Manual air dryer (desiccant)

4001/4002 Series

Stable supply of ultra dry air with atmospheric dew point -72°C.

● Processing air flow rate: 280 l/min (ANR) or less





Specifications

F.R.L.

F.R.

F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech

Press SW Res press exh valve SlowStart Anti-bac/Bacremove Filt Film Resist FR Oil-ProhR Med Press FR No Cu/ PTFE FRL Outdrs FRL

Adapter

Press

CompFRL LgFRL PrecsR VacF/R

Clean FR ElecPneuR

AirBoost Speed Ctrl

Silncr

CheckV/ other

Fit/Tube

Nozzle

Air Unit

PrecsCompn

Electro Press SW ContactSW AirSens PresSW

Air Flo

Sens/Ctrl

WaterRtSens

TotAirSys

(Total Air) TotAirSys

(Gamma)

generator

RefrDry

DesicDry

HiPolymDry MainFiltr Dischrg

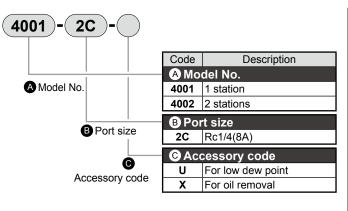
Ending

Gas

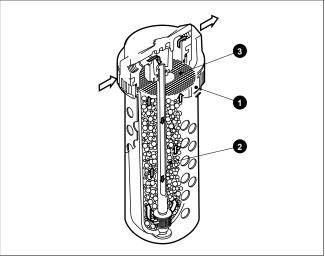
Item	4001-2C	4002-2C			
Max. working pressure MPa	1.0 *1				
Proof pressure MPa	1.5 (≈220 psi, 15 bar)				
Inlet air temperature range °C	5 (41°F) to 32 (89.6°F)				
Ambient temperature °C	5 (41°F) to 65 (149°F)				
Atmospheric dew point °C	-43 (-45.4°F)				
Max. flow rate	280 (at 0.7 MPa (≈100 psi, 7 bar)) *2,*3				
Desiccant	Silica gel				
Port size Rc	1/4	1/4			
Weight kg	4.6	10			

- *1: The working pressure of 4002-2C is 0.2 MPa to 1.0 MPa.
- *2: The max. flow rate at 0.7 MPa inlet air pressure calculated with the atmospheric pressure conversion value.
- *3: The min. flow rate required for 4002-2C is 30 l/min (ANR).

How to order



Functions



- Clamp ring
 Push-in clamp ring for easy replacement of desiccant.
- (2) Desiccant Silica gel (atmospheric dew point: -43°C) and other molecular sieves (atmospheric dew point: -72°C) are provided as desiccant. Very small holes of these desiccants trap moisture from the passing compressed air, which is known as capillary action, and thus dry the compressed air.
- (3) Screen Desiccant prevents scattering due to air flow.

Performance list

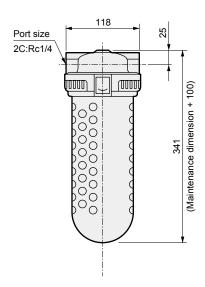
1 offormation list							
Model No.	Atmospheric dew point	Max. inlet air temperature	Max. flow rate	Desiccant	Desiccant No.	Remarks	
4001-2C 4002-2C	-43°C	32°C	280 ∉min(ANR)	Silica gel	4001-SILICA-GEL	Non-regenerable	
4001-2C-U 4002-2C-U	-72°C	32°C	280 ∉min(ANR)	4AM.S.	85-060	Non-regenerable	
4001-2C-X 4002-2C-X	Oil removal 24 PPM₩	32°C	280 ∉min(ANR)	13XM.S.	85-061	Non-regenerable	

Note: M.S. means molecular sieves.

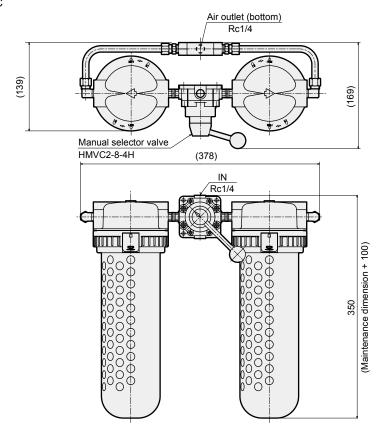
Dimensions

Dimensions

● 4001-2C



4002-2C



Safety precautions

- Fill the bowl with desiccant up to just below the screen (approximately 0.8 kg). Be careful not to allow any desiccant to enter the tube.
- Keep the max. flow rate below 280 l/min. Replace the desiccant (silica gel) if it has changed from green to orange. The desiccant adsorbs approx. 100 g of moisture. (Desiccant weight 0.8 kg included)
- Use 4001-2C-U if the atmospheric dew point of -72°C is required. As the color does not change even when moisture is adsorbed, attach a moisture indicator (6119-2C) after 4001-2C-U or 4002-2C-U. Desiccant service life can be checked.
- To remove oil of the compressed air, use 4001-2C-X or 4002-2C-X. The color will change from yellowish brown to blackish brown when oil
- Avoid direct sunlight.
- Installing an air filter is recommended to obtain cleaner air.
- Carefully prevent water drops from entering the inside. Otherwise heat generation may occur.

is adsorbed. Replace it when the color has changed. 113 g of oil content is adsorbed before replacement.

F.R.L F.R.

F (Filtr)

R (Reg)

L (Lub)

Drain Separ Press SW Res press

exh valve SlowStart Anti-bac/Bac

remove Filt Film Resist FR

Oil-ProhR

Med Press FF PTFE FRI

Outdrs FRL Adapte

Joiner Press Gauge CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR AirBoost

Speed Ctrl

Silncr CheckV/ other

Fit/Tube

Nozzle Air Unit

PrecsCompn Electro Press SW

ContactSW AirSens PresSW

Air Flo Sens/Ctrl

WaterRtSens TotAirSys (Total Air) TotAirSys

(Gamma) generator

RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg

Ending