VSV

Permanent Magnet Variable Frequency
Oil Screw Vacuum Pump

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FSCURTIS

Pursuing Excellence,
Enriching Life

eCOOL TECHNOLOGY

FSCURTIS

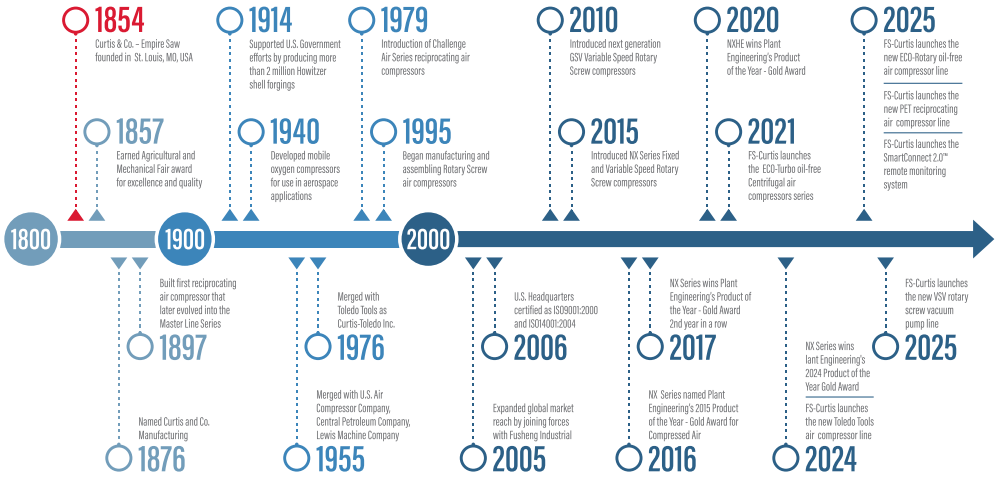
SOME COMPANIES AND
FOUNDED ON HARD WORK.
OTHERS ARE FOUNDED ON IDEALS.

FS-CURTIS WAS
FOUNDED ON BOTH.

A HISTORY of Excellence

One hundred and seventy 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 rely on getting the same from our people.



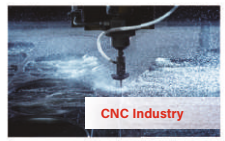
VSV

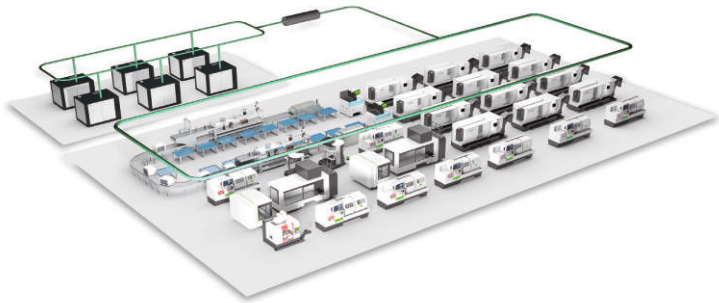
Permanent Magnet Variable Frequency
Oil Screw Vacuum Pump

AIREND / Specialized Vacuum main unit

- Specialized design series to satisfy vacuum application needs, more efficiently and reliably.
- Special injection orifices designed to match the direction of screw path, therefore reducing coolant resistance to the screw and improving efficiency.

APPLICATION





Vacuum system applied
in industrial operation
& processing application.

GoService

INTELLIGENT INTERNET OF THINGS CONTROL

- The controller features a built-in cloud-based network management system, enabling integrated control, fault diagnosis and maintenance.
- Vacuum pump fault information and operating status are promptly sent to designated professionals via SMS and email, significantly reducing management costs.

PACKAGE DESIGN

Efficient overall design

Permanent Magnet Inverter is more energy-saving

The combination of a permanent magnet motor and a high-precision inverter delivers smooth linear operation and significant energy savings.

Easy to use and maintain.

All maintenance points are easily accessible, simplifying maintenance and management.

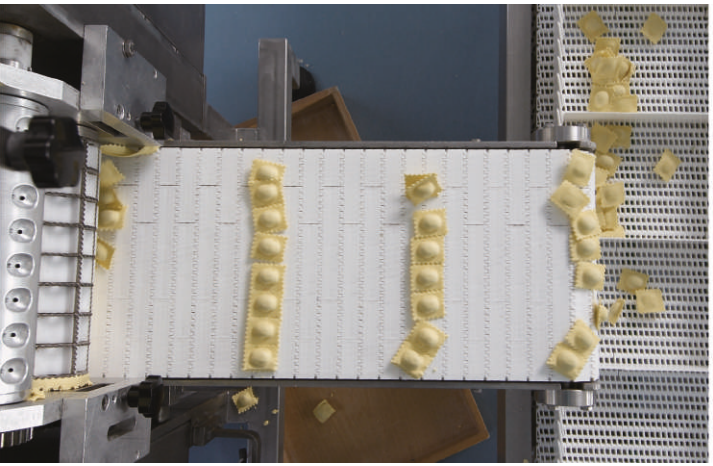
Low noise and high reliability.

