FSCURTIS

ECO-ROTARY



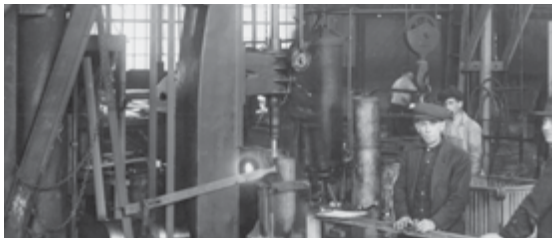
class zero oil-free

ISO 8573-1

VARIABLE SPEED OIL-FREE ROTARY SCREW AIR COMPRESSOR

20 - 100 HP







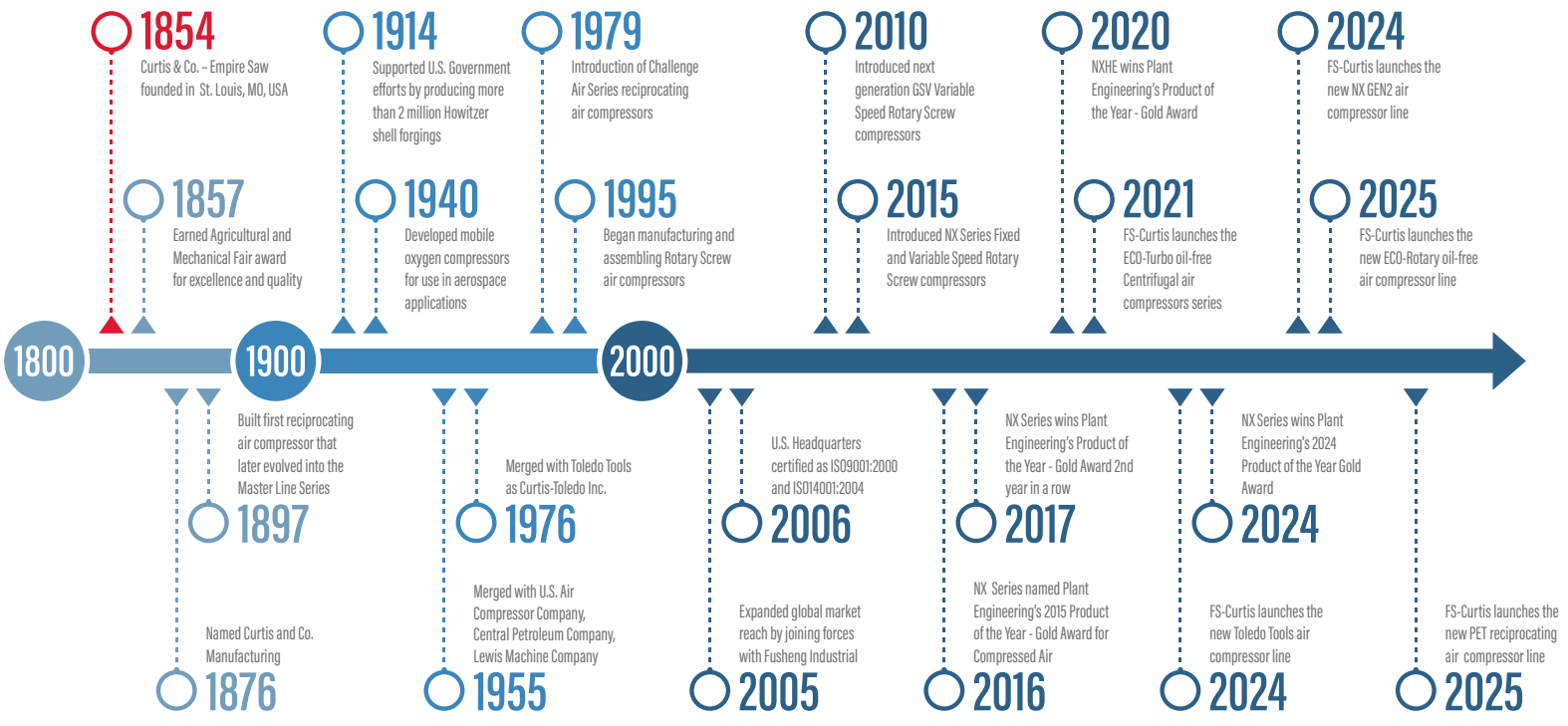
SOME COMPANIES ARE FOUNDED ON HARD WORK. OTHERS ARE FOUNDED ON IDEALS.

