



# FS CURTIS



**eCOOL™**  
TECHNOLOGY



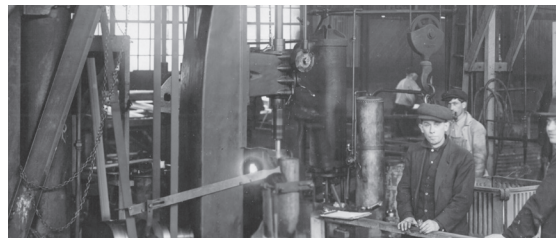
**DIRECT DRIVE, FIXED & VARIABLE SPEED  
ROTARY SCREW AIR COMPRESSORS  
15-200 KW**

# NX SERIES



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

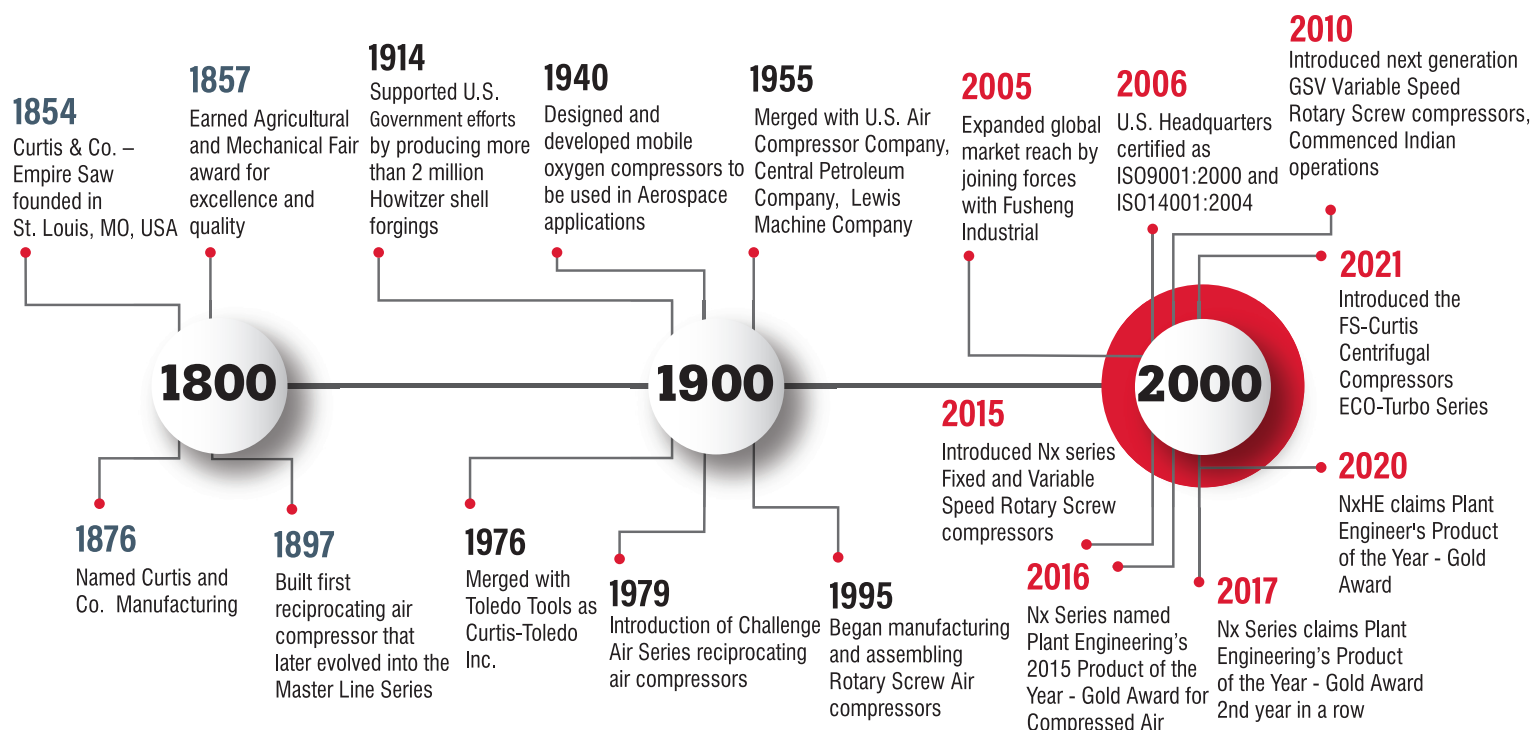
**FS-CURTIS WAS  
FOUNDED ON BOTH.**



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



TRUSTED INDUSTRY

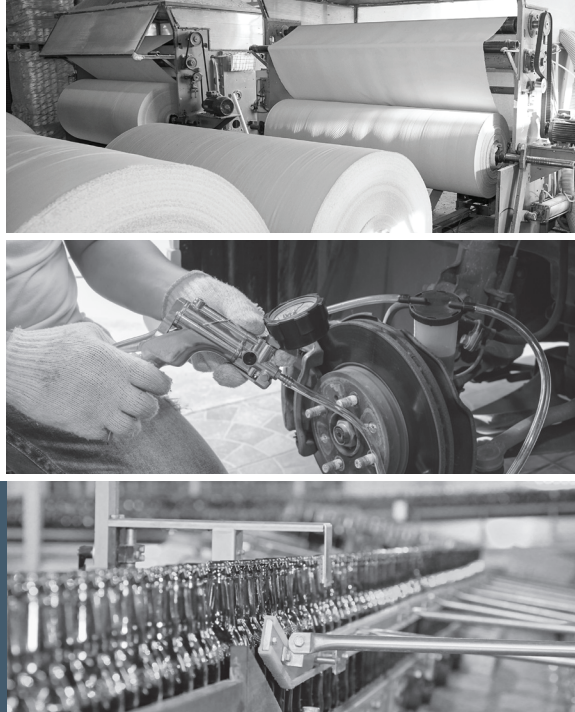
INNOVATION

## PROVEN PERFORMANCE

The FS-Curtis NxD and NxV Series rotary screw air compressors are valued worldwide for their legendary reliability and industrial performance.

Power efficiency is maximized with FS-Curtis' exclusive airend profile, a premium efficiency motor, centrifugal fan, generously sized highest quality components and the intelligent controller that revolutionizes compressor operations by tracking temperature, pressure, and logging critical historical data.

Housed in a space-saving design and built for continuous, quiet operation, low ownership costs, easy service, and minimal downtime; the NX series delivers steady airflow with stable air pressure and outstanding quality air, with minimal oil carryover. Thus, making the NX Series the ideal choice for your industrial compressed air needs.





## FEATURES AT A GLANCE

### eCOOL® Technology

The ultimate in system protection & reliability

- Protects critical components from compressed generated heat
- Compartmentalized air flow design and oversized after cooler
- Extends component life and reduces lifetime

### Ease of maintenance

Designed for low cost of ownership, easy service and little down time

- Easy access to all preventative maintenance components
- Washable cabinet pre-filter
- Controller alerts for maintenance intervals
