

# 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 160 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 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.

# 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

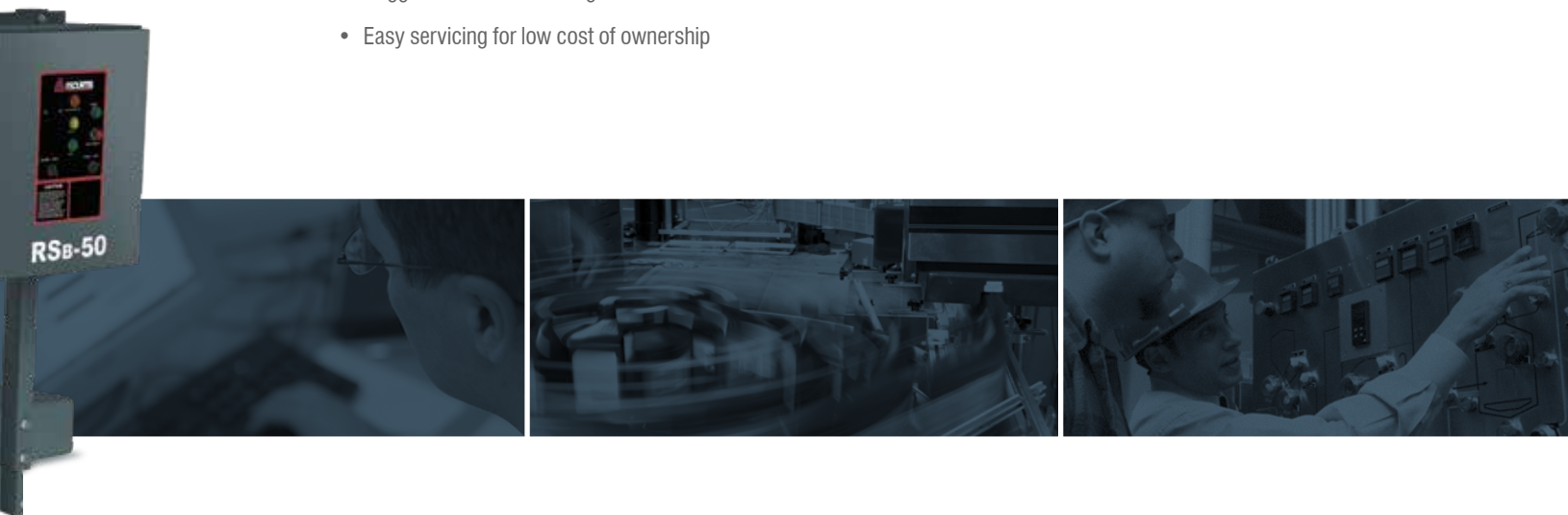
*Designed for outstanding efficiency.*

- 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)
- 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				
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
- 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 160 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 160 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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