





Oil-injected Rotary Screw Air Compressor











7.5KW-132KW Oil-injected Rotary Screw Air Compressor L Series Fixed Speed C Series VSD Permanent Magnet











OZair Company Profile

OZair Compressors is an Australian owned and operated company. OZair Compressors manufacturing partner's factory is located in Guangzhou. The factory has advanced assembly, production line and testing equipment to support us to develop, design and manufacture screw air compressors that comply with the regulation of ISO9001 quality system & compressor industry standard. OZair Compressors management, sales and after sales team offers professional compressor solutions and quality service to customers.

Ozair screw air compressors are widely used in all industries such as oil, chemical, garment, plastic, glass, cement, water treatment, agriculture, food, construction, joinery etc. Models available includes L series fixed speed screw air compressor, CPM permanent magnet variable speed screw air compressor. Product power range is from 7.5kw to 250kw.

We pride ourselves in providing outstanding customer service and the fact that when you contact us you will always be able to talk to someone who can answer your questions and offer a solution to any problems you may have.







Air-end

High efficiency
Low rotor speed
Low vibration, stable
and reliable performance
Adopt the triple design of
cylindrical roller & taper roller
bearing, for longer service life



Pipe system

Stainless steel hard pipe

Good heat dissipation

Using O ring seal

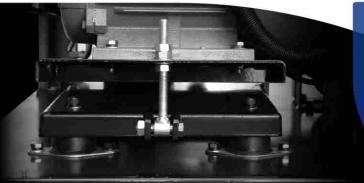
No leakage problems, long service life





Oil filter

High precision filter
Keeps the oil system clean
Superfine glass fibre,
dust-holding capacity is
4 times bigger than filter paper
Prevents air-end damaged



Easy maintenance

Belt tension easy to adjust Good structure design.

big internal volume, convenient maintenance There are rubber mounts under

motor and air-end, reduces noise



Belt Driven

L Series-Fixed Speed







Big Air-end Low Speed





High antioxidant ability. Resists oil viscosity changes avoids varnish build up and air/oil separator blockages. Increases the maintenance interval time. Although being used in adverse conditions, OZCOOL efficiency is higher than the normal compressor oil.

Wide range usage temperature. OZCOOL runs smoothly and efficiently under the higher oil temperatures and higher discharge temperatures.

Lower volatility. OZCOOL has lower volatility than normal compressor oil which reduces the oil consumption and improves the quality of compressed air.

High quality. OZCOOL is suitable for using in adverse conditions.



Intelligent Micro-Computer Control System

- International standard design
- Intelligent PLC controller, automatically adjusts air compressor load & unload according to the air demand
- Structure of electric box, easy to maintain
- Schneider electric parts, ensuring reliable operating
- Good fault diagnosis and protect function, stable and saving energy



Technical Parameters(Belt Driven)