The system operates continuously with stability, without pressure fluctuations, with low noise and high reliability.

UNIQUE COOLING FLOW FIELD

eCOOL TECHNOLOGY

- Directly draws in cooler external air for cooling, resulting in higher cooling efficiency.
- The electrical control box and inverter have independent heat dissipation air ducts, ensuring the control unit operates at an optimal temperature.
- Independent motor air inlet duct, with a louvered silencer design at the inlet, significantly reduces intake noise.



Inverter application
Eco & Efficient

Variable frequency energy saving
and vacuum cleanliness

Intelligent control &
Mission oriented.

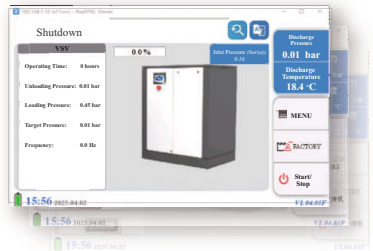
Intelligent control
& Mission oriented.

VFD / Variable frequency control

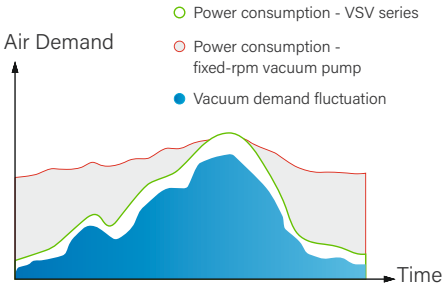
- Provides powerful communication functions.
- Integrated into the vacuum pump, featuring an all-in-one design.
- Modular design, convenient and user- friendly for application and maintenance.
- Equipped with independent air ducts, allowing the entire controller unit to operate at an optimal temperature, ensuring greater stability and reliability.

CONTROL SYSTEM

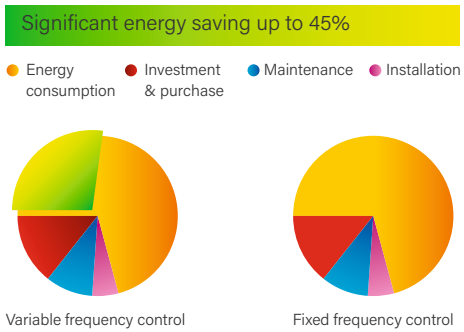
- Superior anti-interference performance.
- Equipped with a CAN network communication interface.
- Remote on/off function.
- Modular design. Enhanced scalability.
- RS 485 communication for sequential control of multiple units.
- Intuitive and interactive user interface with multi-language support.



The VSV series features a full range of variable frequency speed regulation. The output power consumption and rpm are adjustable to customer specifications, significantly saving energy and maintenance costs.



The VSV permanent magnet variable frequency vacuum pump can achieve energy savings of up to 45% over its operating lifecycle compared to comparable power frequency models.



VSV Series

Permanent Magnet Variable Frequency Oil Screw Vacuum Pump Specifications

Model	Motor Rating	Volume Flow Rate	Ultimate Pressure	Inlet Size	Out Size	External Length	External Width	External Height	Weight
	kW	m^3/h	mbar(a)	--	--	mm	mm	mm	kg
VSV590	7.5	570	0.35	DN80	DN50	1650	1200	1300	850
VSV740	11	730	0.35	DN80	DN50	1650	1200	1300	880
VSV910	15	910	0.35	DN80	DN50	1650	1200	1300	920
VSV1300	22	1260	0.35	DN150	DN100	2150	1500	1600	1750
VSV1600	30	1600	0.35	DN150	DN100	2150	1500	1600	1860
VSV2000	37	1820	0.35	DN150	DN100	2150	1500	1600	1950
VSV3100	45	3100	1.0	DN200	DN150	2900	2100	1850	4380
VSV3900	55	3830	1.0	DN200	DN150	2900	2100	1850	4500
VSV4500	75	4480	1.0	DN200	DN150	3350	2250	2200	5250
VSV5400	90	5000	1.0	DN200	DN150	3350	2250	2200	5490