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REFRIGERATED AIR DRYER



**HEAVY DUTY AIR DRYER
DELIVER CLEAN DRY AIR EXACTLY WHERE NEEDED**

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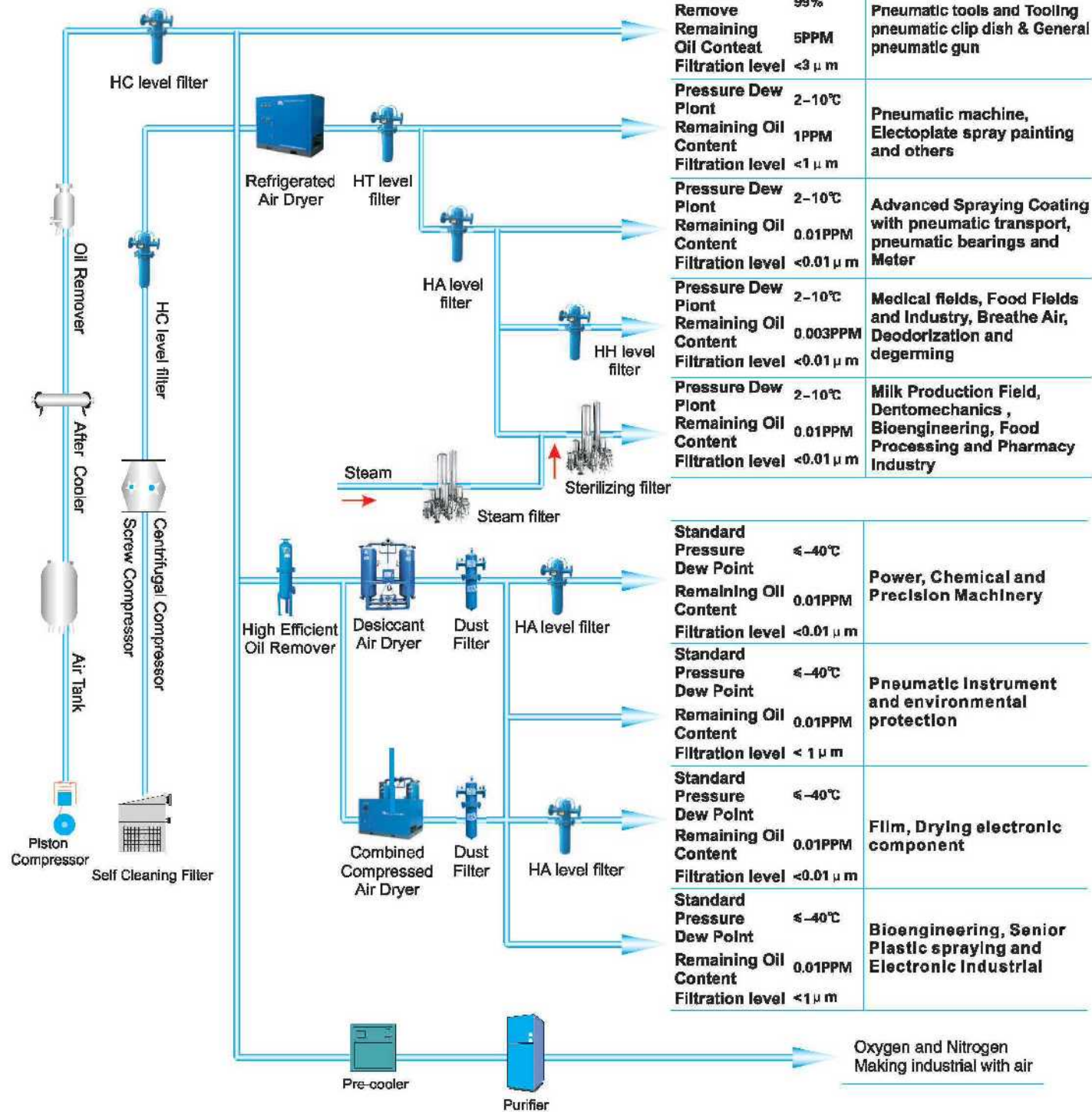
Araki Product Line



About Us

Established in 1997, Araki Air Compressor System is a leading enterprise specialized in design, development and production of compressed air dryers, filter and other purification equipments. Our company has a workshop of 30.000 square meters and more than 300 staff. ARAKI has become one of the largest manufacturers in the purification industry with annual series turn over USD 22 million. Our self-design and self-made equipment is compatible with many famous air compressor brands to efficiently remove water, oil and dust from compressed air. On basis of ISO 9001 our design, production test and service of the machine are all well-managed and strictly controlled since 20001.

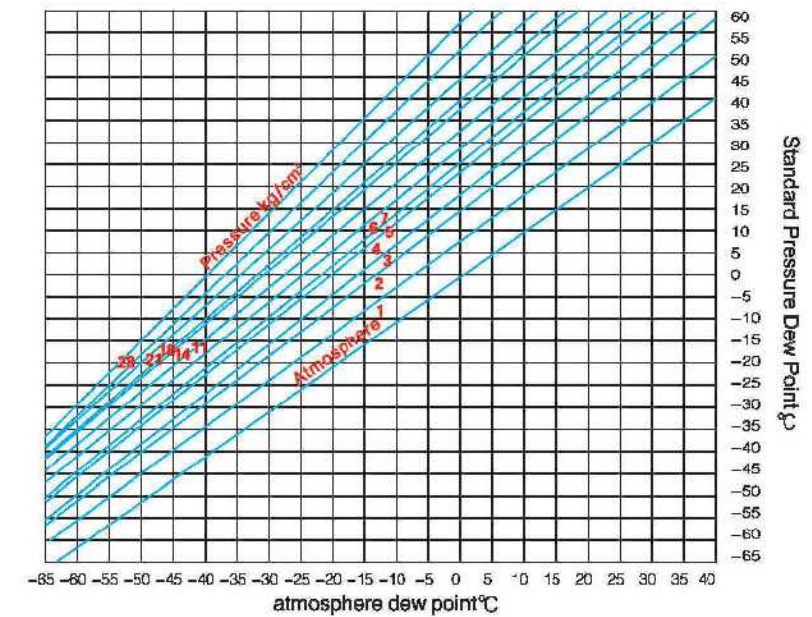
**Perfectly Qualified Air Solution
Satisfied Your High Expectation**



Notes:
Above configuration is for reference only, and the specific configuration
can be corresponding adjustment according to the actual situation.

**A Complete Set Of Solutions
Araki Air Dryer**

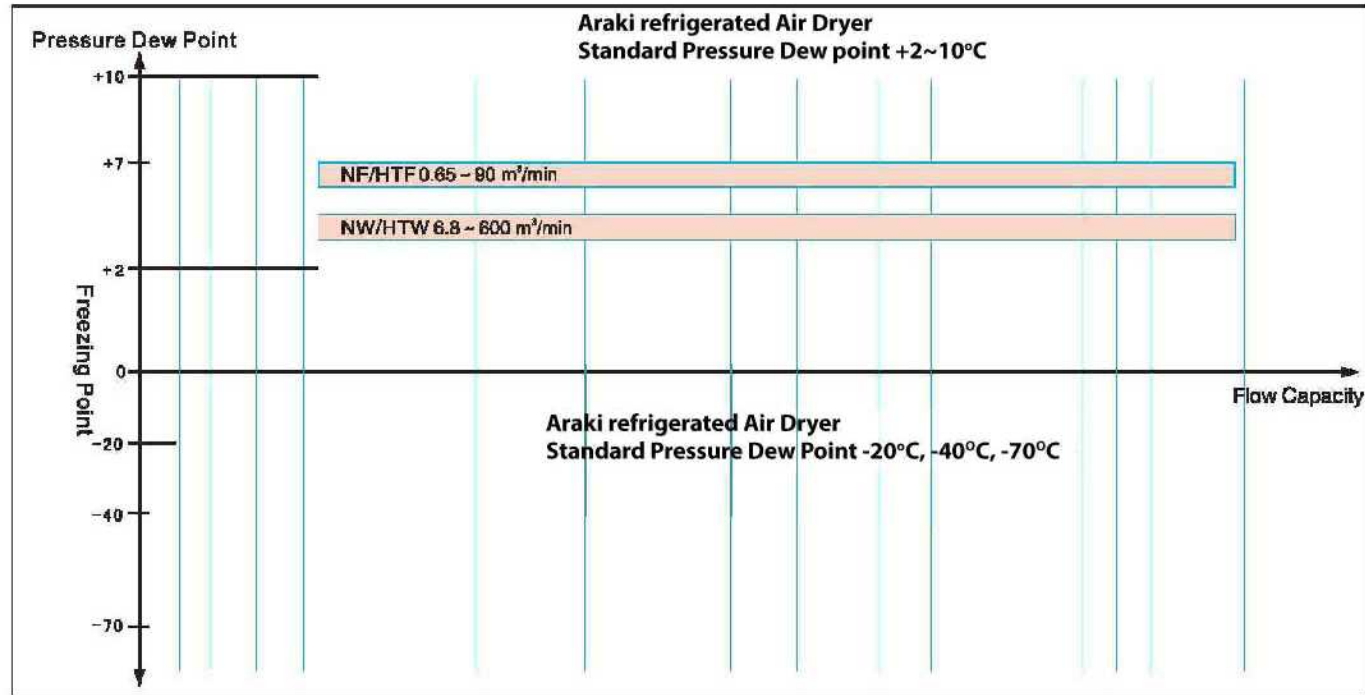
**Pressure Dew Point-Atmosphere
Dew Point Conversion Chart**