Max Working		FAD Motor Power					Net	Dimension	
Pres	sure					Connection		(L*W*H)	
J				hp	kW		kgs	mm	
7	102		42						
8	116	1.1	38	10	7.5	G1/2"	220	850x600x850	
10	145	1.0	35	,,,,		01,2	223	a de la constant de l	
12.5	182	0.8	28						
7	102	1.8	63						
8	116	1.7	60	15	44	C2/4"	200	850x600x950	
10	145	1.5	52	15	3.1	G3/4	200	830x800x930	
12.5	182	1.3	45						
7	102	2.5	88						
8	116	2.4	84		are.	0.411	200	050 070 4000	
10	145	2.2	77	20	15	G1"	380	950x870x1230	
12.5	182	1.7	60						
7	102	3.2	113						
8	116	3.0	105	25		2000			
10	145	2.7	95		18.5	G1"	500	950x870x1230	
12.5	182	2.3	81						
7	102	3.8	134			G1"			
8	116	3.7	130	25757				SOS SWE WORTH	
10	145	3.2	113	30	22		540	950x870x1230	
12.5	182	2.7	95						
7	102	5.2	183						
8	116	5.0	176						
10	145	4.5	158	40	30	G1-1/2"	680	1150x990x1395	
12.5	182	3.6	127						
7	102	6.5	229						
		6.2	218						
				50	37	G1-1/2"	730	1150x990x1395	
2050	182		162						
		1110.55	1000000						
				60	45	G1-1/2"	790	1150x990x1395	
	Pres bar 7 8 10 12.5 7 8 10 10 12.5 7 8 10 10 10 10 10 10 10 10 10 10 10 10 10	bar psig 7 102 8 116 10 145 12.5 182 7 102 8 116 10 145 12.5 182 7 102 8 116 10 145 12.5 182 7 102 8 116 10 145 12.5 182 7 102 8 116 10 145 12.5 182 7 102 8 116 10 145 12.5 182 7 102 8 116 10 145 12.5 182 7 102 8 116 10 145 12.5 182 7 102	bar psig m³/min 7 102 1.2 8 116 1.1 10 145 1.0 12.5 182 0.8 7 102 1.8 8 116 1.7 10 145 1.5 12.5 182 1.3 7 102 2.5 8 116 2.4 10 145 2.2 12.5 182 1.7 7 102 3.2 8 116 3.0 10 145 2.7 12.5 182 2.3 7 102 3.8 8 116 3.7 10 145 3.2 12.5 182 2.7 7 102 5.2 8 116 5.0 10 145 4.5 12.5 182 3.6	bar psig m³/min CFM 7 102 1.2 42 8 116 1.1 38 10 145 1.0 35 12.5 182 0.8 28 7 102 1.8 63 8 116 1.7 60 10 145 1.5 52 12.5 182 1.3 45 7 102 2.5 88 8 116 2.4 84 10 145 2.2 77 12.5 182 1.7 60 7 102 3.2 113 8 116 3.0 105 10 145 2.7 95 12.5 182 2.3 81 7 102 3.8 134 8 116 3.7 130 10 145 3.2 113	bar psig m³/min CFM hp 7 102 1.2 42 8 116 1.1 38 10 10 145 1.0 35 10 12.5 182 0.8 28 10 7 102 1.8 63 8 8 116 1.7 60 15 10 145 1.5 52 15 12.5 182 1.3 45 20 7 102 2.5 88 8 8 116 2.4 84 20 12.5 182 1.7 60 7 7 102 3.2 113 8 16 3.0 105 20 10 145 2.7 95 25 25 25 25 12.5 182 2.3 81 34 8 30 30 30 30 30	bar psig m³/min CFM hp kW 7 102 1.2 42 8 116 1.1 38 10 7.5 10 145 1.0 35 10 7.5 10 7.5 10 145 1.0 35 10 7.5 10 7.5 10 1.0 145 1.0 35 10 7.5 11 7.5 10 1.0	Dar Psig m³/min CFM hp kW To 102 1.2 42 8 116 1.1 38 10 7.5 G1/2" G1/2"	Pressure Page Pag	

- According to the standard of GB19153-2009
- Compressor Stage: One Stage Compression ■ Exhaust Temperature: Ambient Temperature + 15 °C
- Standard Power Supply: 415V/50Hz/3Ph
 Please contact us for any specification that is not within the above mentioned standards.



L Series-Fixed Speed

Direct Driven

- Motor connects to the air-end directly by a coupling, no gear box needed, this design greatly improves the transmission efficiency. OZair compressor produces 1:1 energy transfer.
- Ozair screw air compressor is stable and reliable, has low vibration, offers continues smooth compressed air to users.
- The compressor design temperature is rated at (46°C) and high humidity conditions, this design avoids the shutdown possibility caused by high temperatures.
- Silent enclosure, low noise & low vibration.
- PLC controller ensures reliable and efficient operation.











