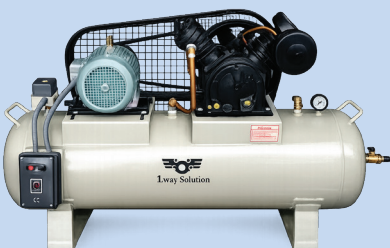




1 way Technologies

# TOTAL COMPRESSED AIR SOLUTION

Air Compressors & Air Dryers



[www.1waysolution.in](http://www.1waysolution.in)



## PRODUCT RANGE

Screw Air Compressor

Reciprocating Air Compressor

Booster Air Compressor

Oil-Free Air Compressor

Silent Oil-Free Air Compressor

Refrigerated Air Dryer



QUALITY



PERFORMANCE

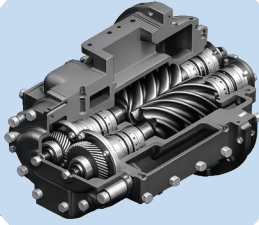


1 way Technologies

# SCREW AIR COMPRESSOR –

## Technical Details .....

### AIR-END



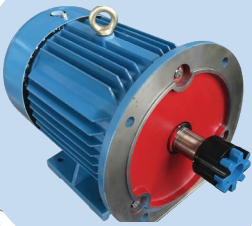
- The compact air end design and efficient power transmission ensure energy efficiency and reliable performance.
- The third-generation asymmetric twin-screw air end features a high-efficiency, low-pressure tooth profile and axial air inlet design.
- Optimized rotor lobe combination provides high volumetric efficiency and flow rate.
- Forged rotors ensure greater durability and strength.

### INTAKE VALVE



- Guided suction filter reduces pressure drop and noise.
- Automatically adjusts air volume from 0–100% as required.
- Two-stage filtration ensures clean air with 99.95% efficiency.

### MOTOR



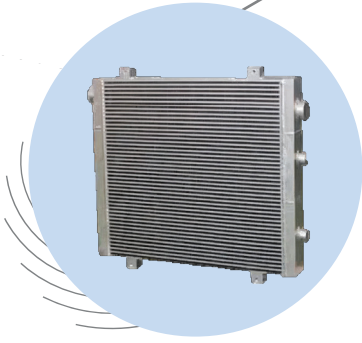
- Efficiency class as per IE2 (IE3 motors can be provided as an option).
- Suitable for site conditions as per IP55, Class F insulation.
- Uses high-performance motors from well-known brands. Permanent magnet synchronous motors (PM motors) use high-performance NdFeB permanent magnets, which do not lose magnetism under 200° C and have a service life of up to 15 years.

### CONTROLLER



- PLC multi-language control system with a user-friendly interface and easy operation; operators can quickly adjust the compressor.
- Includes 14 protection functions such as overload, short circuit, reverse rotation, low temperature, and high-voltage protection, ensuring full unit safety.
- Advanced microcomputer control system enables intelligent control, variable speed air volume control, automatic load adjustment, and soft start, with dynamic display of pressure, temperature, current, and operating status.

## COOLER



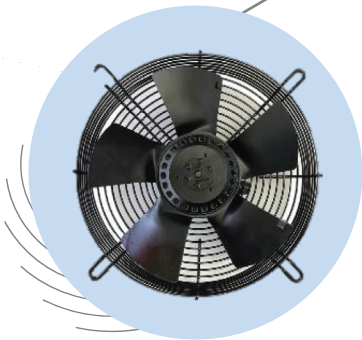
- High-quality heat exchanger with a unique internal channel design increases heat exchange area and improves heat dissipation.
- Corrosion-protected inner walls enhance durability and improve heat transfer efficiency.
- Factory-tested radiator ensures reliable performance, prevents overheating, and extends machine life.

## AIR FILTER



The air filter adopts a design with high dust-holding capacity and low flow resistance, effectively filtering fine particles. The dust removal efficiency reaches up to 99%, ensuring normal system operation and extending service life.

## FAN MOTOR



- Large fan design enhances heat dissipation efficiency, and the motor features a special internal design for harsh working conditions.
- The fan motor uses special winding and a high protection grade design to withstand demanding environments.
- The fan is controlled by the controller to enable automatic start and stop, effectively maintaining the normal operating temperature of the air compressor lubricant.