FS-CURTIS WAS FOUNDED ON BOTH.

More than 170 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



ECO-ROTARY SERIES

FEATURES AT A GLANCE

Cleaner Air, Built for the Future

- Easy access to maintenance items and all components.
- Twin-screw, single-stage, water-injected airend with compression temperatures below 140°F (60°C) for efficient, nearly isothermal performance.
- Integrated dryer doubles as a water source for the airend and dries compressed air, ensuring long airend life and minimal need for downstream air treatment.
- Sacrificial anode balances water minerals, similar to marine systems, for extended airend reliability.
- Variable speed drive ensures consistent and reliable pressure.
- Direct drive with slow-speed operation for durability and efficiency.

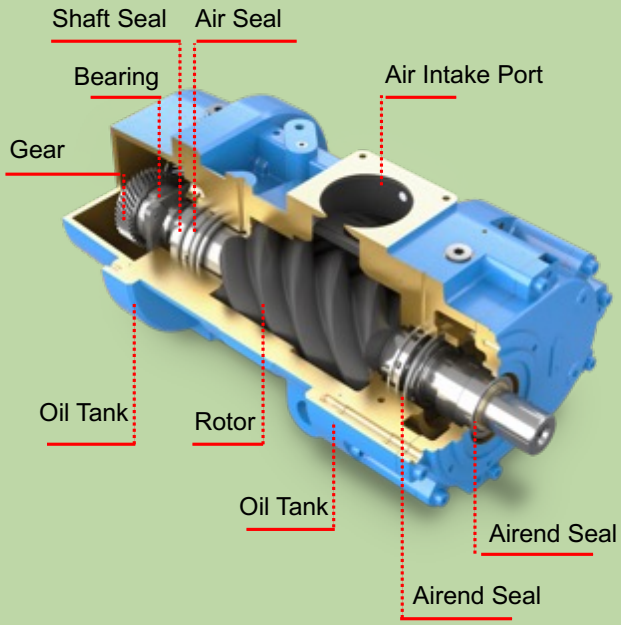


A Long Haul Compressor

- Fewer moving parts and heat generated than competitive units.
- No loss of performance as the unit ages.
- Lower maintenance time and costs for the entire life cycle.
- Reduced downtime.

Integrated Dryer

- The integrated dryers serves 2 purposes, produces fresh water for the air end and dries the compressed air.
- Delivers ~40°F pressure dew point. Typically no need for further air treatment downstream.
- The refrigerant dryer is controlled directly by iCommand-Touch+ controller

