



FS CURTIS



**FIXED AND VARIABLE SPEED
ROTARY SCREW AIR COMPRESSORS
90 - 260 kW**

SEIRIES NX160



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

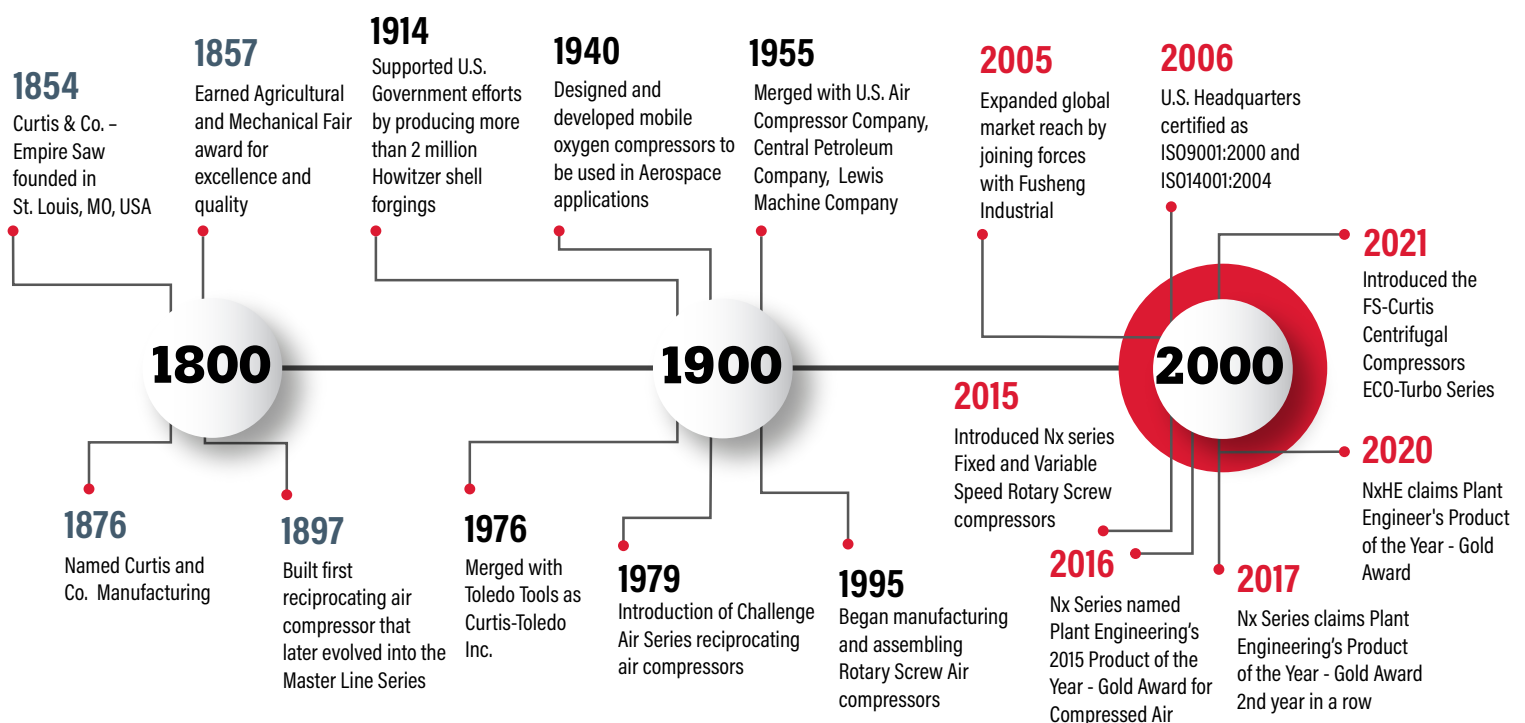
FS-CURTIS WAS FOUNDED ON BOTH.

