



Super dryer combination Super dryer

SU300E/SU400E/SD300E/SD400E-W Series

E Series, with small air loss and filter-like usability

- Reduces operation costs through energy-saving moisture removal with a purge ratio of 10%.
- 3 types of units are available. Appropriate system is available according to applications.
- Processing air flow rate: 75 to 450 l/min (ANR) (0.7MPa, atmospheric dew point -15°C)



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Specifications The photos on this page are standard products. Appearance may differ from actual P4 specification products.

Item	SU301E ±W-C1	SU302E ±W-C1	SU401E ±W-C1	SU402E ±W-C1	SU301E ±W-C2	SU302E ±W-C2	SU401E ±W-C2	SU402E ±W-C2	SU301E ±W-C3	SU302E ±W-C3	SU401E ±W-C3	SU402E ±W-C3	SD301E ±W	SD302E ±W	SD401E ±W	SD402E ±W
Appearance	 Simple & space saving structure unit that removes moisture from the air from which solid impurities have already been removed. (*1)				 Unit supplying clean dry air with line not requiring pressure adjustment.				 A unit that supplies pressure-adjusted clean dry air just by supplying compressed air.				 Discrete super dryer enabling easy system configuration with peripheral devices due to modular design.			
Configuration	Oil mist filter Super dryer (High polymer membrane air dryer)				Air filter Oil mist filter (with differential pressure gauge) Super dryer (High polymer membrane air dryer)				Air filter Oil mist filter (with differential pressure gauge) Super dryer (High polymer membrane air dryer) Regulator				Super dryer (High polymer membrane air dryer)			
Working fluid	Compressed air															
Inlet air pressure MPa	0.4 to 1.0															
Proof pressure MPa	1.5															
Inlet air temperature °C	5 to 50															
Ambient temperature °C	5 to 50															
Outlet air atmospheric dew point °C	-15															
Inlet air flow rate l/min (ANR)	75	150	300	450	75	150	300	450	75	150	300	450	75	150	300	450
Outlet air flow l/min (ANR)	67	135	270	405	67	135	270	405	67	135	270	405	67	135	270	405
Purge flow rate l/min (ANR)	8	15	30	45	8	15	30	45	8	15	30	45	8	15	30	45
Inlet air pressure dew point °C	25															
Inlet air pressure MPa	0.7															
Inlet air temperature °C	25															
Ambient temperature °C	25															
Air filter	Degree of filtration μm				5				—							
Oil mist filter	Oil removal mg/m ³															
Regulator	Set pressure range MPa				—				0.05 to 0.85				—			
Standard accessories	Bracket				Differential pressure gauge/bracket				Pressure gauge/differential pressure gauge/bracket				—			

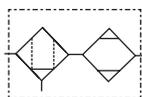
*1: Oil mist filter cannot be controlled with a differential pressure gage for C1. Replace the oil mist filter mantle every year.
*2: Purge flow rate in standard rating section is also the same value at 0.5MPa.
*3: Drainage is manual discharge.

JIS symbol

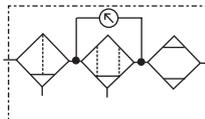
SD301E to 402E-*



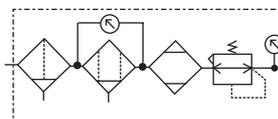
SU301E to 402E-±C1



SU301E to 402E-±C2



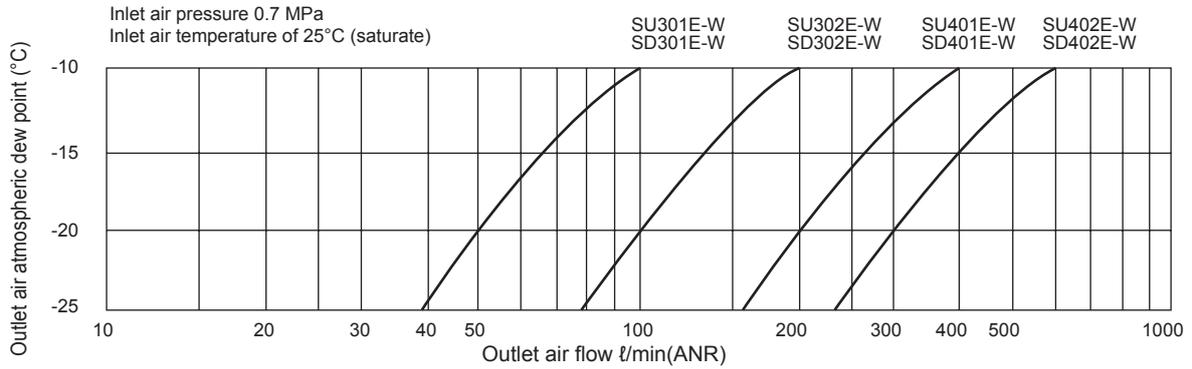
SU301E to 402E-±C3



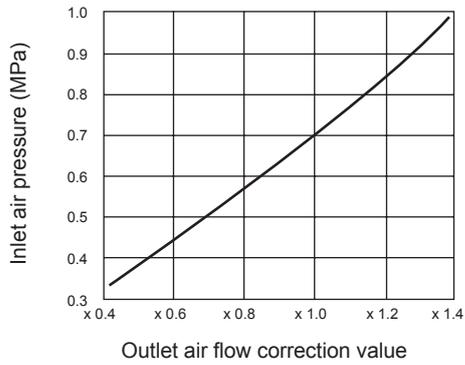
Dew point performance Refer to page 430 for selection guide and compensation method

P4
Series

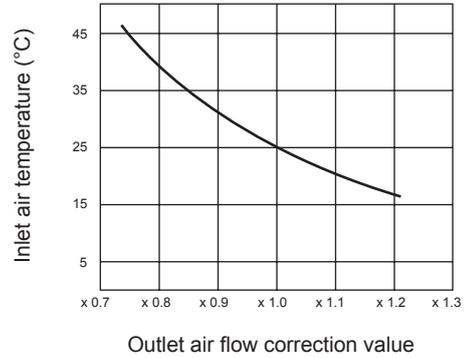
● Dew point performance curve



Inlet pressure - outlet air flow rate correction curve



Inlet temperature - outlet air flow rate correction curve



Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components

Pneumatic valves

Clean air components

Pneumatic auxiliary components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Gas generator

Fluid control components

Electric actuator
Motor specification
Motorless specifications

SU³400E / SD³400E-W Series

P4 Series

Compatibility table by variation

	SU
Port size	Rc3/8
P4	●
P40	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