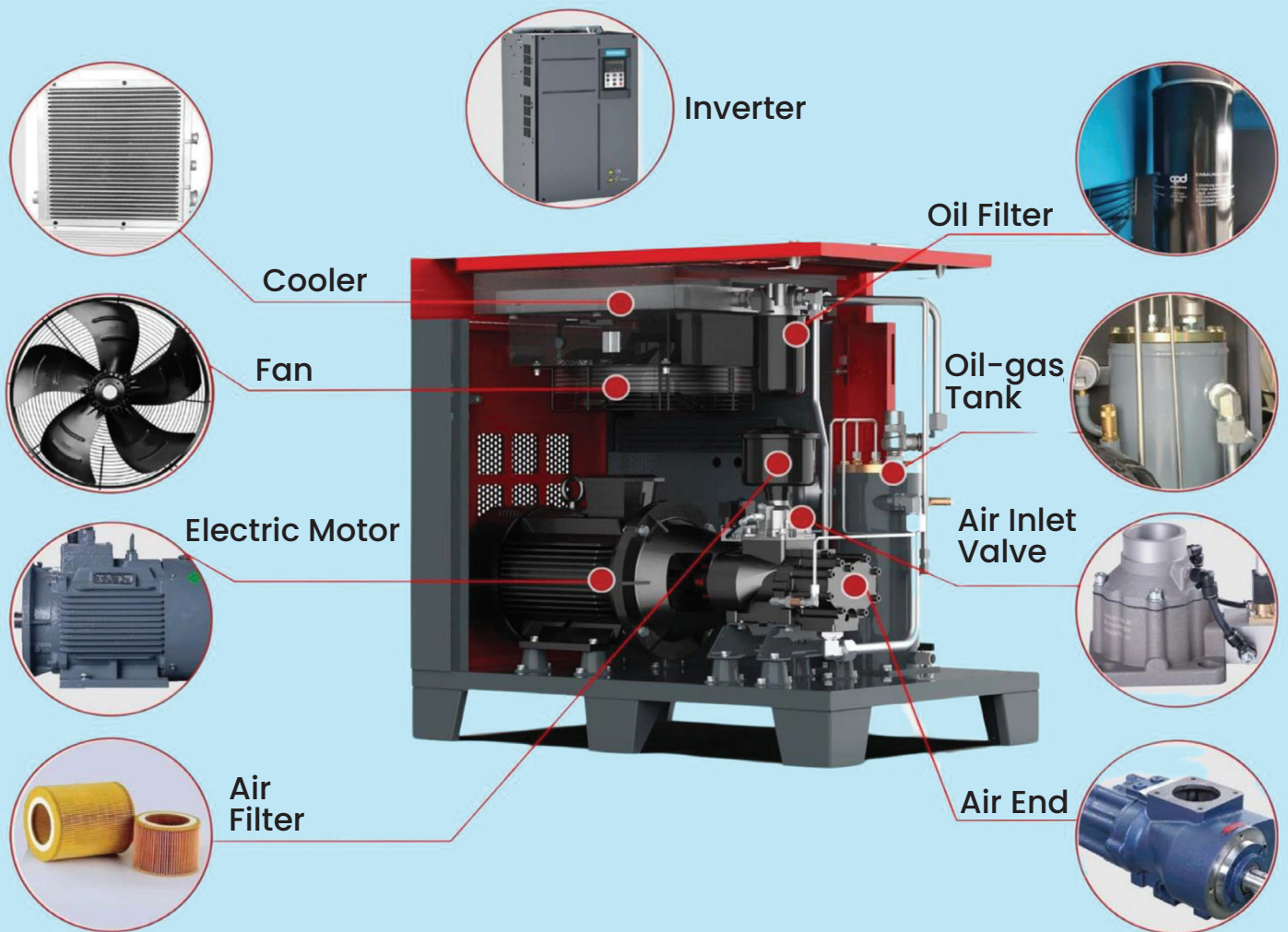
## OIL FILTER



- The oil filter adopts high-density filter material; the surface is treated with a non-electroplated finish.
- The filter element has uniform pore size, low resistance, high flow rate, strong interception ability, and a long service life.
- High filtration accuracy effectively removes impurities in the lubrication oil and prolongs the service life of the equipment.