One-hundred and seventy 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



SETTING THE STANDARD FOR ENERGY EFFICIENCY WITH

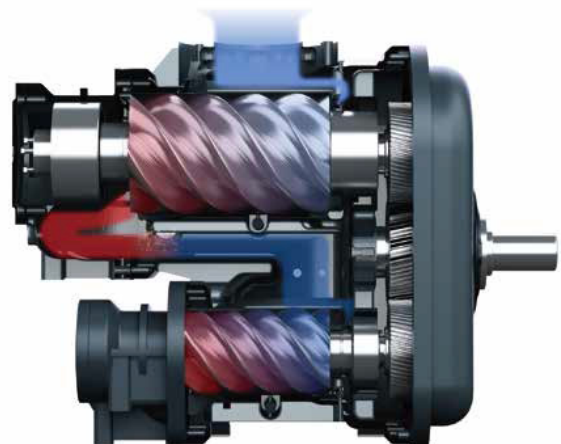
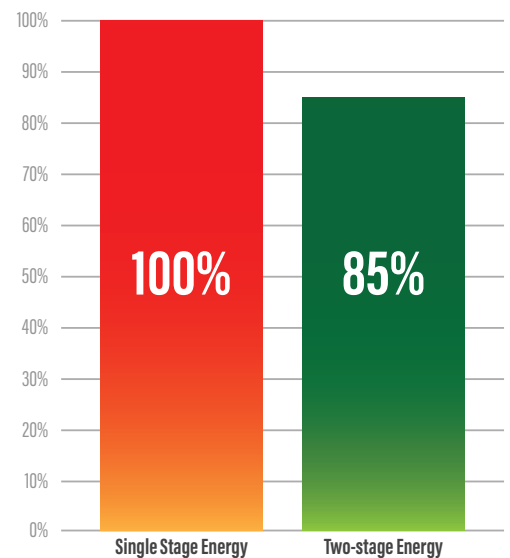
TWO-STAGE COMPRESSION

The FS-Curtis NxHE Series two-stage rotary screw air compressors are heavily relied upon in industry for their legendary reliability and highly energy efficient operation. NxHE splits the compression process into two stages and removes heat of compression in between. The result is less input horsepower required to generate the same flow as single stage. Splitting the compression process over two stages also reduces the compression ratio, which results in lower thrust loads on the bearings and longer air end life. NxHE two-stage compressors offer unparalleled energy efficiency in a reliable long life industrial air compressor - making it ideal for high flow base load industrial applications.

- More acfm per horsepower than single stage equals power savings, and the ability to select a smaller compressor
- Lower specific power / higher Isentropic Efficiency than single stage equals power savings
- Two-stage air end life is considerably longer than its single stage counterpart due to reduced thrust loads on bearings (lower compression ratio in each stage)
- Over / Under design allows for inter-stage cooling which removes heat of compression and improves overall efficiency
- Independent bearing lubrication system delivers oil to critical wear points to extend air end life



Compared to same size single stage, the NxHE two-stage compressor delivers up to 15% more flow, which means you can select a smaller two-stage NxHE to achieve up to 15% power savings!



NX SERIES

FEATURES AT A GLANCE

dBa SHIELD NOISE REDUCTION

Designed for quiet operation.

- Centrifugal cooling fan and compartmentalized package air flow make for extremely smooth and quiet operation
- Extra thick, laminated oil-proof sound insulation greatly reduces noise

eCOOL® TECHNOLOGY

The ultimate in system protection and reliability.

- Protects critical components from compressor-generated heat
- Intelligent component layout optimizes cooling air flow through the package and improves overall efficiency and reliability
- Extends component life and reduces downtime

QUALITY COMPONENTS

Built to the highest levels of dependability and reliability.

- Exclusive FS-Curtis air end utilizes precision cut rotor profiles to maximize efficiency.
- Premium efficiency TEFC (IP55, Class F) main motor protects against dust ingress and high operating temperatures, prolonging the life of the motor.
- Components are generously sized to reduce pressure drop throughout the package, increasing overall efficiency

SUPERIOR PACKAGE DESIGN

Designed for low cost of ownership and sustainable reliability.

