WE ARE ALWAYS HERE READY TO SERVE YOU

FUSHENG
AIR COMPRESSORS

FUSHENG GROUP FACTORIES WORDWIDE

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

Designing

Products

Machining

Testing

Measuring

Assembling

AIR-END ROTOR PROFILE PATENT

USA No.4.890.922 UK No.2.230.563 JAPAN No.2.008216

CNC machining center (Japan)

Five axis machining center (Japan)

Japanese housing CNC machining center

German KAPP rotor griding machine

SERVICE SYSTEM

The contingents of technicians are always available to satisfy the customers' requirement.

Products are always sufficient and available to supply to customers

Available spare parts

Good after-sales service

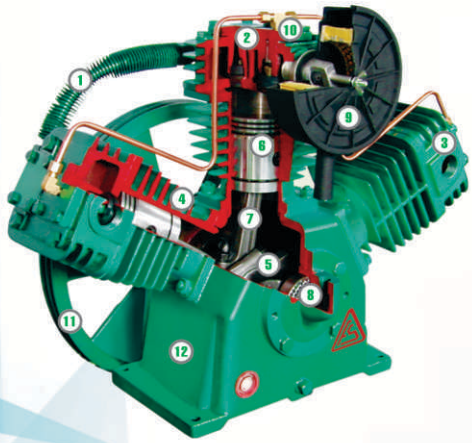
2 – YEARS WARRANTY
NEW A SERIES

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

A-SERIES AIR COMPRESSORS

Model	Motor		Cylinder			Comp R.P.M	Piston Disp.		Actual Air Delivery At 7Kg/cm²G		Working Pressure (Kg/cm²G)	Air Receiver			Net Weight (kg)
	Hp	Kw	Bore (mm)	No.	Stroke (mm)		L/min	CFM	L/min	CFM		Dimensions ∅ mmxmm	Capacity Liter	Max Pressure Kg/cm²	
CA-65	0.5	0.37	65	1	44	570	83	2.93	47	1.66	7	∅ 244x670	28	10	45
VA-51	0.5	0.37	51	2	42	498	85	3.00	47.6	1.68	7	∅ 300x910	60	10	60
VA-65	1	0.75	65	2	44	477	139	4.91	88	3.10	7	∅ 300x1050	70	10	85
TA-65	2	1.5	65	3	48	633	302	10.67	170	6.00	7	∅ 300x1050	70	10	95
VA-80	3	2.2	80	2	60	788	475	16.77	360	12.71	7	∅ 350x1160	105	10	145
TA-80	5	3.7	80	3	60	875	791	27.93	530	18.71	7	∅ 390x1410	155	10	180
VA-100	7.5	5.5	100	2	70	950	1045	36.91	670	23.66	7	∅ 485x1440	245	10	285
TA-100	10	7.5	100	3	70	888	1464	51.70	1000	35.32	7	∅ 485x1770	304	10	350
TA-120	15	11	120	3	80	805	2183	77.10	1500	52.98	7	∅ 485x1770	304	10	420

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.

TWO-STAGE AIR-COOLED AIR COMPRESSORS

Model	Motor		Cylinder			Comp R.P.M	Piston Disp.		Actual Air Delivery At		Working Pressure	Air Receiver			Net Weight (kg)
	HP	kW	Bore (mm)	No.	Stroke (mm)		L/min	CFM	12Kg/cm^{2}G		(Kg/cm^{2}G)	Dimensions	Capacity	Max Pressure	
									L/min	CFM		∅ mmxmm	Liter	Kg/cm^2	
HVA-65	1	0.75	65 42	1 1	44	742	108	3.81	79.9	2.82	12	∅ 300x1050	70	13.5	100
HTA-65	2	1.5	65 51	2 1	48	742	236	8.33	180	6.35	12	∅ 300x1050	70	13.5	110
HTA-65H	3	2.2	65 51	2 1	48	916	292	10.31	220	7.77	12	∅ 350x1160	105	13.5	135
HTA-80	5	3.7	80 65	2 1	60	954	575	20.3	450	15.89	12	∅ 390x1410	155	13.5	220
HTA-100	7.5	5.5	100 80	2 1	70	739	812	28.68	600	21.19	12	∅ 490x1440	245	13.5	330
HTA-100H	10	7.5	100 80	2 1	70	888	976	34.47	800	28.25	12	∅ 490x1770	304	13.5	360
HTA120	15	11	120 100	2 1	80	805	1455	51.39	1220	43.09	12	∅ 490x1770	304	13.5	450

Semi-automatic type:

This type uses a pilot valve to control the no load or loaded operation status of compressor. When the system pressure reaches the high-limit set point (7.0 kg/cm^2, for example), pilot valve will open to actuable suction unloader to allow compressor no-load running.