Technical Parameters(Direct Driven)

Model	Max Working Pressure		F.A.D		Motor	Power	Connection	Net Weight	Dimension (L*W*H)	
	bar	psig	m³/min	CFM	hp	kW		kgs	mm	
OL15D-8	8	116	2.4	84	20	15	G1"	520	1410x850x1135	
OL18.5D-8	8	116	3	106	25	18.5	G1"	540	1410x850x1135	
OL22D-8	8	116	3.6	127	30	22	G1"	560	1410x850x1135	
OL37D-8	8	116	6.2	218	50	37	G1-1/2" 740		1530x930x1255	
OL45D-8	8	116	7.6	268	60	45	G1-1/2"	800	1530x930x1255	
OL55D-8	8	116	10.0	353	75	55	G1-1/2"	1180	1800x1125x1430	
OL75D-8	8	116	13.0	459	100	75	G2"	1470	2000x1300x1600	
OL90D-8	8	116	16.0	565	120	90	G2"	1950	2130x1400x1750	
OL110D-8	8	116	20.0	706	150	110	DN65	2450	2550x1550x1900	
OL132D-8	8	116	24.0	847	180	132	DN65	2500	2550x1550x1900	

- According to the standard of GB19153-2009
- Compressor Stage: One Stage Compression
- Standard Power Supply: 415V/50Hz/3Ph
- Exhaust Temperature: Ambient Temperature + 15 °C
- Please contact us for any specification that is not within the above mentioned standards.





Permanent Magnet

Variable Speed Screw Air Compressor

Stator Coil

service life.

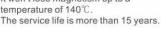
Using the wire which is specialized for inverter use.

Excellent insulation, longer



Permanent Magnet Synchronous Motor(PM)

Adopts the high efficiency NdFeb permanent magnet, t won't lose magnetism up to a temperature of 140°C.





Reduces the working pressure of the

The constant pressure is more



No power consumption when it is not loading No unloading, No electricity wastage.



Permanent magnet synchronous motor for higher efficiency.

When the use of air

average energy

saving achieved is



Wider range of the AC voltage(300V-The compressor can run normally and it won't stop in this range

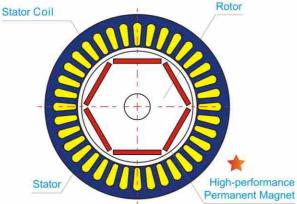


Can adjust the discharge air volume according to the pressure.



Colour touch screen Operation is easy to

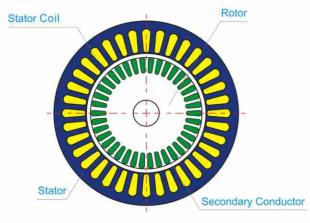
Comparison(Permanent Magnet Synchronous Motor & Normal Asynchronous Motor)



Compact structure, Small Size, Light weigh

High precision, Fast Response

Permanent Magnet Synchronous Motor



Asynchronous Induction Motor

07

Magnetic field is the foundation for the motor to achieve the electrical energy conversion.

Compared to the asynchronous motor, the permanent magnet motor

t cancels the loss of the excitation system which mproves efficiency 5%-12%

The power factor is high, the force ratio of inertia is high The motor is in directed drive, without the speed slip loss, No need for motor bearing and coupling to drive, that can improve additional 3%

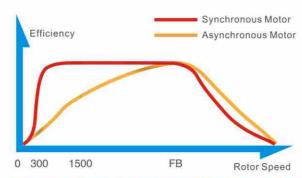
When in light loading, the PM motor can improve efficiency between 15-35% as the same specifications induction motor. It is always highly efficient at light or heavy load

At present, OZair is using the PM motor technology for first class energy savings

Low noise

The structure is simple , reliable to operate and easy to maintain.

Bigger Starting Torque



Synchronous Motor and Asynchronous Motor Efficiency Curve



- OZ air uses the high efficiency permanent magnet synchronous motor. Compared with the normal asynchronous VSD motor, energy saving performance is higher. The full load efficiency of one 37kW compressor is 97%, however, the efficiency of same level asynchronous motor is only 92%, it may save 5% more energy.
- When at low speed, the permanent magnet synchronous motor efficiency won't change, but normal asynchronous motor efficiency will be lower. So the PM can save energy more than 7%-11%.
- 37kW means the shaft power of the main motor. The actual input power is (37 1.15 service factor) = 42.55kW . If the compressor works for 6000 hours per year ,It can save the electric charge: 6000H • 60% • 42.55kW • 7%=10722.6

