

MD SERIES

ENERGY SAVING MODULAR MEMBRANE
COMPRESSED AIR DRYERS





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

FS-CURTIS WAS FOUNDED ON BOTH.

More than 165 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 1857 1876 1897 1914 1940 1955 1976

Curtis & Co. – Empire Saw founded in St. Louis, MO, USA

Earned Agricultural and Mechanical Fair award for excellence and quality

Named Curtis and Co. Manufacturing

Built first reciprocating air compressor that later evolved into the Master Line Series

Supported U.S. Government efforts by producing more than 2 million Howitzer shell forgings

Designed and developed mobile oxygen compressors to be used in Aerospace applications

Merged with U.S. Air Compressor Company, Central Petroleum Company, Lewis Machine Company

Merged with Toledo Tools as Curtis-Toledo Inc.

1979 1995 2005 2006 2010 2015 2016 2017

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

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

MD SERIES FEATURES AT A GLANCE



MD Series modular membrane compressed air dryers were developed to complement our stable of industry leading refrigeration, adsorption and filtration technologies. Membrane dryers use a bundle of tiny tubular fibers that let fast gases like water vapor permeate through the tube wall to be swept away into the ambient. Our membrane fiber technology features multiple strands to form a continuous microscopic sieve that targets and removes “fast gases” like water molecules as a vapor. Pressure dew points from +50°F to -40°F are achieved by balancing the model size, air pressure and volume (scfm) requirements to the application.

SELECTIVE PERMEATION

Through the process of selective permeation, water vapor is removed while leaving the gas composition intact. Each membrane bundle is comprised of multiple tubular membrane fibers, evenly spaced to provide maximum surface area in a compact design. Each helically wrapped layer alternates direction to ensure consistent cross-sectional density and large flow paths for the sweep air that carries the water vapor to atmosphere. No oxygen is lost, which makes these ideal for medical applications.

- Dew points to -40°F
- Inside-to-outside permeation for greater efficiency
- Helically wound bundles for low pressure drop, high flow capacity
- Compact design offers a space-saving point-of-use solution
- Internal and external epoxy powder coat offers durable protection
- Modular connections reduce leak points and simplify installation
- No oxygen is lost due to proprietary membrane design
- MDS models feature a digital purge control which eliminates the waste of sweep air to save energy

TECHNICAL DATA

Model	100°F Inlet to 40°F pdp		100°F Inlet to 0°F pdp		In/Out Connections (inch)	Dimension L x W		Weight	
	Inlet Flow (scfm)	Outlet Flow (scfm)	Inlet Flow (scfm)	Outlet Flow (scfm)		MDM	MDS	MDM	MDS
MDM1/MDS1	1.39	1.20	0.85	0.66	3/8"	11" x 4"	16" x 4"	5	8
MDM4/MDS4	4.55	3.95	2.89	2.29	3/8"	15" x 4"	20" x 4"	6	9
MDM9/MDS9	9.47	8.15	5.69	4.37	1/2"	19" x 4"	24" x 4"	7	10
MDM13/MDS13	13.69	11.91	8.86	7.08	1/2"	27" x 4"	32" x 4"	8	11
MDM24/MDS24	24.3	21.00	14.2	10.90	3/4"	20" x 5"	25" x 5"	11	14
MDM49/MDS49	49.6	35.40	26.6	21.50	3/4"	27" x 5"	32" x 5"	14	17
MDM66/MDS66	66.6	57.00	36.2	26.60	1"	29" x 6"	33" x 6"	17	20
MDM106/MDS106	106.3	91.60	61.4	46.70	1"	35" x 8"	38" x 8"	35	40
MDM138/MDS138	138.1	119.30	81.4	62.60	1"	41" x 8"	44" x 8"	40	45

CONTINUED COMMITMENT

A company history that dates back more than 165 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 165 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)



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CORPLITERATURE: FSL-MDFLBREVI
Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

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