When system pressure drops down to the low-limit set point (5.0 kg/cm^2, for example), pilot valve will close and compressor returns to loaded run status. The semi-automatic operating method is suitable for frequent-run use of compressed air.

Full-automatic type:

This type uses a pressure switch to control when the compressor runs and stops. When the system pressure reaches the upper-limit set point (7.0 kg/cm^2, for example), pressure switch activates to cut off motor power and ceases compressor operation. When system pressure drops down to the pressure low-limit set point (5.0 kg/cm^2, for example), pressure switch re-connects motor power to re-start compressor operation. The automatic operating method is suitable for intermittent run duty. And in order to protect motor and EM switch, the restart frequency should not exceed six times per hour.

TWO-STAGE AIR-COOLED AIR COMPRESSORS WITH VERTICAL TANK

Model	Motor		Cylinder			Comp R.P.M	Piston Disp.		Actual Air Delivery At		Working Pressure	Air Receiver			Net Weight (kg)
	HP	kW	Bore (mm)	No.	Stroke (mm)		L/min	CFM	12Kg/cm^{2}G		(Kg/cm^{2}G)	Dimensions	Capacity	Max Pressure	
									L/min	CFM		∅ mmxmm	Liter	Kg/cm^2	
HTA-65H-VT	3	2.2	65 51	2 1	48	916	292	10.31	220	7.77	12	∅ 566x1160	245	13.5	235
HTA-80-VT	5	3.7	80 65	2 1	60	954	575	20.3	450	15.89	12	∅ 566x1160	245	13.5	300
HTA-100-VT	7.5	5.5	100 80	2 1	70	739	812	28.68	600	21.19	12	∅ 640x910	245	13.5	390
HTA-100H-VT	10	7.5	100 80	2 1	70	888	976	34.47	800	28.25	12	∅ 640x910	245	13.5	400

Oil lubricate crankcase

Oil-free crankcase

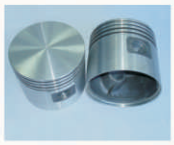
Oil-free air compressor applications in industry

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			Comp R.P.M	Piston Disp.		Actual Air Delivery At		Working Pressure (Kg/cm^2G)	Air Receiver			Net Weight (kg)
	Hp	Kw	Bore (mm)	No.	Stroke (mm)		L/min	CFM	$7Kg/cm^2G$			Dimensions	Capacity	Max Pressure	
									L/min	CFM		∅mmxmm	Liter	Kg/cm^2	
FVA-30(II)	3	2.2	100	2	70	467	513	18.11	230	8.12	7	∅ 485x1440	245	10	110
FVA-50(II)	5	3.7	100	2	70	700	770	27.19	440	15.54	7	∅ 485x1440	245	10	145
FVA-75(II)	7.5	5.5	100 71	2 1	75	734	864	30.52	650	22.96	7	∅ 485x1440	245	10	275
FVA-100(II)	10	7.5	115 95	2 1	90	565	1055	37.26	850	30.02	7	∅ 485x1770	304	10	325
FTA-150(II)	15	11	130 115	2 1	90	634	1513	53.44	1250	44.15	7	∅ 485x1770	304	10	435

