

オリオンクリーンエアシステム 冷凍式圧縮空気除湿装置

Clean Air System

(Heavy Duty Models)

Low Pressure Loss & Energy Saving Eco-Friendly Refrigerant Applied

Powerful performance in Asia with heavy duty specification





Specifications Refrigerated Air Dryer

ARX Series

Model

《Water Cooled》 ARX2900A-W

ARX4100A-WE ARX5300A-WE ARX7400A-WE

《Air Cooled》

ARX2300A ARX3100A-E ARX3500A-E





		Model		Water Cooled	Models					
Item			ARX2900A-W	ARX4100A-WE	ARX5300A-WE	ARX7400A-WE				
	Air processing capacity	m³/min	29	41	53	74				
	Inlet air pressure	MPa		0.	.69					
Air processing	Inlet air temperature) °C		4	1 5					
conditions	Outlet pressure dew point	°C		1	0					
	Cooling water temperature	°C			32					
	Cooling water flow rate	m³/h	4.8	5.2	5.4	9				
	Inlet air temperature	C		10-	~60					
	Ambient temperature	°C		2^	~45					
Operating ranges Ambient tem Compressed a Cooling water to	Compressed air pressure	MPa	0.29~0.98							
	Cooling water temperature	°C	2~34							
	Cooling water operating pressure (gauge pressure)	MPa	0.3~0.7							
Outside dimensions	H×D×W	mm	1500×1000×802	1500×1000×802	1500×1199×850	1620×1654×877				
Mass		kg	278	350	395	495				
Air connection		FLG	2 · 1/2B (65A)	3B (80A)	4B (100A)	4B (100A)				
Dual-Drive Eco system	em (Capacity control fu	nction)	-	0	0	Ó				
Refrigerant			R407C	R407C	R407C	R410A				
	Power	V		Three phas	se 380V 50Hz					
Electrical specifications	Power consumption	kW	4.2	6.8	9.5	12.5				
	Electric current	A	8	12.5	17.5	21				
Recommended pre-filter	Installed before the ARX	(Option)	DSF2900A	DSF4100A	DSF5300A	DSF6100A, DSF8000A-SUS				

Special-order models available with an air pressure specification of 1.0 MPa.

※ Air processing capacity figures are based on ANR and adjusted to atmospheric pressure, 32℃, 75% RH.

※ Refer to the specifications sheet for further details.

※ Always install a Super Drain Filter (DSF) along the piping before the ARX unit.

※ Air connection flange: JIS 10K FF, No companion flange is attached.

		Model		Air Cooled Models			
Item			ARX2300A	ARX3100A-E	ARX3500A-E		
	Air processing capacity	m³/min	23	31	35		
	Inlet air pressure	MPa		0.69			
Air processing	Inlet air temperature	°C		50			
conditions	Outlet pressure dew point	°C		10	18		
	Ambient temperature	C		35			
	Inlet air temperature	C		10~60			
Operating ranges	Ambient temperature	°C		2~45			
	Compressed air pressure	MPa		0.29~0.98			
Outside dimensions	H×D×W	mm	1500×1500×802	1500×1500×802	1500×1500×80		
Mass		kg	323	385	380		
Air connection		FLG	2 · 1/2B (65A)	3B (80A)	3B (80A)		
Dual-Drive Eco syst	em (Capacity control fu	nction)	W)	0	0		
Refrigerant			R407C	R407C	R407C		
	Power	V	Т	hree phase 380V 50I	Hz		
Electrical specifications	Power consumption	kW	5.6	10	10		
	Electric current	A	10.5	18	18		
Recommended pre-filter	Installed before the ARX	(Option)	DSF2900A	DSF3	500A		

Special-order models available with an air pressure specification of 1.0 MPa.
 Air processing capacity figures are based on ANR and adjusted to atmospheric pressure, 32°C, 75% RH.
 Refer to the specifications sheet for further details.
 Always install a Super Drain Filter (DSF) along the piping before the ARX unit.

* Air connection flange: JIS 10K FF, No companion flange is attached.



DSF2900A

DSF4100A

Super Filter Series Product Specifications

Model

«4 Unit Types and 24 Models to Suit Your Needs» DSF/LSF/MSF/KSF2900A ~ 8000A-SUS

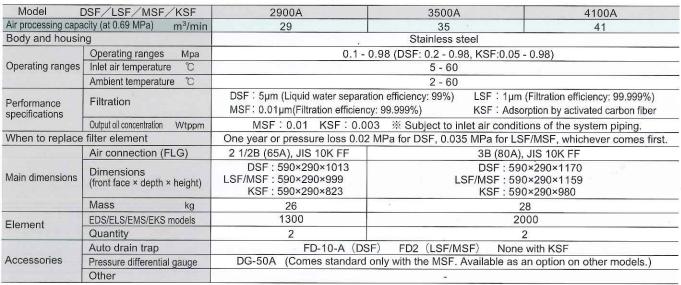
- · For Heavy Duty ARX Air Flow.
- · Stainless Steel Vessel Standard (For both cleanliness and reduced weight.)
- Highly Efficient Filter Element (Made in Japan)

Super Drain Filter DSF Series: Removes water droplets and solid particulate (5 µm and larger).

Super Line Filter LSF Series: Removes solid particulate (1 µm and larger).

Super Mist Filter MSF Series: Removes oil and solid particulate (0.01 µm and larger).