The relation sheet of atmosphere dew point and water content

Atmosphere Dew Point (°C)	Water Content (g/m³)	Atmosphere Dew Point (°C)	Water Content (g/m³)	Atmosphere Dew Point (°C)	Water Content (g/m³)	Atmosphere Dew Point (°C)	Water Content (g/m³)	Atmosphere Dew Point (°C)	Water Content (g/m³)
64	153.8	39	48.7	14	12.1	-11	2.19	-36	0.260
63	147.3	38	46.3	13	11.4	-12	2.03	-37	0.236
62	141.2	37	44.0	12	10.7	-13	1.88	-38	0.214
61	135.3	36	41.8	11	10.0	-14	1.74	-39	0.194
60	130.3	35	39.6	10	9.3	-15	1.61	-40	0.176
59	124.7	34	37.6	9	8.8	-16	1.48	-41	0.159
58	119.4	33	35.7	8	8.3	-17	1.37	-42	0.144
57	114.2	32	33.8	7	7.8	-18	1.26	-43	0.130
56	109.2	31	32.1	6	7.3	-19	1.17	-44	0.117
55	104.2	30	30.4	5	6.8	-20	1.07	-45	0.106
54	99.8	29	28.8	4	6.4	-21	0.99	-46	0.095
53	95.4	28	27.2	3	5.9	-22	0.91	-47	0.085
52	91.1	27	25.8	2	5.6	-23	0.84	-48	0.077
51	87.0	26	24.4	1	5.2	-24	0.77	-49	0.069
50	83.1	25	23.1	0	4.8	-25	0.70	-50	0.062
49	79.3	24	21.8	-1	4.5	-26	0.65	-51.1	0.054
48	75.6	23	20.6	-2	4.2	-27	0.59	-53.9	0.040
47	72.3	22	19.4	-3	3.9	-28	0.54	-56.7	0.029
46	68.7	21	18.3	-4	3.7	-29	0.50	-59.4	0.021
45	65.5	20	17.3	-5	3.4	-30	0.45	-62.2	0.014
44	62.4	19	16.3	-6	3.2	-31	0.41	-65	0.011
43	59.4	18	15.4	-7	2.9	-32	0.38	-67.8	0.008
42	56.6	17	14.5	-8	2.7	-33	0.34	-70.6	0.005
41	53.8	16	13.6	-9	2.5	-34	0.31	-73	0.003
40	51.2	15	12.8	-10	2.4	-35	0.29		

A Complete Set Of Solutions
Araki Compressed air dryer



NF HTF NW HTW = Refrigerated Air Dryer
 WXF = Heatless type Desiccant Air Dryer
 MXF = Micro-heating Type Desiccant Air Dryer

ISO 8573-1:2010 Contaminants And Purity Classes

Class	Particles			Moisture	Max oil contain
	Per cubic meter of maximum number of particles			Max pressure dew point	
	Particle size, d(um)				
	0.1 < d ≤ 0.5	0.5 < d ≤ 1.0	1.0 < d ≤ 5		
0	Clients customized			Clients customized	Clients customized
1	≤ 20000	≤ 400	≤ 10	≤ -70°C	≤ 0.01 mg/m³
2	≤ 400000	≤ 6000	≤ 100	≤ -40°C	≤ 0.1 mg/m³
3	No specified	≤ 90000	≤ 1000	≤ -20°C	≤ 1 mg/m³
4	No specified	No specified	≤ 10000	≤ +3°C	≤ 5 mg/m³
5	No specified	No specified	≤ 100000	≤ +7°C	-
6	-	-	-	≤ +10°C	-
	Level 6 - level 7 depend on the Maximum density of particles Class 6: 0 < density ≤ 5 mg/m³ Class 7: 5 < density ≤ 10 mg/m³			Level 7 - level 9 depend on the Liquid water content Class 7: Cw ≤ 0.5 g/m³ Class 8: 0.5 g/m³ < Cw ≤ 5 g/m³ Class 9: 5 g/m³ < Cw ≤ 10 g/m³	

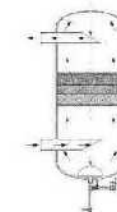
Selling Point

Shell and Tube Heat Exchanger



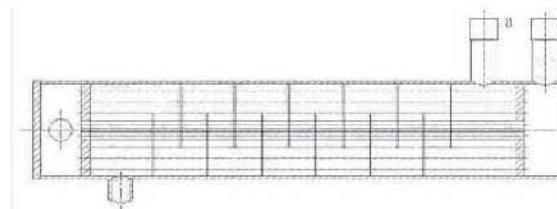
Features

- Air inlet pressure: 0.6-1.0MPa
Air inlet temp: 20-45C
Ambient temp: 5-38 C
- Exchange capillary for automatic expansion valve
- Two refrigerant compressors for big cube dryers
- Unique welding process for the Evaporator copper pipe
- Gas-liquid separator



Patented Design
 • Direct collision type
 • Low speed centrifuge type
 • Stainless steel wire mesh type

- Countercurrent Design for the heat exchanger



Plat Fin Heat Exchanger



Features

- Air inlet pressure: 0.6-1.6MPa
Air inlet temp: 20-60C
Ambient temp: 5-50 C
- Three-in-one aluminum plate fin design: Heat exchanger, Evaporator and Gas-liquid Separator be combined together with compact size.
- Energy saving of 20% for compressor power.
- Bigger pre cooler and back heating design to reduce the 15% load for the evaporator to reduce the cost.
- Standard configuration of real time display the dew point.
- Standard configuration of expansion valve and hot gas by pass valve.
- Standard configuration of electronic drainer.



FK Series Refrigerated Air Dryer

Air Cooled Type



Max Air Inlet Temp: Normal Temp Type 60 °C / High Temp Type 80 °C
 Ambient Temp Range: 5 °C -50 °C
 Pressure Range: 0.6-1.6MPa (Plate Type/ Plate Fin Type)
 0.6-1.0MPa (Shell and Tube Type)
 Pressure Dew Point: 2-10 °C
 Cooling Type: Air-cooled
 Power Supply: 0.5-8Nm³/min AC 220V/1ph/50Hz
 10Nm³/min and above AC 380V/3ph/50Hz
 Refrigerant: R134a/R407C

Note: Air cooled 80m³(included) and above is bare equipment.
 Other special requirements can be customized.

Working Principle

Based on the relationship between the saturation water vapor pressure and temperature, Refrigerated air dryer can efficiently precipitate water from compressed air with the usage of refrigeration device to cool the compressed air to a certain dew point temperature. Then the water will be discharged by separator and auto water drain to make the compressed air dried.

Features:

- Plate fin type heat exchanger with three-in-one design:Heat exchanger,Evaporator and Gas-Liquid Separator be combined together.
- Low Dew Point:Stable pressure dew point in rated condition(7bar/Inlet temp 38C/Ambient temp 38C)
- Energy saving of 20% for compressor power.
- Bigger pre-cooler and backheating design to reduce the 15% load for the evaporator to reduce the cost.
- Lower flow rate design to reduce the pressure loss≤3%.
- Real time display the dew point.
- Standard configuration of Expansion Valve and Hot Gas By Pass Valve.
- Standard configuration of Electronic Drainer.
- Refrigerant compressor: Danfoss, Performer, Bitzer, Copeland, Maneurop, Fusheng, Hitachi.
- Refrigerant control: Danfoss,Emerson,Sporlan.

Normal Temperature Air-cooled Type

Item Model	Capacity		Voltage (V/Ph/Hz)	Fan Power (W)	Connection Size	N.W (Kg)	L (mm)	W (mm)	H (mm)
	(Nm ³ /min)	(cfm)							
FK-0.65ACS	0.65	23	220/1/50	1x50	G1"	40	450	500	670
FK-1.2ACS	1.2	42	220/1/50	1x50	G1"	50	450	500	670
FK-2.5ACS	2.5	88	220/1/50	1x100	G1"	85	500	500	780
FK-3.6ACS	3.6	127	220/1/50	1x125	G1"	90	500	500	880
FK-5ACS	5	176	220/1/50	1x190	G1½"	120	710	550	1100
FK-6.8ACS	6.8	240	220/1/50	1x190	G1½"	130	700	550	1170
FK-8.5ACS	8.5	300	220/1/50	2x135	G2"	160	770	600	960
FK-10.9ACS	10.9	384	380/3/50	2x190	G2"	200	820	700	1040
FK-12.8ACS	12.8	451	380/3/50	2x190	G2"	200	820	700	1040
FK-16ACS	16	564	380/3/50	2x190 DN65		310	1460	750	1604
FK-22ACS	22	775	380/3/50	2x230 DN65		410	1670	800	1623
FK-26.8ACS	26.8	945	380/3/50	2x230 DN80		540	1820	800	1673
FK-32ACS	32	1128	380/3/50	2x420 DN80		640	1900	860	1855
FK-43.5ACS	43.5	1533	380/3/50	3x230 DN100		740	2200	930	1920
FK-53ACS	53	1868	380/3/50	3x420 DN100		880	2450	900	2090
FK-67ACS	67	2361	380/3/50	4x420 DN125		1010	2140	1450	1767
FK-90ACS	90	3172	380/3/50	4x550 DN125		1300	2070	1600	1986
FK-110ACS	110	3877	380/3/50	6x550 DN150		2000	2700	1600	1996

High Temperature Air-cooled Type

Item Model	Capacity		Voltage (V/Ph/Hz)	Fan Power (W)	Connection Size	N.W (Kg)	L (mm)	W (mm)	H (mm)
	(Nm ³ /min)	(cfm)							
FK-0.65ACS	0.65	23	220/1/50	2x50	G1"	55	500	500	670
FK-1.2ACS	1.2	42	220/1/50	2x50	G1"	65	500	500	670
FK-2.5ACS	2.5	88	220/1/50	2x100	G1"	110	600	560	780
FK-3.6ACS	3.6	127	220/1/50	2x125	G1"	130	600	560	900
FK-5ACS	5	176	220/1/50	1x190+1x135	G1½"	150	800	660	1100
FK-6.8ACS	6.8	240	220/1/50	2x190	G1½"	170	800	680	1210
FK-8.5ACS	8.5	300	220/1/50	4x135	G2"	210	1120	740	1070
FK-10.9ACS	10.9	384	380/3/50	2x135+2x190	G2"	220	1220	770	1190
FK-12.8ACS	12.8	451	380/3/50	2x135+2x190	G2"	220	1220	770	1190
FK-16ACS	18	564	380/3/50	4x190	DN65	350	1500	1100	1580
FK-22ACS	22	775	380/3/50	4x230	DN65	450	1670	1100	1650
FK-26.8ACS	26.8	945	380/3/50	4x230	DN80	590	1920	1180	1830
FK-32ACS	32	1128	380/3/50	4x420	DN80	710	2000	1280	1950
FK-43.5ACS	43.5	1533	380/3/50	6x230	DN100	880	2330	1350	2158
FK-53ACS	53	1868	380/3/50	6x420	DN100	960	2590	1420	2260
FK-67ACS	67	2361	380/3/50	4x420+4x550	DN125	1190	2600	1800	2250
FK-90ACS	90	3172	380/3/50	8x550	DN125	1460	2800	1800	2342
FK-110ACS	110	3877	380/3/50	12x550	DN150	2300	3300	1950	2677