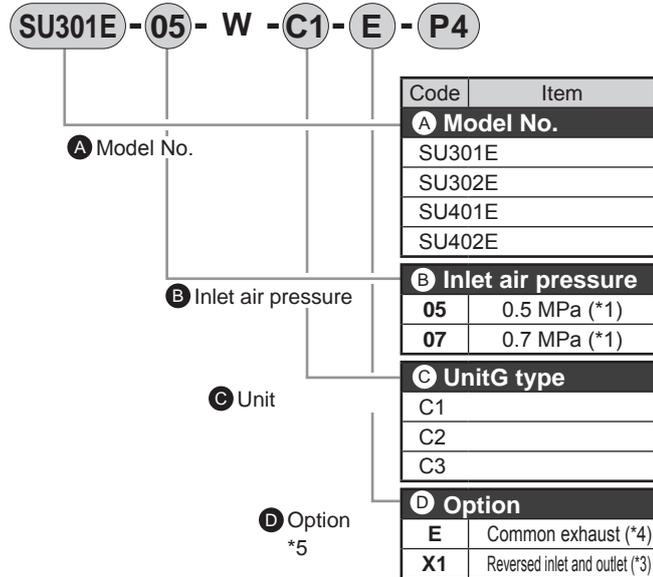
*1: Applicable only for common exhaust.

*2: Auto-drain is not available.

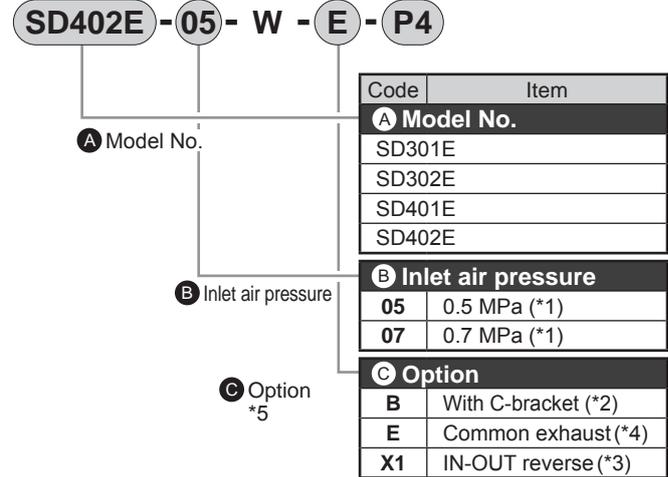
*3: For unit option C3, zinc die-casting is used in the diaphragm part of the regulator. For pressure adjustment springs without regulator gas contact and pressure adjustment screw units in P40, zinc plating is used.

How to order

● Super dryer combination



● Super dryer (High polymer membrane air dryer)



⚠ Precautions for model No. selection

*1: If inlet air pressure is less than 0.7 MPa, indicate 05, while 0.7 MPa and over, indicate 07.

*2: If fixed by C-bracket, modular connection with peripheral devices is not possible.

*3: Viewed from the front, standard products have an air inlet on the left port and an air outlet on the right port. For "X1", an air inlet is provided on the right port, with an air outlet provided on the left port.

*4: In size of exhaust port, Rc1/8 is provided for 300 Series, while Rc1/4 for 400 Series.

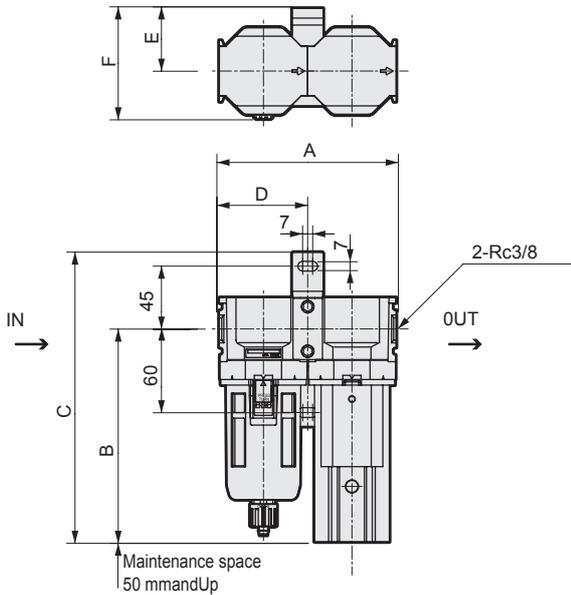
*5: When ordering several options, indicate the required options in alphabetical order.

Dimensions



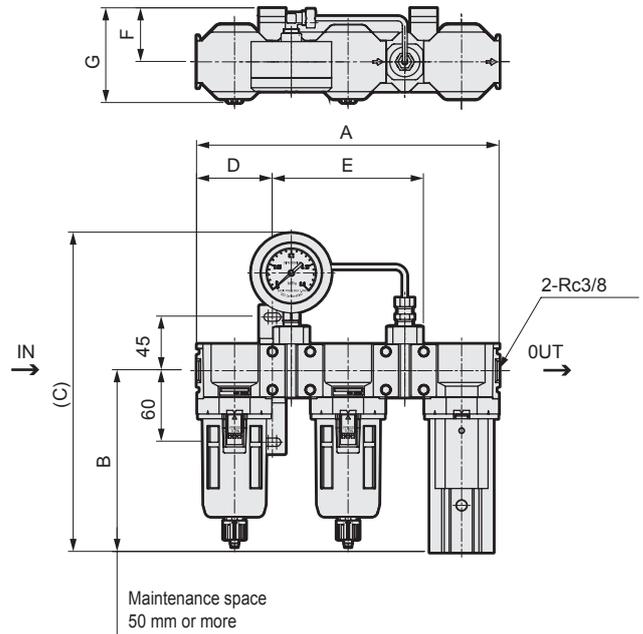
P4
Series

● Unit C1



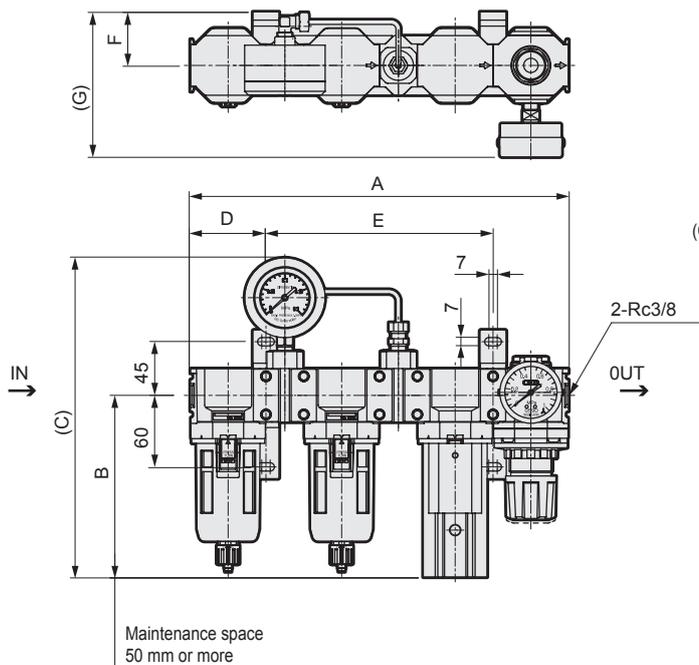
	A	B	C	D	E	F	Weight (kg)
SU301E-*-W-C1-*-P4	126	153	208	63	45	79	1.0
SU302E-*-W-C1-*-P4	143	223	278	80	55	97	1.6
SU401E-*-W-C1-*-P4	160	223	278	80	55	97	2.1
SU402E-*-W-C1-*-P4	160	328	383	80	55	95	3.5