PISTON



CONNECTING RODS

BEARING

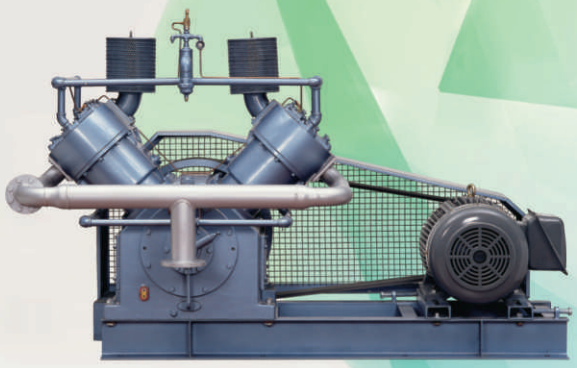
RING

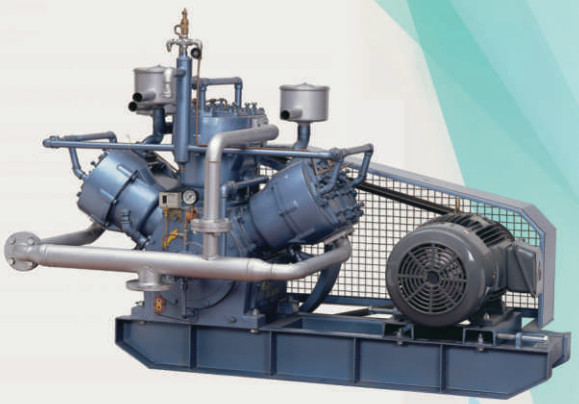
D-SERIES AIR COMPRESSORS

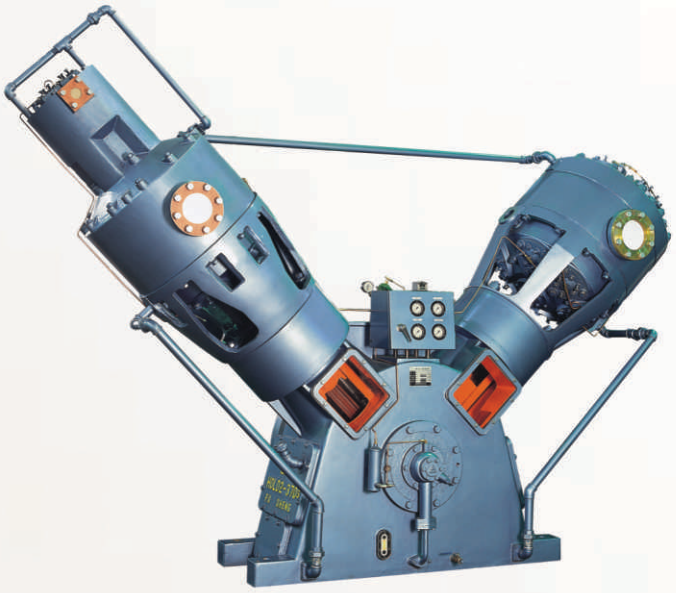
Model	Motor		Cylinder			Comp R.P.M	Piston Disp.		Actual Air Delivery At		Working Pressure (Kg/cm^2G)	Air Receiver			Net Weight (kg)
	HP	kW	Bore (mm)	No.	Stroke (mm)		L/min	CFM	$7Kg/cm^2G$			Dimensions	Capacity	Max Pressure	
									L/min	CFM		∅ mmxmm	Liter	Kg/cm^2	
D-1	0.5	0.37	51	1	42	807	69	2.43	60	2.12	7	∅244x720	33	10	45
D-2	1	0.75	51	2	42	879	150	5.29	100	3.53	7	∅ 300x910	60	10	60
D-3	2	1.65	65	2	44	1006	294	10.38	200	7.06	7	∅ 300x1050	70	10	90
D-3E	2.2	1.65	65	2	48	819	261	9.21	195	6.90	7	∅ 300x1050	70	10	90
D-4	3	2.2	65	3	48	863	412	14.55	300	10.59	7	∅ 350x1160	105	10	120