* According to DIN7183, The design of the refrigerated air dryer is based on: working pressure 7 bar and ambient temperature 38 °C. The Correction coefficient should be taken into consideration. (high temperature style inlet air as 45°C)

Correction Factor

Air Inlet Temperature (C1)

Temperature °C	30	35	38	45	50	55	60
Factor	1.21	1.0	1.0	0.78	0.64	0.53	0.46

Air Inlet Pressure (C2)

Inlet pressure (Mpa)	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Factor	0.63	0.75	0.88	1.0	1.04	1.07	1.1

Ambient Temperature (C3) (Only suitable for air cooled type)

Temperature °C	20	25	30	35	38	40	45	50
Factor	1.16	1.12	1.08	1.03	1.00	0.98	0.80	0.52

Actual Capacity=Nominal Capacity x(C1xC2xC3)

Water-cooled Type



Max Air Inlet Temp: Normal Temp Type 60 °C / High Temp Type 80 °C
 Ambient Temp Range: 5 °C -50 °C
 Pressure Range: 0.6-1.6MPa (Plate type/ Plate fin type)
 0.6-1.0MPa (Shell and tube type)
 Pressure Dew Point: 2-10 °C
 Cooling Method: Water-cooled(Industry recycling cooling water)
 Cooling Water Pressure Range:0.2-0.4MPa
 Max Cooling Water Inlet Temp : 38°C
 Power Supply: 0.5-8Nm³ / min AC 220V/1ph/50Hz
 10Nm³/min and above AC 380V/3ph/50Hz
 Refrigerant: R134a/R407C
 Cooling Water Inlet Temp:≤38°C

Note: Water cooled 300m³(included) and above is bare equipment.
 Other special requirements can be customized.

Working Principle

Based on the relationship between the saturation water vapor pressure and temperature, Refrigerated air dryer can precipitate water with the usage of refrigeration device to cool the compressed air to a certain dew point temperature. Then the water will be discharged by separator and auto water drain to make the compressed air dried.

Features:

- Water-cooled is suitable for high temperature environment.
- The gas-liquid separator adopts a patented three-stage separation method to separate 99.9% of liquid water from the cooled compressed air to prevent secondary evaporation of moisture and ensure low dew point quality of the compressed air.
- Standard configuration of Expansion Valve and Hot Gas By Pass Valve.
- Standard configuration of Electronic Drainer.
- Refrigerant compressor: Danfoss, Performer, Bitzer, Copeland, Maneurop, Fusheng, Hitachi.
- Refrigerant control: Danfoss, Emerson, Sporlan.

Normal Temperature Water-cooled Type

Item Model	Capacity (Nm ³ /min) (cfm)	Voltage (V/Ph/Hz)	Air Connection	Water Connection	N.W (Kg)	L (mm)	W (mm)	H (mm)	
FK-8.5WCS	8.5	300	220/1/50	G2"	R1"	140	600	600	900
FK-10.9WCS	10.9	384	380/3/50	G2"	R1"	180	820	700	1040
FK-12.8WCS	12.8	451	380/3/50	G2"	R1"	180	890	700	1040
FK-16WCS	16	584	380/3/50	DN65	R1 1/2"	300	1180	740	1393
FK-22WCS	22	776	380/3/50	DN65	R1 1/2"	410	1400	700	1423
FK-26.8WCS	26.8	945	380/3/50	DN80	R1 1/2"	530	1570	800	1393
FK-32WCS	32	1128	380/3/50	DN80	R1 1/2"	640	1500	860	1558
FK-43.5WCS	43.5	1533	380/3/50	DN100	R1 1/2"	720	1800	880	1585
FK-53WCS	53	1868	380/3/50	DN100	R1 1/2"	880	2230	900	1585
FK-67WCS	67	2381	380/3/50	DN125	R1 1/2"	1000	2140	1000	1787
FK-90WCS	90	3172	380/3/50	DN125	R1 1/2"	1650	2130	1200	1986
FK-110WCS	110	3877	380/3/50	DN150	R2"	2430	2410	1135	1978
FK-130WCS	130	4582	380/3/50	DN150	R2"	2500	2800	1355	2144
FK-160WCS	160	5638	380/3/50	DN200	R2 1/2"	2800	2970	1550	2374
FK-210WCS	210	7402	380/3/50	DN200	R2 1/2"	3500	3370	1510	2434
FK-260WCS	260	9164	380/3/50	DN250	R3"	3700	3880	1980	2688
FK-315WCS	315	11102	380/3/50	DN250	R3"	4000	3795	1900	2714
FK-350WCS	350	12338	380/3/50	DN300	R3"	4100	4080	2050	3009
FK-400WCS	400	14098	380/3/50	DN300	R4"	4200	4400	2050	3009
FK-450WCS	450	15880	380/3/50	DN350	R4"	4500	4800	2000	3059
FK-500WCS	500	17823	380/3/50	DN350	R4"	4700	4900	2000	3059
FK-550WCS	550	19385	380/3/50	DN400	DN125	5000	4900	2160	3209
FK-600WCS	600	21147	380/3/50	DN400	DN125	5300	4900	2260	3309

High Temperature Water-cooled Type

Item Model	Capacity (Nm ³ /min) (cfm)	Voltage (V/Ph/Hz)	Air Connection	Water Connection	N.W (Kg)	L (mm)	W (mm)	H (mm)	
FK-8.5WCS	8.5	300	220/1/50	G2"	R1"	190	850	800	1100
FK-10.9WCS	10.9	384	380/3/50	G2"	R1"	240	900	850	1100
FK-12.8WCS	12.8	451	380/3/50	G2"	R1"	240	900	850	1100
FK-16WCS	16	584	380/3/50	DN65	R1 1/2"	350	1380	1170	1393
FK-22WCS	22	776	380/3/50	DN65	R1 1/2"	480	1500	1150	1443
FK-26.8WCS	26.8	945	380/3/50	DN80	R1 1/2"	620	1850	1250	1413
FK-32WCS	32	1128	380/3/50	DN80	R1 1/2"	720	1500	1300	1558
FK-43.5WCS	43.5	1533	380/3/50	DN100	R1 1/2"	870	1920	1320	1585
FK-53WCS	53	1868	380/3/50	DN100	R1 1/2" / R2"	1100	2230	1360	1585
FK-67WCS	67	2381	380/3/50	DN125	R1 1/2" / R2"	1400	2140	1500	1787
FK-90WCS	90	3172	380/3/50	DN125	R1 1/2" / R2"	1850	2130	1800	1986
FK-110WCS	110	3877	380/3/50	DN150	R2"	2800	2440	1780	1978
FK-130WCS	130	4582	380/3/50	DN150	R2"	2900	2810	1980	2146
FK-160WCS	160	5638	380/3/50	DN200	R2 1/2" / R3"	3200	2980	2260	2374
FK-210WCS	210	7402	380/3/50	DN200	R2 1/2" / R3"	3700	3370	2160	2426
FK-260WCS	260	9164	380/3/50	DN250	R3"	3880	3880	2600	2714
FK-315WCS	315	11102	380/3/50	DN250	R3"	4300	3760	2410	2560
FK-350WCS	350	12338	380/3/50	DN300	R3"	4200	4060	2660	3009
FK-400WCS	400	14098	380/3/50	DN300	R4"	4200	4260	2660	3009
FK-450WCS	450	15880	380/3/50	DN350	R4"	4700	4800	2800	3059
FK-500WCS	500	17823	380/3/50	DN350	R4"	4900	4900	2800	3059
FK-550WCS	550	19385	380/3/50	DN400	DN125	5300	4900	2970	3209
FK-600WCS	600	21147	380/3/50	DN400	DN125	5500	4900	3070	3309

* According to DIN7183, The design of the refrigerated is based on the following parameters, working pressure and ambient temperature, Working pressure 7 bar ambient temperature 38 °C. The Correction coefficient should be taken into consideration. (make the high temperature style inlet air as 45°C)

Correction Factor

Air Inlet Temperature (C1)

Temperature °C	30	35	38	45	50	55	60
Factor	1.21	1.0	1.0	0.78	0.64	0.53	0.46

Air Inlet Pressure (C2)

Inlet pressure (Mpa)	0.4	0.5	0.6	0.7	0.8	0.9	1.0
Factor	0.63	0.75	0.88	1.0	1.04	1.07	1.1

Actual Capacity=Nominal Capacity x(C1xC2)

FD Series Heated Desiccant Air Dryer

Features:

- Cycle time:10 minutes.
- Pressure dew point up to -20~-40°C.
- Air Purge:≤14%.
- Stable and reliable high-quality switching valves ensure complete process of working and extend the working life of components. Use high hygroscopic activated alumina. It has uniform shape and size, high intensity, good output dew point, and produces less dust, but long service life.
- Adjust the regeneration air flow according to the equipment running load requirements to save energy.
- Special airflow diffuser automatically regenerates to ensure the service life of desiccant.
- Programmable microcomputer controller can adjust adsorption and regeneration working time and reach satisfactory dew point value.

Chart 1: Pressure Correction Factor

Air Inlet Pressure	MPa	0.5	0.6	0.7	0.8	0.9	1.0
	CFP	0.75	0.88	1	1.13	1.25	1.38

Chart2: Temperature Correction Coefficient

Air Inlet Temp	°C	20	25	30	35	38	45
	CFT	1.2	1.1	1	1	1	0.75

Selection process

- Choosing the Air inlet pressure correction coefficient(Pressure loss of pre filter in system should be considerate).
- Choosing Air inlet temperature correction coefficient.
- Calculation of dryer flow is as follows: air input/(CFP*CFT)=== Minimum flow, according to the dryer who should be able to meet the minimum flow, selected from the dryer series model.