# SCREW AIR COMPRESSOR

## Details



# SCREW AIR COMPRESSOR CHART FIXED SPEED

Model	Pressure	Motor Rating (kW)	CFM	L × B × H (mm) Weight (Kg)	Noise (dB)	Outlet
1Way - 10 HP D	08 / 10 / 13	7.5	46 / 34 / 30	900 × 600 × 800 / 220	60 ± 2	G 1/2"
1Way - 15 HP D	08 / 10 / 13	11	65 / 46 / 39	1100 × 730 × 980 / 350	62 ± 2	G 3/4"
1Way - 20 HP D	08 / 10 / 13	15	88 / 71 / 60	1100 × 730 × 980 / 360	62 ± 2	G 3/4"
1Way - 25 HP D	08 / 10 / 13	18.5	113 / 95 / 78	1200 × 880 × 1080 / 510	64 ± 2	G 1"
1Way - 30 HP D	08 / 10 / 13	22	131 / 113 / 99	1200 × 880 × 1080 / 510	64 ± 2	G 1"
1Way - 40 HP D	08 / 10 / 13	30	181 / 160 / 124	1460 × 980 × 1230 / 650	66 ± 2	G 1½"
1Way - 50 HP D	08 / 10 / 13	37	240 / 191 / 138	1460 × 980 × 1230 / 700	66 ± 2	G 1½"
1Way - 60 HP D	08 / 10 / 13	45	275 / 242 / 212	1460 × 980 × 1230 / 780	66 ± 2	G 1½"
1Way - 75 HP D	08 / 10 / 13	55	365 / 307 / 265	1750 × 1280 × 1590 / 1250	68 ± 2	G 2"
1Way - 100 HP D	08 / 10 / 13	75	476 / 410 / 346	1750 × 1280 × 1590 / 1350	68 ± 2	G 2"
1Way - 120 HP D	08 / 10 / 13	90	561 / 501 / 419	2450 × 1660 × 1700 / 1950	70 ± 2	G 2½"
1Way - 150 HP D	08 / 10 / 13	110	717 / 600 / 516	2450 × 1660 × 1700 / 2200	70 ± 2	G 2½"
1Way - 175 HP D	08 / 10 / 13	132	883 / 706 / 636	2450 × 1660 × 1700 / 2500	70 ± 2	G 2½"
1Way - 220 HP D	08 / 10 / 13	160	1035 / 930 / 740	2700 × 1460 × 1900 / 3480	78 ± 2	G 3"

**Note:**

- High altitude, high temperature, high humidity, high dust loads or other adverse working conditions will affect the standard parameters.
- Screw Air Compressor is available with inbuilt air dryer (Refrigerated) and Variable Frequency Drive (also known as Inverter or VFD).
- We reserve the right to improve the appearance and specifications without prior notice.

# RECIPROCATING AIR COMPRESSOR



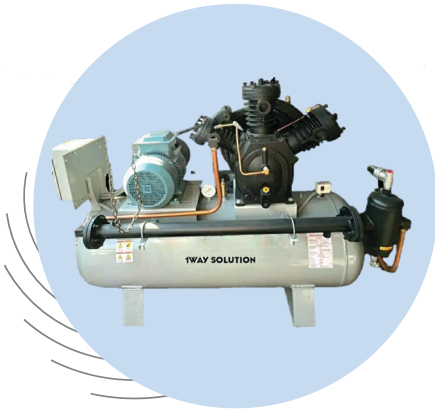
- Air compressor range: 1 HP to 25 HP
- Easy maintenance.
- World-class quality at a genuine price.
- Completely balanced, vibration-free, and low-noise operation.
- Easy availability of spare parts at economical prices.
- A rugged cast-iron design, ideal for heavy-duty and continuous operation.