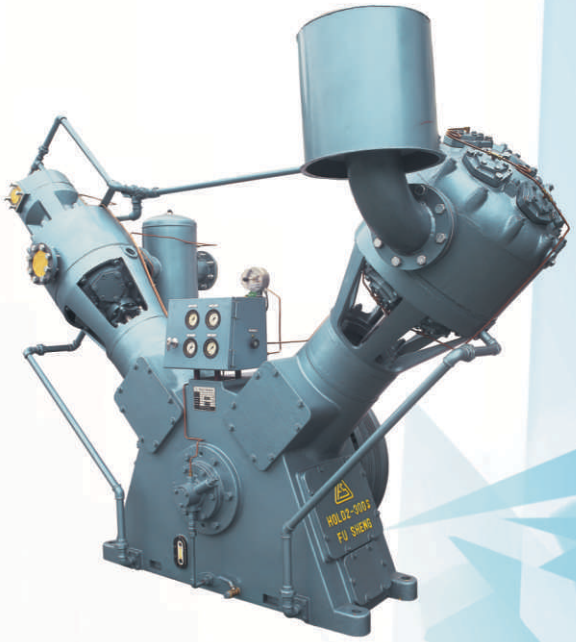
SPECIFICATIONS & SHIPPING DATA-W SERIES

Specs. \ Model		Unit	HYW-15S	HYW-16S	HRW-16S
Cylinder Bore x Number of Cylinder	Low Pressure	mm	133 x 2	152 x 2	152 x 3
	High Pressure	mm	51 x 2	65 x 2	65 x 3
Piston Stroke		mm		114	
Compressor Revolution		RPM	450	570	640
Piston Displacement		L / min	1424	2357	3969
		CFM	50.2	83.2	140
Working Pressure		kg/cm^2G		35	
Actual Air Delivery		L / min	911	1437	2421
		CFM	32.1	50.7	85.5
Motor Recommended		Hp	20	30	50
Cool Water Required		L / min	54	64	80
Lube Oil Needed		liter		14	16
Air Tank	Dimensions	mm		∅ 485 x 1770	
	Cappacity	liter		300	
Complete Set Dimension	Lenght	mm		3170	3560
	Width	mm		1700	
	Height	mm		2200	
Net Weight		kg	1100	1230	1710









HOLD TYPE - SPECIFICATIONS OF OIL FREE HIGH PRESSURE WATER COOLED COMPRESSOR

Spec / Model	Cylinder dimension x number of cylinder m/m x pcs			Stroke (m/m)	Revolutions rpm	Piston Discharge		Working Pressure Kg/cm^3G	Actual Air Delivery		Motor HP	Cooling water L/min	Lubricant oil Liters	Air Tanle		Net Weight kg
	1st Stage	2nd Stage	3rd Stage			m^3/min	CFM		m^3/min	CFM				Dimensions m/m	Capacity Liters	
HOLD2-300S	300 x 1	210 x 1	120 x 1	200	305	8.6	304	35	6.27	221.5	100	200	18	485 x 1770	304	5500
HOLD2-370S	370 x 1	270 x 1	133 x 1	200	338	14.25	503		10.97	387.5	175	280	20			8100

AIR COOLED SCREW AIR COMPRESSOR SPECIFICATIONS

Specification		Model / Unit	SA 15A	SA 22A	SA 37A	SA 55A	SA 75A	SA 90A	SA120A
Compressor stage	Air Deliver / Working Pressure	(m^3/min)/ (kg/cm^2G)	2.5 / 7	3.7 / 7	6.5 / 7	10.5 / 7	14.0 / 7	16.5 / 7	21.1 / 7
			2.3 / 8	3.5 / 8	6.2 / 8	10.2 / 8	12.9 / 8	15.5 / 8	21.0 / 8
			2.0 / 10	3.1 / 10	5.6 / 10	9.3 / 10	11.5 / 10	13.6 / 10	20.6 / 10
			1.7 / 12	2.7 / 12	4.9 / 12	7.6 / 12	10.1 / 12	12.7 / 12	
	Discharge Air Temp.	°C	Ambient temperature + 15°C			≤ 40°C (Water Cooler) ≤ Ambient temperature + 10°C (Air Cooler)			
	Lubricant	L	22		26	70		70	110
Main Motor	Power motor	KW	15	22	37	55	75	90	120
	Starting Method		Y - Δ						
	Voltage	Volt	380						
	Frequency	Hz	50						
Dimension	Length	mm	850		1000	2200		3000	3000
	Width	mm	1220		1410	1230		1640	1650
	Height	mm	1300		1510	1668		1800	1800
	Weight	kg	560	620	1020	1880	2020	2180	3120
Air outlet pipe diameter		Inch	1"		1 ½"	2"			4"