FD Series Heated Desiccant Air Dryer

Features:

- Cycle time:2-6 hours.
- Air Purge: ≤ 7%.
- Pressure dew point up to -20~-40°C.
- Stable and reliable high-quality switching valves ensure complete process of working and extend the working life of components. Use high hygroscopic activated alumina. It has uniform shape and size, high intensity, good output dew point, and produces less dust, but long service life.
- Unique regeneration pipeline design ensure that heating and cold blowing at regenerative gas plane can make the regeneration gas distribute evenly, so that the adsorbent at adsorption tower center heat evenly, radiating fast, and regeneration completely.
- Reasonable heater design with good dehumidification and regeneration performance, low gas consumption, high efficiency heating reduce energy consumption at the maximum.
- Programmable microcomputer controller can adjust circulation time, adsorption, regeneration working time, heating period and heating temperature to achieve satisfactory dew point value.

FD Series Heatless Desiccant Air Dryer



Max Air Inlet Temp: 45 °C
 Pressure Range: 0.5-1.0MPa
 Pressure Dew Point:-20°C to -40 °C (Other dew point can be customized)
 Air Inlet Oil Content: ≤ 0.1PPm
 Air Purge: ≤ 14%
 Control Method: Microcomputer Automatic Control / PLC Control
 Power Supply: AC 220V/1Ph/50Hz
 Cycle Time: T = 10 (min)
 Note: Other special requirements can be customized.

Specification And Performance Parameters

Model	Item	Capacity		Connection Size	N.W (Kg)	L (mm)	W(mm)	H(mm)	Desiccant Weight (KG)
		(Nm ³ /min)	(cfm)						
FD-1.2AS		1.2	42	G1"	163	732	500	1417	24
FD-2.5AS		2.5	88	G1"	235	732	500	2017	40
FD-3.6AS		3.6	127	G1"	356	962	530	1711	60
FD-4.8AS		4.8	169	G1 1/2"	383	842	550	2225	85
FD-6.8AS		6.8	240	G1 1/2"	481	950	550	2105	120
FD-8.5AS		8.5	300	G2"	598	1288	600	2231	158
FD-10.9AS		10.9	384	G2"	756	1288	600	2331	190
FD-12.8AS		12.8	451	G2"	756	1288	600	2331	190
FD-16AS		16	564	DN65	760	1743	705	2356	310
FD-22AS		22	775	DN65	1171	1933	750	2415	492
FD-26.8AS		26.8	945	DN80	1258	1903	807	2738	578
FD-32AS		32	1128	DN80	1496	2101	800	2462	600
FD-43.5AS		43.5	1533	DN100	2010	2200	870	2576	856
FD-53AS		53	1868	DN100	2337	2213	870	2594	1002
FD-67AS		67	2361	DN125	2636	2416	1050	2827	1334
FD-90AS		90	3172	DN125	2900	2864	1050	2857	1608
FD-110AS		110	3877	DN150	3800	3460	1230	3048	2000
FD-130AS		130	4582	DN150	4330	3560	1307	3094	2435
FD-160AS		160	5639	DN200	5270	3960	1450	3322	2926
FD-210AS		210	7402	DN200	6920	4360	1600	3373	4070
FD-260AS		260	9164	DN250	Please consult with the manufacturer for detailed parameters.				4710
FD-310AS		310	10926	DN250	Please consult with the manufacturer for detailed parameters.				6160

FD Series Heated Desiccant Air Dryer

FD Series Heated Desiccant Air Dryer



Specification And Performance Parameters

Item Model	Capacity		Desiccant Weight (KG)	Connection Dia	NLW (Kg)	L (mm)	W (mm)	H (mm)
	(Nm ³ /min)	(cfm)						
FD-1.2HS	1.2	42	24	G1"	186	812	640	1417
FD-2.5HS	2.5	88	40	G1"	256	732	586	2017
FD-3.6HS	3.6	127	60	G1"	341	962	638	1711
FD-4.8HS	4.8	169	85	G1 1/2"	447	842	624	2225
FD-6.8HS	6.8	240	120	G1 1/2"	630	950	642	2105
FD-8.5HS	8.5	300	158	G2"	678	1288	696	2231
FD-10.9HS	10.9	384	190	G2"	810	1288	696	2331
FD-12.8HS	12.8	451	190	G2"	810	1288	696	2331
FD-16HS	16	564	310	DN65	983	1743	735	2356
FD-22HS	22	775	492	DN65	1271	1933	736	2415
FD-26.8HS	26.8	945	578	DN80	1371	1903	823	2738
FD-32HS	32	1128	600	DN80	1550	2101	913	2462
FD-43.5HS	43.5	1533	856	DN100	1994	2200	1002	2576
FD-53HS	53	1868	1002	DN100	2127	2213	1002	2594
FD-67HS	67	2361	1334	DN125	2850	2513	1260	2799
FD-90HS	90	3172	1608	DN125	3060	2864	1340	2857
FD-110HS	110	3877	2000	DN150	4080	3460	1605	3048
FD-130HS	130	4582	2435	DN150	4800	3560	1675	3094
FD-160HS	160	5639	2926	DN200	5600	3960	1800	3332
FD-210HS	210	7402	4070	DN200	7300	4380	2055	3373
FD-260HS	260	9164	4710	DN250				Please consult with the manufacturer for detailed parameters.
FD-310HS	310	10926	6160	DN250				Please consult with the manufacturer for detailed parameters.

Max Air Inlet Temp: 45°C
 Pressure Range: 0.5-1.0MPa
 Pressure Dew Point: -20°C to -40 °C (Other dew point can be customized)
 Air Inlet Oil Content: ≤ 0.1PPm
 Air Purge: ≤ 7%
 Control Method: Microcomputer Automatic Control / PLC Control
 Power Supply: 1 ~ 6Nm³ / min AC 220V/1Ph/50HZ
 8Nm³ / min and above AC 380V/3Ph/50HZ
 Cycle Time: T = 2 ~ 6 (h)
 Note: Other special requirements can be customized.



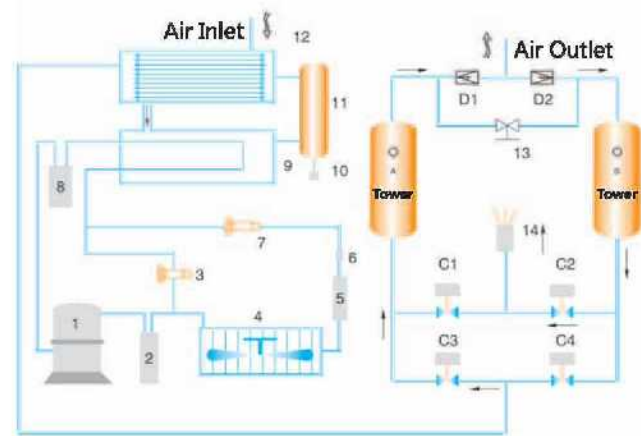
Working Principle

Combined air dryer consists of a refrigerated and a desiccant air dryer. Refrigerated air dryers has a strong water remove capability. While desiccant air dryer can reach a lower dew point -70°C .The air consumption is only 20% of the normal desiccant air dryer. The prominent advantages are energy saving and high quality low dew point air.

Features

- Lower dew point: -40°C for normal.-70°C for special requirement
- Lower Air consumption: 3%-5%
- Patented design in water separator: 99.9% water be separated
- Refrigerant compressor: Danfoss, Performer, Bitzer, Copeland,Maneurop, Fusheng
- Refrigerant control: Danfoss,Emerson,Sporlan
- Using high performance activated alumina with long life
- Various Control system on your request
- High quality and efficient heat exchanger and condenser

Air Cooled Type



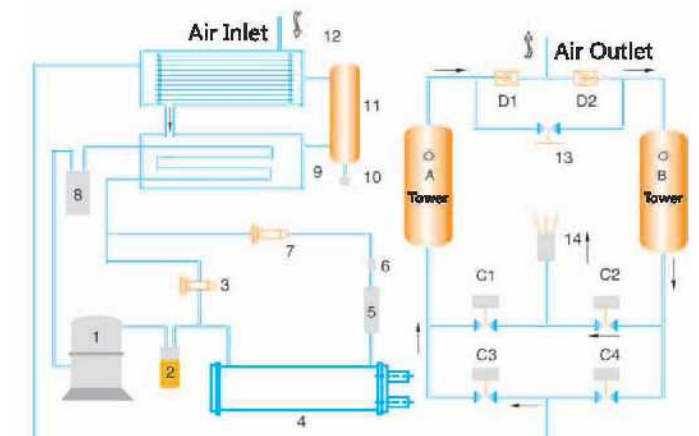
Max Air Inlet Temp: 45 °C
 Ambient Temp Range: 5 °C-50 °C
 Pressure Range: 0.6-1.0MPa
 Pressure Dew Point: -20°C to -40 °C (Other dew point can be customized)

Air Purge: 3-5%
 Cooling Type: Air-cooled
 Air Inlet Oil Content: ≤ 0.1PPm
 Power Supply: 1-12Nm³/min: AC 220V/1Ph/50HZ
 15Nm³/min and above: AC 380V/3Ph/50HZ
 Cycle Time: T = 40 (min)
 Refrigerant: R22 (R407C / R134a as optional)

Note: Air cooled 80m³(included) and above is bare equipment.
 Other special requirements can be customized.

Symbol	Name	g	Name
1	Compressor	10	Automatic Drain
2	Oil And Water Separator	11	Gas Liquid Separator
3	Hot Gas Bypass Valve	12	Heat Exchanger
4	Air Condenser	13	Regenerative Air Regulating Valve
5	Dry Filter	14	Muffler
6	Sight Glass	A, B	Adsorption Cylinder
7	Expansion Valve	C1-4	Pneumatic Valve
8	Carburetor	D1-2	Check Valve

Water-Cooled Type



Max Air Inlet Temp: 45 °C
 Ambient Temp Range: 5 °C-50 °C
 Pressure Range: 0.6-1.0MPa
 Pressure Dew Point: -20°C to -40 °C (Other dew point can be customized)

Air Purge: 3-5%
 Cooling Type: Water-cooled (Industrial circulation cooling water)
 Cooling Water Pressure Range: 0.2 ~ 0.4MPa
 Max Cooling Water Inlet Temp: 38 °C
 Air Inlet Oil Content: ≤ 0.1PPm
 Power Supply: 6-12 Nm³/min: AC 220V/1Ph/50HZ
 15 Nm³/min and above: AC 380V/3Ph/50HZ
 Cycle Time: T = 40 (min)
 Refrigerant: R22 (R407C / R134a as optional)

Note: Water cooled 80m³(included) and above is bare equipment.
 Other special requirements can be customized.