Super Activated Carbon Filter KSF Series: Oil and odor removal (oil concentration at outlet: 0.003 wt ppm).



^{*}Air processing capacity is converted to the suction air condition (at atmospheric pressure, 32deg.C and 75%).

[※]Refer to the specifications sheet for further details.

			100 M	
* Air connection	flange · .IIS	10K FF	No companion flange	is attached

Model D	OSF/LSF/MSF/KSF	5300A	6100A		8000A-SUS			
Air processing capa	acity (at 0.69 MPa) m³/min	53	61		80			
Body and housi	ng		Stainless ste	eel				
	Operating ranges MPa	0.1 - 0.	98 (DSF: 0.2 - 0.98	KSF:0.05	- 0.98)			
Operating ranges	Inlet air temperature C		5 - 60					
	Ambient temperature ℃	81	2 - 60		8/			
Performance specifications	Filtration	DSF: 5µm (Liquid water separation MSF: 0.01µm(Filtration efficiency	나는 그렇게 다른 맛이 있었다면 하나요? 스트리아 그 회에 없는 것		m (Filtration efficiency: 99.999%) sorption by activated carbon fiber			
opcomodatorio	Output oil concentration Wtppm	MSF: 0.01 KSF: 0.003	※ Subject to inle	t air condit	ions of the system piping.			
When to replace	filter element	One year or pressure loss 0.02 N						
	Air connection (FLG)	4B(100A), JIS	10K FF		4B(100A), GB/RF			
Main dimensions	Dimensions (front face × depth × height)	LSF/MSF: 640×44	DSF : 640×442×1239 LSF/MSF : 640×442×1224 KSF : 640×442×1056					
	Mass kg	DSF/LSF/MSF: 48	KSF : 46		DSF: 117 LSF/MSF: 116 KSF: 115			
Element	EDS/ELS/EMS/EKS models	2000			2000			
Lienien	Quantity	3			4			
	Auto drain trap	FD-10-A (DSI	F) FD2 (LSF/M:	SF) Nor	ne with KSF			
Accessories	Pressure differential gauge	DG-50A (Comes standard or	nly with the MSF. A	vailable as	an option on other models.)			
	Other	-	14		Stand			

^{*}Air processing capacity is converted to the suction air condition (at atmospheric pressure, 32deg.C and 75%).

[※]Oil concentration is measured in conformity with ISO8573-2 "Test method of oil concentration", not including oil-vapor.

^{*}Special-order models available with an air pressure specification of 1.0 MPa.

^{*}Special-order models available with an air pressure specification of 1.0 MPa.

^{*}Air connection flange: JIS 10K FF, No companion flange is attached.

[※]Oil concentration is measured in conformity with ISO8573-2

[&]quot;Test method of oil concentration", not including oil-vapor.

[※] Refer to the specifications sheet for further details.

^{*}With GB/RF companion flanges for 8000A-SUS.



Heavy Duty Model Selection Coefficient

Heavy Duty ARX Model Choice

Air dryer processing capacity differs based on operating conditions. Confirm the installation location and operating requirements and choose the model that adequately meets your needs.

Dryer processing air flow (m³/min)

= 1 standard air flow (m³/min)

the temperature correction coefficient

× 3 the pressure correction coefficient

1 Standard Air Flow

Water Cooled Models

Model ARX	2900A-W	4100A-WE	5300A-WE	7400A-WE
Air processing capacity(m³/min)	29	41	53	74

Air Cooled Models

Model	ARX	2300A	3100A-E	3500A-E
Air processing of	capacity(m³/min)	23	31	35

2 Temperature Correction Coefficient

Water Cooled Models

Inlet air ℃	40		45			50			55			60			
Pressure dew point °C	5	10	15	5	10	15	5	10	15	5	10	15	5	10	15
Temperature correction coefficient	0.88	1.14	1.14	0.77	1.00	1.14	0.66	0.91	1.10	0.59	0.83	0.98	0.54	0.75	0.89

※ In water cooled models, use the coefficients above regardless of the temperature of the cooling water. Note however that the cooling water should be 2-34 ℃.

Air Cooled Models

Inlet air °C			40			45			50			55			60		
Pressure dew point °C		5	10	15	5	10	15	5	10	15	5	10	15	5	10	15	
		30	0.85	1.15	1.37	0.83	1.12	1.35	0.78	1.06	1.27	0.67	0.88	1.04	0.62	0.80	0.92
Temperature correction	Ambient temperature	32	0.82	1.12	1.34	0.80	1.09	1.31	0.76	1.03	1.24	0.64	0.85	1.01	0.60	0.75	0.89
coefficient	(°C)	35	0.79	1.09	1.30	0.77	1.06	1.28	0.73	1.00	1.21	0.62	0.81	0.98	0.57	0.70	0.86
		40	0.60	0.81	0.98	0.58	0.80	0.96	0.55	0.75	0.91	0.47	0.62	0.75	0.44	0.56	0.66

3 Pressure Correction Coefficient

Air pressure MPa	0.29	0.39	0.49	0.59	0.69	0.79	0.89	0.98
Pressure correction coefficient	0.73	0.80	0.87	0.93	1.00	1.07	1.13	1.2

ISO Certification

Orion Machinery Asia Co., Ltd is an ISO Certified, Quality Management company.





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