FSCURTIS®

W Series

Air Compressors

3 ~ 20HP

W series

Oil free air compressor (air cooled)
Capacity(FAD):0.22~ 1.8 m^3/min
Pressure:8~12.5 Bar

Feature

Dry crankcase, 100% oil free

Dry compression chamber is always not enough!
FSCURTIS total oil free compressor uses dry crankcase design.
Absolutely no risk of oil residue carried to compression chamber.

Cooling system

- High efficiency cooling fan transmits great amount of heat.
- Better performance results from multi stages of compression.
- Compact streamlined air passages on the cylinder and head enhance cooling effect.
- 2-stage compression for 7.5HP and above models reduces power consumption and less heat accordingly.
- The copper tube between stages is fitted with cooling fins to reduce operating temperature effectively.

Low rotational speed, long service life

- Industrial design of compressor ring reduces leakage and results in lower speed and longer life.
- Leaf valve with advantages of smaller clearance volume, better sealing effect and lower pressure drop drastically reduces leakage and expansion of the compressor resulting in lower speed and longer life.

100% oil free, 100% duty cycle

Oil free compressed air for high quality demand

Bearings: High precision grease-lubricated bearings. High temperature-resistant grease ensures long service life and constant operation.

Compression rings and guide rings: High precision machining along with self-lubricated material which resists wear and high temperature.
Stainless, elastic structure enhances sealing effect and durability.

Intake valve: corrosion free leaf valve made of stainless steel coated with high temperature-resistant material effectively reduces noise and improves service life. 100% duty cycle is assured.

Connecting rod: made of die-casting aluminum alloy is highly rust-resistant with great strength. CNC precise machining process ensures stable compressor operation.

- Piston: casting with compact ingredient, precise machining followed by grinding. Surface coating with self-lubricated material.
- Ventilation of crankcase: crankcase fitted with ventilation system on both sides enormously reduces operating temperature to increase bearing service life.

Technical specifications

Model		VW-30	VW-50	TW-75	TW-100	TW-150	TW-200	TWH-200
Power	HP	3	5	7.5	10	15	20	20
	kW	2.2	3.7	5.5	7.5	11	15	15
Capacity	CFM	8	15	23	30	44	58	64
	m^3/min	0.22	0.42	0.65	0.85	1.25	1.65	1.8
Pressure	bar	8	8	8	8	8	8	7
Tank	Liter	114	114	240	250	250	410	410
Dimensions	L mm	1340	1440	1555	1680	1680	1832	1832
	W mm	520	500	620	600	600	715	715
	H mm	975	975	1300	1350	1350	1524	1524
Weight	kg	205	222	410	485	530	663	665

Model		TW-75H	TW-100H	TW-150H	TW-200H	HTW-75	HTW-100
Power	HP	7.5	10	15	20	7.5	10
	kW	5.5	7.5	11	15	5.5	7.5
Capacity	CFM	21	26	35	53	18	24
	m^3/min	0.6	0.75	1	1.5	0.5	0.67
Pressure	bar	10	10	10	10	12.5	12.5
Tank	Liter	240	240	250	410	240	240
Dimensions	L mm	1555	1555	1680	1832	1555	1555
	W mm	620	620	600	715	620	620
	H mm	1300	1300	1350	1524	1300	1300
Weight	kg	410	425	532	665	412	425

*VW-30 . VW-50 one stage compression,others two stage compression.

Capacity (FAD) is measured in accordance with ISO 1217,3rd edition,Attachment C 1996.

HOW TO SELECT THE CORRECT AIR COMPRESSOR MODEL

By air quality requirement and operating environment

Follow the selected compressor series and operating environment to choose the correct driving motor. For example, the motor can be 1-phase 220V/230V or 3-phase-415V.

By operating pressure

Use the result of exhaust pressure divided by actual operating pressure, plus the pressure drop due to pipe line and cleaning system.

By actual operating air flowrate

Consider the factors of air consumpion cycle, peak air flowrate, air storage capacity, possible leakage and future expansion plan to determine required operating air flowrate. Normally, the air flowrate selected should be 20% in excess of the actual operating requirement.

Other

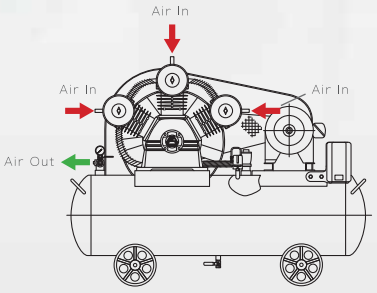
For FSCURTIS air compressors, if the power rating is 2HP or above, please choose 3-phase driving motor. For the above interpretations, we hope to help customers select the most suitable and economic compressor model to use. If you have any questions, feel free to consult our agent/dealer.

Semi-automatic type:

This type uses a pilot valve to control the loading or unloading operation of the compressor. When the system pressure reaches the unloading point(7 0 Bar for example,) pilot valve will open to actuate suction unloader to allow compressor to unload. When system pressure drops down to loading point(5.0 Bar,for example), pilot valve will close and compressor returns to loading status. The semi-automatic operating method is suitable for frequent use of compressed air.

Fully-automatic type:

This type uses a pressure switch to control the compressor to start and stop. When the system pressure reaches the unloading point (7.0 Bar, for example) pressure switch cuts off the motor and stops compressor operation. When system pressure drops down to loading point (5.0 Bar, for example), pressure switch re-connects the motor to re-strat compressor operation. The automatic operating method is suitable for intermitten use. In order to protect motor and EM switch, the restart frequency should not exceed six times per hour.



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