Symbol	Name	g	Name
1	Compressor	10	Automatic Drain
2	Oil And Water Separator	11	Gas Liquid Separator
3	Hot Gas Bypass Valve	12	Heat Exchanger
4	Water Condenser	13	Regenerative Air Regulating Valve
5	Dry Filter	14	Muffler
6	Sight Glass	A, B	Adsorption Cylinder
7	Expansion Valve	C1-4	Pneumatic Valve
8	Carburetor	D1-2	Check Valve

Specification And Performance Parameters

Model	Item	Capacity		Desiccant Weight (KG)	Connection Diameter	Fan Power (W)	Voltage (V/Ph/Hz)	N.W(KG)	L(mm)	W(mm)	H(mm)
		(Nm ³ /min)	(cfm)								
FC-1.2ACS		1.2	42	25	G1"	1x50	220/1/50	400	1080	850	1480
FC-2.5ACS		2.5	88	40	G1"	1x50	220/1/50	440	1100	900	2050
FC-3.6ACS		3.6	127	60	G1"	1x100	220/1/50	460	1200	1000	1808
FC-5ACS		5	176	85	G1 1/2"	1x135	220/1/50	660	1290	1030	2263
FC-6.8ACS		6.8	240	105	G1 1/2"	1x230	220/1/50	775	1500	1105	1931
FC-8.5ACS		8.5	300	150	G2"	2x135	220/1/50	970	1500	1240	2016
FC-10.9ACS		10.9	384	185	G2"	2x135	220/1/50	1120	1500	1240	2316
FC-12.8ACS		12.8	451	185	G2"	2x135	220/1/50	1120	1500	1240	2316
FC-16ACS		16	564	275	DN65	2x190	380/3/50	1670	1960	1450	2196
FC-22ACS		22	775	395	DN65	2x190	380/3/50	1740	1980	1600	2475
FC-26.5ACS		26.8	945	495	DN80	2x230	380/3/50	2100	2270	1700	2505
FC-32ACS		32	1128	605	DN80	2x230	380/3/50	2200	2420	1780	2519
FC-43.5ACS		43.5	1533	725	DN100	2x420	380/3/50	2784	2540	1900	2637
FC-53ACS		53	1868	860	DN100	3x230	380/3/50	3094	2600	2350	2638
FC-67ACS		67	2381	1005	DN125	3x420	380/3/50	3421	2540	2450	2719
FC-90ACS		90	3172	1335	DN125	4x420	380/3/50	4200	2640	2600	2818

* Ambient temperature: ≤38°C Technical standards for the above parameters under pressure 0.7MPa.
 Please contact Shanli for technical information when the working pressure is below 0.6MPa or over 1.0MPa.

Specification And Performance Parameters

Model	Item	Capacity		Desiccant Weight (KG)	Air Connection	Water Connection	Voltage (V/Ph/Hz)	N.W(KG)	L(mm)	W(mm)	H(mm)
		(Nm ³ /min)	(cfm)								
FC-6.8WCS		6.8	240	105	G1 1/2"	R1"	220/1/50	760	1500	1160	1940
FC-8.5WCS		8.5	300	150	G2"	R1"	220/1/50	960	1500	1100	2016
FC-10.9WCS		10.9	384	185	G2"	R1"	220/1/50	1120	1500	1240	2316
FC-12.8WCS		12.8	451	185	G2"	R1"	220/1/50	1150	1500	1240	2316
FC-16WCS		16	564	275	DN65	R1"	380/3/50	1660	1960	1450	2196
FC-22WCS		22	775	395	DN65	R1 1/2"	380/3/50	1740	1970	1600	2475
FC-26.8WCS		26.8	945	495	DN80	R1 1/2"	380/3/50	2075	2030	1630	2505
FC-32WCS		32	1128	605	DN80	R1 1/2"	380/3/50	2200	2240	1840	2519
FC-43.5WCS		43.5	1533	725	DN100	R1 1/2"	380/3/50	2784	2380	1900	2637
FC-53WCS		53	1868	860	DN100	R1 1/2"	380/3/50	3144	2400	2000	2638
FC-67WCS		67	2361	1005	DN125	R1 1/2"	380/3/50	3361	2540	2100	2719
FC-90WCS		90	3172	1335	DN125	R1 1/2"	380/3/50	4500	2640	2450	2818
FC-110WS		110	3877	2155	DN150	R1 1/2"	380/3/50	6550	2680	2670	2985
FC-130WCS		130	4582	2650	DN150	R2"	380/3/50	7810	2820	2800	3041
FC-160WCS		160	5639	3205	DN200	R2"	380/3/50	8500	3290	3130	3190
FC-210WCS		210	7402	3825	DN200	R2 1/2"	380/3/50	9600	3350	3375	3309
FC-260WCS		260	9164	5260	DN250	R2 1/2"	380/3/50				
FC-315WCS		315	11102	5440	DN250	R3"	380/3/50				

* Cooling water temperature ≤32°C. Cooling water inlet pressure: 0.2-0.4 MPa.
 The parameters above is based on standard technical pressure 0.7MPa.
 Please contact Shanli for technical information when the working pressure is below 0.6MPa or over 1.0MP

FD Series Heat of Compression Desiccant Air Dryer



Min Air Inlet Temp: 100 °C
 Pressure Range: 0.5-1.0MPa
 Pressure Dew Point: -20 °C to -40 °C (Other dew point can be customized)
 Air Purge: ≤ 1.5% / 0
 Max Cooling Water Inlet Temp: 38 °C
 Air Inlet Oil Content: ≤ 0.1PPm
 Control Method: PLC Control
 Power Supply: AC 220V/1Ph/50Hz
 Cycle Time: T = 6 ~ 8 (h)

Note: Air inlet temperature higher than 140 °C and other special requirements can be customized.



Working Principle

Compression heat type products effectively utilize waste compressed air for the desiccant regeneration, which saves power and air consumption. After the heating regeneration, the compressed air flow directly into the water cooler and then enter the absorption tower to be a dry product gas.

Features:

- High efficient and energy saving
- Lower dew point
- Less gas consumption
- Less pressure loss
- Quality switch valves with stable and reliable quality
- Special air diffusion & automatic regeneration to extend desiccant life time
- Highly reliable programmable logic control (PLC).
- Three-stage drainage features

With Air Purge Type

Zero Air Purge Type

Model	Capacity		L (mm)	W (mm)	H (mm)	Inlet /Outlet Flange Size	Power Consum-ption (W)	Dryer Weight (Kg)	Desiccant Weight (Kg)	Cooling water circulation (m³/h)	Model	Capacity		L (mm)	W (mm)	H (mm)	Inlet /Outlet Flange Size	Power Consum-ption (W)	Dryer Weight (Kg)	Desiccant Weight (Kg)	Cooling water circulation (m³/h)
	(Nm³/min)	(cfm)										(Nm³/min)	(cfm)								
FD-40CHS	40	1410	2900	1800	2658	DN100	500	3000	850	20	FD-30CHS	30	1057	3100	1900	2650	DN80	500	3400	850	30
FD-50CHS	50	1762	2900	1800	2695	DN100	500	3400	990	25	FD-40CHS	40	1410	3400	2000	2700	DN100	500	4150	990	40
FD-60CHS	60	2112	3200	1800	2900	DN125	500	3800	1300	30	FD-50CHS	50	1762	3400	2000	2800	DN100	500	4400	1300	50
FD-80CHS	80	2820	3500	1900	2904	DN125	500	4400	1670	40	FD-60CHS	60	2115	3800	2300	2922	DN125	500	5200	1670	60
FD-100CHS	100	3525	3700	2100	2980	DN150	500	5200	2050	53	FD-80CHS	80	2820	4000	2400	2985	DN125	500	6300	2050	80
FD-120CHS	120	4229	3800	2200	3064	DN150	500	6800	3050	47	FD-100CHS	100	3525	4200	2800	3064	DN150	500	7200	2540	106
FD-150CHS	150	5287	4500	2400	3200	DN200	500	8300	3600	59	FD-120CHS	120	4229	4600	2800	3142	DN150	500	8800	3600	94
FD-180CHS	180	6344	4500	2500	3270	DN200	500	10000	4200	71	FD-150CHS	150	5287	5200	3100	3320	DN200	500	12000	4900	118
FD-200CHS	200	7049	4500	2800	3365	DN200	500	11100	4900	78	FD-180CHS	180	6344	5400	3220	3395	DN200	500	13200	5600	142
FD-220CHS	220	7754	4600	2800	3416	DN200	500	12200	5600	86	FD-200CHS	200	7049	5500	3400	3500	DN200	500	15600	6400	156
FD-250CHS	250	8811	Please consult with the manufacturer for detailed parameters.				DN200	500	12200	5600	86	FD-250CHS	250	8811	Please consult with the manufacturer for detailed parameters.						
FD-300CHS	300	10574	Please consult with the manufacturer for detailed parameters.				DN200	500	12200	5600	86	FD-300CHS	300	10574	Please consult with the manufacturer for detailed parameters.						
FD-350CHS	350	12336	Please consult with the manufacturer for detailed parameters.				DN200	500	12200	5600	86	FD-350CHS	350	12336	Please consult with the manufacturer for detailed parameters.						
FD-400CHS	400	14098	Please consult with the manufacturer for detailed parameters.				DN200	500	12200	5600	86	FD-400CHS	400	14098	Please consult with the manufacturer for detailed parameters.						

