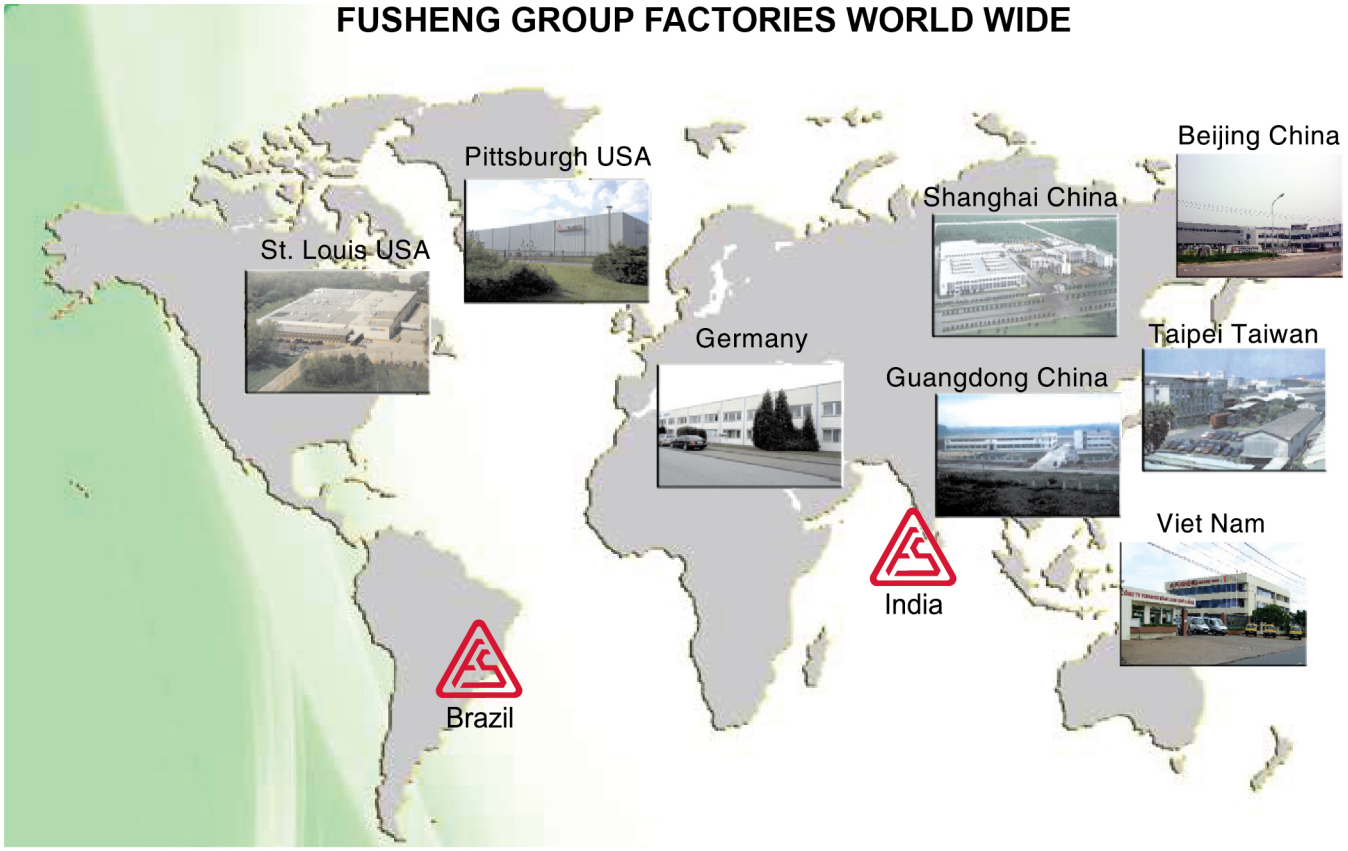
FUSHENG



PISTON - TANK - DRYER - FILTER

Green manufacturing
Sustainable development

FUSHENG GROUP FACTORIES WORLD WIDE

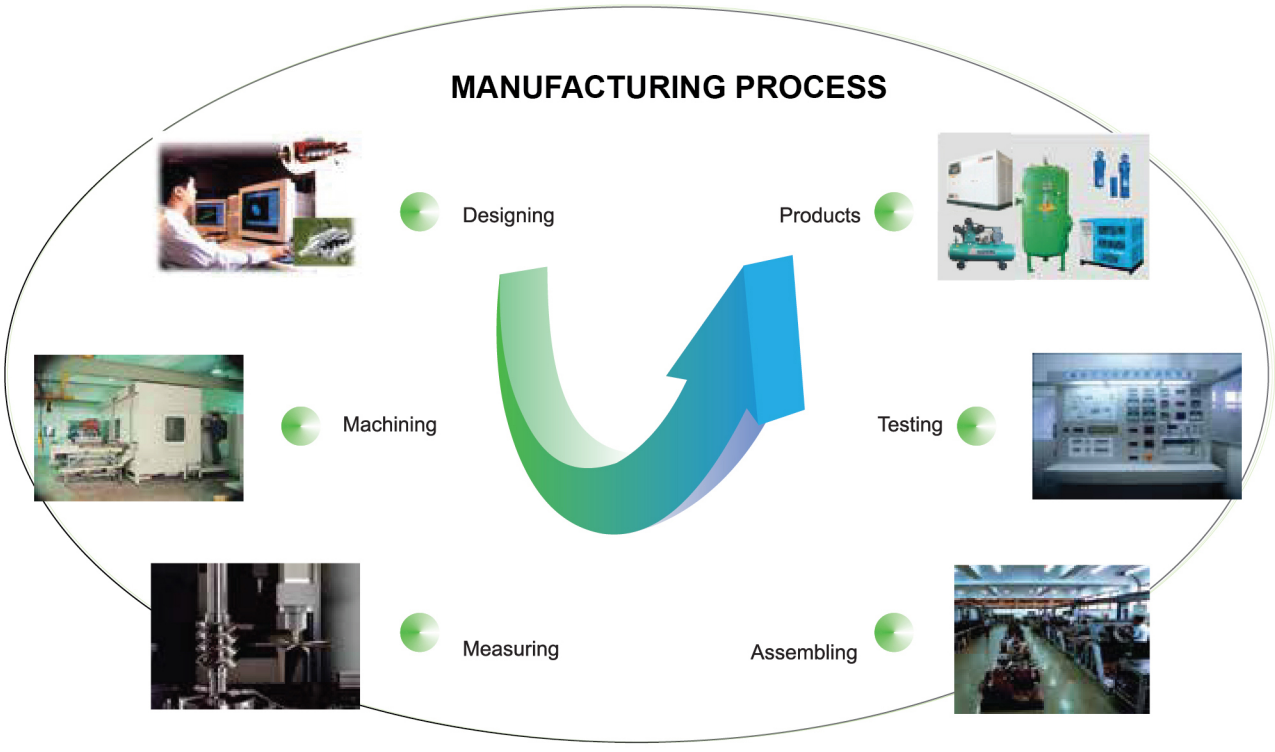


Founded in 1953, FUSHENG always strives to maintain a consistent managerial philosophy of pursuing excellence and enriching life. FUSHENG has made every effort to ensure that customers of the highest quality. After years hard work, FUSHENG has been providing compressors in more than sixty countries all over the word.

Keeping growth is the basic condition of survival in the competitive market. For years, FUSHENG has been keeping on improving manufacturing facility and technology. A plant automation project was initiated in 1978, which incorporated Managerial Information Systems (MIS), Engineering Information Systems (EIS) and Flexible Manufacturing Systems (FMS). With this integrated system, the management level is able to access the valuable information which benefits to the improvement of product design.

All of the parts and casings of the compressor are precisely milled under humidity and temperature control room and then a sophisticated coordinate measuring machine is used to inspect the dimension of finished parts. Compressor rotors dynamically balanced before assembly. Under FUSHENG quality control system, every screw compressor shall be tested before shipment.