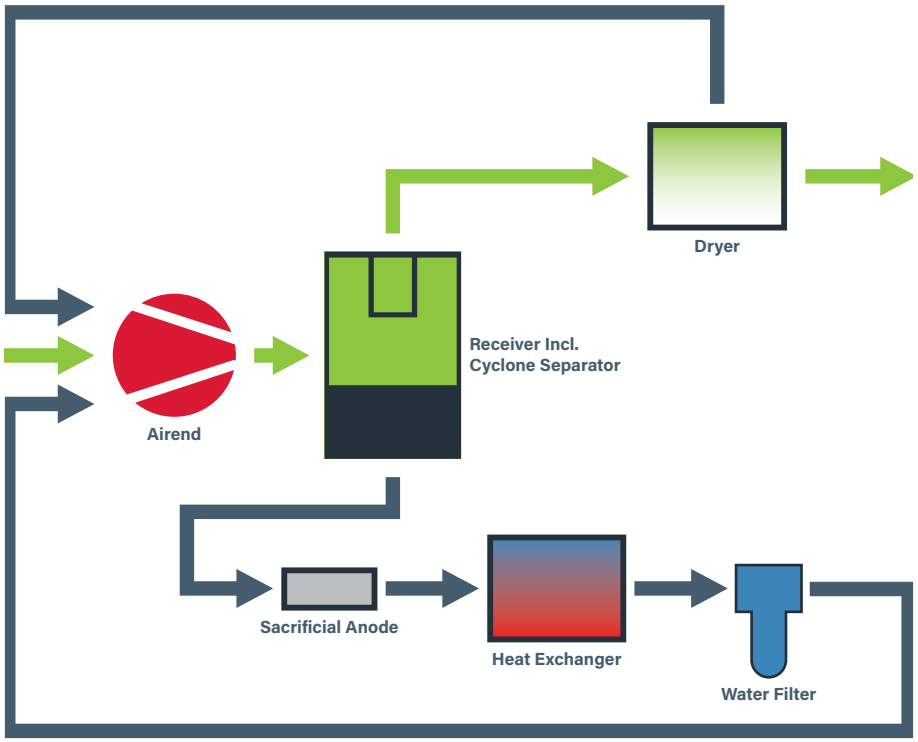


AIREND

- Precision-Engineered Airend
- Patented FS-Curtis airend with innovative sealing technology for superior performance.
- Non-contact rotor design enabled by advanced AGMA 14-grade timing gears.
- Injected water efficiently removes compression heat for optimal operation.
- Vacuum chambers prevent lubricant from mixing with water, ensuring purity.
- Dual mechanical seals enhance reliability and durability.

ECO-ROTARY SERIES
TECHNOLOGY

Unveil the future of air purity with FS-Curtis' groundbreaking oil-free rotary screw air compressor. Delivering class zero oil-free air, our revolutionary technology guarantees absolute purity, eliminating contamination risks and setting the bar for industries where pristine air is crucial. From pharmaceuticals to food and beverage, electronics to textiles, FS-Curtis delivers unmatched reliability and paves the way for a cleaner, sustainable tomorrow. Trust in our legacy of innovation and join us in crafting a greener future.



AIR-FLOW PROCESS

- Air enters the compression chamber through the intake filter, mixing with water during compression.
- A cyclone separator removes water from the compressed air.
- The 100% water-saturated compressed air passes through a pre-filter before entering the refrigerated dryer.
- The refrigerated dryer lowers the dew point, creating condensate.
- Compressed air exits the dryer via an after-filter.
- The 100% oil-free compressed air leaves the system with a pressure dew point (PDP) of ≥ 38°F and a ΔT of approximately 45°F.

WATER-FLOW PROCESS

- Water is filtered and enters the compression chamber, where it mixes with ambient air.
- The air/water mixture flows into the stainless-steel separator receiver.
- A cyclone separator removes water from the compressed air.
- Separated water is enriched with minerals using a sacrificial anode.
- The water is cooled in the heat exchanger for efficient operation.
- Suspended matter is filtered out, and the water is re-injected into the compression chamber.
- Condensate is drained directly without the need for additional treatment.

ECO-ROTARY SERIES
iCOMMAND-TOUCH+



The next generation iCommand-Touch+ controller delivers improved flexibility and functionality with intuitive navigation and simple touchscreen control. The 7" HMI full-color screen displays real time information about current compressor operating status and puts complete compressor control at your fingertips!

CONTROL YOUR COMPRESSOR, **DON'T LET IT CONTROL YOU.**

Designed to help you optimize performance to save energy, limit downtime, and save YOU money!

- The full-color, 7" HMI touchscreen is large, easy to read and navigate and features improved display resolution.
- Reduce troubleshooting time by accessing the service menu through a stored permanent password...no more calling the factory for an access code!
- Controller data and set points can easily be uploaded by USB connection directly on the iCommand-Touch+ controller...no more cumbersome SD card!
- The ability to view all VFD Drive data directly from the iCommand-Touch+ screen speeds troubleshooting and issue resolution.