● Unit C2 type



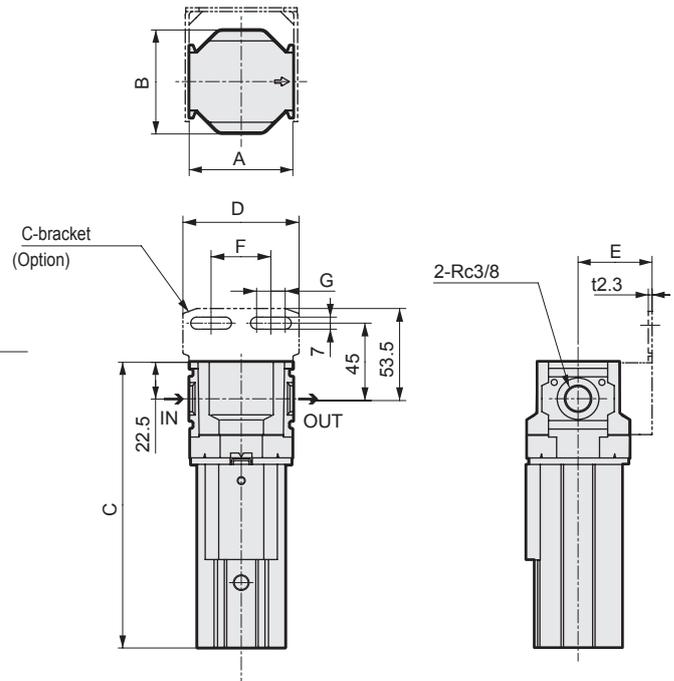
	A	B	C	D	E	F	G	Weight (kg)
SU301E-*-W-C2-*-P4	252	153	268	63	126	45	79	2.5
SU302E-*-W-C2-*-P4	286	223	338	80	143	55	97	3.3
SU401E-*-W-C2-*-P4	303	223	338	80	143	55	97	3.8
SU402E-*-W-C2-*-P4	303	328	443	80	143	55	97	5.2

● Unit C3 type



	A	B	C	D	E	F	G	Weight (kg)
SU301E-*-W-C3-*-P4	315	153	268	63	189	45	137	3.1
SU302E-*-W-C3-*-P4	366	223	338	80	206	55	137	4.1
SU401E-*-W-C3-*-P4	383	223	338	80	223	55	137	4.6
SU402E-*-W-C3-*-P4	383	328	443	80	223	55	137	6.0

● SD300E/SD400E



	A	B	C	D	E	F	G	Weight (kg)
SD301E-*-W-*-P4	63	63	175	67	45	34.5	16.5	0.6
SD302E-*-W-*-P4	63	63	245	67	45	34.5	16.5	0.9
SD401E-*-W-*-P4	80	80	245	84	55	55	14	1.4
SD402E-*-W-*-P4	80	80	315	84	55	55	14	1.8

Pneumatic actuator
Hand/Chuck
Related products
Cylinder
Switch

Vacuum components
Pneumatic valves

Clean air components
Speed controller

Pneumatic auxiliary components
Fitting
Auxiliary valve
Silencer

Tube

Gas generator
Fluid control components

Electric actuator
Motor specification
Motorless specifications



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Super dryer combination Super dryer

SU300D/SU400D/SD300D/SD400D-W Series

Slim body and high performance D series

- Small and powerful removal performance. Appropriate for integrating in devices.
- 3 types of units are available. Appropriate system is available according to applications.
- Processing air flow rate: 125 to 750 l/min (ANR) (0.7MPa, atmospheric dew point -20°C)



Specifications

The photos on this page are standard products. Appearance may differ from actual P4 specification products.

Item	SU301D -W-C1	SU302D -W-C1	SU401D -W-C1	SU402D -W-C1	SU301D -W-C2	SU302D -W-C2	SU401D -W-C2	SU402D -W-C2	SU301D -W-C3	SU302D -W-C3	SU401D -W-C3	SU402D -W-C3	SD301D -W	SD302D -W	SD401D -W	SD402D -W		
Appearance																		
	Simple & space saving structure unit that removes moisture from the air from which solid impurities have already been removed. (*1)				Unit supplying clean dry air with line not requiring pressure adjustment.				Clitoris pressurized just by supplying compressed airA unit that supplies clean dry air.				Discrete super dryer enabling easy system configuration with peripheral devices due to modular design.					
Configuration	Oil mist filter Super dryer (High polymer membrane air dryer)				Air filter Oil mist filter (with differential pressure gauge) Super dryer (High polymer membrane air dryer)				Air filter Oil mist filter (with differential pressure gauge) Super dryer (High polymer membrane air dryer) Regulator				Super dryer (High polymer membrane air dryer)					
Working fluid	Compressed air																	
Inlet air pressure MPa	0.4 to 1.0																	
Proof pressure MPa	1.5																	
Inlet air temperature °C	5 to 50																	
Ambient temperature °C	5 to 50																	
Outlet air atmospheric dew point °C	-20																	
Inlet air flow rate l/min (ANR)	125	250	500	750	125	250	500	750	125	250	500	750	125	250	500	750		
Outlet air flow l/min (ANR)	100	200	400	600	100	200	400	600	100	200	400	600	100	200	400	600		
Purge flow rate l/min (ANR)	25	50	100	150	25	50	100	150	25	50	100	150	25	50	100	150		
Inlet air pressure dew point °C	25																	
Inlet air pressure MPa	0.7																	
Inlet air temperature °C	25																	
Ambient temperature °C	25																	
Air filter Degree of filtration μm	—				5												—	
Oil mist filter Oil removal mg/m ³	0.1 [about 0.1 PPM] (inlet air at 30°C)																	
Regulator	Set pressure range MPa								0.05 to 0.85								—	
	Relief pressure MPa								Setting pressure plus 0.05								—	
Standard accessories	Bracket				Differential pressure gauge/bracket				Pressure gauge/differential pressure gauge/bracket				—					

*1: Oil mist filter cannot be controlled with a differential pressure gauge for C1. Replace the oil mist filter mantle every year.