- Differential pressure indicators for the oil filters, air filter & separator element

### Optional Demandsmart energy management system

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

- Significantly reduces energy consumption at part load
- Reduces lifecycle costs by limiting energy consumption
- Fully enclosed variable drive enables reliable performance in harsh environments
- Precise air pressure control & Wide working pressure range

### Dba shield noise reduction

Designed for quieter operation

- Extra thick sound installation
- Can be installed in applications where dBA level is critical
- Laminated oil-proof sound insulation

### Energy Efficiency & Quality Components

Build to the highest level of dependability and reliability

- Precision built air end with patented 5:6 rotor profile with large rotor low-speed design offers maximum performance with lower energy consumption
- Premium Efficiency TEFC (IP55 Class F) motor
- Wye-Delta motor starter
- The separator, minimum pressure valve, and thermostatic valve are integrated, reducing the connections by up to 90%.
- Hi-Efficiency air/oil separator with 1-3 ppm carryover
- 100% continuous duty cycle, pulsation free air
- Energy efficient oversized cooler
- Built-in heavy duty air intake filter
- Additional heavy duty oil filter for added protection of airend bearings (On models from 110 kW and above)
- Durable powder-coat painted enclosure
- Leak-free design with o-ring seal fittings & hoses

### Intelligent AIMS Plus Controller

- Intuitive and easy to use
- Variety of control, monitoring and protection features
- RS485 Modbus communication interface & sequence control



### Extended Warranty Program

All NX Series products are backed by an optional industry leading 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.

