

SE SERIES

ROTARY SCREW AIR COMPRESSORS



**FIXED SPEED
ROTARY SCREW
AIR COMPRESSORS
20-50HP**



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

FS-CURTIS WAS FOUNDED ON BOTH.

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.

A HISTORY OF EXCELLENCE

1854 1857 1876 1897 1914 1940 1955 1976 1979 1995 2005 2006 2010

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

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 Air
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 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.

“Trust and dependability are the foundations of our past and the fabric of our future.”

~ Brent Becker – President, FS-Curtis



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.

PROVEN PERFORMANCE

A TRUSTED INDUSTRY CLASSIC

SE Series air compressors from FS-Curtis are valued worldwide for their legendary reliability. Housed in a space-saving compact design and built for continuous, quiet operation, the SE Series delivers steady airflow with stable air pressure. The result is outstanding air quality with minimal oil carryover, giving you the performance you need backed by the durability you want.



AMERICAN CRAFTSMANSHIP
ST. LOUIS, MO USA

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

SE SERIES FEATURES AT A GLANCE

SUPERIOR PACKAGE DESIGN

Low cost of ownership.

- Space-saving compact design
- Exclusive FS-Curtis airends feature the latest rotor profile to maximize efficiency
- Simplifies maintenance through easy access to all components
- AIMS Plus™ controller
 - Reliable and easy to use
 - Sequencing of up to 8 compressors

eCOOL® TECHNOLOGY

Exclusive system protection.

- The ultimate in system protection and reliability
- Protects critical components from compressor-generated heat
- Extends component life and reduces downtime

QUALITY COMPONENTS

Built for 100% continuous duty.

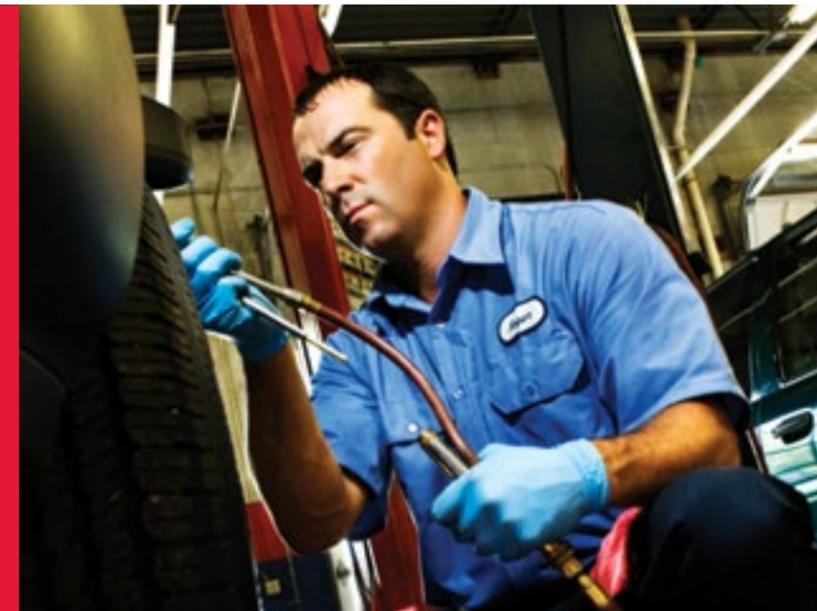
- Generously sized components for the utmost in reliability
- Constructed for years of reliable, trouble-free operation

dBA SHIELD NOISE REDUCTION

Designed for whisper-quiet operation.

- Extra-thick sound insulation reduces noise
- Can be installed in situations where a quiet setting is important





eCOOL[®] TECHNOLOGY A COOL INNOVATION

Compressors generate heat. FS-Curtis' exclusive eCOOL technology provides protection from heat. By combining smart compressor layout with intelligent component selection, eCOOL technology maximizes cooling airflow for greater energy efficiency, improved reliability and extended service life.

EXTENDED SERVICE LIFE

eCool technology reduces thermal stress and increases service life up to 50% longer for motors and electrical components and up to 30-50% longer for bearings, hoses and seals.



eCool technology maximizes cooling airflow for greater energy efficiency, improved reliability and extended service life.

dBa SHIELD NOISE REDUCTION — A SOUND INVESTMENT

Noisy compressors can limit your installation options. FS-Curtis has the solution. The SE Series combines a special fan design, airflow baffling and sound insulation for extremely quiet operation. It's so quiet, you can install the unit closer to where you want to use it.

SUPERIOR PACKAGE DESIGN

Only FS-Curtis can pack so much power and performance into a space-saving, easy-to-install design. The continuous-duty control is a true workhorse. The inlet and discharge valve assemblies integrate multiple functions, reducing connections by up to 90 percent. Braided stainless-steel hose assemblies feature hydraulic fittings and bonded o-ring seals for reusable service.