Expanded Functionality

- The ability to view all VFD Drive data directly from the iCommand-Touch+ screen speeds troubleshooting and issue resolution.
- Four (4) RS485 ports increases your ability to connect to higher level communications
- Eight (8) analog inputs and eight (8) analog outputs brings flexibility and the ability to trigger critical functions in your compressed air system based on air compressor status

Trending & Graphing Capabilities

- Real time and historical data trending keeps your finger on the pulse of your entire compressed air system
- Continuously tracks pressure, temperature, flow, and usage to easily diagnose and optimize your compressed air system
- Graphing can easily be downloaded to a USB thumb drive for historical records, troubleshooting and quality control measures

Important Features

- Auto restart (after power outage)
- Restart delay
- Remote on/off
- Remote loaded/unloaded
- Operating mode selection
- Dew Point monitoring
- Maximum Dew point warning
- Minimum Dew point warning
- Lead/Lag and sequence control of up to 6 FS-Curtis air compressors
- Calendar/time-based system operating schedule



ECO-ROTARY SERIES
INDUSTRY APPLICATIONS

Why Choose FS-Curtis Class Zero Oil-Free Air Compressors?

FS-Curtis has long been renowned for crafting the most trusted and dependable industrial-duty compressors on the market. Our latest innovation, the class zero oil-free rotary screw air compressor, ECO-Rotary series, is no exception. Designed with unmatched precision, this compressor ensures zero contamination, making it vital for industries where clean, dry air is crucial.

Uncompromised Purity

Achieve the highest level of air purity with our class zero oil-free technology, eliminating any risk of oil contamination.

Unrivaled Reliability

Built to last, our compressors offer exceptional durability, backed by FS-Curtis' legacy of rugged, reliable, industrial-duty performance.

Versatile Applications

Whether it's pharmaceuticals, food and beverage, electronics, or textiles, our compressor meets the diverse needs of essential industries.

Expert Support

Our professional engineering staff and factory-trained distributor network are dedicated to providing comprehensive support and solutions, ensuring you receive the very best in compressed air equipment.

Join FS-Curtis in pioneering a cleaner, greener future.









ECO-ROTARY SERIES

TECHNICAL DATA

MODEL	MOTOR (kW / HP)	COOLING	CAPACITY (ACFM)				SOUND LEVEL (dBA)	DIMENSIONS (L x W x H in.)	WEIGHT (lbs.)
			100	125	150	175			
ER15	15 / 20	air-cooled	77	74	67	58	72	75 x 43 x 69	2138
ER22	22 / 30	air-cooled	120	109	103	92	72	75 x 43 x 69	2204
ER30	30 / 40	air-cooled	165	140	129	114	72	83 x 47 x 73	2954
ER30	30 / 40	water-cooled						98 x 47 x 55	2579
ER37	37 / 50	air-cooled	204	177	165	144	72	83 x 47 x 73	3086
ER37	37 / 50	water-cooled						98 x 47 x 55	2645
ER55	55 / 75	air-cooled	335	283	261	218	78	98 x 59 x 83	6062
ER55	55 / 75	water-cooled					75	114 x 55 x 59	3747
ER75	75 / 100	air-cooled	434	394	325	295	78	98 x 59 x 83	6172
ER75	75 / 100	water-cooled					75	114 x 55 x 59	4078



CONTINUED COMMITMENT



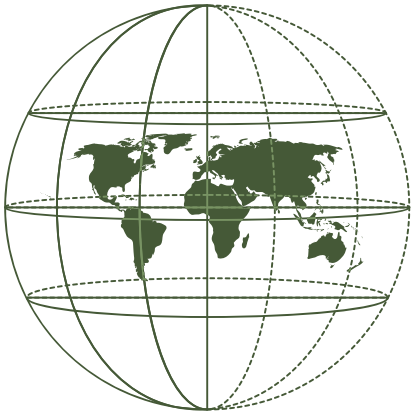
A company history that dates 170 years is a company history that, to us, is just the beginning. FS-Curtis is committed to offering a world-class portfolio of products. Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be the most trusted and dependable name in compressed air serving even more markets through our ever-growing global presence.

You can count on **FS-Curtis** to approach the next 170 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)

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PITTSBURGH, PA USA (FS-ELLIOTT) | KONGEN, GERMANY (ALMIG)
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bsi ISO 9001 Quality Management Systems CERTIFIED

CAGI Compressed Air & Gas Institute PERFORMANCE VERIFICATION PROGRAM

COMPRESSED AIR CHALLENGE SPONSOR

CORPLITERATURE: FSL-ERBROCHUREREV2
Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

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