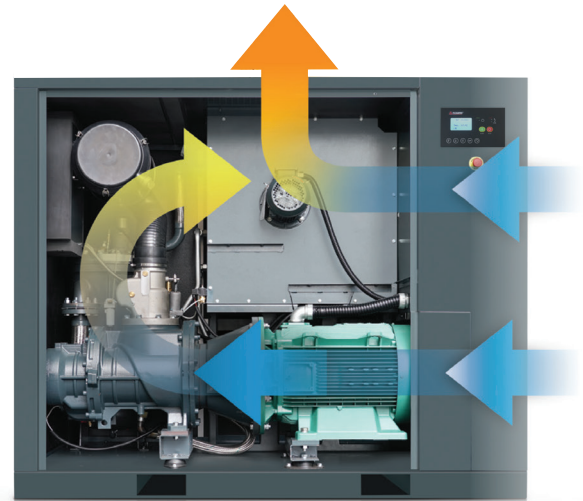
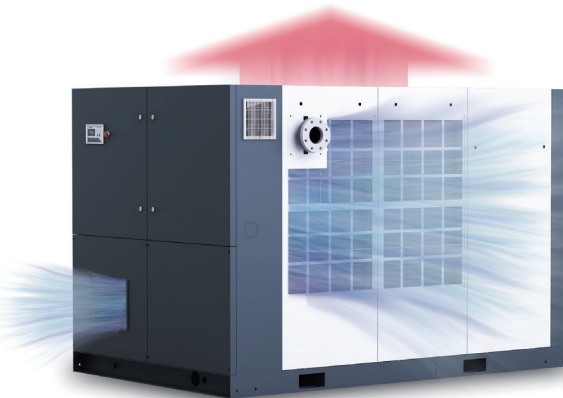
To know more about extended warranty, please contact our nearest sales representative.

## eCOOL<sup>®</sup> 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 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.**

## OPTIONAL DEMANDSMART<sup>™</sup> SYSTEM

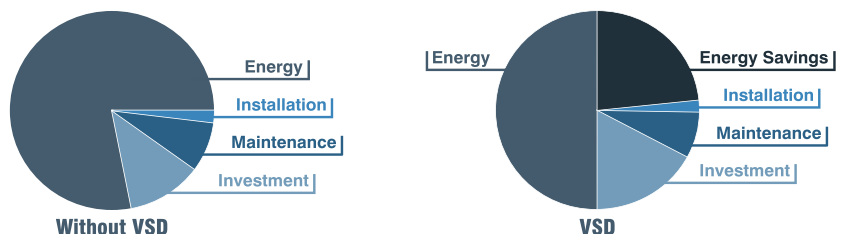
### ENERGY SAVINGS ARE SMART SAVINGS

Take control of your energy savings with our optional DemandSmart<sup>™</sup> Energy Management System, which includes the controller, variable- speed drive, and airend to create greater overall efficiency. This innovative design maximizes energy savings and reduces overall operating costs.

### INTELLIGENT VARIABLE SPEED DRIVE

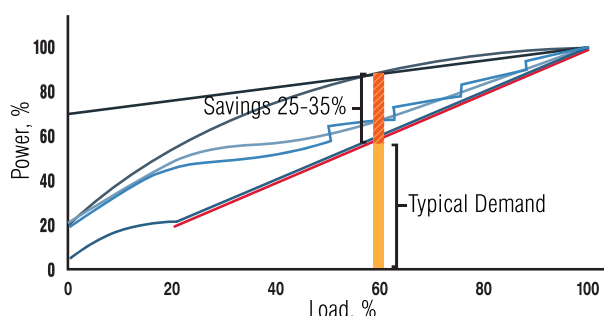
Take control of your energy savings with our optional DemandSmart<sup>™</sup> Energy Management System, which includes the controller, variable- speed drive, and airend to create greater overall efficiency. This innovative design maximizes energy savings and reduces overall operating costs.

NX SERIES WITH VSD LIFE CYCLE COSTS OVER 5 YEARS

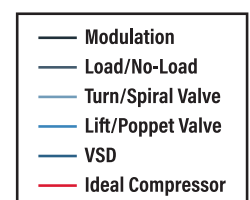


- The VSD - time-proven directly coupled design - offers faster response and greater operational efficiency
- Variable operation slows airend speed, which lowers energy costs and reduces noise
- Matching the operating speed with changes in demand reduces component wear
- With DemandSmart technology, the VSD enhances quality by stabilizing air pressure at 1 psi increments
- Built-in DC choke protects against harmonic disturbances and eliminates the need to source additional corrective devices.