Chart 1:CFP Pressure correction coefficient CFP

pressure of compressed	MPa	0.5	0.6	0.7	0.8	0.9	1.0
CFP		0.67	0.78	1	1	1.11	1.22

Selection Process

- Select the dryer inlet pressure correction coefficient CFP, the pre-filter pressure loss must be considered
- Flow capacity calculation as follows: inlet air flow/ (CFP) = minimum air flow
- Desiccant model will be selected according to the minimum air flow dryer to ensure that the selected model air flow at least equal to the minimum

FD Series Heated Blower Desiccant Air Dryer



Max Air Inlet Temp: 45 °C
 Pressure Range: 0.5-1.0MPa
 Pressure Dew Point: -20 °C to -40 °C (Other dew point can be customized)
 Air Purge: ≤ 3% / 0
 Max Cooling Water Inlet Temp: 38 °C
 Air Inlet Oil Content: ≤0.1PPm
 Control Method: PLC Control
 Power Supply: AC 380V/3Ph/50HZ
 Cycle Time: T = 6-8 (h)

Note: Other special requirements can be customized.



FD Series Modular Desiccant Air Dryer



Technical Specifications

Air Inlet Temperature	≤35°C
Air Inlet Pressure	0.7MPa
Air Purge	≤15%/≤7%
Pressure Loss	0.15bar(g)
Inlet Oil Content	≤0.1PPM
Dew Point	-40°C
Control Way	PC

Advantages

- High efficient desiccant
- High-strength aluminum alloy structure with corrosion-resistant
- Core design with 1/2 dimension to traditional dryer
- Tornado filling to prevent tunnel effect
- Unique multiple parallel installation

With Air Purge Type

Model	Capacity		Conne- -tion Diam- -ter	Heater Power (KW)	Blower Power (KW)	Desiccant Weight (KG)	Weight (KG)	Dimension (mm)
	(Nm ³ /min)	(cfm)						
FD-10.9BHS	10.9	384	DN50	8	1.3	311	940	1400x1092x2292
FD-16BHS	16	564	DN65	10	2.2	486	1100	1600x1247x2395
FD-22BHS	22	775	DN65	12	2.2	606	1300	1700x1377x2435
FD-26.8BHS	26.8	945	DN80	15	5.5	716	1800	1800x1403x2520
FD-32BHS	32	1128	DN80	18	5.5	860	2000	1800x1528x2544
FD-43.5BHS	43.5	1533	DN100	22	7.5	1158	2100	2000x1637x2640
FD-53BHS	53	1868	DN100	27	7.5	1422	2800	2100x1788x2722
FD-67BHS	67	2361	DN125	36	9	1608	3700	2300x1953x2825
FD-90BHS	90	3172	DN125	42	9	2436	4900	2720x2146x2940
FD-110BHS	110	3877	DN150	54	13	2926	5700	2810x2121x3081
FD-130BHS	130	4582	DN150	72	13	3478	7800	2996x2264x3140
FD-160BHS	160	5839	DN200	84	13	4710	11000	3470x2591x3433
FD-210BHS	210	7402	DN200	96	15	6160	15000	4700x2528x3532

Zero Air Purge Type

Model	Capacity		Conne- -tion Diam- -ter	Heater Power (KW)	Blower Power (KW)	Desiccant Weight (KG)	Weight (KG)	Dimension (mm)
	(Nm ³ /min)	(cfm)						
FD-10.9BHS	10.9	384	DN50	8	1.3	311	1000	1500x1157x2292
FD-16BHS	16	564	DN65	10	2.2	486	1300	1600x1317x2395
FD-22BHS	22	775	DN65	12	2.2	606	1500	1700x1379x2435
FD-26.8BHS	26.8	945	DN80	15	5.5	716	2000	1800x1475x2520
FD-32BHS	32	1128	DN80	18	5.5	860	2200	1800x1562x2544
FD-43.5BHS	43.5	1533	DN100	22	7.5	1158	2300	2000x1718x2640
FD-53BHS	53	1868	DN100	27	7.5	1422	3000	2100x1819x2722
FD-67BHS	67	2361	DN125	36	9	1608	4200	2418x1970x2825
FD-90BHS	90	3172	DN125	42	9	2436	5400	2724x2146x2940
FD-110BHS	110	3877	DN150	54	13	2926	6100	2810x2158x3068
FD-130BHS	130	4582	DN150	72	13	3478	8100	2998x2363x3140
FD-160BHS	160	5839	DN200	84	13	4710	11600	3480x2581x3408
FD-210BHS	210	7402	DN200	96	15	7008	16000	4700x2578x3532

Heated Type

Item	Capacity		Air Consumption	Power	Conne- -tion	Desicc- -ant Weight (kg)	Dimension (mm)
	Nm ³ /min	cfm					
FD-1.5MBHS	1.5	53	≤7%	220V /50HZ	G1	11.0	465X290X1205
FD-2.7MBHS	2.7	95.4				21.5	585X290X1205
FD-3.9MBHS	3.9	137.8				32.0	705X290X1205
FD-4.5MBHS	4.5	159				33.0	585X290X1645
FD-6.6MBHS	6.6	233.2			G1-1/2	50.0	705X290X1645
FD-8.7MBHS	8.7	307.4				66.0	825X290X1645
FD-10.8MBHS	10.8	381.6			G2	82.5	945X290X1645
FD-15.1MBHS	15.1	533.6				115.5	1190X290X1645
FD-17.2MBHS	17.2	607.8			G2-1/2	132.0	1310X290X1645
FD-21MBHS	21	742				165.0	1550X290X1645

Heatless Type

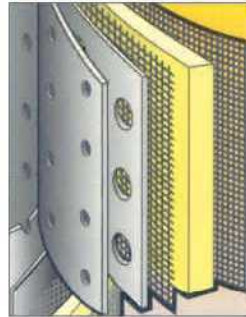
Item	Capacity		Air Consumption	Power	Conne- -tion	Desicc- -ant Weight (kg)	Dimension (mm)
	Nm ³ /min	cfm					
FD-1.5MBHS	1.5	53	≤15%	220V /50HZ	G1	11.0	465X290X1205
FD-2.7MBHS	2.7	95.4				21.5	585X290X1205
FD-3.9MBHS	3.9	137.8				32.0	705X290X1205
FD-4.5MBHS	4.5	159				33.0	585X290X1645
FD-6.6MBHS	6.6	233.2			G1-1/2	50.0	705X290X1645
FD-8.7MBHS	8.7	307.4				66.0	825X290X1645
FD-10.8MBHS	10.8	381.6			G2	82.5	945X290X1645
FD-15.1MBHS	15.1	533.6				115.5	1190X290X1645
FD-17.2MBHS	17.2	607.8			G2-1/2	132.0	1310X290X1645
FD-21M BHS	21	742				165.0	1550X290X1645

SAGL Series Compressed Air Filters

HC Level (HF9 Class) Main Line Filters

Features:

- The first stage using by a removable stainless steel mesh core and centrifugal to separate 10µm or larger solid particles and liquid particles. Main Line Filters.
- The second stage using alternative glass fiber filter 3µm or bigger solid particles and liquid particles completely, gravity to filter the water to the filter bottom and discharged.
- Inner and outer filter are corrosion resistant.
- 5PPM The remaining oil mist content 5PPM.



HF Level (HF3 Class) And Efficient Ultra-fine Filter

Features:

- Inner and outer filter are corrosion resistant.
- Closed coating sponge sleeve takes pre-filter and air flow dispersion.
- Density multi-layer matrix composite glass fiber specially designed can filter 0.01µm solid particles and liquid particles.
- 0.003 PPM The remaining oil mist content 0.003PPM



HT Level (HF7 Class) Oil Mist Filter

Features:

- Supporting screws holding the filter stable against shocks. Multi-layer glass fiber completely filter 1µm or bigger solid particles and liquid particles, and has a function to reduce the pressure drop.
- The air filtered by perforated outer cylinder, thereby rapidly flows to the filter outlet.
- Inner and outer filter are corrosion resistant.
- 1 PPM The remaining oil mist content 1PPM.



HH level (HF1 Class) Deodorizing Filter

Features:

- Inner and outer filter are corrosion resistant.
- Very fine activated carbon powder stable layer to filter out most of the oil vapor.
- Specially designed composite fiber media bonded micro fine activated carbon powder, filter out solid particles and liquid particles of 0.01µm.
- Textile composite fiber layer of activated carbon particles displacement, the outer coating closed sponge tube to prevent fiber network wavering.
- Under rated operating conditions, the design life is 2,000 hours. The remaining oil mist content 0.003PPm.



HA Level (HF5) Micro Oil Mist Filter

Features:

- Supporting screws holding the filter stable against shocks.
- Internal elastic sponge have a pre-filter function.
- Density, diameter and surface treatment specially designed of micro-glass fibers can filter 0.01µm solid particles and liquid particles.
- The outer layer of sponge to absorb and discharge oil mist.
- Inner and outer filter are corrosion resistant.
- 0.01PPm. The remaining oil mist