*2: Purge flow rate in standard rating section is also the same value at 0.5MPa.

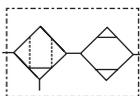
*3: Drainage is manual discharge.

JIS symbol

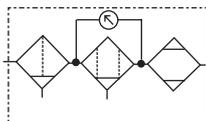
SD301D to 402D-*



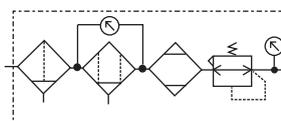
SU301D to 402D-*C1



SU301D to 402D-*C2



SU302D to 402D-*C3

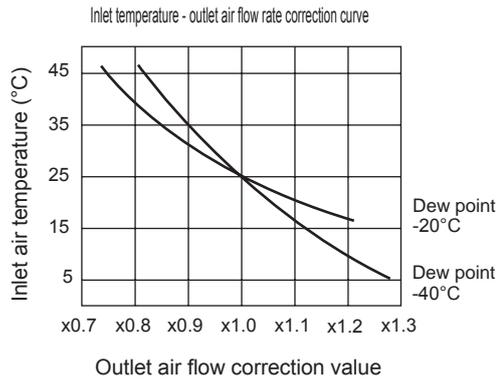
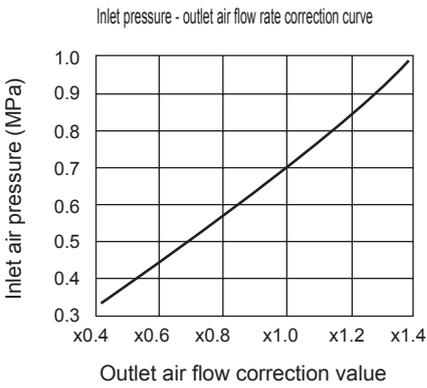
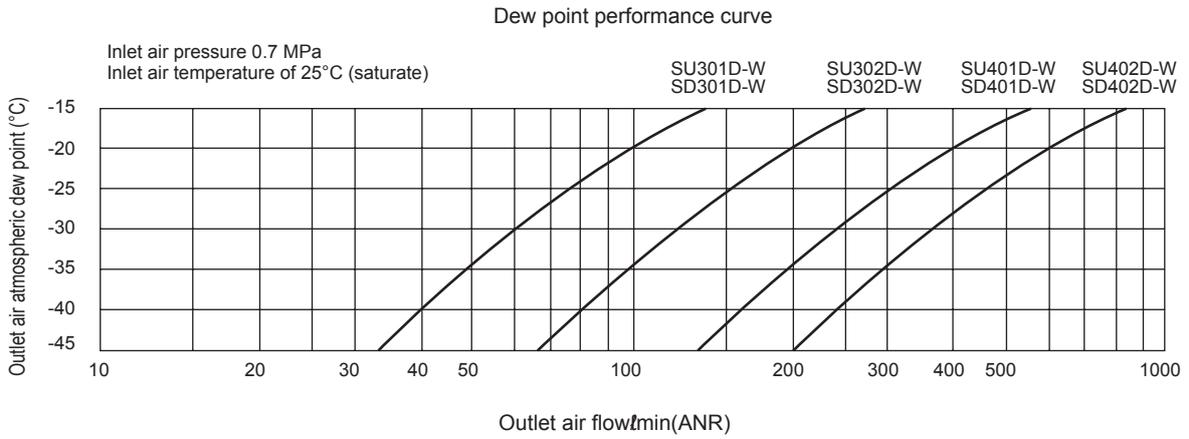


Dew point performance

Refer to page 430 for selection guide and compensation method

P4
Series

● Dew point performance curve



Pneumatic cylinders	Hand/Chuck	Related products	Cylinder Switch	Pneumatic actuator		
Vacuum components	Pneumatic valves					
Clean air components	Speed controller	Fitting	Auxiliary valve	Silencer	Tube	Pneumatic auxiliary components
Gas generator				Fluid control components		Electric actuator
Motor specification				Motorless specifications		

SU³00D / SD³00D-W Series

P4 Series

Compatibility table by variation

	SU
Port size	Rc3/8
P4	●
P40	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

*1: Applicable only for common exhaust.

*2: Auto-drain is not available.

*3: For unit option C3, zinc die-casting is used in the diaphragm part of the regulator. For pressure adjustment springs without regulator gas contact and pressure adjustment screw units in P40, zinc plating is used.

How to order

● Super dryer combination

SU301D - 05 - W - C1 - E - P4

A Model No.

B Inlet air pressure

C Unit

D Option
*5

Code	Item
A Model No.	
SU301D	
SU302D	
SU401D	
SU402D	
B Inlet air pressure	
05	0.5 MPa (*1)
07	0.7 MPa (*1)
C UnitG type	
C1	
C2	
C3	
D Option	
E	Common exhaust (*4)
X1	IN/OUT reverse (*3)

● Super dryer (High polymer membrane air dryer)

SD402D - 05 - W - E - P4

A Model No.

B Inlet air pressure

C Option
*5

Code	Item
A Model No.	
SD301D	
SD302D	
SD401D	
SD402D	
B Inlet air pressure	
05	0.5 MPa (*1)
07	0.7 MPa (*1)
C Option	
B	With C-bracket (*2)
E	Common exhaust (*4)
X1	Reversed inlet and outlet (*3)

⚠ Precautions for model No. selection

*1: If inlet air pressure is less than 0.7MPa, indicate 05; for 0.7MPa and over, indicate 07.

*2: If fixed by C-bracket, modular connection with peripheral devices is not possible.

*3: Viewed from the front, standard products have an air inlet on the left port and an air outlet on the right port. For "X1", an air inlet is provided on the right port, with an air outlet provided on the left port.

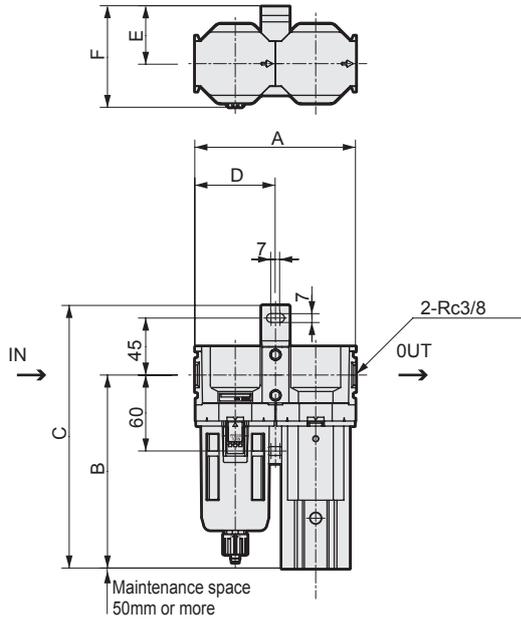
*4: In size of exhaust port, Rc1/8 is provided for 300 Series, while Rc1/4 for 400 Series.