WATER COOLED SCREW AIR COMPRESSOR SPECIFICATIONS

Model			SA 75W	SA 90W	SA 120W	SA 132W	SA 160W	SA 185W	SA 200W	SA 220W
Compressor stage	Air Deliver / Working Pressure	(m^3/min)/ (kg/cm^2G)	14.1 / 7	16 / 7	21.1 / 7	25.2 / 7	28.7 / 7	31/1.019 / 7	35.1 / 7	42 / 7
	Discharge Air Temp.	^0C	≤ 40^{0}C							
	Lubricant	L	60	65	85	100	125	137	137	100
Main Motor	Power	kW	75	90	120	132	160	185	200	220
	Starting method		Y - △							
	Voltage	Volt	380							
	Frequency	Hz	50							
Dimension	Length	mm	2200	2200	2340	3000	3000	3000	3000	3520
	Width	mm	1230	1230	1650	1750	1750	1750	1750	2290
	Height	mm	1680	1680	1800	1880	1880	1880	1880	2030
	Net Weight	kg	2040	2220	3000	4300	4560	4560	4560	6000
Air outlet pipe diameter		Inch	2”	2”	3”	4”	4”	4”	4”	4”
Water outlet/inlet pipe diameter		Inch	1 ½”	1 ½”	1 ½”	1 ½”	2”	2”	2”	2”

SPECIFICATION OF INVERTER SCREW AIR COMPRESSOR

Model			SAV 22A	SAV 37A	SAV 55A	SAV 55W	SAV 75A	SAV 75W	SAV 110A	SAV 110W
Compressor stage	Air Deliver / Working Pressure	(m^3/min)/ (kg/cm^2G)	1.48～3.7 / 7.65	2.60～6.5 / 7.65	4.16～10.4 / 7.65		5.64～14.1 / 7.65		8.40～21.0 / 7.65	
			1.40～3.5 / 8.67	2.48～6.2 / 8.67	3.84～9.6 / 8.67		5.12～12.8 / 8.67		7.92～19.8 / 8.67	
			1.24～3.1 / 10.7	2.24～5.6 / 10.7	3.40～8.5 / 10.7		4.64～11.6 / 10.7		6.80～17.0 / 10.7	
			1.08～2.7 / 12.75	1.96～4.9 / 12.75	3.04～7.6 / 12.75		4.12～10.3 / 12.75		6.12～15.3 / 12.75	
	Discharge Air Temp.	^0C	≤ Ambient temperature +10℃ (Air cooler) / ≤ Cooling water temp +10℃ (Water cooler)							
	Lubricant	L	22	26	70				110	
Main Motor	Power	kW	22	37	55		75		110	
	Starting method		Inverter Control							
	Voltage	Volt	380							
	Frequency	Hz	Inverter Control							
Dimension	Length	mm	1500	1650	2600	2240	2600	2240	3150	2860
	Width	mm	1050	1050	1400	1530	1400	1530	1680	1650
	Height	mm	1500	1725	1500	1680	1500	1680	2000	1850
	Net Weight	kg	950	1100	2200		2400		3500	
Air outlet pipe diameter		Inch	1”	1 ¼”	2”				3”	

FUSHENG AIR RECEIVERS

- Receiver volume is manufactured by customer's demand.
- Type: Horizontal, Vertical
- Working with high presure. 100% pressure test.
- To manufacture according to the standard of: ASME, TCVN, CNS

SPECIFICATION OF AIR RECEIVERS

Parameter \ Volume		0.304m³		0.66m³		1.3m³		2m³	3m³	5m³	6m³	8m³	10m³
Diameter	mm	Ø485/Ø490		Ø 780		Ø 975		Ø 1160	Ø 1160	Ø 1455	Ø1600	Ø 1600	Ø 1900
Height	mm	1770		1560		1878		2160	3160	3340	3345	4370	3950
Max pressure	kg/cm²	10	13.5	10	16	10	14	10	10	10	10	10	10
Working pressure	kg/cm²	7	12	7	12	7	12	7	7	7	7	7	7
Max temperature	°C	100		100		100		100	100	100	100	100	100
Outlet dimension	Inch	2"		2"		2"		3"	3"	4"	4"	4"	4"
Inlet dimension	inch	2"		2"		2"		3"	3"	4"	4"	4"	4"
Weight	kg	120	112	270	337	450	550	740	970	2126	2235	2750	3823

