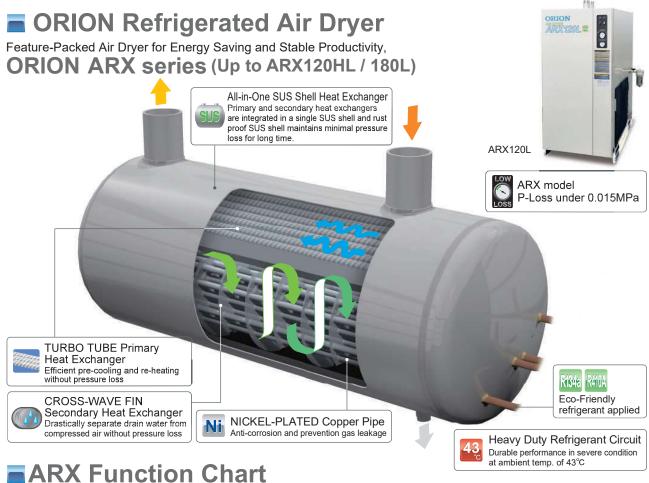


オリオンクリーンエアシステム 冷凍式圧縮空気除湿装置

Clean Air System



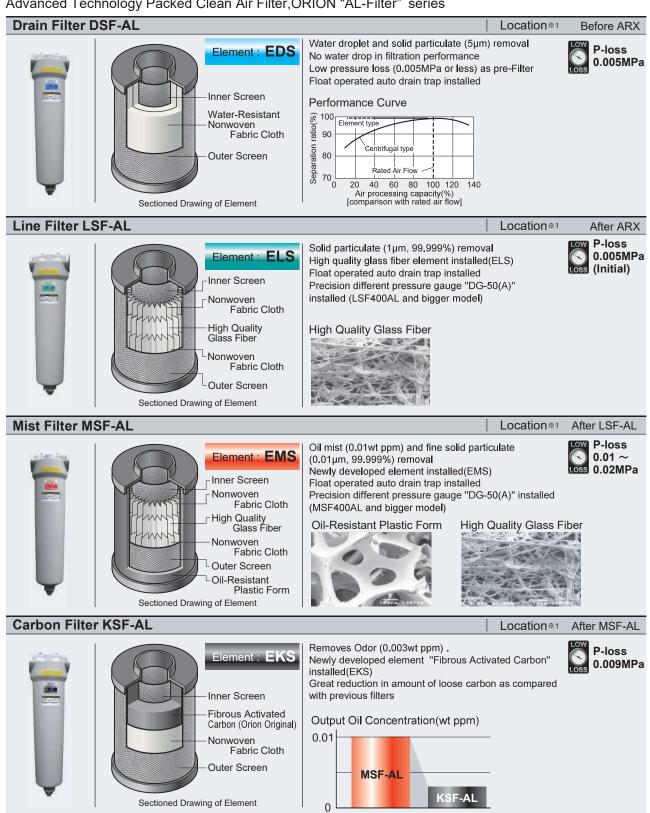




Model: ARX Standard inlet air temperature model High inlet air temperature model **Function** 5HJ 10HJ 20HJ 30HJ 50HJ 75HJ 90HL 100HL 120HL | 10J | 20J | 30J | 50J | 75J | 100J | 110L | 120L | 180L | 3HJ All-in-One SUS Shell Heat Exchanger SUS Shell Heat Exchanger TURBO TUBE Primary Heat Exchanger CROSS-WAVE FIN Secondary Heat Exchanger NICKEL-PLATED Copper Pipe R134a / R410A Refrigerant Heavy Duty Refrigerant Circuit Condenser Filter Wide Adjusting Range CCV (capacity control valve) Operation Lamp Alarm Lamp **Evaporating Pressure Gauge** Air Pressure Gauge Long Life Fan-Control Switch One Touch Open Front Cabinet I/F (Remote ON/OFF, Operation Status, Alarm) Option Option **Exhaust Duct** Option Option Float Operated Auto Drain Trap FD6 with Ball Valve Float Operated Auto Drain Trap FD2 with Ball Valve Float Operated Auto Drain Trap FD2 Disc Operated Auto Drain Trap AD-5 with Ball Valve

ORION Clean Air Filter

Advanced Technology Packed Clean Air Filter, ORION "AL-Filter" series



All AL-Filter are alumite-treated on the inside surface.