**DemandSmart<sup>™</sup>**  
ENERGY MANAGEMENT SYSTEM



ENERGY SAVINGS WITH VSD  
COMPARING LOAD/NO-LOAD  
POWER CONSUMPTION



## AIMS PLUS- INTELLIGENT CONTROLLER



### SIMPLICITY | INGENUITY | RELIABILITY

The Attentive controller interface provides a great variety of control and monitoring features, enabling you to enhance your compressor's efficiency and reliability significantly.

Using an advanced control algorithm, controller controls the main drive motor and regulates system pressure within a narrow pressure band to maximize energy efficiency.

#### Features

- Simple and easy to operate HMI shows major operation messages
- Remote control status
- Auto restart after power failure
- RS-485 Modbus communication interface & sequence control (up to 8 compressors)
- Optional GoService platform - Compressor IoT Smart Service platform, hosted on the Cloud.



#### Protection Features

- Wrong phase sequence protection
- Frost protection
- High discharge air and system temperature/pressure
- Main motor and Fan motor overload and current monitoring
- Input power supply fluctuation



#### Service & Maintenance Prompts

- Alarm/trip history records
- Motor service & maintenance time
- Compressor service & maintenance time
- Oil filter service & maintenance time
- Lubricating oil service & maintenance time
- Oil fine separator service & maintenance time
- Air filter service & maintenance time



### 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 staffs 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 and FS-Curtis provides extensive training in the field and at our St. Louis, Missouri headquarters to ensure that you have the support you need.

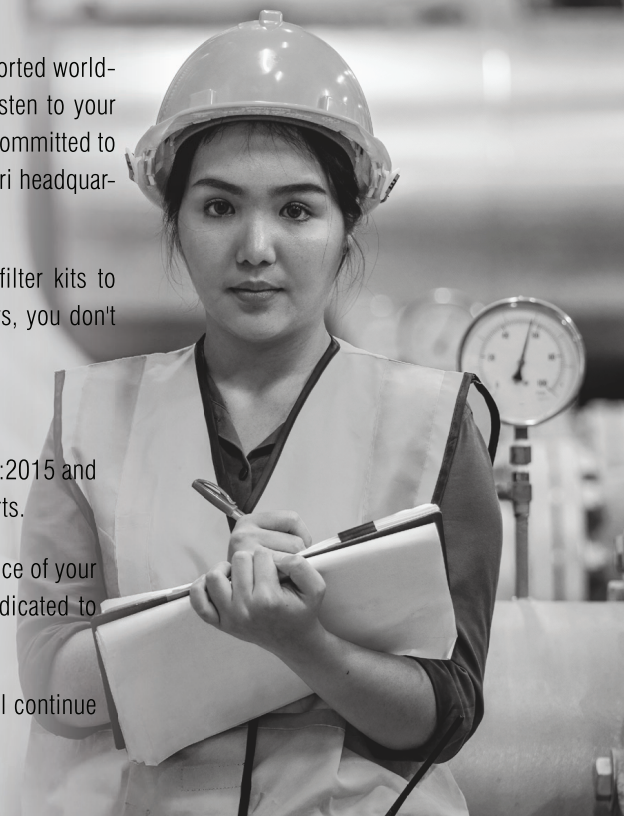
In addition, authorized FS-Curtis distributors use genuine FS-Curtis parts, lubricants and filter kits to maximize the service life of your equipment. And with a worldwide network of service centers, you don't need to worry about added downtime waiting for parts.

### QUALITY PARTS MATTER

At FS-Curtis, quality is never compromised. That's why we control production using ISO 9001:2015 and ISO 14001:2015 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.