- Pulsation-free compressed air
- 100% continuous duty
- Easy to maintain
- Controls
 - Load/Unload
 - Modulation
 - Variable Speed (8kW+)
- Energy efficiency at full load delivers more air for the money in a smaller footprint

DEMANDSMART ENERGY MANAGEMENT SYSTEM

The ideal combination of variable speed drive, controller, and drivetrain

- Greatly reduces energy consumption at part load
- Reduces lifecycle costs by limiting energy consumption

iCOMMAND TOUCH+ CONTROLLER

- Intuitive and easy to use
- 7" HMI full color touchscreen is intuitive and easy to use
- Expanded functionality for integration with higher level communication systems
- Trending and graphing capabilities
- Precisely controls and protects your compressor



THE NEXT GENERATION OF

NX GEN

EXTENDED WARRANTY COVERAGE

Extended Warranty Program

All Nx products are backed by an industry leading warranty:

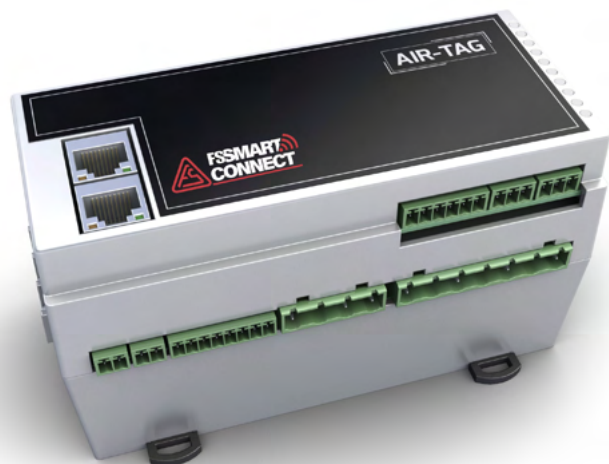
- Five-year major components warranty
- Ten-year airend warranty

Just register the machine online, use only FS-Curtis Genuine Parts and Lubricants per the required maintenance schedule, and you will have peace of mind knowing that your machine is backed by the NxGEN Warranty.

FS-SMARTCONNECT

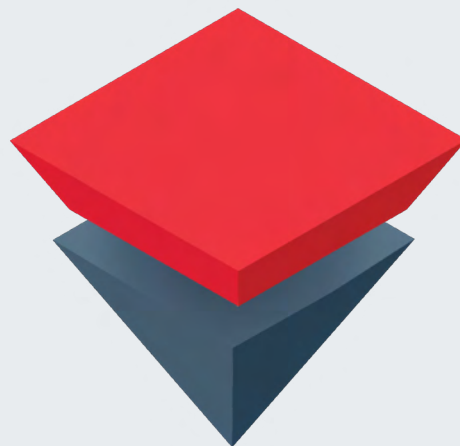
FS-SmartConnect is an intuitive IoT monitoring feature that continuously captures live data from the compressor. With FS-SmartConnect you can ensure optimized performance, efficiency and compressor health. The data collected from the compressor is sent to the cloud, where an online dashboard provides access to all connected devices. This cloud access offers around-the-clock monitoring, ensuring the health of your compressed air assets in real time!

- Improve production efficiency and maximize uptime
- Achieve sustainable reliability
- Monitor the health of your compressed air assets in real time
- Partner with your service provider for peace of mind
- Customer access to the cloud with customized alerts



CHOOSE YOUR SERVICE LEVEL

With FS-SmartConnect, you have two service platforms to choose from depending on the level of detailed reporting needed.



FS-SMARTCONNECT PREMIUM

- Customer Access to the Cloud
- Customized Alerts
- FS-Curtis Technical Support
- Energy Assessment of Compressor Unit(s)
- Detailed Compressor Performance Report