※1: Please refer to Basic System Example catalog on page 4



ORION Refrigerated Air Dryer

ARX Series







Standard inlet air temp. model

| - | | | | | | | | | | | | |
|-----------------------|--------|--------|-------------|------|------|----------|--------|-------------|------|------|-----------|--------|
| Descriptions | | Typo | | | | | AF | RX | | | | |
| Descriptions | | Туре | 5J | 10J | 20J | 30J | 50J | 75J | 100J | 110L | 120L | 180L |
| Air Processing Capac | ity | m³/min | 0.54 | 1.0 | 2.3 | 4.0 | 6.4 | 9.0 | 12.0 | 13.0 | 19.0 | 26.0 |
| Inlet Air Temperature | | °C | | | | | 10~ | ~ 50 | | | | |
| Dew Point Temperatu | ıre | °C | | | | | 3~ | 15 | | | | |
| Ambient Temperature |) | ကိ | | | | | 2~ | 43 | | | | |
| Operating Pressure | | MPa | | | | | 0.2~ | -1.0 | | | | |
| | Height | mm | 480 | 510 | 6 | 10 | 900 | 990 | 1050 | 1054 | 1229 | 1275 |
| Dimensions | Depth | mm | 450 | 600 | 8: | 20 | 960 | 980 | 1010 | 1022 | 1023 | 1291 |
| | Width | mm | 180 | 240 | 2 | 40 | 30 | 00 | 380 | 470 | 592 | 702 |
| Mass | | kg | 18 | 26 | 35 | 44 | 83 | 94 | 106 | 140 | 167 | 233 |
| Pipe Connections | | В | R1/2 | R3/4 | R | 21 | R1· | 1/2 | | R2 | | R2·1/2 |
| Power Source | | | | | • | 1ph 220\ | / 50Hz | | | 3 | ph 380V 5 | 0Hz |
| Power Consumption | | kW | 0.26 | 0.27 | 0.36 | 0.68 | | 1.7 | | 3.3 | 3.4 | 5.0 |
| Refrigerant | | | R134a R410A | | | | | | | | | |
| | | | , | | | | | | | 0.5 | | 0.000 |

High inlet air temp. model

| Descriptions | | T | | | | | AF | RX | | | | |
|---|--------|--------|----------------------------------|------|-------------------------|------|------|--------|------|------|-------|--------|
| Descriptions | | Туре | 3HJ | 5HJ | 10HJ | 20HJ | 30HJ | 50HJ | 75HJ | 90HL | 100HL | 120HL |
| Air Processing Capa | city | m³/min | 0.32 | 0.7 | 1.1 | 2.8 | 4.6 | 7.6 | 8.8 | 10.7 | 14.9 | 18.4 |
| Inlet Air Temperature | ; | °C | | | | | 10~ | ·80 | | | | |
| Dew Point Temperat | ure | °C | | | | | 3~ | 15 | | | | |
| Ambient Temperature | е | °C | | | | | 2~ | 43 | | | | |
| Operating Pressure | | MPa | | | | | 0.2~ | ·1.0 | | | | |
| | Height | mm | 480 | 510 | 6 | 10 | 900 | 990 | 1050 | 1054 | 1229 | 1275 |
| Dimensions | Depth | mm | 450 | 600 | 82 | 20 | 960 | 980 | 1010 | 1022 | 1023 | 1291 |
| | Width | mm | 180 | 240 | 24 | 40 | 30 | 00 | 380 | 470 | 592 | 702 |
| Mass | | kg | 18 | 26 | 35 44 83 94 106 | | | | 106 | 140 | 167 | 233 |
| Pipe Connections | | В | R1/2 R3/4 R1 R1 · 1/2 R2 R2 · R2 | | | | | | | | | R2·1/2 |
| Power Source | | | 1ph 220V 50Hz 3ph 380V 50Hz | | | | | | | | 0Hz | |
| Power Consumption | | kW | 0.27 | 0.28 | 0.37 | 0.74 | 1.9 | 2. | .0 | 3.7 | 3.8 | 4.8 |
| Refrigerant | | | | | | | | | | | | |
| V Dated condition Compressed six inlet processes (aguage processes) 0.60MDs Drocesses day point 10% Inlet air temporature 50% Ambient temporature | | | | | | | | 2 F °C | | | | |