*5: When using multiple options, Indicate in alphabetical order.

Dimensions

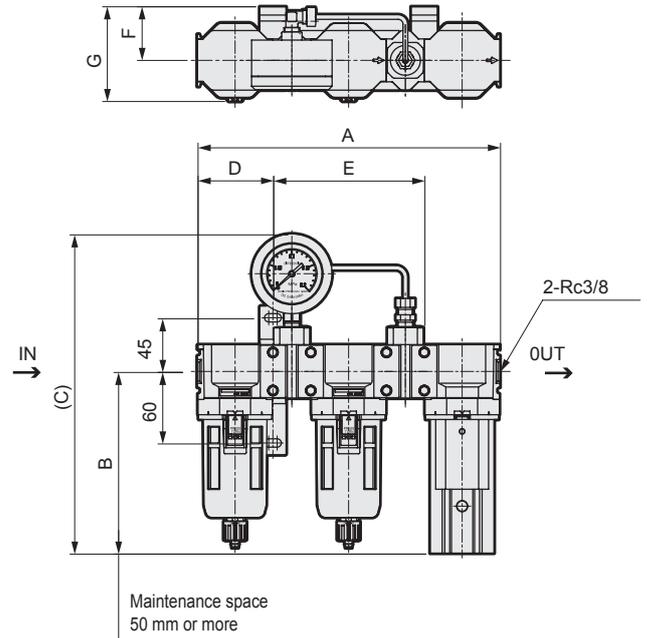


● Unit C1



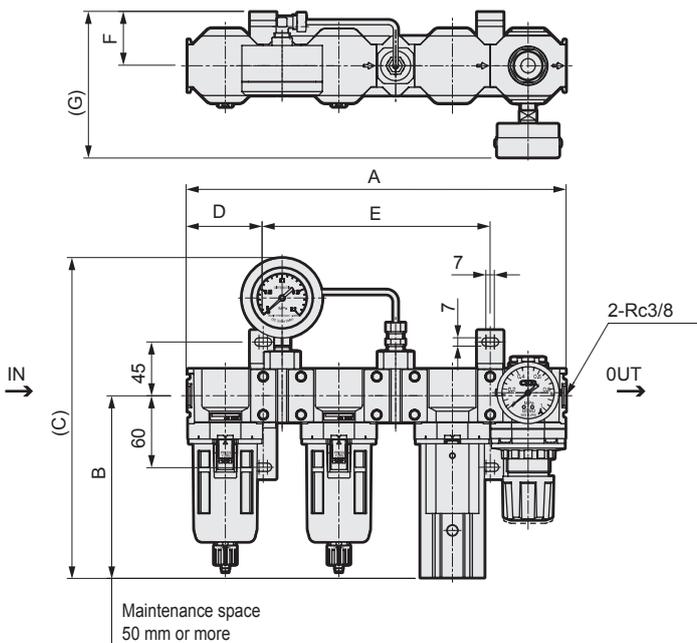
	A	B	C	D	E	F	Weight (kg)
SU301D-*W-C1-*P4	143	171	226	80	55	97	1.3
SU302D-*W-C1-*P4	143	223	278	80	55	97	1.6
SU401D-*W-C1-*P4	160	328	383	80	55	95	3.1
SU402D-*W-C1-*P4	160	328	383	80	55	95	3.5

● Unit C2 type



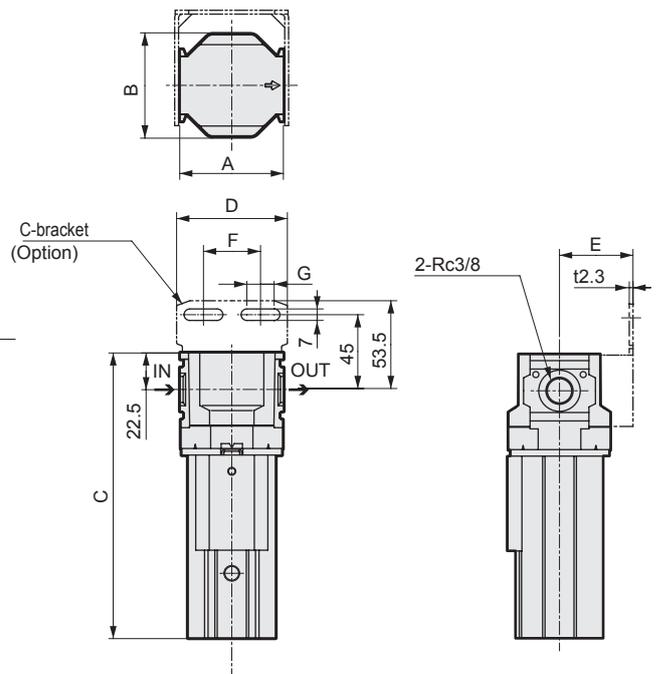
	A	B	C	D	E	F	G	Weight (kg)
SU301D-*W-C2-*P4	286	171	286	80	143	55	97	3.0
SU302D-*W-C2-*P4	286	223	338	80	143	55	97	3.3
SU401D-*W-C2-*P4	303	328	443	80	143	55	97	4.8
SU402D-*W-C2-*P4	303	328	443	80	143	55	97	5.2

● Unit C3 type



	A	B	C	D	E	F	G	Weight (kg)
SU301D-*W-C3-*P4	366	171	286	80	206	55	122	3.8
SU302D-*W-C3-*P4	366	223	338	80	206	55	137	4.1
SU401D-*W-C3-*P4	383	328	443	80	223	55	137	5.6
SU402D-*W-C3-*P4	383	328	443	80	223	55	137	6.0

● SD300D/SD400D



	A	B	C	D	E	F	G	Weight (kg)
SD301D-*W-*P4	63	63	175	67	45	34.5	16.5	0.6
SD302D-*W-*P4	63	63	245	67	45	34.5	16.5	0.9
SD401D-*W-*P4	80	80	245	84	55	55	14	1.4
SD402D-*W-*P4	80	80	315	84	55	55	14	1.8

P4
Series

Pneumatic actuator
Hand/Chuck
Related products
Cylinder
Switch

Vacuum components
Pneumatic valves

Clean air components
Speed controller

Pneumatic auxiliary components
Fitting
Auxiliary valve
Silencer

Tube

Gas generator
Fluid control components

Motor specification
Electric actuator
Motorless specifications



Super dryer combination

SU3000/SU4000-W Series

Easily and stably supplying ultra dry air.

