



# NX SERIES

DIRECT SPEED ROTARY SCREW AIR COMPRESSORS

110-185 KW





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

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

# A HISTORY OF

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 Howit-  
zer 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 Com-  
pany,  
Lewis Machine  
Company



## REAL-WORLD PEOPLE

When you're successful, we're successful.  
That's why FS-Curtis listens.

Trust and dependability are the foundations of our past and the fabric of our future, so you can count on being treated with the personal touch you deserve.



**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.

# EXCELLENCE

1976

1979

1995

2005

2006

2010

2015

2016

Merged with Toledo Tools as Curtis-Toledo Inc.

Introduction of Challenge Air Series reciprocating air compressors

Began manufacturing and assembling Rotary Screw Air compressors

Expanded global market reach by joining forces with Fusheng Industrial

U.S. Headquarters certified as ISO9001:2000 and ISO14001:2004

Introduced next generation GSV Variable Speed Rotary Screw compressors

Introduced Nx series Fixed and Variable Speed Rotary Screw compressors

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



## REAL-WORLD PRODUCTS

Take more than a century of experience building quality compressors, add in a staff that's listening to the needs of the market, and the result is a product lineup that's built for tough working conditions. No wonder so many customers around the world depend on FS-Curtis compressors day in and day out.





## eCOOL<sup>®</sup> TECHNOLOGY

### A COOL INNOVATION

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

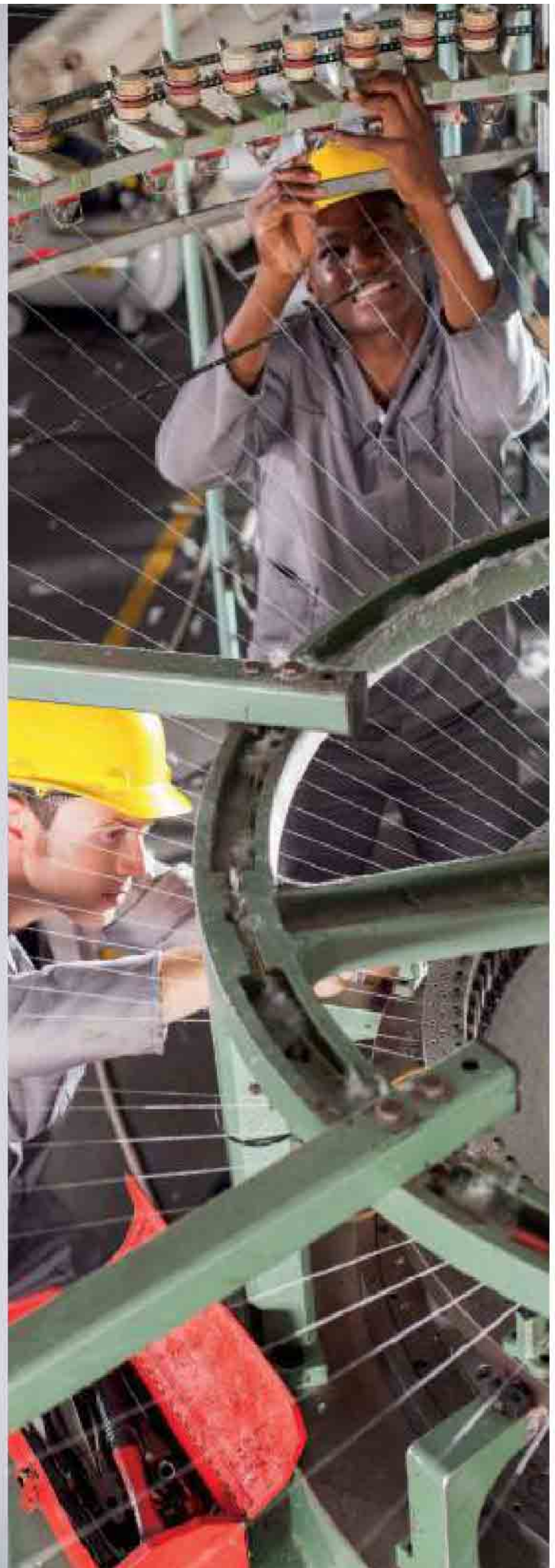
By combining smart compressor layout with intelligent component selection, eCOOL technology maximizes cooling airflow for greater energy efficiency, improved reliability and increases service life up to 50% longer for motors and electrical components and up to 30-50% longer for bearings, hoses and



# 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

- **Large industrial manufacturing**
- **Cement terminals**
- **Power generation**
- **Mining**
- **Aviation testing labs**
- **Textiles**





# AIMS Plus - Intelligent Controller

## Features and functions (Simplicity / Ingenuity / Reliability)

- Freeze-proofing and no-load running protection.
- Alarm/trip history record in consecutive 30 entries for maintenance and service inquiry.
- Monitoring main motor current.
- Monitoring fan current.
- Setting shutdown time due to unload too long.
- Selection for auto start after resetting power failure.
- Simple and easy-to-operate HMI to show major operation messages.
- Fault messages inquiry.
- Service & Maintenance prompts.
- Load management, with Modbus communication high expandability up to 8 compressor units, sequence setting.
- Language selection: English / Spanish / Portuguese / Traditional Chinese / Simple Chinese.