Heavy Duty model

| | | | | | | AF | ₹X | | | | |
|-----------------------------|-----------------------|--------|--------------|-----------|----------|-----------|-------------|-----------|------------|----------|--|
| Descriptions | | Type | 2300A | 3100A-E | 3500A-E | 4500A-E | 2900A-W | 4100A-WE | 5300A-WE | 7400A-WE | |
| | | | | Air Coole | d Models | | | Water Coo | led Models | | |
| Air Prosessing capaci | ity | m³/min | 23 | 31 | 35 | 45 | 29 | 41 | 53 | 74 | |
| Inlet Air Temperature | | °C | | 10- | ~60 | | | 10- | -60 | | |
| Dew Point Temperatu | ıre | °C | | 3~ | ·15 | | | 3~ | 15 | | |
| Ambient Temperature |) | °C | | 2~ | 45 | | | 2~ | 45 | | |
| Operation Pressure | | MPa | | 0.29 | ~1.0 | | | | | | |
| | Height | mm | | 1500 | | 1500 | 1500 | 1500 | 1500 | 1620 | |
| Dimensions | <u></u> | | | 1500 | | 1996 | 1000 | 1000 | 1199 | 1654 | |
| | imensions Depth Width | | | 802 | | | 802 | 802 | 850 | 877 | |
| Mass | | kg | 323 385 380 | | | 470 | 278 350 395 | | | 495 | |
| Pipe Connections | | FLG | 2·1/2B(65 A) | 3B (8 | 30 A) | 4B(100 A) | 2·1/2B(65A) | 3B(80A) | 4B (100 | IA) | |
| Dual-Drive Eco Syste | m | | _ | | 0 | | _ | | 0 | | |
| Power Source | | | | 3ph 380 |)V 50Hz | | | 3ph 380 |)V 50Hz | | |
| Power Consumption | | kW | 5.6 10 | | | 12 | 4.2 | 6.8 | 9.5 | 12.5 | |
| Recommended Pre-Filter | r (Option) | | DSF2900 A | DSF3 | 500A | DSF5300A | DSF2900A | DSF8000A | | | |
| Refrigerant | | | | R40 |)7C | | R407C R410A | | | | |
| | | | | | | | | | | | |

^{**} Rated condition: Compressed air inlet pressure (gauge pressure): 0.69MPa, Pressure dew point: 10°C, Inlet air temperature for air cooled model: 50°C, Ambient temperature for air cooled model: 35°C, Inlet air temperature for water cooled model: 45°C, Cooling water temperature for water cooled model: 32°C at specified water flow rate. ** Air processing capacity figures are based on ANR and adjusted to atmospheric pressure, 32°C, 75% RH. ** Refer to the specification sheet for further details. ** Please install Drain Filter (DSF) before air dryer to guarantee its performance. ** Air connection flange: JIS 10K FF, No companion flange is attached.