FS-SMARTCONNECT INSIGHT

- Customer Access to the Cloud
- Customized Alerts
- FS-Curtis Technical Support

NX 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



NX SERIES

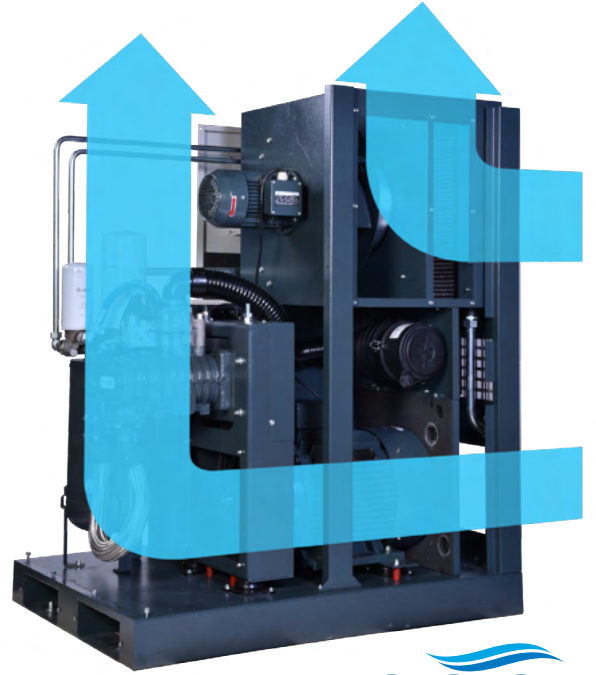
eCOOL[®] TECHNOLOGY

A COOL INNOVATION

Compressors generate heat. FS-Curtis' exclusive eCOOL technology provides protection from heat and reduces thermal stress.

By combining smart compressor layout with intelligent component selection, eCool technology maximizes cooling airflow for greater energy efficiency and improved reliability. eCool extends the life of motors, electrical components, bearings, hoses, and seals by up to 30%.

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



eCOOL[®]
TECHNOLOGY



NX SERIES

DEMANDSMART SYSTEM™

ENERGY SAVINGS ARE SMART SAVINGS

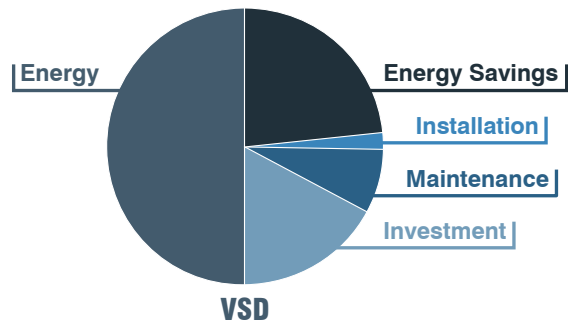
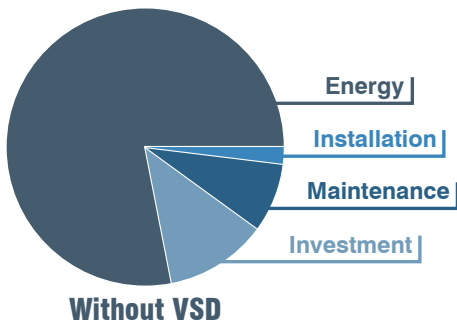
Take control of your energy savings with our DemandSmart Energy Management System! The combination of iCommandTouch+ controller, variable speed drive, and precision cut air end provides superior part load energy efficiency. This innovative design maximizes energy savings and reduces overall operating costs.

DemandSmart
ENERGY MANAGEMENT SYSTEM

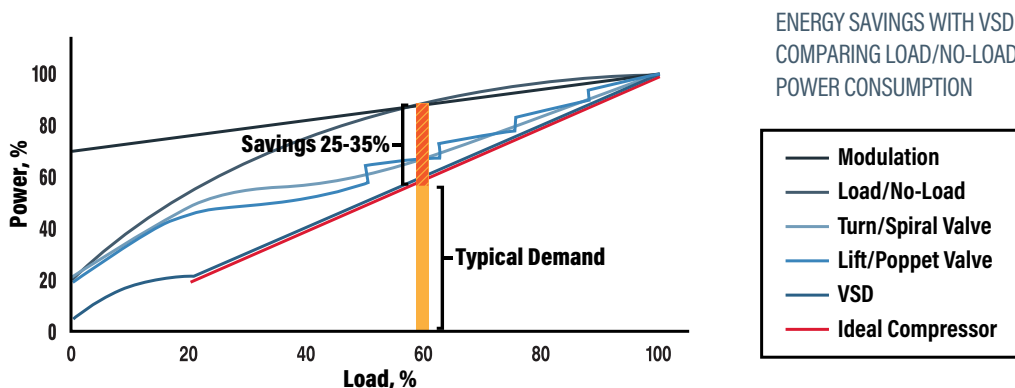
INTELLIGENT VARIABLE SPEED DRIVE

The DemandSmart Energy Management System matches power consumption to plant demand by adjusting the speed of the main motor based on changes in compressed air usage. When the demand for compressed air in your plant decreases/increases, the main motor speed decreases/increases to match power consumption to demand. Plant pressure is held within ± 1 psig and the result is the lowest possible operating costs!

