NX SERIES

FIXED AND VARIABLE
SPEED ROTARY SCREW
AIR COMPRESSORS
18-37 KW

2015 Plant Engineering PRODUCT of the YEAR Gold Award

FSCURTIS

FS CURTIS
AIR COMPRESSORS

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
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

2015
Introduced Nx series Fixed and Variable Speed Rotary Screw compressors

2016
Nx Series named Plant Engineering's 2015 Product of the Year - Gold Award for Compressed Air

2017
Nx Series claims Plant Engineering's Product of the Year - Gold Award 2nd year in a row

PROVEN PERFORMANCE

TRUSTED INDUSTRY INNOVATION

Nx Series air compressors from FS-Curtis are valued worldwide for their legendary reliability. Housed in a space-saving design and built for continuous, quiet operation, the Nx 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.

TECHNICAL DATA

Fixed Speed

MODEL	CAPACITY FAD (CFM)				MOTOR	SOUND LEVEL (175 PSI)	DIMENSIONS (base mount)	WEIGHT (base mount)
	100 psi	125 psi	150 psi	175 psi	Kw / HP	dBA	(L x W x H In.)	Lbs.
NxB-18	113.9	99.6	92.2	83.8	18 / 25	72	50 x 35 x 60	1415
NxB-22	133.7	116.1	109.1	94.6	22 / 30	72		1477
NxB-30	196	173	162.5	149.1	30 / 40	74	54 x 37 x 67	1812
NxB-37	233.6	203.4	193	179.8	37 / 50	76		1895

Variable Speed

MODEL	CAPACITY FAD (CFM) Minimum – Maximum				MOTOR	SOUND LEVEL (100-175 PSI)	DIMENSIONS (tank mounted)	WEIGHT (tank mounted)
	100 psi	125 psi	150 psi	175 psi	Kw / HP	dBA	(L x W x H In.)	Lbs.
NxV-18	33.4 - 112.0	32.8 - 102.4	43.6 - 90.5	40.3 - 82.9	18 / 25	72	50 x 35 x 60	1415
NxV-22	33.7 - 128.6	32.7 - 117.9	32.0 - 112.3	40.3 - 105.4	22 / 30	72		1477
NxV-30	183.0 - 51.8	168.7 - 50.9	152.8 - 49.7	134.9 - 48.0	30	74	54 x 37 x 67	2051
NxV-37	227.0 - 51.8	210.3 - 50.9	189.2 - 49.7	167.8 - 48.0	37	76		2051

NX SERIES FEATURES AT A GLANCE

dBA SHIELD NOISE REDUCTION

Designed for quiet operation.

- Use of centrifugal blower allows low sound and decreased energy usage
- Extra-thick sound insulation reduces noise
- Can be installed in applications where a quiet setting is important

eCOOL® TECHNOLOGY

The ultimate in system protection and reliability.

- Protects critical components from compressor-generated heat
- Compartmentalized air flow design
- Extends component life and reduces downtime

QUALITY COMPONENTS

Built to the highest levels of dependability and reliability.

- Standard TEFC motor protects compressor from surrounding dirty air, increasing the efficiency and prolonging the life of the motor
- Spin-on air/oil separator allows for quick maintenance and results in one-to-three PPM oil carryover. This translates into lower make-up oil costs and higher quality compressed air

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

OPTIONAL DEMANDSMART ENERGY MANAGEMENT SYSTEM

Ideal combination of variable speed drive, controller, and drivetrain.

VARIABLE SPEED DRIVE

- Results in outstanding energy savings day in and day out
- Reduces lifecycle costs

PRECISION BUILT AIREND

- Exclusive FS-Curtis airends utilize precision cut rotor profiles to maximize proficiency

ICOMMAND CONTROLLER

- Intuitive and easy to use
- Precisely delivers compressed air to usage

OPTIONAL ULTRAPACK

Ideally sized prefilter and integrated refrigerated dryer.