ORION Clean Air Filter



AL Small-size Air Filter

| | | | | | | | | | | | NO. | | | |
|------------------|-------------------------|----------------|--------------------|--|---|-------------|------------------------------|-------------|--------------|-------------|-----------------------|-----------|--|--|
| Descriptions | | DSF/LSF/MS | Type SF/KSF | %1 75-AL | 150-AL | 200-AL | 250-AL | 400-AL | 700-AL | 1000-AL | 1300-AL1 | 2000-AL1 | | |
| Air Processing | Capacity _{※2} | 0.69MPa | m³/min | 0.35 | 1.2 | 1.8 | 2.7 | 3.9 | 6.6 | 10.6 | 13.8 | 20.0 | | |
| Casing Mate | rial | | | Alı | ıminum Di | e Casting (| All AL-Filte | r are alumi | ite-treated | on the insi | de surface. |) | | |
| | Fluid | | | | | | Со | mpressed | Air | | | | | |
| Operating | Inlet Air P | ressure | MPa | | 0. | 05~1.0 (DS | F/LSF/N | /ISF 1300A | L1, 2000A | L1 : 0.1~1. | .0) | | | |
| Range | Inlet Air T | emperature | °C | | | ` | | 5~60 | | | | | | |
| | Ambient 7 | emperature | °C | | | | | 2~60 | | | | | | |
| D (| Filtration | | | DSF : 5µ | | | ion Efficier iltration Ef | , | | | fficiency 99 ption | 9.999%) | | |
| Performance 3 | Outlet Oil | Contamination | wt ppm | | | | MSF : 0 | 0.01 / KSF | : 0.003 | | | | | |
| * 3 | Pressure | Loss | MPa | DS | SF :Initial 0 | .005 / LSF | :Initial 0.00 | 05 / MSF : | Initial: 0.0 | 1 • Usual C | .02 / KSF : | 0.009 | | |
| When to rep | ace filter e | lement | | One year | One year or pressure loss 0.02 MPa for DSF, 0.035 MPa for LSF/MSF, whichever comes first. | | | | | | | | | |
| | Pipe Coni | nections | | Rc3/8 | Rc1/2 | Rc3/4 | Ro | 1 | Rc1 | 1/2 | Ro | 2 | | |
| Connections | Different I Gauge Co | | | | | | | Rc1/4 | | | | | | |
| Mass | | | kg | 1. | .0 | 2.0 | 2.1 | 2.6 | 5.0 | 6.0 | 6.5 | 9.0 | | |
| | Filter Element | Туре | EDS/ELS EMS/EKS | 75 | 150 | 200 | 250 | 400 | 700 | 1000 | 1300 | 2000 | | |
| Accessories | l lO'tv l | | | 1 each | | | | | | | | | | |
| Accessories | Auto Draii | n Trap | LSF/MFS DSF | | N | IH-503MR | built-in, no | ne with KS | F | | FD2, none | with KSF | | |
| | Differential | Pressure Gauge | | Option DG-50(A)(LSF • MSF Equipped) / DSF • KSF Option | | | | | | | | SF Option | | |

^{**1.} KSF available from 150 to 2000. **2. Air Processing Capacity is converted to the suction air condition (atmospheric, 32°C, 75%RH).

SUS Large-size Air Filter

| Descriptions | | DSF/LSF/MS | Type SF/KSF | 2900A | 3500A | 4100A | 5300A | 6100A | 8000A | | | | |
|---------------|-------------------|------------------|--------------------|---|--|-----------------|--------------------|-------------------|----------------------------|--|--|--|--|
| Air processin | g capacity | 0.69 MPa | m³/min | 29 | 35 | 41 | 53 | 61 | 80 | | | | |
| Body and ho | using | | | | | Stainle | ss steel | | | | | | |
| | Fluid | | | | | Compre | ssed Air | | | | | | |
| Operating | Operating | Ranges | MPa | | 0.1 | ~1.0 (DSF: 0.2~ | 1.0, KSF:0.05~ | 1.0) | | | | | |
| Ranges | Inlet Air Te | emperature | °C | | | 5~ | -60 | | 5~60 | | | | |
| | Ambient T | emperature | °C | | | 2~ | -60 | | 2~60 | | | | |
| Performance | Filtration | | | 1 \ | F: 5µm (Liquid water separation efficiency: 99%) LSF: 1µm (Filtration efficiency: 99.999%) LSF: 0.01µm (Filtration efficiency: 99.999%) KSF: Adsorption by activated carbon fibe | | | | | | | | |
| | Outlet Oil | Concentration | wt ppm | MSF: 0. | 01 KSF: 0.00 | 3 Subject | to inlet air condi | tions of the syst | em piping. | | | | |
| When to rep | lace filter e | lement | | One year or pre | One year or pressure loss 0.02 MPa for DSF, 0.035 MPa for LSF/MSF, which | | | | | | | | |
| Air Connecti | on (FLG) | | | 2 •1/2B (65A), JIS 10K FF | 3B (80A), s | IIS 10K FF | 4B | (100A), JIS 10H | IOK FF | | | | |
| Mass | | | kg | 26 | 28 | 3 | DSF/LSF/MSF | :48 KSF:46 | DSF / LSF / MSF / KSF : 95 | | | | |
| | Filter Element | Туре | EDS/ELS EMS/EKS | 1300 | 200 | 00 | | 2000 | | | | | |
| Accessories | | Quantity | | 2 2 3 | | | | | | | | | |
| Accessories | Auto Drair | ı Trap | | FD-10-A (DSF) FD2 (LSF/MSF) None with KSF | | | | | | | | | |
| | Pressure D | fferential Gauge | | DG-50A (C | an option on ot | ner models.) | | | | | | | |
| | Other | | | - Stand | | | | | | | | | |