Nx SERIES WITH VSD LIFE CYCLE COSTS OVER 5 YEARS



- The DemandSmart Energy Management System is anchored by a time proven and robust direct coupled drive arrangement
- Main motor speed varies to match plant compressed air demand, thereby matching power consumption to compressed air requirements at any given moment
- Part load power consumption is greatly reduced compared to other common control methods such as load/unload and modulation
- System air quality is enhanced with the DemandSmart Energy Management System by stabilizing your plant pressure to within ± 1 psig, virtually eliminating artificial demand
- Built in DC choke protects against harmonic disturbances and eliminates the need to source additional power corrective devices



NX SERIES

TECHNICAL DATA

FIXED SPEED

MODEL	MOTOR	CAPACITY FAD (CFM)				SOUND LEVEL	DIMENSIONS	WEIGHT
	kW / HP	100 psi	125 psi	150 psi	175 psi	dB(A)	L x W x H in.	Lbs.
NxHE90	90 / 125	697	618	556	504	80	128.0 x 75.6 x 71.1	10538
NxHE110	110 / 150	825	738	663	611	80	128.0 x 75.6 x 71.1	10538
NxHE132	132 / 175	983	883	794	738	80	128.0 x 75.6 x 71.1	10582
NxHE160	160 / 200	1193	1075	966	895	83	137.8 x 83.5 x 78.7	13228
NxHE185	185 / 250	1349	1217	1095	983	83	137.8 x 83.5 x 78.7	13514
NxHE200	200 / 270	1501	1342	1183	1066	85	153.5 x 87.4 x 82.7	16094
NxHE220	220 / 300	1653	1473	1311	1177	85	153.5 x 87.4 x 82.7	16623
NxHE260	260 / 350	1891	1708	1535	1377	85	153.5 x 87.4 x 82.7	16799

VARIABLE SPEED

MODEL	MOTOR	CAPACITY FAD (CFM)			SOUND LEVEL	DIMENSIONS	WEIGHT
	kW / HP	100 psi	125 psi	150 psi	dB(A)	L x W x H in.	Lbs.
NxHEV90	90 / 125	653-201	600-200	514-196	80	128.0 X 70.9 X 71.1	10538
NxHEV110	110 / 150	851-216	787-214	679-210	80	128.0 X 70.9 X 71.1	10691
NxHEV132	132 / 175	954-293	883-292	774-286	80	128.0 X 70.9 X 71.1	10582
NxHEV160	160 / 200	1219-454	1130-445	1006-437	83	137.8 x 83.5 x 78.7	13228
NxHEV185	185 / 250	1395-458	1321-478	1171-469	83	137.8 x 83.5 x 78.7	13514
NxHEV200	200 / 270	1519-461	1413-465	1237-455	85	153.5 x 87.4 x 82.7	16094
NxHEV220	220 / 300	1678-530	1572-547	1379-537	85	153.5 x 87.4 x 82.7	16623
NxHEV260	260 / 350	1918-540	1784-545	1566-534	85	153.5 x 87.4 x 82.7	16799



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.

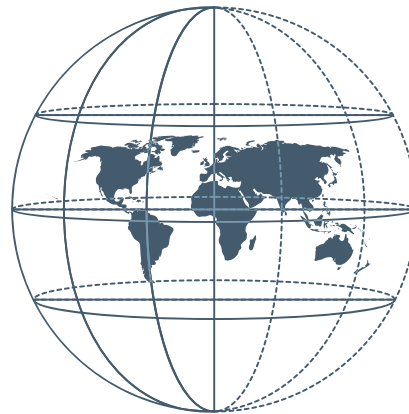


You can count on **FS-Curtis** to approach the next 170 years by staying true to the values and strengths that are appreciated by our customers today.

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.



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CORPLITERATURE: FSL-NXHE 90-260FLBREV2
Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

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