## TECHNICAL DATA SHEET

Model	Motor HP	Compressor RPM	No. of Cylinder	Piston Displacement	Free Air Delivery (CFM)	Max Working Pressure (psig)	Max Working Pressure (bar)	Air Receiver Tank (Litre)
AC-1	1	600	1 OR 2	4.125	2.80	125	8.62	70
AC-2	2	600	1 OR 2	8.250	5.90	175	12.3	100
AC-234	3	866	2	9.790	8.70	175	12.3	160
AC-242	5	900	2	17.32	15.80	175	12.3	225/250/300
AC-253	7.5	660	2	26.40	21.70	175	12.3	250/300/500
AC-2600	10	880	2	37.80	28.50	175	12.3	300/500
AC-71T2	10	880	2	40.20	35.00	175	12.3	300/500
AC-71T2	12.5	720	2	49.60	42.00	175	12.3	500
AC-15T	15	675	2	63.40	45.50	175	12.3	500

# MULTI STAGE HIGH PRESSURE RECIPROCATING AIR COMPRESSOR

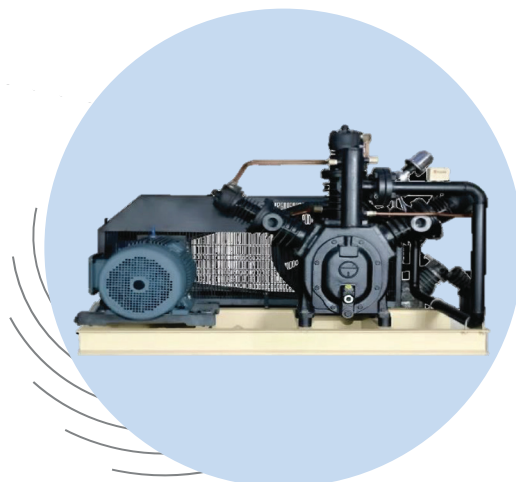


Oil free piston-type air compressor available for up to 20 HP, with maximum working pressure of 8bar. (The design of oil-injected and oil-free piston compressors is similar.)

1 WAY-531	3.00	2	7.40	4.80	500	35.15	150
1 WAY-532	5.00	2	10.80	6.80	500	35.15	200
1 WAY-57T2	10.00	2	32.23	19.70	500	35.15	300
1 WAY-57T2	12.50	2	36.00	21.60	500	35.15	300
1 WAY-515T2	15.00	3	41.25	31.41	500	35.15	300
1 WAY-515T2	20.00	3	49.50	37.70	640	45.00	500
1 WAY-515TH	15.00	3	48.60	41.10	500	35.15	500
1 WAY-515TH	20.00	3	65.42	54.30	370	25.80	500
1 WAY-515TH4	25.00	3	88.30	74.00	370	25.80	500
1 WAY-515DP1	20+20	3+3	126.40	108.00	370	25.80	500
1 WAY-515DP2	25+25	3+3	176.00	148.00	370	25.80	500

## BOOSTER AIR COMPRESSOR

Booster air compressors are available up to 25 HP, with air pressure up to 35 kg/cm<sup>2</sup> (150 CFM), as per customer requirements.



# OIL FREE SILENT AIR COMPRESSOR

A silent oil-free air compressor is designed to produce high-quality, oil-free compressed air. This is essential for applications such as painting, spray finishing, and medical use, where even a trace of oil can damage equipment.



## TECHNICAL DETAILS

MODEL	Power		Exhaust Volume		Pressure		Noise (dB)	Rated Voltage (V/Hz)	Tank Capacity (Liter)
	kW	HP	LPM	CFM	bar	PSI			
1WAY-4.4	3.3	4.4	600	21.1	8	116	≤ 70	240/50	150
1WAY-6	4.5	6	720	25.4	8	116	≤ 70	240/50	150
1WAY-4	3	4	540	19.0	8	116	≤ 70	240/50	150
1WAY-3	2.2	3	400	14.1	8	116	≤ 70	240/50	180
1WAY-4.5	3.3	4.5	600	21.1	8	116	≤ 70	240/50	180
1WAY-6	4.4	6	800	28.2	8	116	≤ 70	240/50	180
1WAY-8	6	8	960	33.8	8	116	≤ 70	240/50	180
1WAY-8.1	6	8	960	33.8	8	116	≤ 70	240/50	180
1WAY-3	2.2	3	400	14.1	8	116	≤ 70	240/50	230
1WAY-4	3	4	480	16.9	8	116	≤ 70	240/50	230
1WAY-8	3.3	4.4	600	21.1	8	116	≤ 70	240/50	230
1WAY-8.1	4.5	6	720	25.4	8	116	≤ 70	240/50	230

# REFRIGERATED AIR DRYER

## BASIC TECHNICAL DETAILS.....

### HEAT EXCHANGER



**Tube-to-tube:**  
High-efficiency air-to-refrigerant heat exchanger with an inbuilt moisture separator, made from copper.