- Ultra dry air with atmospheric dew point -60°C is obtained just by piping to a pneumatic source.
- All in one unit with superior installation performance.

- Processing air flow rate: 35 to 1500 l/min (ANR) (at 0.7MPa and -40°C atmospheric dew point)



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

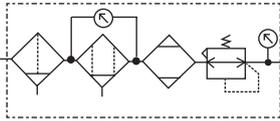
Specifications

The photos on this page are standard products. Appearance may differ from actual P4 specification products.

Item	SU 3015-A-W	SU 3025-A-W	SU 3035-A-W	SU 3050-A-W	SU 3075-A-W	SU 4100-A-W	SU 3015-B-W	SU 3025-B-W	SU 3050-B-W	SU 4050-B-W	SU 4100-B-W	
Working fluid	Compressed air											
Inlet air pressure MPa	0.4 to 1.0											
Proof pressure MPa	1.5											
Inlet air temperature $^{\circ}\text{C}$	5 to 50											
Ambient temperature $^{\circ}\text{C}$	5 to 50											
Outlet air atmospheric dew point $^{\circ}\text{C}$	-20						-40					
Inlet air flow rate l/min (ANR)	125	300	490	760	1200	1500	35	90	230	410	890	
Outlet air flow l/min (ANR)	100	240	390	610	960	1260	25	65	170	300	650	
Purge flow rate l/min (ANR)	25	60	100	150	240	240	10	25	60	110	240	
Inlet air pressure dew point $^{\circ}\text{C}$	25											
Inlet air pressure MPa	0.7											
Inlet air temperature $^{\circ}\text{C}$	25											
Ambient temperature $^{\circ}\text{C}$	25											
Air filter	Degree of filtration μm 5											
Oil mist filter	Oil removal mg/m^3 0.1[Approx.0.1PPM] (Inlet air 30°C)											
Regulator	Set pressure range MPa 0.05 to 0.85											
	Relief pressure MPa Setting pressure plus 0.05											
Standard accessories	Pressure gauge/differential pressure gauge/bracket											

*1: Drainage is manual discharge.

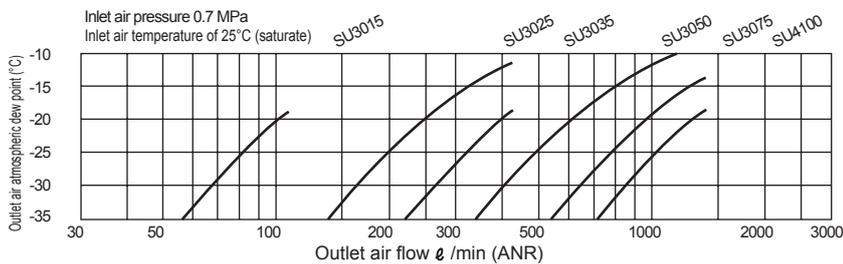
JIS symbol



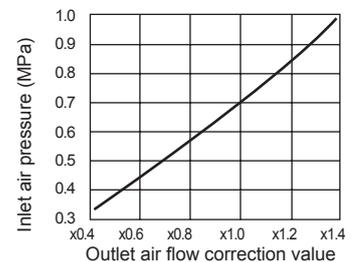
Dew point performance

Refer to page 430 for selection guide and compensation method

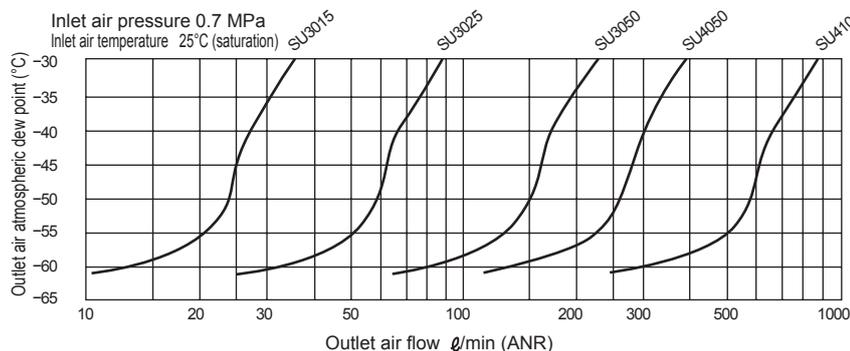
● Dew point performance curve (-20°C specifications)



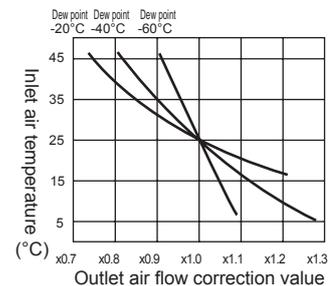
● Inlet pressure - outlet air flow rate correction curve



● Dew point performance curve ($-40, 60^{\circ}\text{C}$ specifications)



● Inlet temperature - outlet air flow rate correction curve



Compatibility table by variation

	SU
Port size	Rc3/8, 1/2
P4	●
P40	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

*1: Applicable only for common exhaust.

*2: Zinc die-casting is used in the diaphragm part of the regulator. For pressure adjustment springs without regulator gas contact and pressure adjustment screw units in P40, zinc plating is used.

How to order

● Super dryer combination

SU3015 - A 05 - W - E - P4

A Model No.

B Outlet air
Atmospheric dew point

C Inlet air pressure

D Option
*6

Code	Item
A Model No.	
SU3015	
SU3025	
SU3035	
SU3050	
SU3075	
SU4050	
SU4100	
B Outlet air atmospheric dew point	
A	-20°C
B	-40°C, -60°C (*5)
C Inlet air pressure	
05	0.5 MPa (*1)
07	0.7 MPa (*1)
D Option	
E	Common exhaust (*3)
X1	IN/OUT reverse (*2)

⚠ Precautions for model No. selection

- *1: If inlet air pressure is less than 0.7 MPa, indicate 05, while 0.7 MPa and over, indicate 07.
- *2: Viewed from the front, standard products have an air inlet on the left port and an air outlet on the right port. For "X1", an air inlet is provided on the right port, with an air outlet provided on the left port.
- *3: Size of exhaust port is Rc1/2.
- *4: Purge flow rate in standard rating section is also the same value at 0.5 MPa.
- *5: If outlet atmospheric dew point is -60°C, model No. is "B" as at -40°C.
- *6: When ordering several options, indicate the required options in alphabetical order.