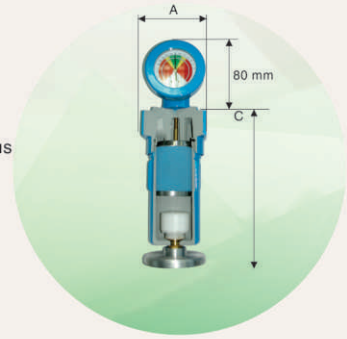
FILTER TECHNICAL INFORMATION

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/m³	0.05 bar g
H	0.01 µ	0.01 mg/m³	0.09 bar g
C	---	0.003 mg/m³	0.10 bar g

(*) Referred to 7 bar and 20 Degrees Celsius

GENERAL INFORMATION

Maximum recommended operating temperature of 60 degrees Celsius
Maximum 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



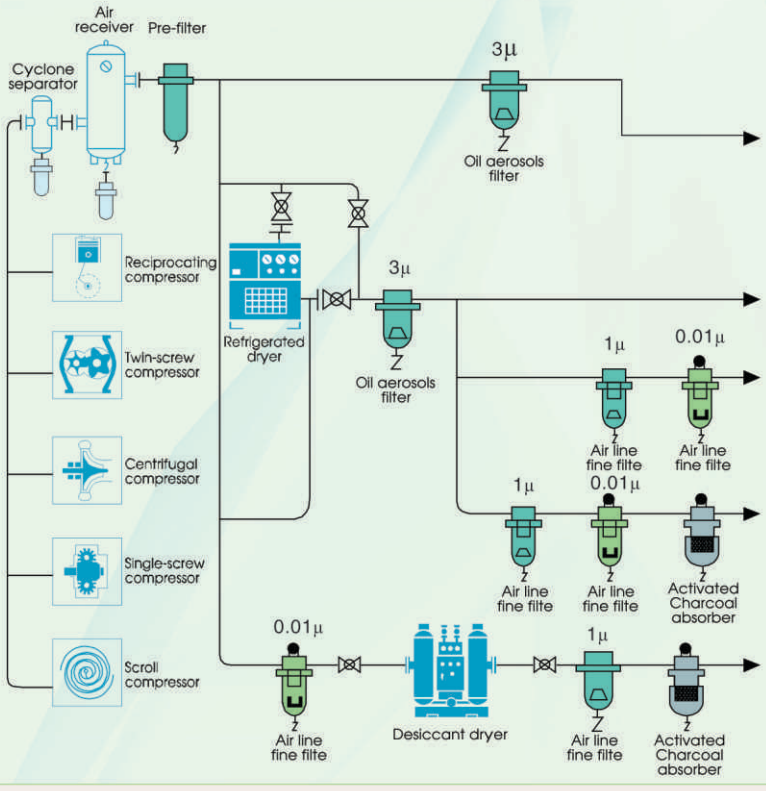
Filter Model	Pipe Conn	Capacity At 7 (kg / cm²) Gauge Pressure (1/s)	(m³/min)	cfm	Max Oper Pressure (kg / cm²)	Approx. Weight (kg)	Dimensions (mm) A	B	C	D	Replacement Element Model
T5	G1/2	10	0.60	21	16	1.3	87	175	21	60	AET5
T10	G1/2	20	1.20	42	16	1.4	87	209	21	90	AET10
T15	G3/4	28	1.70	60	16	1.7	87	279	21	90	AET15
T20	G1	47	2.80	99	16	4.2	130	315	34	135	AET20
T40	G1 1/2	90	5.40	191	16	4.8	130	415	49	235	AET40
T60	G1 1/2	133	8.00	283	16	5.6	130	515	49	335	AET30
T75	G1 1/2	200	12.00	424	16	8.4	130	715	49	525	AET35
T125	G2	283	17.00	600	16	11.4	164	823	60	520	AET40
T175	G2 1/2	433	26.00	918	16	13.0	164	1073	74	770	AET45
T250	G3	600	36.00	1272	16	20.0	250	1052	90	610	AET50
T300	G3	767	46.00	1625	16	27.5	250	1202	90	760	AET55