MANUFACTURING PROCESS



2 – YEARS WARRANTY
NEW A SERIES

Two-Year Warranty for
VA-80, TA-80, VA-100, TA-100, TA-120



A-SERIES AIR COMPRESSORS

Model	Motor				Cylinder		Working pressure (MPa)	Comp. RPM	Piston Disp. (L/min)	Outlet valve	Net weight (kg)	Out side dimension (mm)	Air receiver	
	Phase	Voltage	Hp	Kw	Bore (mm)	No.							Capacity (L)	Design pressure (MPa)
VA-65	1	220	1	0.75	65	2	0.8	530	139	1/4" x 2	94	1062x388x720	70	0.9
TA-65	1	220	3	2.2	65	3	0.8	650	310	1/4" x 2	105	1062x388x743	70	0.9
	3	380	2	1.5	65	3	0.8	635	302	1/4" x 2	107	1062x388x743	70	0.9
VA-80	3	380	4	3	80	2	0.8	950	393	1/2"	156	1234x470x880	110	0.9
TA-80	3	380	5.5	4	80	3	0.8	875	791	1/2"	208	1370x540x1000	170	0.9
VA-100	3	380	7.5	5.5	100	2	0.8	950	1050	3/4"	265	1482x590x1100	230	0.9
TA-100	3	380	10	7.5	100	3	0.8	900	1465	3/4"	360	1560x620x1240	300	0.9
TA-120	3	380	15	11	120	3	0.8	800	2183	3/4"	470	1604x670x1420	360	0.9
TA-125	3	380	20	15	125	3	0.8	900	3022	1"	500	1790x760x1420	400	0.9
TA-220*	3	380	25	18.5	100	3	0.8	900	3640	1"	860	1860x1411x1547	500	0.9
					120	3		800						
TA-240*	3	380	30	22	120	3	0.8	800	4360	1"	940	1860x1407x1547	500	0.9
					120	3		800						

✱ TA220, TA240 are double-compress head and double-motor models, the marked power is the total motor power, and the number of revolutions is the number of revolutions of the two compress head respectively. Please contact us for more detailed parameters.

Green manufacturing
Sustainable development



HIGH PRESSURE AIR-COOLED AIR COMPRESSORS

Model	Motor				Cylinder		Working pressure (MPa)	Comp. RPM	Piston Disp. (L/min)	Outlet valve	Net weight (kg)	Out side dimension (mm)	Air receiver	
	Phase	Voltage	Hp	Kw	Bore (mm)	No.							Capacity (L)	Design pressure (MPa)
HTA-65	3	380	2	1.5	65	2	1.25	740	236	1/4" x 2	122	1062x388x753	70	1.4
					51	1								
HTA-65H	3	380	3	2.2	65	2	1.25	950	292	1/2"	133	1166x401x755	80	1.5
					51	1								
HTA-80	3	380	5.5	4	80	2	1.25	950	575	1/2"	227	1410x540x1000	170	1.375
					65	1								
HTA-100	3	380	7.5	5.5	100	2	1.25	680	760	3/4"	318	1534x620x1170	230	1.375
					80	1								
HTA-100H	3	380	10	7.5	100	2	1.25	920	997	3/4"	348	1560x640x1210	290	1.375
					80	1								
HTA-120	3	380	15	11	120	2	1.25	860	1560	3/4"	468	1710x680x1320	320	1.375
					100	1								
HTA-125	3	380	20	15	125	2	1.25	860	1830	1"	550	1752x708x1329	340	1.375
					95	1								
HTA-220*	3	380	25	18.5	100	3	1.25	920/860	2550	1"	930	1860x1552x1547	500	1.375
					120	2								
					80	1								
HTA-240*	3	380	30	22	120	4	1.25	860/860	3120	1"	1000	1860x1552x1547	500	1.375
					100	2								

* HTA220, HTA240 are double-compress head and double-motor models, the marked power is the total motor power, and the number of revolutions is the number of revolutions of the two compress head respectively. Please contact us for more detailed parameters.





Oil lubricate crankcase



Oil-free crankcase



Oil-free air compressor applications in industry

A 100% oil-free air compressor you required, it's not only oil-free compression chamber. With the inner design of oil-free crankcase, it can prevent the oil that rises from the crankshaft and flows freely up into down the compression chamber. We believe that you will be satisfied with this efficient fuction. On the other hand, you can be proud of using air from the oil free air compressor, it is really oil-free air.

OIL-FREE AIR COMPRESSORS

Model	Motor				Cylinder		Working pressure (MPa)	Comp. RPM	Piston Disp. (L/min)	Outlet valve	Net weight (kg)	Out side dimension (mm)	Air receiver	
	Phase	Voltage	Hp	Kw	Bore (mm)	No.							Capacity (L)	Design pressure (MPa)
FVA-30(II)	3	380	3.0	2.2	100	2	0.8	400	510	1/2"	205	1334x538x966	114	0.9
FVA-50(II)	3	380	5.5	4	100	2	0.8	700	770	1/2"	222	1440x500x975	114	0.9
FVA-75(II)	3	380	7.5	5.5	100	2	0.8	740	850	3/4"	410	1555x655x1270	220	0.9
					71	1								
FVA-100(II)	3	380	10	7.5	115	2	0.8	580	1060	3/4"	485	1680x667x1350	260	0.9
					95	1								
FTA-150(II)	3	380	15	11	130	2	0.8	660	1595	3/4"	530	1680x600x1350	260	0.9
					115	1								

The interior construction diagram of air-cooled reciprocated air compressor



1.After Cooler
The copper tube is fitted with high-efficiency cooling fins that effectively reduce gas working temperature and increase air compression efficiency.