P4
Series

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components
Pneumatic valves

Clean air components

Pneumatic auxiliary components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Gas generator
Fluid control components

Electric actuator
Motor specification
Motorless specifications

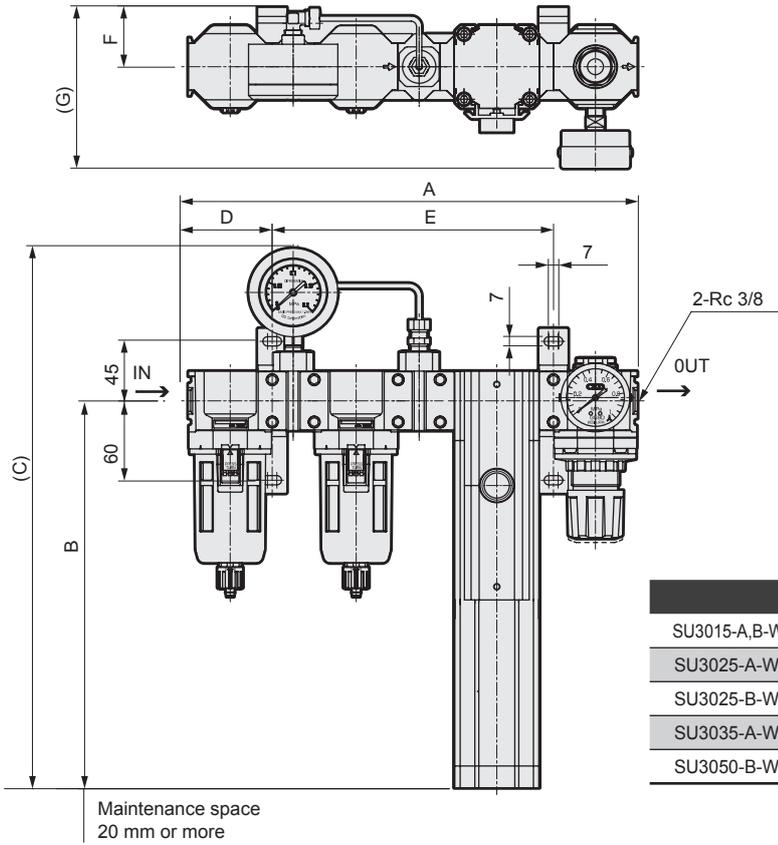
SU3000/SU4000-W Series



Dimensions

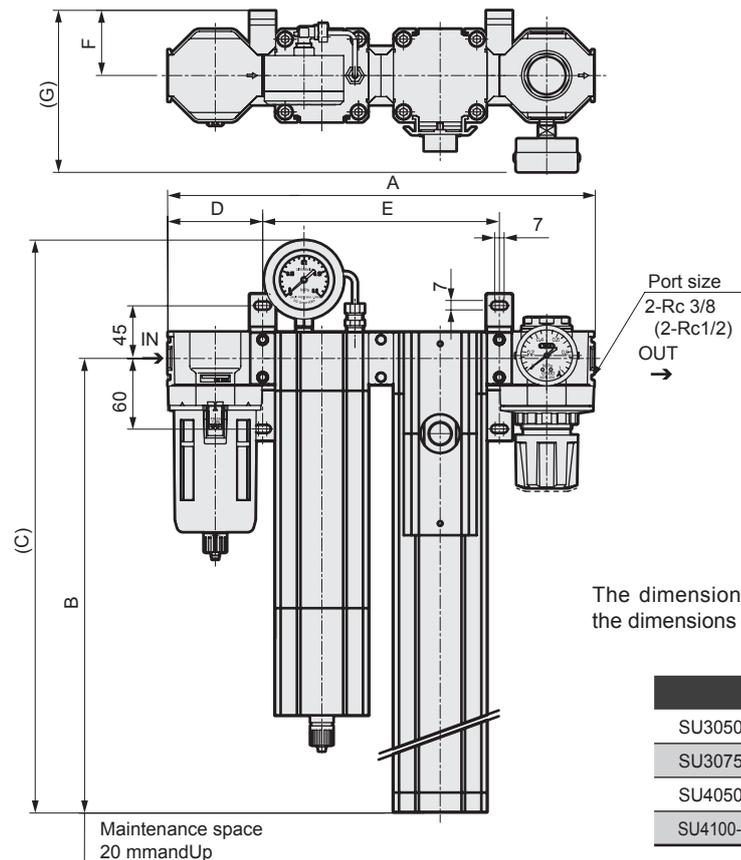
P4
Series

● SU3015-A/B-W SU3025-A/B-W SU3035-A-W SU3050-B-W



	A	B	C	D	E	F	G	Weight (kg)
SU3015-A,B-W-*P4	337	193	308	63	211	45	122	4.0
SU3025-A-W-*P4	388	293	408	80	228	55	137	5.1
SU3025-B-W-*P4	337	293	408	63	211	45	122	4.4
SU3035-A-W-*P4	388	393	508	80	228	55	137	5.5
SU3050-B-W-*P4	388	543	658	80	228	55	137	6.0

● SU3050-A-W SU3075-A-W SU4050-B-W SU4100-A/B-W



The dimensions in () indicate the dimensions of SU4000.

	A	B	C	D	E	F	G	Weight (kg)
SU3050-A-W-*P4	345	543	644	80	185	55	137	8.3
SU3075-A-W-*P4	345	793	894	80	185	55	137	9.3
SU4050-B-W-*P4	360	543	644	80	200	55	137	9.7
SU4100-A,B-W-*P4	360	1043	1144	80	200	55	137	12.5

Pneumatic actuator
 Pneumatic valves
 Pneumatic auxiliary components
 Gas generator
 Electric actuator

Pneumatic cylinders
 Hand/Chuck
 Related products
 Cylinder Switch
 Vacuum components
 Clean air components
 Speed controller
 Fitting
 Auxiliary valve
 Silencer
 Tube
 Fluid control components
 Motor specifications



Super dryer (High polymer membrane air dryer)

SD3000/SD4000 Series

Modular design for easy system expansion with peripheral devices

- Quickly supplies ultra dry air of -60°C atmospheric dew point.
- Available with max. working pressure of 1.5 MPa and a wide range of applications.
- Processing air flow rate: 35 to 890 l/min (ANR) (at 0.7MPa and -40°C atmospheric dew point)

P4
Series



Specifications The photos on this page are standard products. Appearance may differ from actual P4 specification products.