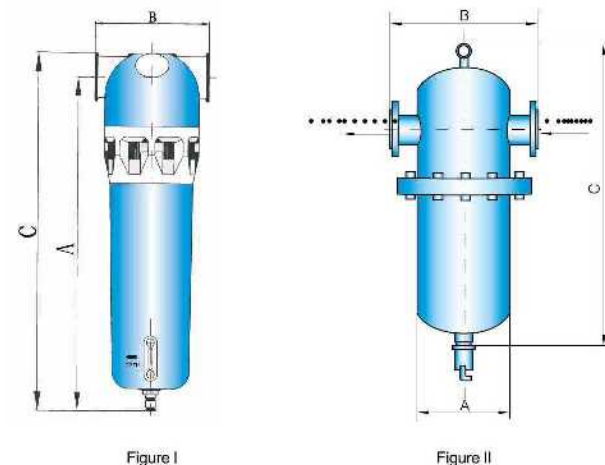


Figure I

Figure II

Specifications And Performance Parameters

Item Model	Air flow (Nm ³ /min)	Element Qty	Outer Size			Conne- tion Diameter	Weight (Kg)	Outside Drawing
			A(mm)	B(mm)	C(mm)			
SAGL-0.5*	0.65	1	337	125	361	G1"	1.9	Figure I
SAGL-1*	1.2	1	337	125	361	G1"	1.9	
SAGL-2*	2.5	1	337	125	361	G1"	1.9	
SAGL-3*	3.6	1	337	125	361	G1"	1.9	
SAGL-4.5*	5.0	1	444	152	475	G1½"	3.4	
SAGL-6*	6.8	1	444	152	475	G1½"	3.4	
SAGL-8*	8.5	1	734	160	767	G2"	5.3	
SAGL-10*	10.9	1	734	160	767	G2"	5.3	
SAGL-12*	12.8	1	734	160	767	G2"	5.3	
SAGL-15*	16	1	φ 159	399	950	DN65	49	
SAGL-20*	22	1	φ 159	399	1100	DN65	53	
SAGL-25*	26.8	1	φ 159	399	1250	DN80	59	
SAGL-30*	32	2	φ 219	459	985	DN80	67	
SAGL-40*	43.5	2	φ 219	459	1130	DN100	75	
SAGL-50*	53	3	φ 273	513	1190	DN100	109	
SAGL-60*	67	3	φ 273	513	1190	DN125	114	
SAGL-80*	90	4	φ 325	565	1220	DN125	132	
SAGL-100*	110	5	φ 377	637	1290	DN150	177	
SAGL-120*	130	5	φ 377	637	1445	DN150	187	
SAGL-150*	160	7	φ 462	762	1630	DN200	215	
SAGL-200*	210	9	φ 462	762	1630	DN200	216	
SAGL-250*	260	11	φ 512	812	1750	DN250	271	
SAGL-300*	315	13	φ 562	862	1800	DN250	310	
SAGL-350*	350	16	φ 662	962	1915	DN300	397	
SAGL-400*	400	18	φ 662	962	1915	DN300	398	
SAGL-450*	450	20	φ 712	1012	2000	DN350	462	
SAGL-500*	500	23	φ 712	1012	2000	DN350	500	
SAGL-550*	550	26	φ 816	1116	2005	DN400	560	
SAGL-600	600	28	φ 816	1116	2005	DN400	600	



*Pressure gauge as optional.

Performance Parameters

Product Level	Filtration Accuracy	Remaining Oil	Initial Pressure Drop	(Compressed State) The Concentration challenges of inlet
HC(HF9)	3µm	5ppm	0.007MPa	N/A
HT(HF7)	1µm	1ppm	0.007MPa	100ppm
HA(HF5)	0.01µm	0.01ppm	0.01MPa	3ppm
HF(HF3)	0.01µm	0.003ppm	0.01MPa	0.1ppm
HH(HF1)	0.01µm	0.003ppm	0.01MPa	0.1ppm

Pressure Correction Coefficient

Pressure(MPa)	correction coefficient	Pressure(MPa)	correction coefficient
0.1	0.25	1.0	1.0
0.2	0.375	1.3	1.0
0.3	0.5	1.6	1.0
0.4	0.625	2.0	1.33
0.5	0.75	2.5	1.33
0.7	1.0		

Note:

- *** indicates the product level: HC, HT, HA, HF, HH.
- This series of precision filter, filter element uses the technology of HANKISON.
- Filter element Precision is based on ISO 8573.
- Required to specify when ordering. The amount of processing at different pressures should be corrected coefficient as the coefficient correction table.

SAZJ Series Self-cleaning Filter



Specifications And Performance Parameters

Model	Item	Air Inlet Filtration (Nm ³ /min)	Initial Resistance (Pa)	Filtration Efficiency /Diameter	Blow-back Pressure (MPa)	Air Consumption (m ³ /min)	Electric Power (W)	L (mm)	W (mm)	H (mm)	Weight (t)	Outlet Flange Diameter
SAZJ-80	80	~100	≤150	100% /3 μm	0.5 /0.8	0.1	100	1540	1310	3000	0.8	DN800
	120	~150	≤150	100% /3 μm	0.5 /0.8	0.1	100	1540	1760	3050	1.0	DN850
SAZJ-100	200	~250	≤150	100% /3 μm	0.5 /0.8	0.1	100	1870	1760	3100	1.2	DN900
SAZJ-120	240	~300	≤200	100% /3 μm	0.5 /0.8	0.1	100	1870	2210	3150	1.5	DN950
SAZJ-160	320	~380	≤200	100% /3 μm	0.5 /0.8	0.1	100	2400	2210	3150	1.85	DN900
SAZJ-200	400	~480	≤270	100% /3 μm	0.5 /0.8	0.1	100	2830	2210	3200	2.0	DN900
SAZJ-250	500	~580	≤270	100% /3 μm	0.5 /0.8	0.1	100	3140	2150	3300	2.2	DN700
SAZJ-300	600	~680	≤270	100% /3 μm	0.5 /0.8	0.1	100	2830	2580	3300	2.3	DN700
SAZJ-350	700	~780	≤270	100% /3 μm	0.5 /0.8	0.1	100	3070	2770	3440	2.6	DN800
SAZJ-400	800	~880	≤270	100% /3 μm	0.5 /0.8	0.2	200	3740	2770	3540	3.2	DN900
SAZJ-450	900	~980	≤270	100% /3 μm	0.5 /0.8	0.2	200	4170	2770	3540	3.8	DN900
SAZJ-500	1000	~1180	≤270	100% /3 μm	0.5 /0.8	0.2	200	4600	2770	3640	4.0	DN1000
SAZJ-600	1200	~1380	≤270	100% /3 μm	0.5 /0.8	0.3	200	4080	4060	3640	5.4	DN1100
SAZJ-800	1600	~1750	≤270	100% /3 μm	0.5 /0.8	0.3	200	4900	4490	4040	7.8	DN1300
SAZJ-1000	2000	~2300	≤270	100% /3 μm	0.5 /0.8	0.3	200	4900	5350	4240	8.6	DN1500
SAZJ-1200	2400	~2700	≤270	100% /3 μm	0.5 /0.8	0.3	200	5840	5020	4340	11.5	DN1600
SAZJ-1500	3000	~3500	≤270	100% /3 μm	0.5 /0.8	0.3	200	7140	5020	4440	12.6	DN1700

* Other models can be customized as special standard.

Product Introduction

Self-cleaning air filter has the advantages of simple structure, long life time for the filter element (cartridge) and less maintenance compared with the normal air filters. The core components of the cartridge and material are from world famous brands. With adding a pre-filter, the life time of the filter cartridge is extended.

Features

- Help extend compressor durability.
- Using Schneider and Siemens's controller and LCD.
- With back blowing to make element clean.
- Filtration pressure loss: 270Pa Initial.
- With high efficient pre-filter to ensure long life.
- Equipped with digital display control device for pressure loss.
- With alarm system.

SAHL Series Water-cooled Air Cooler

Product Brief Introduction

SAHL series of high efficient air cooler is a main air compressor supplementary equipment. Hot air generated by the compressor can be cooled. It use high-efficiency finned copper tube, with small size, high cooling efficiency, using convenient and other characteristics, which can be used under high temperature, high humidity and heavy dust environment.

Technical Specifications

Inlet air pressure	0.6~1.0Mpa
Inlet air temperature	≤140℃
Outlet air temperature	≤45℃
Cooling water inlet temperature	≤32℃
Cooling water inlet pressure	0.2~0.4Mpa
The Initial pressure drop	≤0.02Mpa

* The above parameters pressure technical standard 0.7MPa (other special standard can be customized).



Specifications And Performance Parameters

Model	Item	Air capacity (Nm ³ /min)	Water consumption (m ³ /h)	Air connection diameter	Cooling water pipe diameter	Height (mm)	Cylinder diameter (mm)	Weight (Kg)
SAHL-1NW	0.65	0.3	G1/2"	Rc1/2"	955	φ89	30	
	1.2	0.5	G1"	Rc1"	1055	φ89	32	
SAHL-2NW	2.5	1	G1"	Rc1"	1305	φ108	44	
SAHL-3NW	3.6	1	G1"	Rc1"	1305	φ108	44	
SAHL-4.5NW	5.0	1.5	G1 1/2"	Rc1"	1330	φ159	70	
SAHL-6NW	6.8	1.5	G1 1/2"	Rc1"	1330	φ159	70	
SAHL-8NW	8.5	3	G2"	Rc1 1/2"	1780	φ159	86	
SAHL-10NW	10.9	3	G2"	Rc1 1/2"	1780	φ159	86	
SAHL-12NW	12.8	3	G2"	Rc1 1/2"	1780	φ159	86	
SAHL-15NW	16	4.5	DN65	Rc2"	1657	φ219	140	
SAHL-20NW	22	6	DN65	Rc2"	1657	φ219	142	
SAHL-25NW	26.8	9	DN80	Rc2"	1863	φ273	189	
SAHL-30NW	32	9	DN80	Rc2"	1863	φ273	197	
SAHL-40NW	43.5	12	DN100	Rc2 1/2"	2023	φ273	233	
SAHL-50NW	53	15	DN100	Rc2 1/2"	2087	φ325	297	
SAHL-60NW	67	18	DN125	Rc2 1/2"	2087	φ325	315	
SAHL-80NW	90	24	DN125	Rc2 1/2"	2287	φ325	340	
SAHL-100NW	110	30	DN150	Rc3"	2413	φ377	476	
SAHL-120NW	130	35	DN150	DN100	2520	φ412	450	
SAHL-150NW	180	45	DN200	DN100	2620	φ412	510	
SAHL-200NW	210	60	DN200	DN100	2845	φ462	646	
SAHL-250NW	260	75	DN250	DN125	2910	φ512	809	
SAHL-300NW	310	90	DN250	DN125	3210	φ512	863	

SAGX Series Efficient Oil Removal

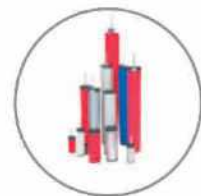
Product Brief Introduction

This series of products is based on main ultra-fine fiber filter material, using a cyclone, pre-filter and a coalescing fine filter three purification. Using with oil-lubricated compressor with the obtained below the level of temperment, but also has a very high dedusting capability and some dehumidifying drying capacity. Widely used in pneumatic instrumentation, automatic control and food, pharmaceutical, chemical, textile, oil, paint, telecommunications, metallurgy, rubber and other industries.

Technical Specifications

Inlet air pressure	0.6~1.0Mpa
Inlet air temperature	0℃~50℃
The initial pressure drop	≤0.02Mpa
Outlet air oil-content	≤0.1PPM~0.01PPM

* The above parameters pressure technical standard 0.7MPa (other special standard can be customized).