TECHNICAL DATA

FIXED SPEED

MODEL	CAPACITY FAD (CFM)*				NOMINAL MOTOR POWER		NOISE LEVEL **	DIMENSIONS	WEIGHT
	7 Bar (g)	8 Bar (g)	10 Bar (g)	12 Bar (g)	kW	HP			
							dB(A)	L x W x H mm	kg
NXD -15	88	81	74	64	15	20	72	1250 x 880 x 1515	610
NXD - 18	113	106	95	85	18.5	25	72	1250 x 880 x 1515	653
NXD - 22	138	131	113	99	22	30	72	1250 x 880 x 1515	670
NXD - 30	191	180	159	134	30	40	72	1350 x 940 x 1680	857
NXD - 37	233	222	198	173	37	50	72	1350 x 940 x 1680	895
NXD - 45	293	272	254	226	45	60	72	2000 x 1250 x 1750	1555
NXD - 55	364	343	307	275	55	75	74	2000 x 1250 x 1750	1640
NXD - 75	494	454	417	374	75	100	75	2180 x 1330 x 1850	2025
NXD - 90	579	540	487	438	90	125	75	2740 x 1710 x 1725	2120
NXD - 110	742	706	600	540	110	150	75	2740 x 1710 x 1725	3000
NXD - 132	890	819	742	646	132	180	75	2740 x 1710 x 1725	3500
NXD - 160	1031	985	869	773	160	215	78	2900 x 1860 x 1945	3700
NXD - 185	1151	1074	975	893	185	250	78	2900 x 1860 x 1945	3750
NXD - 200	1201	1165	1067	936	200	270	78	2900 x 1860 x 1945	3750

VARIABLE SPEED

MODEL	CAPACITY FAD (CFM)*				NOMINAL MOTOR POWER		NOISE LEVEL **	DIMENSIONS	WEIGHT
	7 Bar (g)	8 Bar (g)	10 Bar (g)	12 Bar (g)	kW	HP			
							dB(A)	L x W x H mm	kg
NXV-15	26-88	24-81	22-74	19-64	15	20	72	1250 x 880 x 1515	610
NXV- 18	34-113	32-106	29-95	26-85	19	25	72	1250 x 880 x 1515	653
NXV- 22	41-138	39-131	34-113	30-99	22	30	72	1250 x 880 x 1515	670
NXV- 37	70-233	67-222	59-198	52-173	37	50	72	1350 x 940 x 1680	855
NXV- 45	122-293	121-272	119-254	118-226	45	60	72	2000 x 1250 x 1750	1555
NXV- 55	127-364	120-343	123-307	110-275	55	75	74	2000 x 1250 x 1750	1640
NXV- 75	148-494	136-454	125-417	112-374	75	100	75	2180 x 1330 x 1850	2025
NXV- 90	174-579	162-540	146-487	131-438	90	125	75	2180 x 1330 x 1850	2120
NXV- 110	222-742	212-706	180-600	162-540	110	150	75	2940 x 1710 x 1725	3000
NXV- 132	267-890	246-819	222-742	194-646	132	180	75	2940 x 1710 x 1725	3600
NXV-160	309-1031	296-985	261-869	232-773	160	215	78	3300 x 1860 x 1945	3900
NXV- 185	345-1151	322-1074	292-975	268-893	185	250	78	3300 x 1860 x 1945	3950
NXV- 200	360-1201	350-1165	320-1067	281-936	200	270	78	3300 x 1860 x 1945	4000

\*FAD measured as per ISO1217, annex C, latest edition.

\*Noise level determined according to ISO 2151 in free field conditions, tolerance of +-3 dB.

Water cooled options are available from 90 kW, details on request.

Details of units above 200 kW are available on request.

Due to continuous engineering improvements, design and specifications are subject to change without prior notice.



# CONTINUED COMMITMENT

A company history that dates back more than 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.

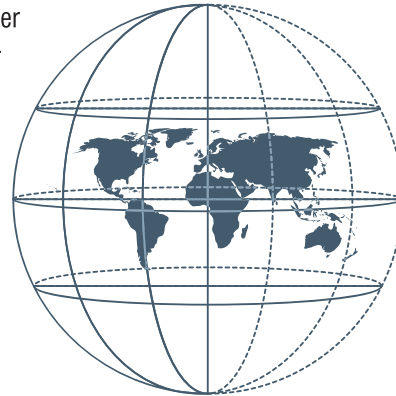


You can count on **FS-Curtis** to approach the next 170 years by staying true to the values and strengths that are appreciated by our customers today.

## 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)

INDIA | GERMANY | TAIWAN | BRAZIL | VIETNAM | INDONESIA | CHINA

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Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

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