

1WAY SOLUTION

[Http://Screwaircompressors.in](http://Screwaircompressors.in)



AIR COMPRESSOR

- SCREW AIR COMPRESSOR
- RECIPROCATING AIR COMPRESSOR
- BOOSTER AIR COMPRESSOR
- OIL FREE AIR COMPRESSOR
- SILENT OIL FREE AIR COMPRESSOR

AIR DRYER

- 1WAY-TT (TUBE & TUBE)
- 1WAY-TT-HP(HIGH PRESSURE)
- 1WAY-SS (SHELL & TUBE)
- 1WAY-SS-HP (HIGH PRESSURE)
- 1WAY-3IN1 (CUSTOMISED)

SCREW AIR COMPRESSOR-TECHNICAL DETAILS

AIR-END



- The compact design of air end, along with its high-efficiency and reliable arrangement for transmission of power, makes the compressor energy-efficient and the machine's overall performance reliable.
- top-level third-generation asymmetric wire twin-screw air end, adheres to the exquisite manufacturing process, adopts the peak high efficiency low-pressure, high-efficiency tooth shape and axial air inlet design.
- Equipped with the best rotor lobe combination to get good volumetric efficiency resulting in high flow rate.
- Forged rotors which lead to higher durability and strength.

INTAKE VALVE



- Guided suction filter helps to lower pressure drop as well as noise.
- It can automatically adjust the air volume by 0-100a% according to the requirement
- Cleaner air ensured all the time with the two-stage filtration with efficiency of 99.95%

MOTOR



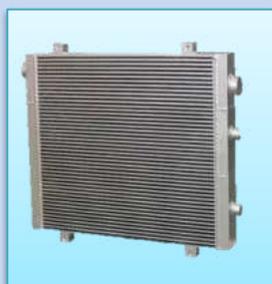
- Efficiency class as per IE2 (can provide IE3 motors as an option)
- Suitable for site conditions as per IP55, class F insulation
- The motor uses high-performance motors of well known brands Permanent magnet synchronous motors (PM motors) use high-performance NdFeb permanent magnets which will not lose magnetism under 200' and its service life reaches as long as 15 years.

CONTROLLER



- Adopts PLC multi language control system, beautiful and intuitive interface, easy to operate function, operators can quickly and easily adjust the compressor.
- 14 protection functions such as overload protection, short circuit protection, reverse protection, low temperature protection, high voltage protection, etc to fully protect the unit.
- The advanced microcomputer control drive system realizes intelligent control, air volume variable speed control, automatic adjustment of load start and soft start Intelligent dynamic control, dynamic display of the working status of each component of the compressor, visual pressure, temperature, current working curve etc.

COOLER



- The heat exchanger uses high-quality raw materials and a unique internal channel design, which increases the heat exchange area and can effectively dissipate heat for the air compressor.
- The inner wall of the heat exchanger is treated with corrosion protection to increase the service life of the heat exchanger and increase the heat transfer effect.
- The radiator has passed the strict factory test, and the quality is reliable, which effectively prevents the high temperature of the air compressor and increases the service life of the machine

AIR FILTER



- Adopting a design with high dust holding capacity and low flow resistance, which can filter out tiny fixed particles in the air. The dust removal effect can reach 99% ensuring the normal operation of the components of the system and extending the service life.

FAN MOTOR



large fan design to effectively enhance the fan's heat dissipation effect. The motor adopts a special internal design to adapt to harsh working conditions.

The fan motor adopts special winding and high protection grade design to adapt to harsh working conditions.

The fan is controlled by the controller to realize the automatic start and stop function, which effectively maintains the normal working temperature of the air compressor lubricant.