- Saves floor space and reduces wasted time and installation cost

NXGEN WARRANTY

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 & Lubricants per the required maintenance schedule, and you will have peace of mind knowing that your machine is backed by the NxGEN Warranty

DemandSmart™
ENERGY MANAGEMENT SYSTEM

ENERGY SAVINGS ARE SMART SAVINGS

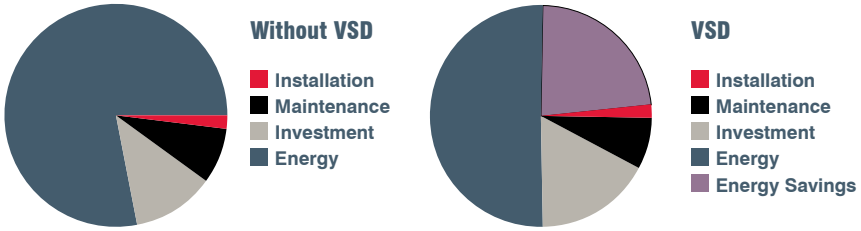
Take control of your energy savings with our optional DemandSmart™ Energy Management System, which includes the controller, variable-speed drive, and airend to create greater overall efficiency. This innovative design maximizes energy savings and reduces overall operating costs.

INTELLIGENT VARIABLE SPEED DRIVE

One of the ways the DemandSmart system in Nx Series compressors maximizes energy savings is with a variable speed drive (VSD). The VSD allows you to match your energy usage to current system demands, eliminating the need to overpressure the system, so you'll save money by not wasting energy.

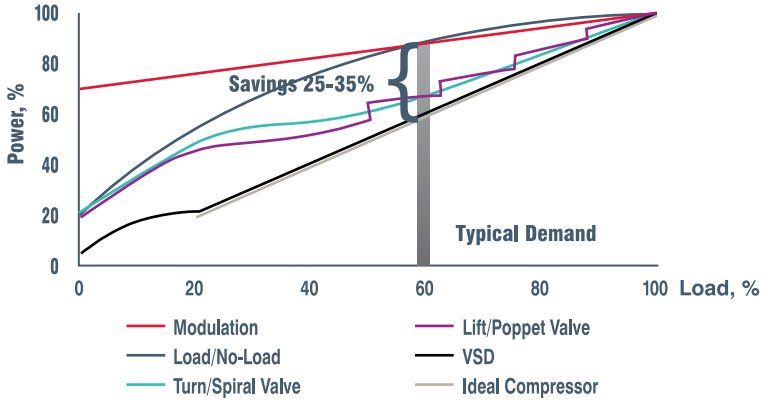
In addition, the soft starting capability of FS-Curtis' VSD reduces inrush current requirement, decreasing your power demand — and, of course, increasing your energy savings.

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

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



iCOMMAND-TOUCH

TAKE CONTROL OF YOUR WORLD.

With the optional iCommand-Touch, a full-color screen displays graphs which capture and track factual, real-time air usage by the hour, day, week and month. Historical data can be retrieved at any time at the touch of the screen.

Data trending keeps your finger on the pulse of your entire compressed air system.

Continuously tracks pressure, temperature, air quantity and usage to easily diagnose and optimize your plant's air system.

- *Simple Touchscreen Control*
- *Intuitive Navigation*
- *Capture Real-time and Historical Data Trending*

Trending and Graphing Capabilities

Graph information can be conveniently downloaded to SD card for historical records, troubleshooting and quality control measures.

One-Touch Status Review At A Glance:

Main Screen: Displays image of compressor with red dot indicator spotlighting issues in the system, which reduces time in trouble shooting.

Pressure: Continuously tracks pressure range by day, week and month. This allows quick identification of pressure variations that affect plant operations.

Temperature: Real-time monitoring and trending of critical oil temperature enable early identification of potential shutdown and downtime.

Air Quantity: Monitors cubic feet of air usage, pinpointing peak production or down times in your operation.

Usage: Tracks how long machine is on, off or in standby. This allows you to analyze usage factor in your plant based on the operation of your compressor.

Maintenance: Tracks and displays hours of usage of critical components—oil filter, inlet filter, air/oil separator and motor—and timetable for replacement and/or maintenance.

Air Circuit & Oil Circuit: Quick diagnosis of key component operation within the air and oil circuit

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, improved reliability 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.

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)

FSCURTIS

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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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CAGI | COMPRESSED AIR CHALLENGE