## TECHNICAL DATA

### Fixed Speed

| Model   | Capacity (CMM) |          |           |           | Motor<br>Kw / HP | Sound Level<br>dBA | Dimension<br>(L x W x H mm) | Weight<br>kg |
|---------|----------------|----------|-----------|-----------|------------------|--------------------|-----------------------------|--------------|
|         | 7 bar(g)       | 8 bar(g) | 10 bar(g) | 12 bar(g) |                  |                    |                             |              |
| NxD-110 | 21.0           | 20.0     | 17.0      | 15.3      | 110 / 150        | 78                 | 2740×1710×1725              | 3000         |
| NxD-132 | 25.5           | 23.2     | 21.0      | 18.3      | 132 / 180        | 78                 | 2740×1710×1725              | 3500         |
| NxD-160 | 29.5           | 27.9     | 24.6      | 21.9      | 160 / 200        | 78                 | 2900×1860×1945              | 3700         |
| NxD-185 | 32.6           | 30.4     | 27.6      | 25.3      | 185 / 250        | 78                 | 2900×1860×1945              | 3750         |

### Variable Speed

| Model   | Capacity (CMM)<br>Minimum - Maximum |           |           |           | Motor<br>Kw / HP | Sound Level<br>dBA | Dimension<br>(L x W x H mm) | Weight<br>kg |
|---------|-------------------------------------|-----------|-----------|-----------|------------------|--------------------|-----------------------------|--------------|
|         | 7 bar(g)                            | 8 bar(g)  | 10 bar(g) | 12 bar(g) |                  |                    |                             |              |
| NxV-110 | 8.4-21.0                            | 8.0-20.0  | 6.8-17.0  | 6.1-15.3  | 110 / 150        | 78                 | 2740×1710×1725              | 3100         |
| NxV-132 | 10.08-25.2                          | 9.28-23.2 | 8.4-21.0  | 7.32-18.3 | 132 / 180        | 78                 | 2740×1710×1725              | 3600         |
| NxV-160 | 11.7-29.2                           | 11.2-27.9 | 9.8-24.6  | 8.8-21.9  | 160 / 200        | 78                 | 3300×1860×1945              | 3800         |
| NxV-185 | 13.0-32.6                           | 12.2-30.4 | 11.0-27.6 | 10.1-25.3 | 185 / 250        | 78                 | 3300×1860×1945              | 3850         |

Performance is measured at 115 operating pressure. For all other pressures, refer to CAGI data



## 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 after-cooler
- Extends component life and reduces downtime

### dBa Shield Noise Reduction

Designed for quieter operation

- Extra-thick sound insulation reduces noise
- Can be installed in applications where dBa level is critical
- Laminated oil-proof sound insulation

### Energy Efficiency & Quality Components

Built to the highest levels of dependability, reliability & efficiency

- Premium Efficiency TEFC (IP55 Class F) motor protects compressor from harsh environment

- IE3 Motors increase efficiency
- NEMA-1 electric panel
- Wye-Delta motor starter
- Hi-Efficiency air/oil separator with 1-3 ppm carryover
- 120 volt control voltage
- 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
- Durable powder-coat painted enclosure
- Leak-free design with o-ring seal fittings & hoses

### Ease of Maintenance

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

- Easy access to all preventative maintenance components
- Washable cabinet pre-filter
- Controller alerts for maintenance intervals

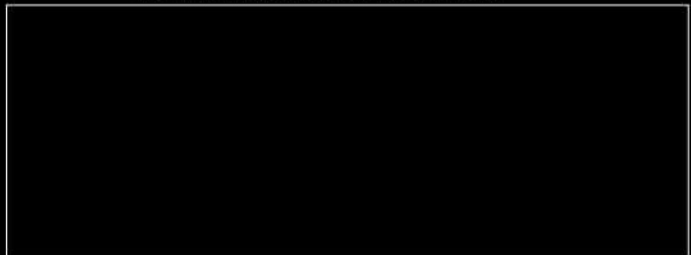
**AMERICAN  
CRAFTSMANSHIP  
ST. LOUIS, MO USA**

Nx Series compressors combine efficient operation with outstanding durability in the most demanding environments



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**AUTHORIZED FS-CURTIS DEALER:**



**NX110-185-201809-112A000-E1**