2.Valve Assembly
All units use large disc-type valves made from Swedish steel for high efficiency and long wear

3.Cool Cylinder Heads
Deep directional fins provice quick cooling; compact streamlined air passages in the cylinder head premit fast, efficient flow of cooler intake air and rapid removal of discharge air.

4.Long-Life Cylinders
Precision-machined cylinder walls are honed glass-smooth to reduce friction and wear to a minimum. Extra-deep fins provide increased cooling and greater strength.

5.Balanced Crankshaft
Made from a high-tensile forged alloy steel and precisely ground and dynamically balanced to insure long life and smooth operation. Journals are ground precisely to extend bearing life.

6.Ring
Long life industrial design compression and oil control rings are used to assure maximum performance.

7.Connecting Rods
All units contain precision broed, industrial quality designed connecting rods ... a splash lubrication is used.

8.Main Bearings
To insure long life and easy maintenance, high quality ball bearings or tapered roller bearings are used in the FUSHENG compressors.

9.Suction Strainer
Permanent type strainer effectively filters air and muffles noise of air intake. Easily removed for periodic cleaning

10.Continuous Running Unloader
For continuous-running air compressors, unloader lets unit idle load-free until air supply drops to cut-in pressure; automatically lets unit idle again after high pressure limit is reached.(Tubing and fittings not included on bare pumps

11.Balanced Fan-Type Flywheel
Airfoil-type spokes provide a continuous powerful blast of cooling air for all portions of the compressors; balancing assures smooth vibrationless operation.

12.Crankcase
The extra large crankcase with big oil reservoir assures cooler running and better lubrication.



AIR RECEIVERS

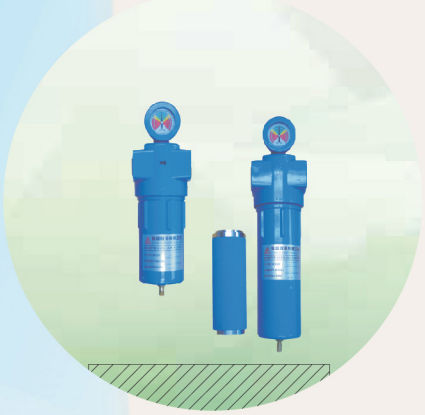
- Type:
  Horizontal, Vertical
- Working with high presure. 100% pressure test.
- To manufacture according to the standard of:
  ASME, TCVN, CNS



Technical Data

Technical data

Parameter \ Litter		300L	500L	700L	1000L	1300L	1500L	2000L	3000L	5000L
Design Pressure	kg/cm^2	10~18								
Working pressure	kg/cm^2	8~16								
Max temperature	^0C	100								



FILTER TECHNICAL INFORMATION

Filter Grade	Particle removal Down To	Oil Removal Down To (*)	Nominal Initial Pressure Drop
P	3 µ	---	0.03 bar g
U	1 µ	0.5 mg/m^3	0.05 bar g
H	0.01 µ	0.01 mg/m^3	0.09 bar g
C	---	0.003 mg/m^3	0.10 bar g

(*) Referred to 7 bar and 20 Degrees Celsius

GENERAL INFORMATION

Maximum recommended operating temperature of 60 degrees Celsiu
Minimum recommended operating temperature 1 degrees Celsius
Maximum recommended operating pressure of 16 bar
Maximum recommended pressure differential for element change is 0.6 bar.(Except Grade C)
Material for G-Type filters is aluminium
Filters come complete with autodrain. Gauges are optional