Application of VSD Technology

- For example, 1 unit 37kW compressor, if the load rate is 60%, it means the unloading rate is 40%, it will waste 21,3kW (Full load is 42.55kW+2) when in unloading. If the compressor will run 6000 hours per year, so it may waste electricity 51,120 kW · h (21.3kW · 2400 hours).
- OZ air C37PM can help you save electric up to 51120 kW · h/year!
- 37kW means the shaft power. The actual input power is 42.55kW .If the compressor will run 6000 hours per year ,loading rate is 60%. It will use electric 153,180kW • h, But in actual operation, the unloading rate is 40%, It costs electrical energy of 21.3kW when unloading, which means waste electric charge 51220kW • h(6000h • 40% • 22kW). Generally the compressor won't work at full load, industry statistics show the average loading rate is 60%. When running unloaded, the motor is still running, that means that electricity is wasted.
 - * Above data is the Industry data, the actual saving value is depends on actual use.

Without Pressure Loss

- The normal compressor is in 0.8Mpa, in fact the unloading pressure is 0.8Mpa .and the loading pressure is 0.65Mpa .That means 0.6Mpa is enough for running.
- You can adjust the pressure in 0.65 MPa when using the OZ air C37PM, which can help you save electricity 10722.6 kW · h/year. For every 0.14barg pressure drop, it can save 1% energy. We can take 7% as example
- 37kW means the shaft power, the actual input power is 43kW.If the compressor runs for 6,000 hours per year.

6,000h · 60% · 42.55kW · 7%=10,722.6 kW · h/year.





Double Energy Saving

Permanent Magnet Variable Speed Screw Air Compressors









Control in variable flow, stable air supply.





- Customized smart touch screen and control module, which can record the operation parameters and the working conditions.
- Maintenance information, which can set the run time and stop time.
- Adjust the discharge air volume according to the air



- The overhaul of the newest air-end is 8 years.
- The service life of the PM motor is over 15 years.
- The efficiency of the PM motor is 97.37%, which
- Compact structure and smaller size
- Wide frequency conversion range: 25-100%



- Using stainless steel pipe, durable and anti-aging
- Using thread and O-ring seal, remove conveniently and reduce leaks.

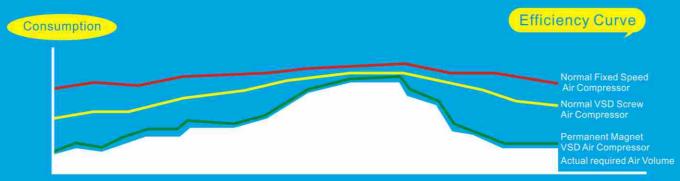


- The fan is in low speed, with longer service life. Cooler and fan can be removed independently, there is 20% cooling margin.
- The best collocation can satisfy in 50°C



Reliable inlet valve system. No need to worry about the oil spray when the emergency stop is activated and power failure.

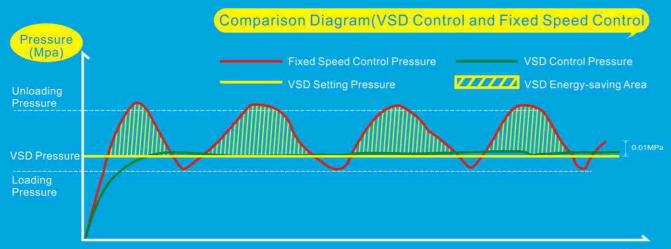
Why Choose OZ air PM Compressor?



Compared with the normal fixed speed and normal VSD screw air compressor, if low air consumption is required, the PM screw compressor has lower energy consumption and more energy saving.



Most of factories will choose a compressor with 20% higher air volume as they need. If there is a big fluctuation in the air consumption in any time(difference time, every day, every year). It may result most of the loading rate is about 50% to 70%. The User spends unnecessary electricity costs, which means they can not reduce the product cost. Now the material cost is no longer the key of product cost, the electricity has become the key of product cost. So save electricity means save products cost, which make your products more competitive.



