



# Oilfree

**100% oil-free  
design**

## W SERIES



**Oil-free, Air-cooled Piston Air Compressor**

### Wide-ranging application

- Medical Air for Hospital
- Electronics Manufacturing
- Food Processing
- Pharmaceutical
- Biochemical
- Petrochemical
- Precision Painting

### Salient features

- 100% Duty Cycle
- Low Speed
- Low Power
- Low Spares Cost
- High Efficiency
- Low Temperature



# Features

## Dry crankcase, 100% oil free

Dry compression chamber is always not enough! FS CURTIS 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 fans 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.

# 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 aluminium 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.

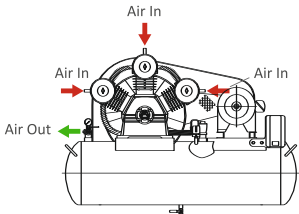
## Technical Specifications

Number of Stages			Single Stage		Two Stage								
New Model			VW-30	VW-50	TW-75	TW-100	TW-150	TW-200	TWH-200	TW-75H	TW-100H	TW-150H	TW-200H
Power	HP		3	5	7.5	10	15	20	20	7.5	10	15	20
	kW		2.2	3.7	5.5	7.5	11	15	15	5.5	7.5	11	15
Capacity*	CFM		16	27	31	38	56	71	75	31	33	56	66
	m³ /min		0.44	0.77	0.87	1.08	1.58	2.02	2.12	0.87	0.94	1.58	1.86
Pressure	bar		8	8	8	8	8	8	7	10	10	10	10
Tank	Liter		114	114	240	250	250	410	410	240	240	250	410
Dimensions	mm	L	1340	1440	1555	1680	1680	1832	1832	1555	1555	1680	1832
		W	520	500	620	600	600	715	715	620	620	600	715
		H	975	975	1300	1350	1350	1524	1524	1300	1300	1350	1524
Weight	kg		205	222	410	485	530	663	665	410	425	532	665

\*Compressor tested as per IS 5456: 1985: Code of practice for testing performance of positive displacement type air compressors.  
Due to continuous engineering improvements, design and specifications are subject to change without prior notice.

## Options

- Tank mounted compressor with wheels
  - Skid mounted compressor
  - Compressor with non-standard tanks
- Compressor Bare Block
  - Compressor without electricals
  - Compressor for special applications



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