^{**}Air processing capacity is converted to the suction air condition(at atmospheric pressure, 32deg.C and 75%). **Special-order models available with an air pressure specification of 1.0 MPa. **Oil concentration is measured in conformity with ISO8573-2 "Compressed air - Part 2: Test methods for oil aerosol content", not including oil-vapor. **Air connection flange: JIS 10K FF, No companion flange is attached. **Refer to the specification sheet for further details.

^{*3.} All Performances are tested at standard Air Processing Capacity (0.69MPa), Inlet oil contamination 3 wt ppm(LSF/MSF), 0.01wt ppm(KSF) *4. Model name of KSF is "KSF1300-AL" and "KSF2000-AL".

^{**5.} Oil concentration is measured in conformity with ISO8573-2 "Compressed air - Part 2 : Test methods for oil aerosol content", not including oil-vapor.



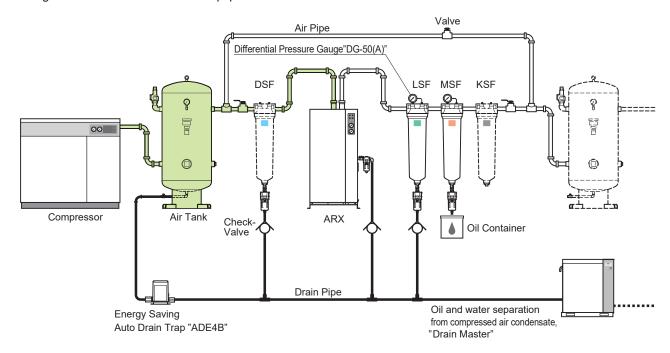
Basic System Examples

Air Quality Notes

Please install ORION genuine Clean Air Filters 'before and after ARX dryer' for the best performance.

Safety Notes

Before operating equipment, please read the operating manual carefully, and only use as indicated. For installation of equipment and required wiring, employ a qualified person or consult with your dealer. Be sure to select equipment which suits your needs. Do not use equipment for purposes other than intended. Doing so can lead to accidents or equipment breakdown.



| System | Applications |
|------------------------|---|
| ★☆ DSF ARX LSF MSF KSF | General Painting, Precision Machinery Industry, etc |
| DSF ARX LSF MSF | Standard Pneumatic |
| ARX LSF MSF | Standard Pneumatic |
| A LSF ARX MSF | ▲ Not recommended |

- 1) In case no Drain Filter (DSF) before large ARX air dryer (Heavy duty model) does not cover its warranty.
- 2) Please consult with your dealer or ORION directly for further information when compressed air is supplied for medical, food, or clean room use.
- 3) Please set up above ☆system when Oil-Free compressor is installed.
- 4) Please set up above ★system when intake air of an air compressor includes large amount of oil droplets.
- 5) **A**LSF-AL is not recommended to be installed before ARX dryers because it will increase differential pressure and drain water will be accumulated in the differential pressure gauge.
- 6) Please refer to "Compressed Clean Air catalog" (D-AG02 💽) for details of "DRAIN MASTER" series.
- 7) SUS pipe and SUS air tank are recommended when Oil-Free compressor is installed (as indicated in Green).

