

RS SERIES

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.

More than 165 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.

A HISTORY OF EXCELLENCE

1854 1857 1876 1897 1914 1940 1955 1976

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

Earned Agricultural and Mechanical Fair award for excellence and quality

Named Curtis and Co. Manufacturing

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

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

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

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

Merged with Toledo Tools as Curtis-Toledo Inc.

1979 1995 2005 2006 2010 2015 2016 2017

Introduction of Challenge Air Series reciprocating air compressors

Began manufacturing and assembling Rotary Screw Air compressors

Expanded global market reach by joining forces with Fusheng Industrial

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

Introduced next generation GSV Variable Speed Rotary Screw compressors

Introduced Nx series Fixed and Variable Speed Rotary Screw compressors

Nx Series named Plant Engineering's 2015 Product of the Year - Gold Award for Compressed Air

Nx Series claims Plant Engineering's Product of the Year - Gold Award 2nd year in a row

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 ICOMMAND-TOUCH CONTROLLER

With the premium iCommand-Touch, a full-color screen displays graphs which capture and track factual, real-time air usage by the hour, day, week and month. Historical data can be retrieved at any time at the touch of the screen. Continuously tracks pressure, temperature, air quantity and usage to easily diagnose and optimize your plant's air system. Features include: Simple Touchscreen Control, Intuitive Navigation, and ability to capture real-time and historical data trending.



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.

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



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)
- iCommand-Touch Controller
- 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
- Factory Filled with Food Grade Oil

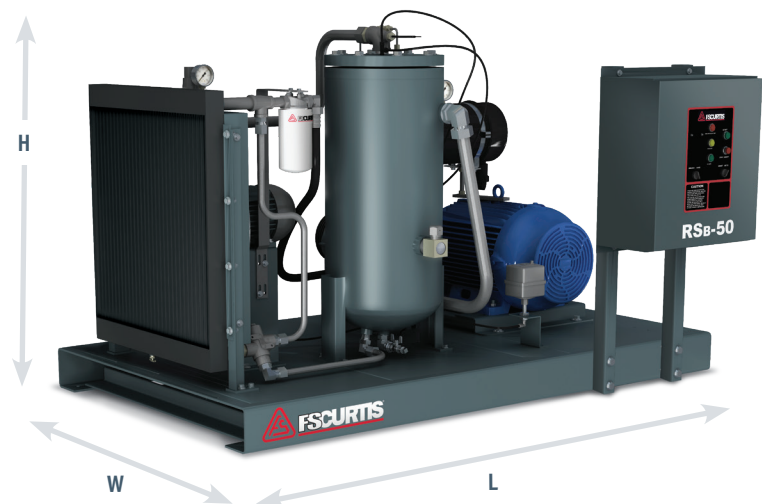


TECHNICAL DATA

MODEL	Capacity FAD* (CFM)				MOTOR HP	TANK Gal.	DIMENSIONS L x W x H - In.	WEIGHT (UNENCLOSED) Lbs.
	100 psi	125 psi	150 psi	175 psi				
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	73 x 41 x 65	1305
RSB-25B	111	101	92	84	25	-	60 x 41 x 39	1060
RSB-25T	111	101	92	84	25	120	77 x 41 x 69	1380
RSB-30B	135	125	113	101	30	-	60 x 41 x 39	1150
RSB-30T	135	125	113	101	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	228	212	188	174	50	-	72 x 42 x 46	1835
RS60D	295	272	227	200	60	-	76 x 48 x 60	2276
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	534	475	440	125	-	84 x 66 x 68	4520
RS150D	742	706	583	546	150	-	84 x 66 x 68	4750
RS200D	920	860	770	680	200	-	90 x 80 x 75	5250
RS250D	1170	1050	980	890	250	-	112 x 80 x 78	8900
RS300D	1350	1300	1150	1090	300	-	112 x 80 x 78	9200

STANDARD FEATURES

- Heavy Duty Intake Filter standard on RS50-300D
- 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.

CONTINUED COMMITMENT

A company history that dates back more than 165 years is a company history that, to us, is just the beginning. FS-Curtis is committed to offering a world-class portfolio of products. Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be the most trusted and dependable name in compressed air serving even more markets through our ever-growing global presence.

You can count on **FS-Curtis** to approach the next 165 years by staying true to the values and strengths that are appreciated by our customers today.

A WORLD OF DIFFERENCE

The FS-Curtis headquarters in St. Louis, Missouri, U.S.A. is the anchor of a larger global network. FS-Curtis builds quality products — and a quality reputation — at locations around the world.

In addition to our manufacturing and packaging locations, a large global network of sales agents and distributors ensures that sales and service support is available around the world, day in and day out.

ST. LOUIS, MO USA (HEADQUARTERS)

PUNE, INDIA | JUNDIAI, BRAZIL | OBERHAUSEN, GERMANY | SHANGHAI, CHINA | TAIPEI, TAIWAN | PITTSBURGH, PA USA (FS-ELLIOTT)
ZHONGSAN, CHINA | BEIJING, CHINA (FUSHENG) | ZHONGSAN, CHINA (FUSHENG) | HO CHI MINH CITY, VIETNAM (FUSHENG)



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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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