



Industrial Guidance

**PRYES**<sup>®</sup>

**SCREW AIR COMPRESSOR**



SCREW AIR COMPRESSOR



PROCESSED BY   
**GERMAN KAPP**  
**GRINDING MACHINE**



**ENERGY EFFICIENT**  
**SCREW AIR COMPRESSOR**

[www.prscompressors.com](http://www.prscompressors.com)

### Filter System

- Double imported safety filter core improve air filtration effect, long service life, large filtration area, Low suction resistance, improved air inlet efficiency. Especially in a dusty environment, like the cement industry, textile industry, fiber industry, chemical industry, etc.
- Enlarge oil separator core size, better separation effect, Reduce the pressure drop during the operating period, Improve system efficiency.



### Intake Valve

- Optimizes the inlet flow of the air end.
- No blow-off losses / Large suction area
- Full aluminium design: maintenance-free.
- Fast check: prevent unloading and shutdown oil injection.



### TEFC Motor (IEC Standard)

- TEFC, IP 55(IP 23, IP54 Optional) Protection Grade, F Grade Insulation, S1 Duty ensures stable running even in 24-hour / 7-day applications. Top-quality SKF motor bearings ensure long service life.



### Intelligent Controller

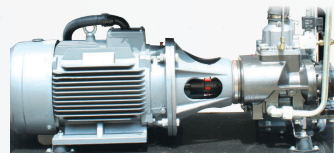
- Intelligent human Interface Automatic trouble diagnosis, Automatic Alarm equipped with remote control customization model.
- Cumulative Report (Run Hours, Load Hours, Unload Hours, Stop Hours, Fault Hours).
- Fault History Reports Monitoring.



**SINGLE  
STAGE**



**TWO  
STAGE**



### Energy Saving Variable Frequency Drive

- **Electrical**
- Low Starting Current
- High Efficiency
- Improved Power Factor
- Reduced maximum demand
- **Mechanical**
- Minimum Maintenance
- Smooth Start
- Smooth Control

### One-to-one Gear Less Direct Drive Screw Air Compressor

- At low speed 2950 RPM large air end are more efficient than the high speed air ends, delivering more compressed air for same drive power, lower speed means increased efficiency and surability with reduced compressed air cost, less wear & less maintenance cost.

### Air End

- Original Imported Air end Advanced SAP profile design
- The material of the rotors is American specialty steel, Third Generation 5:6 male and Female helical type.
- Superior Sweden SKF element bearings.



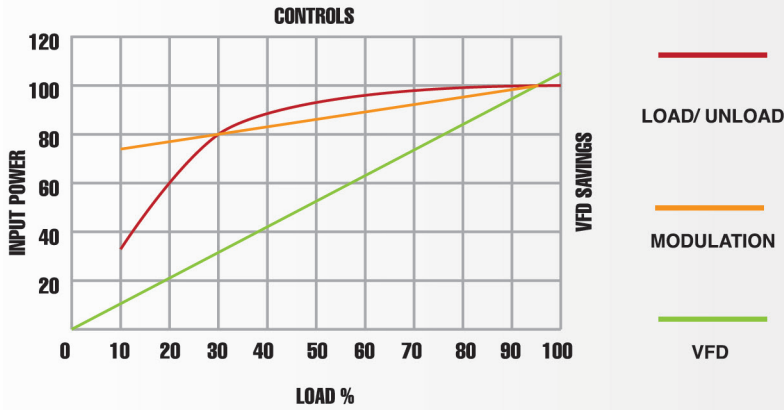
## Features

- Two years of warranty for screw air end.
- Oil cooler designed for 45°C ambient temperature.
- Parts designed with Universal standard / design code.
- Consumable cost is low upto 35 % (compared to others).
- Thermostatically operated motor.

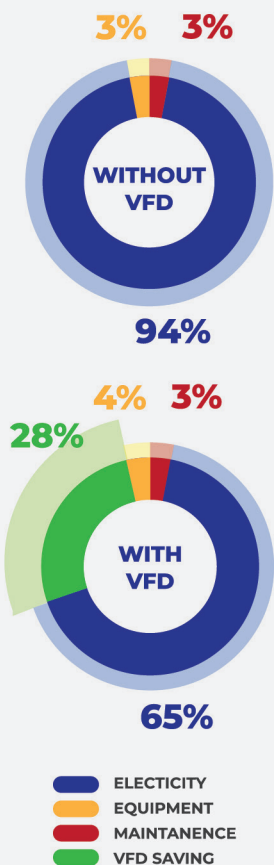
## Specification (PM Model)