OIL FILTER

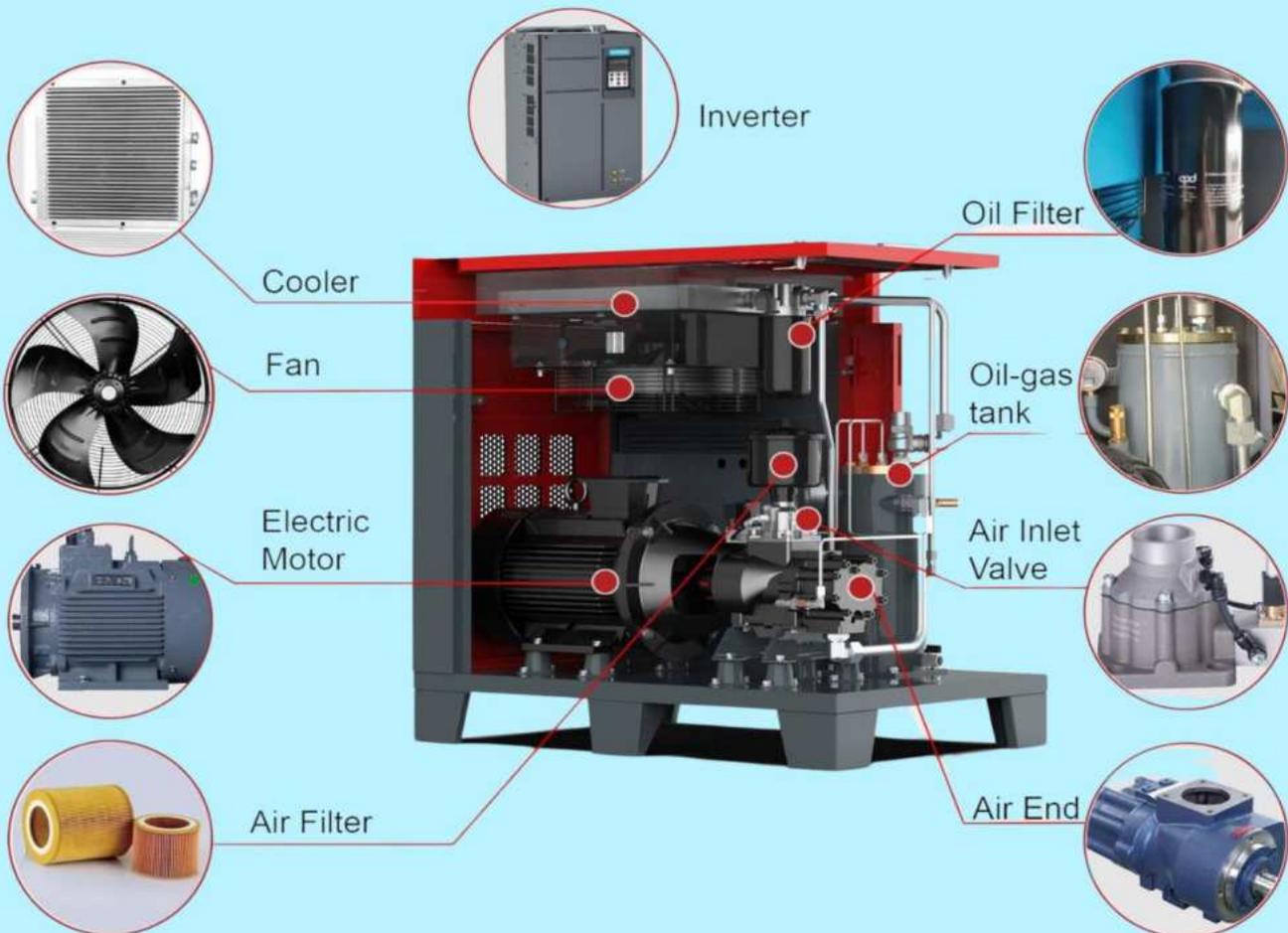


Adopts high-density filter material, the surface is treated with non-electroplating.

The filter element has uniform pore size, small filter resistance, large flux, strong interception ability and long service life.

High filtration accuracy effectively filters impurities in lubrication oil, prolongs the service life of the equipment.

SCREW AIR COMPRESSOR -DETAILS



SCREW AIR COMPRESSOR CHART FIXED SPEED

FIXED SPEED SCEW AIRCOMPRESSO

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

Note: Alpine/high altitude, high temperature, high humidity, high dust loads or other adverse working conditions will effect on standard parameter.

Screw Air Compressor is available with inbuilt air dryer (Refrigerated) and variable speed drive (invertor) other name is VFD.

We keep the right of improving the appearance of the compressor without other notice.

RECIPROCATING AIR COMPRESSOR



Air Compressor Range : 1HP TO25HP
 Easy Maintenance.
 World Class Quality At Genuine Price.
 Completed Balance ,Vibration Free & Low Sound
 Operation. Easy Availability of Spares At
 Economy Prices.
 A Rugged Cast Iron Design, Ideal For Heavy Duty
 & Continuous Operation.



TECHNICAL DATA SHEET

Model	Motor Hp	Compressor RPM	No. of Cylinder	Piston Displacement	Free Air Delivery In (CFM)	Max Working Pressure (psig)	Max Working Pressure (bar)	Air Receiver Tank (Litre)
AC-1	1	600	1 OR 2	4.125	02.80	125	8.78	70
AC-2	2	600	1 Or 2	8.250	05.90	175	12.3	100
AC-234	3	866	2	9.790	08.70	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