 ARX Heat-Exchanger is made of SUS
- 8) Please install a check valve on exhaust pipe of filter.
- 9) Please consult with your dealer or ORION directly when you are not certain of air tank location (before or after ARX).

Model Selection

1. For Air Dryer

Temperature conditions

Table A: High Inlet Air Temp. Models
Table B: Standard Air Temp. Models
Table C: Water Cooled Models
Table D: Air Cooled Models

Table D : Air Cooled Models
Table E : Air Pressure Coefficient

Calculate the necessary air capacity for the model selection.

Air capacity required =
Intake air volume / (A or B or C or D × E)

Please select the suitable model from the specification which has bigger Air Processing Capacity (P3) than the air capacity required.

Model selection Example

| Inlet Air Temp. | 60°C | Ambient Temp. | 35°C | Air Flow | 6m³/min |
|-----------------|------|---------------|---------|-----------|---------|
| PDP | 10°C | Air Pressure | 0.59MPa | Frequency | 50Hz |

From charts, Inlet temp. coefficient — 0.70

Air Pressure coefficient — 0.93

Air capacity required for dryer. $6 / (0.70 \times 0.93) = 9.2$

6 / (0.70×0.93)=9.2m³/min

The suitable model to process 9.2m³/min is ARX90HL, as its capacity exceeds the required value.

A:Inlet Air Temperature Coefficient (High Inlet Air Temp. Models)

| Inlet air temperature | Inlet air temperature(°C) 50 | | | | | 60 | | | 70 | | 80 | | | |
|--------------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Outlet dew point (°C) 5 | | | 10 | 15 | 5 | 10 | 15 | 5 | 10 | 15 | 5 | 10 | 15 | |
| | 30 | 0.78 | 1.06 | 1.27 | 0.62 | 0.80 | 0.92 | 0.53 | 0.68 | 0.82 | 0.48 | 0.63 | 0.79 | |
| Ambient temperature (°C) | 35 | 0.73 | 1.00 | 1.21 | 0.57 | 0.70 | 0.86 | 0.47 | 0.60 | 0.74 | 0.41 | 0.57 | 0.71 | |
| temperature (C) | 40 | 0.55 | 0.75 | 0.91 | 0.44 | 0.56 | 0.66 | 0.37 | 0.46 | 0.55 | 0.33 | 0.42 | 0.51 | |

B:Inlet Air Temperature Coefficient (Standard Inlet Air Temp. Models)

| Inlet air temperature | e(°C) | | 35 | | | 40 | | | 45 | | 50 | | | |
|-----------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Outlet dew point (°C) | | 5 | 10 | 15 | 5 | 10 | 15 | 5 | 10 | 15 | 5 | 10 | 15 | |
| | 25 | 0.87 | 1.10 | 1.31 | 0.72 | 0.86 | 1.05 | 0.60 | 0.72 | 0.86 | 0.55 | 0.69 | 0.76 | |
| Ambient | 30 | 0.80 | 1.00 | 1.20 | 0.66 | 0.79 | 0.96 | 0.55 | 0.66 | 0.79 | 0.50 | 0.63 | 0.70 | |
| temperature(°C) | 35 | 0.78 | 0.94 | 1.15 | 0.63 | 0.74 | 0.92 | 0.51 | 0.62 | 0.74 | 0.46 | 0.57 | 0.65 | |
| | 40 | 0.73 | 0.88 | 1.08 | 0.58 | 0.65 | 0.86 | 0.47 | 0.56 | 0.68 | 0.40 | 0.51 | 0.58 | |