AUTOMATIC BELT-TENSIONING DEVICE

Cut maintenance time and costs. Rather than a fixed belt-tensioning device, SE Series compressors have a hinged drive motor platform engineered to harness gravity and direction of rotation to ensure optimal belt tension under all operating conditions, greatly reducing maintenance time. Additional efficiency comes from the positioning of the premium efficiency TEFC motor to provide variable belt tension for efficient operation during changing conditions.

OPTIONAL DRYER

With virtually no installation cost, you can increase air quality and gain peace of mind with an FS-Curtis dryer. By removing moisture and oil, a dryer protects your system and helps maintain production quality. FS-Curtis has a complete offering of compressed air treatment products and solutions to keep your production high and your air system dry.



QUALITY COMPONENTS ENSURE LONG-TERM RELIABILITY

The famous FS-Curtis attention to detail shines through with features like a heavy-duty powder-coated enclosure and washable cabinet filters to protect internal components. Cleanable inlet filtration panels pre-clean the incoming air stream for lower operating costs, greater compressor reliability and higher air quality. Energy-efficient NEMA Premium Efficient motors ensure long operating life. Plus, the deep pleats on our filters provide 200% more surface area than typical filter elements to remove finer contaminants with less flow resistance. That means air and lubrication circulation systems stay cleaner, last longer and require less energy. A thermostatic oil controller with an integrated FS-Curtis oil filter further ensures that only cool, clean air is compressed.



AIR INTAKE FILTER

This is your first line of defense, so quality matters. Our filter is rated at 3 micron absolute, not 5 or 10 like some competitors. Heavy-duty construction offers internal dirt purge at shutdown, and the air inlet port is optimally positioned to receive the coolest air as it enters the cabinet.



OIL FILTER

The FS-Curtis oil filter is 33% more efficient than most competitors. It features deep pleating for long life and simply spins on for fast, easy replacement.



AIR/OIL SEPARATOR

Here again, FS-Curtis is 33% more efficient than most competitors. Deep-pleated construction and inside-to-outside flow paths provide excellent oil coalescence, resulting in 3ppm or less oil carryover and low pressure drop before the aftercooler. That translates to lower make-up oil costs and higher-quality compressed air.



AIMS PLUS™ CONTROLLER

With a large, easy-to-read display, this user-friendly control interface ensures easy operation. The informative menus guide you through settings, and service timers let you know when it's time for maintenance. The warning/alarm and shutdown give you dual-level protection. Additional features ranging from a real-time clock and auto startup/shutdown to frost protection and emergency stop help assure both efficient performance and system protection.

TECHNICAL DATA

BASE MOUNTED

MODEL	CAPACITY (SCFM)				MOTOR HP	SOUND LEVEL dBA	DIMENSIONS L x W x H - In.	WEIGHT Lbs.
	100 psig	125 psig	150 psig	175 psig				
SE-20	91	81	72	62	20	72	44.5 x 33.5 x 54.7	1,254
SE-25	108	100	90	84	25			1,298
SE-30	129	116	101	94	30	73		1,342
SE-40	188	165	148	139	40		54.9 x 39.4 x 61.2	1,760
SE-50	222	205	182	170	50	75		1,936

COMPRESSOR PACK

Full package includes 120 gallon receiver tank, filter and refrigerated air drier

MODEL	DIMENSIONS	WEIGHT
	L x W x H - In.	Lbs.
SE-20	76 x 45 x 60	1,754
SE-25		1,823
SE-30		1,892

STANDARD FEATURES

- AIMS Plus™ alphanumeric logic controller
- Laminated oil-proof sound insulation
- Three keyed side panels
- Washable cabinet pre-filtration panels
- Powder-coat painted enclosure
- Heavy-duty air intake filter
- 120VAC control voltage transformer & 24vdc power supply
- Auto-tensioning belt drive system
- Spin-on oil filter and air/oil separator
- TEFC NEMA Premium Efficiency Motor
- Wye-Delta motor starter
- Multi-function inlet valve
- Multi-function discharge valve
- Multi-tier vibration isolators (chassis-to-enclosure and enclosure-to-floor)
- High-performance synthetic lubricant
- Air-cooled oil cooler and aftercooler

OPTIONAL FEATURES AND EQUIPMENT

- Ultrapack includes 120 gallon receive tank, filter and refrigerated air dryer
- Food-grade oil
- Moisture separator with automatic drain
- Vertical remote 120, 200, 240, 400 gallon air receiver tanks
- Automatic, timed solenoid and zero air loss condensate drains
- Air compressor energy management and master control systems
 - Refrigerated air dryers
 - Dew points to +38°F desiccant air dryers
 - Dew points to -100°F FS-Curtis energy management systems
 - Filters — particulate and coalescing oil/water separators



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.



CURTIS-TOLEDO® , INC.

1905 KIENLEN AVENUE | ST. LOUIS, MO 63133

314-383-1300 OR 800-925-5431

WWW.FSCURTIS.COM | INFO@FSCURTIS.COM

SE 20-50 LITERATURE: FORM NO. SE0113R1
Improvements and research are continuous at
FS-Curtis. Specifications may change without
notice.

ISO 9001
ISO 14001

© 2013 CURTIS-TOLEDO, INC.