Working Time

Air-end Operates Almost Silent

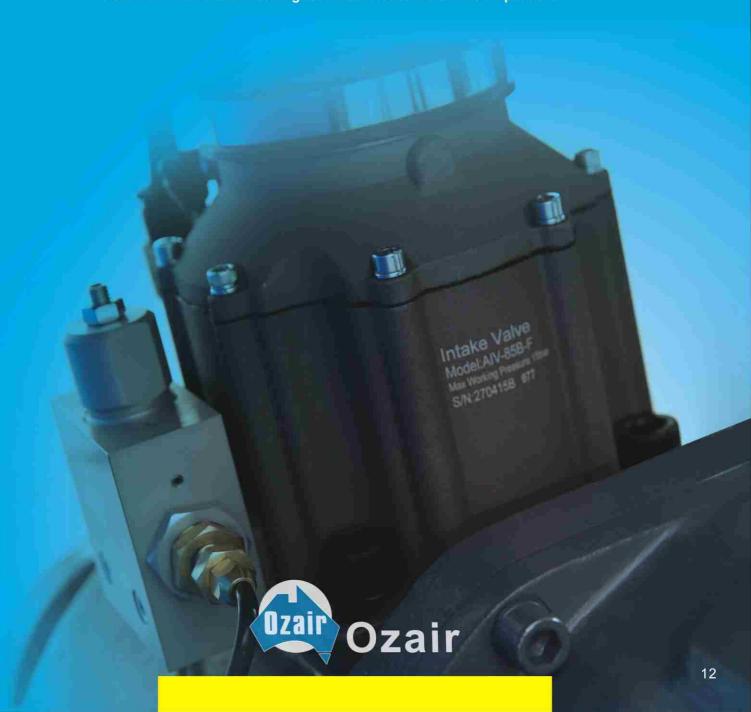
- Using advanced structural design, optimization of fluid and soundabsorbing materials and other kinds of methods achieves the ultra low operating sound.
- The fan can be controlled by the inverter, that can further reduce the noise(optional).
- Consider the sound pressure, sound quality, the volume of noise and other countermeasures, make the noise drop to a minimum ensuring it suitable for any factory



The bass in the library Inside the office the sitting room the first road the sitting room the sitting room

4000 Energy-saving

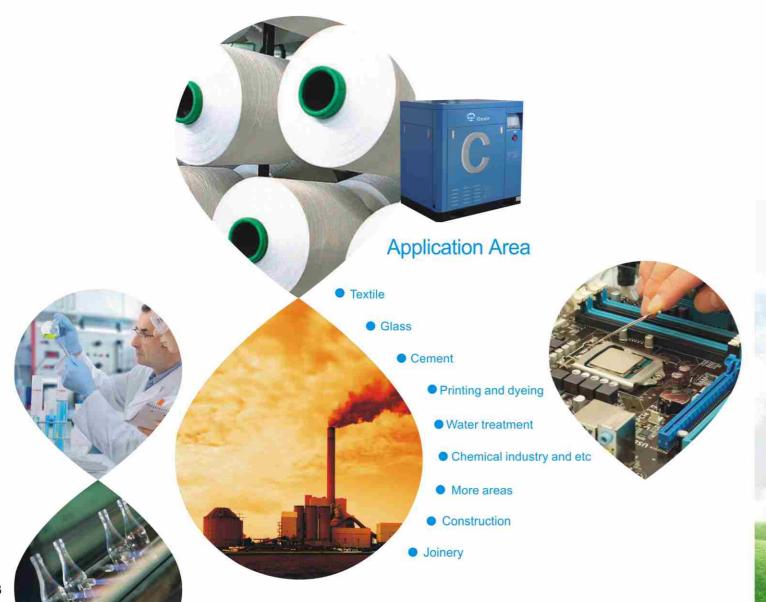
C series -The Permanent Magnet motor VSD Screw Air Compressor