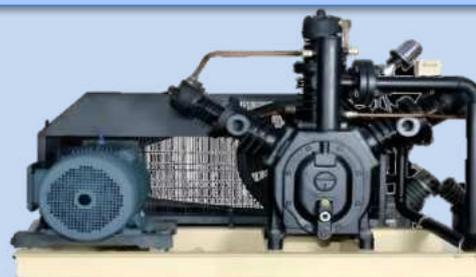
1WAY 531	3.00	2	7.40	4.80	500	35.15	150
1WAY 532	5.00	2	10.80	6.80	500	35.15	200
1WAY 57T2	10.00	2	32.23	19.70	500	35.15	300
1WAY 57T2	12.50	2	36.00	21.60	SOO	35.15	300
1WAY 515T2	15.00	3	41.25	31.41	500	35.15	300
1WAY 515T2	20.00	3	49.50	37.70	640	45.00	SOO
1WAY 515TH	15.00	3	48.60	M.10	500	35.15	SOO
1WAY 515TH	20.00	3	65.42	54.30	370	25.80	500
1WAY 515TH4	25.00	3	88.30	74.00	370	25.80	500
1WAY 51SDP1	20+20	3+3	126.40	108.00	370	25.80	SOO
1WAY 515DP2	25+25	3+3	176.00	148.00	370	25.80	SOO

**OIL FREE PISTON TYPE AIR COMPRESSOR AVAILABLE FOR UPTO 20HP
MAX WORKING PRESSURE-8BAR
(DESIGN OF OIL INJECTED PISTON & OIL FREE WILL BE SAME)**



BOOSTER AIR COMPRESSOR

**BOOSTER AIR COMPRESSOR AVAILABLE FOR UPTO 25HP
FOR UP TO 35KG AIR PRESSURE (150CFM) AS PER
CUSTOMER REQUIREMENT**



OIL FREE SILENT AIR COMPRESSOR

A silent oil-free air compressor is intended to produce high-quality, oil-free compressed air. Among all the oil-free compressor advantages, this is critical in applications such as painting and spray finishing or medical uses where even a trace of oil can harm the 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	415/50	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



1) Tube & tube: High efficiency Tube & tube type (Air to refrigerant) heat exchanger with inbuild moisture separator made from copper materials.
2) Shell & tube: Air to air & air to refrigerant heat exchanger with build in moisture separator . Air to air pre cooler help to reduce inlet air temperature .
3) 3in1 heat exchanger: We Industries 1st to provide 3in1 heat exchanger 1)Air to fan 2) air to air 3)Air to refrigerant Which help to reduce load on Air dryer.

CONDENSER



A High quality copper tube with aluminum fins designed to operate at higher ambient temperatures up to 50°C sounds like a durable and efficient heat exchanger solution. The easy-to-clean aluminum fins facilitate maintenance and ensure 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. Drain valve operating every in 3 to 16min for few minit for drain separated water.

REF.COMPRESSOR



Used Standard industrial refrigeration compressor for smooth performance ,low noise , energy sufficient ,higher embient temperature and longest life.

TEMPERATURE CONTROLLER



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

REFRIGERANT



We offers Eco-Friendly refrigerant on our Models :
R-407c , R-134A , R-404A

AIR DRYER- MODEL NO-TT & TT-HP

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- Product capacity - 20CFM -300CFM
- Working Pressure range – 3kg-16kg/cm²
- Max inlet temperature – 55c
- Evaoprator – Tube & tube (Copper made)
- Pressure dew point : 3c-7c
- Canopy : Powder Coated

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- Product capacity - 20CFM -300CFM
- Working Pressure range – 3kg-35kg/cm²
- Max inlet temperature – 55c
- Evaoprator – Tube & tube type (copper made)
- Pressure dew point : 3c-7c
- Canopy : Powder Coated

AIR DRYER MODEL- ST & ST-HP

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- Product capacity - 20CFM -3000CFM
- Working Pressure range – 3kg-16kg/cm²
- Max inlet temperature – 55c
- Evaoprator – Shell & tube type
- SS Pre Cooler
- Pressure dew point : 3c-7c
- Canopy : Powder Coated

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- Product capacity - 20CFM -3000CFM
- Working Pressure range – 3kg-40kg/cm²
- Max inlet temperature – 55c
- Evaoprator – Shell & tube type
- SS Pre Cooler
- Air to fan pre cooling (optional)
- Pressure dew point : 3c-7c
- Canopy : Powder Coated

Only 1WAY SOLUTION , provide 3in1 heat exchanger in customised option.

Benefits of 3IN1 Heat exchanger:

- No load on AIR DRYER
- Up to 80c inlet temperature
- Help to reduce inlet temperature
- Smooth Working
- Customised as per customer requirement
- (design – inlet & outlet condition)
- Longest life
Range started from : 700CFM OR +
(3IN1 heat exchange is optional)



TECHNICAL SPECIFICATION

Sr. No.	Mode l	Nominal Capacity		Electrical Connection		3IN1	WATER COOL	Rated Power kW
		cfm	m ³ /h	1-ph	3 -ph			
1	02	20	34	✓				0.15
2	04	40	68	✓				0.20
3	06	60	102	✓				0.40
4	08	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		✓	✓	✓	6.80

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 (such as 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 (including railways, marine, and aviation)
- Agriculture and farming
- Many more.....



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