

CW SERIES

LARGE INDUSTRIAL RECIPROCATING
AIR COMPRESSORS SINGLE AND
TWO-STAGE 40-125HP (30-250PSI)





**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



DURABLE AND RELIABLE

UNMATCHED

PERFORMANCE

HEAVY-DUTY AND HIGHLY RELIABLE

With models ranging from 30 to 250psi, the CW Series performs where other compressor technologies simply cannot. These cast-iron, pressure-lubricated, low-RPM compressors feature stainless steel valve discs, oversized tapered main roller bearings, and a robust ductile iron crankshaft. Low-speed compressor pumps and electric motors also ensure a long service life with low maintenance. It all adds up to reliability for years to come.



INDUSTRY APPLICATIONS



There are many different needs for the CW Series units. Below you will find an overview of the makeup of the CW Series as well as a detailed list of the wide range of applications that few compressors can handle.

Distribution of Air and Gas

- Starting Air
- Desulphurization
- Feeding Air and Gas to multiple channels of industry

Oil and Gas, On and Off Shore

- Drilling
- Well head cleaning
- Maintaining or increasing gas flow into pipeline systems
- Revitalizing oil wells – Aerates the soil underground to break up concentrated mineral deposits that can obstruct the flow of extraction
- Pumping flare gases with high a content of acid components into high-pressure pipelines
- Refining hydrogen rich gases

Pipeline

- Transferring gas from extraction point to holding stations via pipelines
- Boosting stations to maintain transfer speeds
- Cleaning Pipelines
- Checking Pipelines
- Leak Testing
- Evacuation of gas from pipelines

Power Generation

- Diesel – Starting air for engines
- Gas Turbine – Starting air, Purging Air, Feeding gas
- Steam Power – Desulphurization, Removing fuel residue, Cooling turbines

Nuclear

- Back-up Diesel engine start up air
- Moving Nitrogen to cool reactors
- Moving Hydrogen to cool turbines and reactors

Hydro Electric

- Pneumatic braking air
- Governing turbine blades and large valves
- Turbine dewatering
- Blowing air (blowing out water to eliminate the load during starting)
- Prevents cavitations and pulsations

Marine

- Starting Air
- Emergency Starting Air
- Service Air
- Air guns – sending lines between ships
- Ballast Control

Aircraft

- Starting air for turbines and engines
- Inflating aircraft tires with nitrogen

Material Handling

- dense phase transport of certain materials (e.g. cement powder – may require filtration)

Manufacturing

- Injection Molding

TECHNICAL DATA

CW SERIES – SINGLE-STAGE

Low Pressure (30-70 PSIG)

| MODEL | HP | CFM @ 40 PSI | CFM @ 70 PSI | DIMENSIONS L×W×H | WEIGHT (LBS) |
|------------|-----|--------------|--------------|---------------------|--------------|
| CW-100S-16 | 40 | N/A | N/A | 81×45×47 | 1950 |
| CW-200S-17 | 50 | 346 | 268 | 82×43×53 | 2720 |
| CW-200S-18 | 60 | N/A | 297 | 82×43×53 | 3000 |
| CW-300S-19 | 75 | 562 | N/A | 92×57×75 | 3500 |
| CW-300S-20 | 100 | 676 | 530 | 92×57×75 | 3700 |
| CW-300S-21 | 125 | N/A | 639 | 92×57×75 | 3950 |

CW SERIES – TWO-STAGE

Medium Pressure (100-150 PSIG)

| MODEL | HP | CFM @ 100 PSI | CFM @ 125 PSI | CFM @ 150 PSI | DIMENSIONS L×W×H | WEIGHT (LBS) |
|-----------|-----|---------------|---------------|---------------|---------------------|--------------|
| CW-100-16 | 40 | 172 | 165 | 149 | 81×45×47 | 1950 |
| CW-200-17 | 50 | 240 | 219 | 206 | 82×43×53 | 2720 |
| CW-260-18 | 60 | 259 | 248 | 237 | 82×43×53 | 3000 |
| CW-300-19 | 75 | 363 | 321 | 303 | 92×57×75 | 3500 |
| CW-300-20 | 100 | 482 | 438 | 413 | 92×57×75 | 3700 |
| CW-300-21 | 125 | 505 | 491 | 475 | 92×57×75 | 3950 |

High Pressure (175-250 PSIG)

| MODEL | HP | CFM @ 200 PSI | CFM @ 250 PSI | DIMENSIONS L×W×H | WEIGHT (LBS) |
|------------|-----|---------------|---------------|---------------------|--------------|
| CW-150H-16 | 40 | 122 | 117 | 81×45×47 | 1925 |
| CW-150H-17 | 50 | 154 | 146 | 82×43×53 | 1975 |
| CW-260H-17 | 50 | 191 | 169 | 85×40×51 | 2720 |
| CW-260H-18 | 60 | 218 | 205 | 82×43×53 | 3000 |
| CW-300H-20 | 100 | 345 | 323 | 92×57×75 | 3700 |
| CW-300H-21 | 125 | 437 | 406 | 92×57×75 | 3950 |

STANDARD EQUIPMENT

- NEMA-1 starter with control power transformer (shipped loose)
- Premium efficient ODP motor
- Constant speed control
- V-belt drive with multi-groove flywheel
- Large metal intake filter silencers
- OSHA-approved enclosed belt guard
- C-100 and C-150 — Pressure lubricated with Centro-ring™ oil system
- C-200, C-260 and C-300 — Pressure lubricated with gear type oil pump to include full flow oil filter, oil pressure gauge and low oil pressure shutdown switch

OPTIONAL EQUIPMENT

- Auto start/stop control
- Dual control
- Low oil shutdown on C-100 and C-150 models
- NEMA-1 high discharge air temperature shutdown
- NEMA-1 high interstage air temperature shutdown
- NEMA-4 control panel enclosure
- TEFC motor





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)

BANGALORE, INDIA | JUNDIAI, BRAZIL | KÖNGEN, GERMANY | SHANGHAI, CHINA | TAIPEI, TAIWAN | PITTSBURGH, PA USA (FS-ELLIOTT)
BEIJING, CHINA (FUSHENG) | ZHONGSHAN, CHINA (FUSHENG) | HO CHI MINH CITY, VIETNAM (FUSHENG)



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

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