C:Inlet Air Temperature Coefficient (Heavy Duty / Water cooled Models)

| Inlet air temperature (°C) | | 40 | | 45 | | | 50 | | | 55 | | | 60 | | |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Outlet dew point (°C) | 5 | 10 | 15 | 5 | 10 | 15 | 5 | 10 | 15 | 5 | 10 | 15 | 5 | 10 | 15 |
| 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 |

D:Inlet Air Temperature Coefficient (Heavy Duty / Air Cooled Models)

| Inlat air tamparatura (| nperature (°C) 40 | | | | 4.5 | | | E0. | | | EE | | | 60 | | |
|-------------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inlet air temperature (| (C) | | 40 | | | 45 | | | 50 | | | 55 | | | 60 | |
| Outlet 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 |
| Ambient | 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 |
| temperature (°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 |

E:Air Pressure Coefficient

| Air Pressure (MPa) | 0.20 | 0.29 | 0.39 | 0.49 | 0.59 | 0.69 | 0.78 | 0.88 | 0.93 | 1.0 |
|--------------------|------|------|------|------|------|------|------|------|------|------|
| Coefficient | 0.67 | 0.73 | 0.80 | 0.87 | 0.93 | 1.00 | 1.07 | 1.13 | 1.16 | 1.20 |

^{*}Please ask to ORION dealer about coefficient at dew point 3°C *The coefficient is only for reference, please ask ORION dealer about its guaranteed performance.

2. For Air Filter

Calculate the necessary air capacity for the model selection.

Air processing ≥ Desired capacity

Pressure correction coeffcient

Pressure Correction Coefficient (inlet pressure)

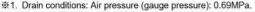
| | | | 1 | | 7 | | | | |
|---------------------------------|------|------|------|------|------|------|------|------|------|
| Pressure (MPa) | 0.20 | 0.29 | 0.39 | 0.49 | 0.59 | 0.69 | 0.78 | 0.88 | 1.0 |
| Pressure Correction Coefficient | 0.38 | 0.49 | 0.62 | 0.75 | 0.87 | 1.00 | 1.06 | 1.12 | 1.17 |



Accessories

Auto Drain Trap

| | | | | Disc operated | | | | |
|--------------------------------|--------------|--------|--|--|--|--|--|--|
| | | | FD2-G3 | FD6-G1 | FD-10-A | AD-5-G7 | | |
| Item | | | | | | | | |
| Maximum drain flow capacity *1 | | | 10 cm³/ cycle | 30 cm³/ cycle | 80 cm ³ / cycle | 450 L / h | | |
| Operable pressure range MPa | | | 0.1 | 0.20 ~ 1.0 | 0.29 ~ 1.0 | | | |
| Operable temperature range °C | | 2 ~ 60 | | | | | | |
| Processed fluid | | | Compressed air drain | | | | | |
| Drain release method | | | | Disc operated | | | | |
| Connections | Inlet | | | 1/2 | | | | |
| Connections | Drain outlet | | ID φ5 OD φ8 | .7 ~ 6.0 | Rc 3/8 | Rc 1/2 | | |
| Mass kg | | 0.3 | 0.45 | 1 | 1.7 | | | |
| | | mm | Outside diameter: 63 × length: 178 | Outside diameter: 80 × length: 201 | Outside diameter: 96 × length: 193 | Outside diameter: 86 × length: 198 | | |



Differential Pressure Gauge



Various Accessories Available





ORION MACHINERY ASIA PRODUCTS





ORION MACHINERY ASIA CO., LTD.

For inquiries, please contact the following representative:

Important:

- This catalog contains product specifications as of July, 2021.

 Images in this catalog are printed images and actual product colors may differ from the colors herein.

 Product mechanisms, specifications, etc. listed in this catalog are subject to change without notice.

 Designed by Orion Machinery Japan. Assembled in Thailand.

<sup>X1. Drain conditions: Air pressure (gauge pressure): 0.69MPa.
Indoor specifications (Operable in environment where it would not be exposed to water splash.)
When setting up drain piping, to prevent back pressure from other traps, be sure to install a check valve. Also install drain traps at each drain port. (Please refer to detail on page 5)
Refer to the specification sheet for further details.</sup>