

NXHE SERIES

TWO-STAGE ROTARY SCREW
AIR COMPRESSORS
90-250 KW





**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

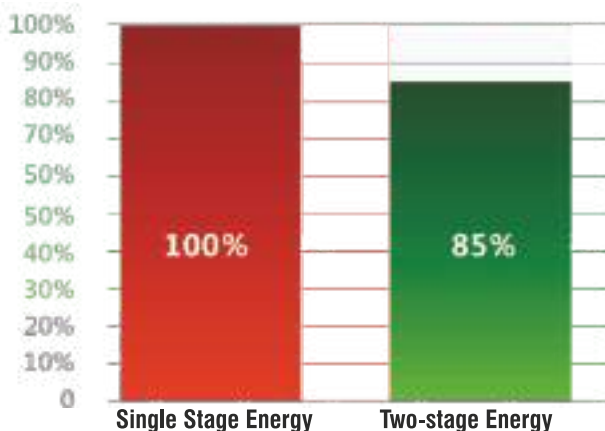
TWO-STAGE COMPRESSION: SETTING THE STANDARD FOR ENERGY EFFICIENCY

Compared to single stage compressors, a two-stage is much closer to isothermal compression. This is achieved by injection of fresh oil between the stages which reduces the inlet temperature to the second stage. This lower inlet temperature increases efficiency by reducing the compression ratio between the stages. In addition, leakage between the rotor seals is significantly reduced resulting in outstanding volumetric efficiency.



- Two-stage air compressors are closer to the ideal isothermal compression
- Reduced leakage increases volumetric efficiency
- Saves 10-15% of energy compared to single stage compressors
- Increases flow 10-15% compared to single stage compressors
- Lower pressure differential increases efficiency and reliability
- Low heat load
- Easy maintenance and service
- Lowest life-cycle cost of any compressor on the market

WHEN COMPARED TO SINGLE STAGE, TWO-STAGE COMPRESSORS CAN SAVE UP TO 15% IN ENERGY CONSUMPTION AND OFFERS 15% MORE FLOW.





TECHNICAL DATA

MODEL	MOTOR		CAPACITY FAD - CMM			
	KW	HP	7 Bar (g)	8 Bar (g)	10 Bar (g)	12 Bar (g)
NXHE-90	90	125	19.5	18.2	16.3	14.6
NXHE-100	110	150	23.5	22.0	19.2	17.8
NXHE-132	132	175	27.6	26.1	23.2	21.5
NXHE-160	160	200	34.0	32.3	28.6	26.5
NXHE-200	200	250	43.1	40.5	35.0	31.0
NXHE-220	220	300	47.5	44.5	38.7	34.2
NXHE-250	260	350	54.3	51.5	45.3	40.0

VFD models are available, details on request.
Water cooled models are available, details on request.



NX SERIES FEATURES AT A GLANCE

eCOOL® Technology

The ultimate in system protection and reliability

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

Energy-efficient Two-stage airend

Energy-saving and Eco-friendly

- Patented airend design integrates the first and second stage rotors into one airend
- Oil is injected between the first and second stages to cool the air and optimize efficiency
- Splitting the compression cycle into Two-stages reduces the axial and

thrust loading to which improves service life of airend and bearings

- Two-stage compression significantly reduces noise

Effectively integrated overall design

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

- Safe, efficient air filter system
- Independent bearing lubrication
- High efficiency, easy-to-maintain oil separator
- IE3 high efficiency motor
- End face sealed to prevent leakage
- Connections utilize o-ring face seals for leak--free performance
- Asbestos-free gaskets protect operator health



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

iCOMMAND-TOUCH

TAKE CONTROL OF YOUR WORLD.

With the premium 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.



INDUSTRY APPLICATIONS

FS-Curtis has earned the reputation for building the most rugged industrial-duty compressor you can buy. Our professional engineering staff and factory-trained distributor network are committed to supplying you with a complete offering of the very best in compressed air equipment.

- **Woodworking**
- **Industrial
Manufacturing**
- **Printing**
- **Packaging**
- **Glass/Plastics**
- **Power Generation**
- **Textiles**
- **Mining**





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.



FS Compressors India Pvt. Ltd

Plot no-S-3, Chakan MIDC, Industrial area, Phase-II, Savardari, Khed, Pune- 410501

Tel: +91-21-35278312 e-mail: info@fscurtis.in