HIGH-TEMPERATURE SERIES AIR COOLING DRYER SPECIFICATIONS

Type		FR 005AP	FR 010AP	FR 015AP	FR 020AP	FR 030AP	FR 040AP	FR 050AP	FR 060AP	FR 075AP	FR 100AP	FR 125AP	FR 150AP	FR 175AP	FR 200AP	FR 250AP	FR 300AP
Max. capacity (m^3/min)		0.83	1.4	1.7	2.7	3.7	5.4	7.2	8.5	11.1	15	18.6	22.3	26	29.7	35.6	44.4
Air inlet temp		50°C (Max. 80°C) (Capacity varies with different temperature)															
Environment temp		32°C (Max. 40°C) (Capacity varies with different temperature)															
Dew point		Dew point 2 ~ 10°C 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 - 22 (Ozone depletion free refrigerant is available upon request)											
Power consumption (KW)		0.5	0.55	0.7	0.8	1.1	1.3	1.5	2	2.1	2.7	3.5	4.5	5.4	6	7.2	8.3
Power supply		Single phase 220V ~ 230V 50Hz								3 - phase 380V, 415V, 50Hz							
Air piping size		G1/2"	G1"	G1"	G1 1/4"	G1 1/2"	G1 1/2"	G2"	G2"	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN125
Dimension (mm)	H	650	720	720	750	900	900	900	900	1130	1130	1130	1290	1290	1290	1290	1830
	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	180	315	365	380	460	480	590	600	900

* G" indicates thread size in imperial unit. DN indicates for flange size in metric unit
* The exterior dimension are not include the size of inlet/outlet and drain valve

DIAGRAM FOR USING AIR COMPRESSOR



Contamination				Application
dust	mist	oil	odor	
3μ	—	—	—	* Architecture * Cleaning * Civil work machine * Metalwork * Steel making * Press * Road work
3μ		—	—	* Air tool * Ordinary industry * Control valve * Painting
0.01μ	P.D.P 2°C	0.01 ppm	—	* Instrument * Statical electric painting * Precision industry * Precision parts drying * Electronic industry
0.01μ			99.5 %	* Food industry * Pharmaceutical industry and coveying * Agitation, drying * Packing * Breathing
0.01μ	P.D.P -40°C	0.01 ppm	99.5 %	* Supper drying * Breathing * Computer room * Electrical high tension insulation * Metering * Powder storage and conveying * Chemical analysis

Distributor / Sales Representative

FUSHENG INDUSTRIAL CO., LTD

FUSHENG (TAIWAN)
No. 172 Nanking East Road, Sec.2, Taipei, Taiwan, R.O.C
Tel : 886 - 2 - 2507 - 2211 * Fax : 886 - 2 - 2504 - 7870
Website : www.fusheng.com * Email : machinery@ m.fusheng.com.tw

FUSHENG (VIETNAM)
No.6, 3A Street, Bien Hoa Industrial Zone II, Bien Hoa city
Dong Nai Province, Vietnam
Tel : +84-61-3834566 * Fax : +84-61-3834599
Website : www.fusheng-vietnam.com * Email : sales@ fusheng.com.vn

FUSHENG (MALAYSIA)
No.19 Jalan Bulan U5/170, Bandar Pinggiran Subang,
40150 Shah Alam, Senlangor, West Malaysia
Tel : +60-3-7845-3948 * Fax : +60-3-7845-3951
Website : www.fusheng-malaysia.com * Email : fusheng@ streamyx.com

FUSHENG (THAILAND)
140/1-2 Moo, 12 Kingkaew Rd., T.Rachataywa A.Bangplee
Samutprakarn 10540, Thailand
Tel : +66-2-312-4547 * Fax : +66-2-312-4530
Website : www.fusheng-thailand.com * Email : airate@ fusheng-thailand.com

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