Model name	Capacity (CFM)	Working pr. (Kg/Cm <sup>2</sup> )
PRSPMV 30D	127.15	8.00
PRSPMV 40D	176.67	8.00
PRSPMV 50D	218.98	8.00
PRSPMV 60D	271.96	8.00
PRSPMV 75D	356.73	8.00
PRSPMV 100D	469.75	8.00
PRSPMV 120D	547.46	8.00
PRSPMV 150D	724.06	8.00
PRSPMV 175D	883.00	8.00
PRSPMV 200D	974.83	8.00

## Technical specification of VFD Screw compressor



## Ten year life cycle cost



Model Name	Power (KW)	Power (HP)	RPM min	Pressure BAR	Free Air Delivery CFM	Noise (db)	Dimensions L X B X H	Weight (Kg)	Air Outlet (Inch/mm)
PRS - 10D	7.50	10	2900	07	45.92	62+2	950 x 670 x 950	240	G 3/4"
				08	38.85				
				10	33.55				
				12	30.37				
PRS - 15D	11	15	2900	07	65.34	62+2	1050 x 700 x 1125	320	G 1"
				08	57.21				
				10	49.44				
				12	46.26				
PRS - 20D	15	20	2900	07	91.83	62+2	1050 x 700 x 1125	350	G 1"
				08	88.30				
				10	77.70				
				12	56.86				
PRS - 25D	18.50	25	2900	07	113.02	63+2	1300 x 850 x 1160	480	G 1"
				08	109.49				
				10	92.53				
				12	74.17				
PRS - 30D	22	30	2900	07	134.21	63+2	1300 x 850 x 1160	520	G 1"
				08	127.15				
				10	113.02				
				12	98.90				
PRS - 40D	30	40	2900	07	183.66	63+2	1500 x 1000 x 1300	640	G 1 1/2"
				08	176.67				
				10	158.94				
				12	134.21				
PRS - 50D	37	50	2900	07	240.17	63+2	1500 x 1000 x 1300	685	G 1 1/2"
				08	218.98				
				10	197.79				
				12	173.06				
PRS - 60D	45	60	2900	07	282.56	68+2	1500 x 1000 x 1300	710	G 1 1/2"
				08	271.96				
				10	247.24				
				12	204.85				
PRS - 75D	55	70	2900	07	381.45	68+2	1600 x 1250 x 1550	1250	G 2"
				08	356.73				
				10	317.88				
				12	300.22				
PRS - 100D	75	100	2900	07	480.35	70+2	1600 x 1250 x 1550	1350	G 2"
				08	469.75				
				10	409.71				
				12	353.20				



Single Stage  
Piston Compressor



Two Stage  
Piston Compressor



Multi Stage  
Piston Compressor

## OUR PRODUCTS



Dental  
Compressor



Oil Free  
Air Compressor



Refrigeration Type  
Air Dryer

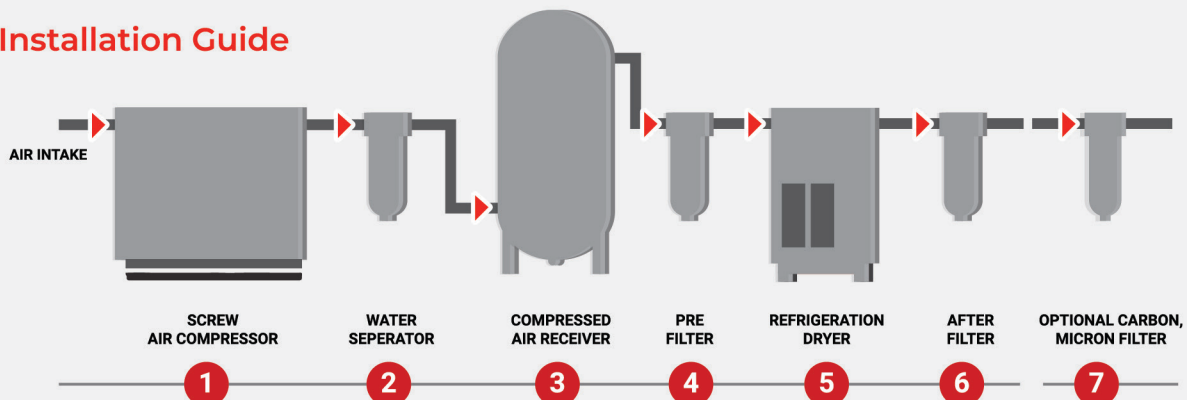


PM VSD Speed Low Pressure  
Screw Air Compressor



Fixed / PM VSD Speed  
Screw Air Compressor

### Installation Guide



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