selecting equipment, you're also supported worldwide by great people. You can count on the global FS-Curtis staff and representatives to listen to your needs and work with you to develop the solution that's best for your situation. Our people are committed to serving you well and FS-Curtis provides extensive training in the field and at our St. Louis headquarters to ensure that you have the support you need.

In addition, authorized FS-Curtis distributors use genuine FS-Curtis parts, lubricants and filter kits to maximize the service life of your equipment. And with a nationwide network of service centers, you don't need to worry about added downtime waiting for parts.

QUALITY PARTS MATTER

At FS-Curtis, quality is never compromised. That's why we control production using ISO 9001:2008 and ISO 14001:2004 standards, and it's also why we maintain a large inventory of replacement parts.

Using only genuine FS-Curtis replacement parts not only helps ensure continued reliable service of your equipment, but the large inventory also helps keep parts affordable and available. We're dedicated to maximizing your productivity, and that includes maximizing your uptime.

Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be a trusted name serving even more markets through our ever-growing global presence.

Distributed By:



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Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

ISO 9001

ISO 14001

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