Technical Data

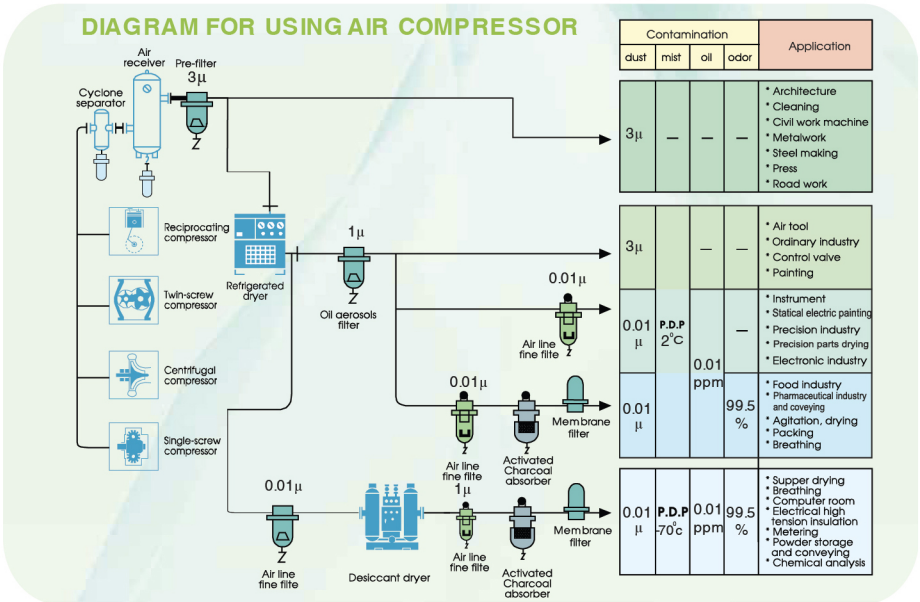
Filter Model	Pipe Conn	Capacity At 7 (kg / cm^2) Gauge Pressure		Max Oper Pressure	Approx. Weight	Dimensions (mm)				Replacement Element Model
		(m^3/min)	cfm	(kg / cm^2)	(kg)	A	B	C	D	
T5	G1/2	0.66	23	16	1.34	85	154	24	60	AET5
T10	G1/2	1.32	47	16	1.46	85	185	24	90	AET10
T15	G3/4	1.98	70	16	1.72	85	255	24	90	AET15
T20	G1	3.30	116	16	4.10	132	285	43	135	AET20
T40	G1 1/2	5.70	201	16	4.52	132	385	43	235	AET40
T60	G1 1/2	9.00	318	16	5.01	132	485	43	335	AET60
T75	G1 1/2	13.32	470	16	7.45	132	685	43	525	AET75
T125	G2	17.46	616	16	12.00	161	687	55	520	AET125
T175	G2 1/2	26.16	923	16	14.97	161	930	55	770	AET175
T250	G3	37.50	1324	12	30.95	252	905	79	610	AET250
T300	G3	46.62	1645	12	32.99	252	1057	79	760	AET300



Technical Data

Type		FR 005AP	FR 010AP	FR 015AP	FR 020AP	FR 030APX	FR 040APX	FR 050APX	FR 060APX	FR 075APX	FR 0100APX	FR 0125APX	FR 0150APX	FR 0175APX	FR 0200APX	FR 0250APX	FR 0300APX
Max. capacity (m^3/min)		0.83	1.4	1.8	2.7	3.9	5.4	7.2	8.5	11.1	15	18.6	22.3	26	29.7	35.6	44.4
Air inlet temp.		50^0C (Max. 80^0C) (Capacity varies with different temperature)															
Environment temp.		32^0C (Max. 40^0C) (Capacity varies with different temperature)															
Dew point		Dew point 2 ~ 10^0C at 7kg/cm^2G															
Operating pressure		7kg/cm^2G (Capacity varies with different pressure), Max. Pressure : 10kg/cm^2G (Higher pressure available upon request)															
Refrigerant		R - 134a				R - 407C											
Power consumption 50HZ (kw)		0.4	0.5	0.8	0.8	1.3	1.6	1.8	1.5	1.9	2.2	2.7	3.8	4.5	4.7	5.2	7
Power supply		Single phase 220V 50Hz								3 - phase 380V 50Hz							
Air piping size		G1/2"	G1"	G1"	G1 1/4"	G1 1/2"	G1 1/2"	G2"	G2"	G2"	G2"	DN80	DN80	DN80	DN100	DN100	DN125
Dimension (mm)	H	650	720	720	750	900	900	900	900	1130	1130	1130	1290	1290	1290	1290	1760
	W	380	490	490	490	600	600	600	600	940	940	940	1070	1070	1070	1070	1350
	D	550	730	730	820	1070	1070	1070	1220	1500	1700	1700	1900	1900	2200	2200	2200
Net weight (Kg)		56	68	75	90	140	148	150	150	315	365	415	460	530	590	600	900





ISO 8573.1 : 2001

FUSHENG

PISTON - TANK - DRYER - FILTER

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