Real Energy-Saving Products

OZ air Permanent Magnet motor Variable Speed Screw Air Compressors



Technical Parameter

C Series Permanent Magnet VSD Screw Air Coribressor

Model	Max W Pres	orking sure	F.A	.D	Motor	Power	Connection	Net Weight	Dimension (L*W*H)
	bar	psig	m³/min	CFM	hp	kW		kgs	mm
C7.5PM	6 7 8 10	87 102 116 145	1. 20 1.18 1.15 0.90	42 41 40 31	10	7.5	G1/2"	220	930x750x1210
C11PM	6 7 8 10	87 102 116 145	2.1 1.9 1.8 1.5	74 67 63 52	15	11	G1"	450	1150x800x1200
C15PM	5 6 7 8 10	72 87 102 116 145	2.8 2.6 2.3 2.2 1.8	98 91 81 77 63	20	15	G1"	480	1150x800x1200
C22PM	5 6 8 10	72 87 116 145	4.7 4.4 3.6 3.0	165 155 127 105	30	22	G1"	500	1150x800x1200
СЗОРМ	10 5 6 7 8 9	72 87 102 116 130 145	6.1 6.0 5.2 5.0 4.5 4.4	215 212 183 176 159 155	40	30	G1-1/2"	650	1350x930x1255
СЗ7РМ	5 6 7 8 9	72 87 102 116 130 145	7.9 7.3 6.6 6.4 5.7 5.4	278 257 233 226 201 190	50	37	G1-1/2"	680	1350x930x1320
C45PM	10 5 6 7 8 9	72 87 102 116 130	10.0 9.4 8.6 8.0 7.1 6.8	353 332 303 282 250 240	45	45	G1-1/2"	930	1500x1125x1480
C55PM	5 6 7 8 9	72 87 102 116 130 145	11.8 11.0 10.3 9.7 9.0 8.6	416 388 363 342 317 303	75	55	G1-1/2"	950	1500x1125x1480
C75PM	5 6 8	72 87 116 145	15.9 15.4 13.2 11.6	561 543 466 409	100	75	G2"	1150	1700×1200×1600
C90PM	10 5 6 7 8 9	72 87 102 116 130 145	20.1 17.8 16.6 15.2 13.9 13.3	709 628 586 536 490 469	120	90	G2"	1560	1900x1300x1900
C110PM	6 7 8 9 10	87 102 116 130 145	21.9 20.4 19.9 18.3 16.7	773 720 702 646 589	145	110	DN65	1700	2250×1500×1900
C132PM	5 6 7 8 10	72 87 102 116 145	26.9 25.5 24.1 22.5 20.1	949 900 851 794 709	180	132	DN65	1760	2250x1500x1900
				1			A STATE OF THE PARTY OF THE PAR	100	VTNO.

- According to the standard of GB19153-2009
- Compressor Stage: One Stage Compression
- Standard Power Supply: 415V/50Hz/3Ph
- Exhaust Temperature: Ambient Temperature + 15 °C
- Please contact us for any specification that is not within the above mentioned standards.

OZ air

Refrigerated Air Dryer



▶ HDF Series Technical Parameters

Model	Air Capacity	Refrigerant	Compressor Power	Power Supply	Dimension(L*W*H)	N.W.	Air Connection
Model	m³/min	Kenngerant	w	V/Ph/Hz	mm	kg	inch
HDF13	1.3	R134a	360	230V/1HP/50Hz	550x370x704	30	G3/4"
HDF21	2.1	R134a	364	230V/1HP/50Hz	550x370x704	34	G3/4"
HDF40	4	R410a	700	230V/1HP/50Hz	520x500x809	55	G1"
HDF66	6.6	R410a	951	230V/1HP/50Hz	520x500x809	60	G1.5"
HDF85	8.5	R410a	988	230V/1HP/50Hz	550x600x958	68	G1.5"
HDF105	10.5	R410a	1000	230V/1HP/50Hz	550x600x958	75	G2"
HDF140	14	R410a	1674	230V/1HP/50Hz	900x750x1009	110	G2"
HDF175	17.5	R410a	1750	230V/1HP/50Hz	900x750x1009	126	G2"
HDF220	22.0	R410a	2850	230V/1HP/50Hz	900x1150x1200	133	G2.5"
HDF260	26.0	R410a	3000	230V/1HP/50Hz	900x1150x1200	140	G2.5"