**Shell & tube:** Air-to-air and air-to-refrigerant heat exchanger with an inbuilt moisture separator. The air-to-air pre-cooler helps reduce inlet air temperature.

**3-in-1 heat exchanger:** We are among the first in the industry to offer a 3-in-1 heat exchanger:

- (1) air-to-fan
- (2) air-to-air
- (3) air-to-refrigerant

This helps reduce the load on the air dryer.

### CONDENSER



- A high-quality copper tube with aluminum fins is designed to operate at ambient temperatures up to 50°C, ensuring durability and efficient heat exchange.

- The easy-to-clean aluminum fins facilitate maintenance and help maintain optimal heat transfer performance over time.

### AUTO DRAIN



- Our auto drain valve efficiently removes condensate from compressed air systems, ensuring optimal performance and prolonging equipment lifespan.

- The drain valve operates every 3 to 16 minutes to remove accumulated water.

### REFRIGERATION COMPRESSOR



Uses a standard industrial refrigeration compressor for smooth performance, low noise, energy efficiency, higher ambient temperature operation, and long service life.

### TEMPERATURE CONTROLLER



- Automatic temperature control.
- Fan motor control & indication.
- Hot gas bypass valve control & indication.
- Drain control.
- Dew point control.
- Touch & key option.

### REFRIGERANT



We offer eco-friendly refrigerants in our models: R-407C, R-134A, and R-404A.

# AIR DRYER- 3 IN 1 (CUSTOMISED)

Only IWay Technologies offers a 3-in-1 heat exchanger as a customised option.

## Benefits of 3-in-1 heat exchanger:

- No load on air dryer.
  - Up to 80°C inlet temperature.
  - Helps reduce inlet temperature.
  - Smooth operation.
  - Customised as per customer requirements (design – inlet & outlet conditions).
  - Long service life.
- Range starts from 700 CFM and above.  
(3-in-1 heat exchanger is optional.)



## TECHNICAL SPECIFICATION

Sr. No.	Model	Nominal Capacity		Electrical Connection		3-in-1	Water-Cooled	Rated Power kW
		CFM	M <sup>3</sup> /H	1-Phase	3-Phase			
1	2	20	34	✓	-	-	-	0.15
2	4	40	68	✓	-	-	-	0.20
3	6	60	102	✓	-	-	-	0.40
4	8	80	136	✓	-	-	-	0.50
5	10	100	170	✓	-	-	-	0.60
6	15	150	255	✓	-	-	-	0.90
7	20	200	340	✓	✓	-	-	1.20
8	25	250	425	✓	✓	-	-	1.40
9	30	300	510	✓	✓	-	-	1.60
10	40	400	680	-	✓	-	-	1.90
11	50	500	850	-	✓	-	-	2.30
12	60	600	1020	-	✓	-	-	2.80
13	70	700	1189	-	✓	✓	✓	3.70
14	80	800	1360	-	✓	✓	✓	4.20
15	100	1000	1699	-	✓	✓	✓	5.00
16	120	1200	2039	-	✓	✓	✓	5.45
17	150	1500	2550	-	✓	✓	✓	

# INDUSTRIES WE SERVE

- Food and beverage processing
- Pharmaceutical manufacturing
- Chemical processing
- Automotive manufacturing
- Textile production
- Electronics manufacturing
- Printing and packaging
- HVAC (Heating, Ventilation, and Air Conditioning)
- Aerospace manufacturing
- Pulp and paper production
- Biotechnology and life sciences
- Cosmetics manufacturing
- Cement and concrete production
- Glass manufacturing
- Pharmaceutical compounding
- Rubber and tire manufacturing
- Woodworking and furniture manufacturing
- Dairy processing
- Beverage dispensing and vending
- Research and development laboratories
- Plastics manufacturing
- Metal fabrication
- Mining and mineral processing
- Water treatment and wastewater management
- Semiconductor manufacturing
- Renewable energy (wind and solar)
- Defense and military applications
- Environmental testing and monitoring
- Telecommunications
- Automotive service and repair
- Commercial and industrial cleaning
- Leisure and recreation (e.g., amusement parks, sports facilities)
- Transportation (railways, marine, and aviation)
- Agriculture and farming
- And many more...



**1 way Technologies**

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