Specifications And Performance Parameters

Item Model	Air capacity (Nm ³ /min)	Air connection pipe diameter	Height (mm)	Cylinder diameter (mm)	Weight (mm)
SAGX-1	1.2	G1"	1054	Φ133	34
SAGX-2	2.5	G1"	1054	Φ133	34
SAGX-3	3.6	G1"	1066	Φ159	46
SAGX-4.5	4.8	G1½"	1246	Φ159	52
SAGX-6	6.8	G1½"	1246	Φ159	52
SAGX-8	8.5	G2"	1495	Φ219	74
SAGX-10	10.9	G2"	1495	Φ219	74
SAGX-12	12.8	G2"	1495	Φ219	74
SAGX-15	16	DN65	1590	Φ219	90
SAGX-20	22	DN65	1720	Φ219	95
SAGX-25	26.8	DN80	1870	Φ219	101
SAGX-30	32	DN80	1846	Φ273	152
SAGX-40	43.5	DN100	2022	Φ325	189
SAGX-50	53	DN100	2238	Φ412	255
SAGX-60	67	DN125	2238	Φ412	259
SAGX-80	90	DN125	2238	Φ412	260
SAGX-100	110	DN150	2363	Φ462	309
SAGX-120	130	DN150	2363	Φ462	310
SAGX-150	160	DN200	2363	Φ462	323
SAGX-200	210	DN200	2363	Φ462	326
SAGX-250	260	DN250	2509	Φ512	419
	310	DN250	2509	Φ566	521

SAGL Series Dust Fine Filter



*Pressure gauge as optional.

Product Brief Introduction

The series has a small size, compact structure, high filtration efficiency, easy maintenance features, designed for the chemical, textile, petroleum, metallurgy, textiles, electronics, telecommunications and other industries pneumatic control, pneumatic, pneumatic components and industrial gas providing clean compressed air source.

Technical Specifications

Inlet air pressure	0.6~1.0Mpa
Inlet air temperature	0℃~60℃
The initial pressure drop	≤0.007Mpa
Outlet air dust particle size	≤1μm

* The above parameters pressure technical standard 0.7MPa (other special standard can be customized).

Specifications And Performance Parameters

Item Model	Air capacity (Nm ³ /min)	Air connection pipe diameter	Height (mm)	Diameter (mm)	Weight (Kg)
	1.2	G1"	361	Φ85	1.9
SAGL-2FC	2.5	G1"	361	Φ85	1.9
SAGL-3FC	3.6	G1"	361	Φ85	1.9
SAGL-4.5FC	5.0	G1½"	475	Φ110	3.4
SAGL-6FC	6.8	G1½"	475	Φ110	3.4
SAGL-8FC	8.5	G2"	632	Φ120	5.3
SAGL-10FC	10.9	G2"	632	Φ120	5.3
SAGL-12FC	12.8	G2"	632	Φ120	5.3
SAGL-15FC	16	DN65	950	Φ159	49
SAGL-20FC	22	DN65	1100	Φ159	53
SAGL-25FC	26.8	DN80	1250	Φ159	59
SAGL-30FC	32	DN80	985	Φ219	67
SAGL-40FC	43.5	DN100	1130	Φ219	75
SAGL-50FC	53	DN100	1190	Φ273	109
SAGL-60FC	67	DN125	1190	Φ273	114
SAGL-80FC	90	DN125	1220	Φ325	132
SAGL-100FC	110	DN150	1290	Φ377	177
SAGL-120FC	130	DN150	1445	Φ377	187
SAGL-150FC	160	DN200	1630	Φ462	215
SAGL-200FC	210	DN200	1630	Φ462	216
SAGL-250FC	250	DN250	1750	Φ512	271
SAGL-300FC	300	DN250	1800	Φ562	310

SAYF Series Oil Water Separator



*Pressure gauge as optional.

Product Brief Introduction

When a mixed gas containing solid particles, liquid oil, water and other contaminants into the oil-water separator via our newly developed patented product "of Rotary" to guide direction-changed, high-speed centrifugation to the cylinder wall by gravity sedimentation, gathering to sump, liquid water mixed with solid particles discharged through the drains.

Product advantages

- 99% high efficiency
- High flow
- Patented design
- Eliminate rust and debris from pipes
- Low pressure drop
- Reduce maintenance (less and easy maintenance)

Technical Specifications

Inlet air pressure	0.6~1.0Mpa
Inlet air temperature	5℃~65℃
The initial pressure drop	≦0.003Mpa
Water out rate	≦99%

* The above parameters pressure technical standard 0.7MPa (other special standard can be customized).

Specifications And Performance Parameters

Item Model	Air handling capacity (Nm ³ /min)	Air connection pipe diameter	Height (mm)	Cylinder diameter (mm)	Weight (Kg)
SAYF-1	1.2	G1"	361	Φ85	1.9
SAYF-2	2.4	G1"	361	Φ85	1.9
SAYF-3	3.6	G1"	361	Φ85	1.9
SAYF-4.5	5	G1½"	475	Φ110	3.4
SAYF-6	6.8	G1½"	475	Φ110	3.4
SAYF-8	8.5	G2"	767	Φ120	5.3
SAYF-10	10.9	G2"	767	Φ120	5.3
SAYF-12	12.8	G2"	767	Φ120	5.3
SAYF-15	16	DN65	705	Φ159	42
SAYF-20	22	DN65	690	Φ219	60
SAYF-25	26.8	DN80	860	Φ219	68
SAYF-30	32	DN80	860	Φ219	68
SAYF-40	43.5	DN100	970	Φ273	107
SAYF-50	53	DN100	1070	Φ325	131
SAYF-60	67	DN125	1110	Φ325	136
SAYF-80	90	DN125	1195	Φ325	141
SAYF-100	110	DN150	1370	Φ377	183
SAYF-120	130	DN150	1390	Φ412	190
SAYF-150	160	DN200	1580	Φ462	261
SAYF-200	210	DN200	1790	Φ562	362
SAYF-250	250	DN250	2065	Φ612	438
SAYF-300	300	DN250	2150	Φ662	491
SAYF-350	350	DN300	2230	Φ662	524
SAYF-400	400	DN300	2240	Φ712	571
SAYF-450	450	DN350	2490	Φ812	741
SAYF-500	500	DN350	2500	Φ812	751

* This air process is based on the work pressure 0.7MPa, if higher than 1.0 MPa working pressure product, please obtain technical information from Shan Li company.

Sterilization Filter

Product Brief Introduction

This series of products are made with refined sanitary stainless steel filter housing, PTFE sterilization filter element, widely used in food, beverages, luxury goods, technology, pharmaceutical, the electronics industry and other fields.

Technical Specifications

Inlet air pressure	0.6~1.0Mpa
Inlet air temperature	≦130℃
The initial pressure drop	≦0.01Mpa
Filtration precision	0.01μm

Specifications And Performance Parameters

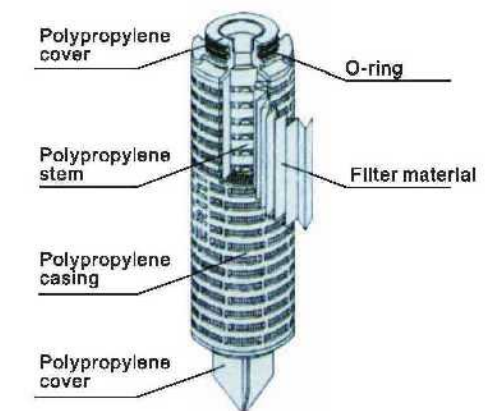
Item Model	SAGL-1CJ	SAGL-3CJ	SAGL-6CJ	SAGL-10CJ	SAGL-15CJ	SAGL-20CJ
Air capacity (Nm³/min)	1.2	3.6	6.8	10.9	16	22
Element Qty	1	1	1	1	1	1
Air connection pipe diameter	G1/2"	G1"	G1½"	G2"	DN50	DN65
Height(mm)	340	340	570	820	950	1080
Air inlet spacing(mm)	180	180	240	240	240	260

* Sterilization filter need supporting using SLAF- * ZQ-type steam filters. Maximum steam sterilization temperature is 130 ℃, normal filtration temperature is <80 ℃.

Sterilization Filter Element



Filter Chart



Air Filter Combination

Specifications And Performance Parameters

Model	BC2000	BFC2000	BC3000	BFC3000	BC4000	BFC4000
Operating Pressure Range	Manual drain:0.5-8.5kgf/cm ²		Automatic differential pressure discharge:1.5-8.5kgf/cm ²			
Connection nozzle diameter	PT1/4		PT3/8		PT1/2	
Operating temperature range	5-60°C					
Water filtration cup capacity	60CC					
Oil feeder cup capacity	90CC					
Lubricating oil recommended	ISO VG32 or equivalent oil					
Weight	1.23Kg	0.96Kg	1.23Kg	0.96Kg	1.23Kg	0.96Kg

Product Brief Introduction

Widely used in pneumatic control equipment, filters used to filter impurities in the air, water; regulator (valve) for adjusting the outlet air pressure, reaches the air pressure requirements of the end of the control section ; Oil feeder used to inject oil fog in to air, to provide oil lubrication for subsequent device parts.



SRFS Series Waste Oil Collector

Product Brief Introduction

Waste oil collector is widely used in collecting and recycling oil discharged from air compressor cooler and after-treating equipment. It can effectively separate oil from waste water by means of density difference and gravity separation to avoid waste oil & water contaminating the environment of air compressor station.

Thus it can reduce equipment failure & maintenance and help extend working life.

Specifications And Performance Parameters

Model	Item	Inner volume (M ³)	Height (mm)	Cylinder diameter (mm)	Weight (Kg)
SRFS-0.3		0.3	2060	Φ 560	173
SRFS-0.4		0.4	2100	Φ 600	190
SRFS-0.5		0.5	2340	Φ 660	210
SRFS-0.8		0.8	2390	Φ 862	310
SRFS-1.0		1.0	2690	Φ 862	349
SRFS-2.0		2.0	2960	Φ 1112	604
SRFS-3.0		3.0	3602	Φ1312	661
SRFS-4.0		4.0	3640	Φ1512	756