LINGHEIN Dryer Correction Factor

Inlet pressure correction factor											
bar	5	6	7	8	9	10	11	12	13		
K1	0.9	0.97	1	1.03	1.06	1.08	1.1	1.12	1.13		

Inlet temperature correction factor												
$^{\circ}\!\mathbb{C}$	25	30	35	40	45	50	55					
K2	1	1	1	0.82	0.69	0.58	0.45					

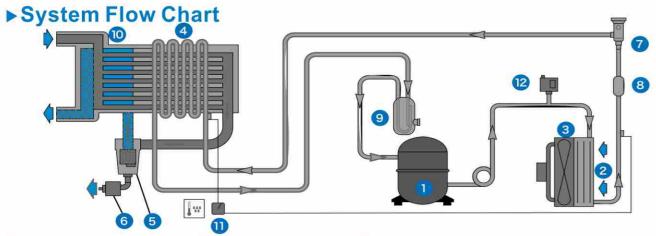
corr	ecti	on caslvulatio	
capacity		actual capacity m3 /min	
m ³ /min	=	(K1)x(K2)x(K3)	

amb	ient te	mperat	ure co	rrection	facto
$^{\circ}\!\mathbb{C}$	25	30	35	40	45
K3	1	1	1	0.82	0.69

HDF&HDP design conditions:

* Ambient Temperature: 25°C

*Inlet Temperature: 35°C *Inlet pressure 7bar



- Refrigerant CompressorAir-cooled Condenser
 - Reirigerant Compressor 5 Air Water Sepa
- Motor Fan
- Evaporator
 Output
 Description
 Output
 Description
 D

- 6 Air Water Separator
- 6 Electric auto drain
- Expansion valve
- B Dry Filter
- Air Liquid Separator(HDF40-HDF175)
- (ii) Air Heat Exchanger
- Dew Point Display
- High Pressure Protection Switch(HDF40-HDF175)



▶ Different Grade of Line Air Filter Element

P Filter-Dust Removal Air Filter

Get rid of mass of water, the particles which bigger than 3 micron (oil content in the gas:≤1ppm).

H Filter-High Precision Air Filter

Get rid of liquid water, oil mist ,the solid particles which bigger than 0.01 micron (oil content in the gas: \leq 0.01ppm).



M Filter-oil Removal Air Filter

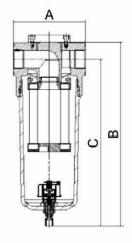
Get rid of liquid water, oil mist, the solid particles which bigger than 0.1 micron (oil content in the gas:≪0.1ppm).

C Filter- Activated Carbon Air Filter

The activated carbon absorb the oil vapors and hydrocarbon (oil content in the gas: ≤ 0.003ppm).

► Line Air Filter Technical Parameter

	Connection	Air Car	acity	Dim	ension(mm)
Model	Connection	m³/min	CFM	Α	В	С
F0046	G3/4"	1.3	45	95	220	197
F0070	G3/4"	2.0	70	95	280	257
F0100	G3/4"	2.8	100	95	280	257
F0125	G1"	3.5	125	125	320	290
F0180	G1"	5.1	180	125	320	290
F0265	G1-1/2"	7.5	265	125	400	370
F0370	G1-1/2"	10.5	370	125	400	370
F0515	G2"	14.6	515	170	520	478
F0745	G2"	21.1	745	170	700	658
F0900	G2-1/2"	25.5	900	200	995	938
F1060	G2-1/2"	30.0	1060	200	995	938
F1280	G3"	36.3	1280	200	995	938
F1650	G3"	46.7	1650	200	995	938



Working conditions:

Max.operating temperature: $<100^{\circ}C(P,M,H),<60^{\circ}C(C)$

Min.operating temperature:<1.5℃ Min.operating pressure:<1.6Mpa

Standard configuration:

Air filter case +Filter element +Auto-drain



▶Pressure Correction Factor

Working pressure (bar)	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction Factor	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13