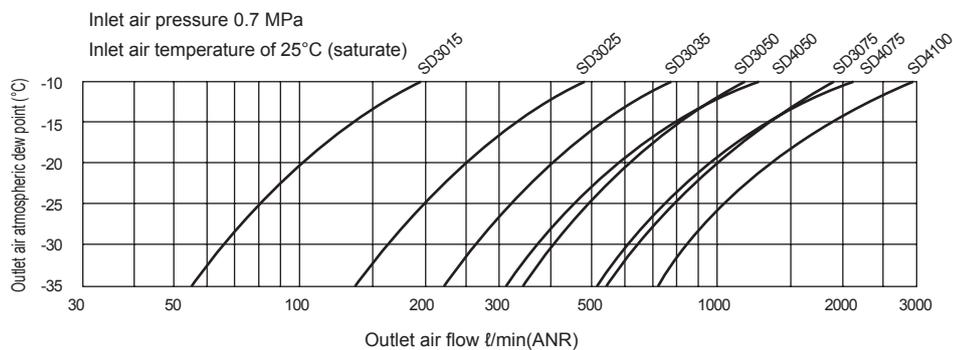
Item	SD3015	SD3025	SD3035	SD3050	SD3075	SD4050	SD4075	SD4100		
Working fluid	Compressed air									
Inlet air pressure MPa	0.4 to 1.5									
Proof pressure MPa	2.25									
Inlet air temperature $^{\circ}\text{C}$	5 to 50									
Ambient temperature $^{\circ}\text{C}$	5 to 50									
Inlet air pressure dew point $^{\circ}\text{C}$	25									
Inlet air pressure MPa	0.7									
Inlet air temperature $^{\circ}\text{C}$	25									
Ambient temperature $^{\circ}\text{C}$	25									
Outlet air atmospheric dew point	-20°C	Inlet air flow rate l/min (ANR)	125	300	490	760	1200	680	1100	1500
		Outlet air flow l/min (ANR)	100	240	390	610	960	570	930	1260
		Purge flow rate l/min (ANR)	25	60	100	150	240	110	170	240
	-40°C	Inlet air flow rate l/min (ANR)	35	90	150	230	370	410	650	890
		Outlet air flow l/min (ANR)	25	65	110	170	270	300	480	650
		Purge flow rate l/min (ANR)	10	25	40	60	100	110	170	240
	-60°C	Inlet air flow rate l/min (ANR)	20	55	90	140	220	240	380	520
		Outlet air flow l/min (ANR)	10	30	50	80	120	130	210	280
		Purge flow rate l/min (ANR)	10	25	40	60	100	110	170	240

JIS symbol



Dew point performance Refer to page 430 for selection guide and compensation method

- Dew point performance curve (-20°C specifications)



Pneumatic
Cylinders
Hand/
Chuck
Related
products
Cylinder
Switch
Vacuum components
Pneumatic valves
Clean air
components
Speed
controller
Fitting
Auxiliary
valve
Pneumatic auxiliary components
Silencer
Tube
Gas generator
Fluid control components
Electric actuator
Motor
specification
Motorless
specifications

SD3000/SD4000 Series

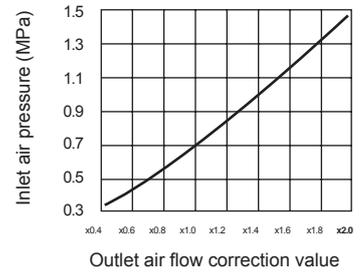
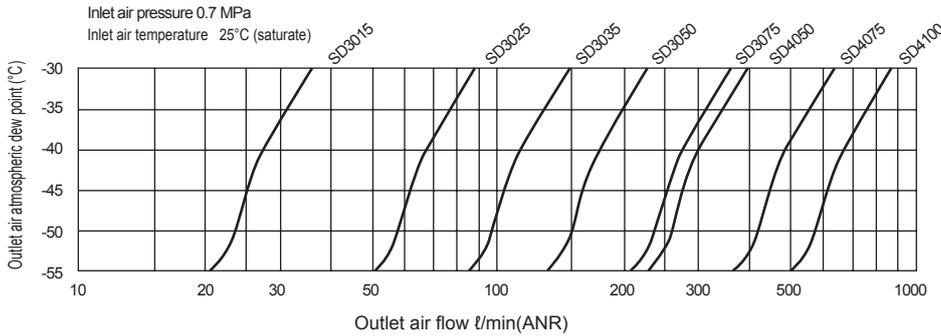
P4 Series

Dew point performance

Refer to page 430 for selection guide and compensation method

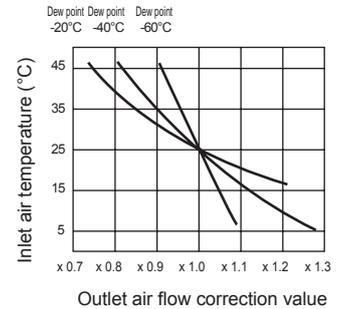
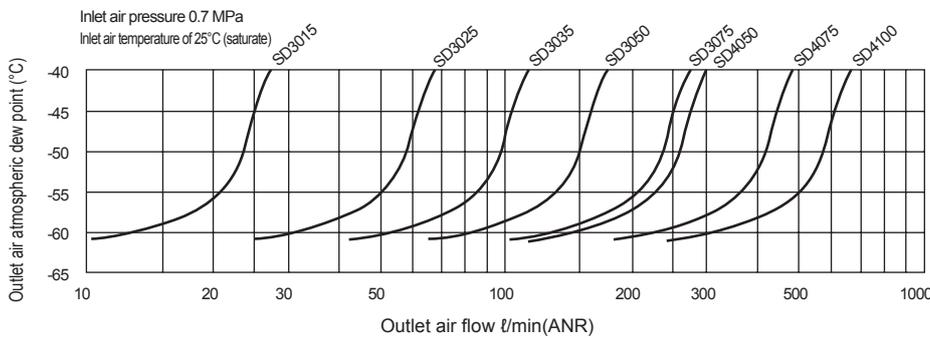
● Dew point performance curve (-40°C specifications)

● Inlet pressure - outlet air flow rate correction curve



● Dew point performance curve (-60°C specifications)

● Inlet temperature - outlet air flow rate correction curve



● Super dryer (High polymer membrane air dryer)

How to order

SD3015 - A 05 - E - P4

A Model No.

Compatibility table by variation

	SD
Port size	Rc3/8, 1/2
P4	●
P40	▲

*1: Applicable only for common exhaust.

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

⚠ Precautions for model No. selection

*1: Select 05 if the inlet air pressure is less than 0.7M P a, and 07 if it is 0.7MPa and over and less than 1.4MPa.

*2: 1.4MPa inlet air pressure and -20°C outlet air atmospheric dew point cannot be selected together. As the atmospheric dew point will be -14°C when the inlet air temperature is 25°C and the pressure is 1.4MPa, there is no point in using the dryer. Select -40°C or -60°C.

*3: Viewed from the front, a standard product has air inlet on the left port and an air outlet on the right port. For "X1", an air inlet is provided on the right port with an air outlet on the left port.

*4: Size of exhaust port is Rc1/2.

*5: When ordering several options, indicate the required options in alphabetical order.

B Outlet air atmospheric dew point

C Inlet air pressure

*1

*2

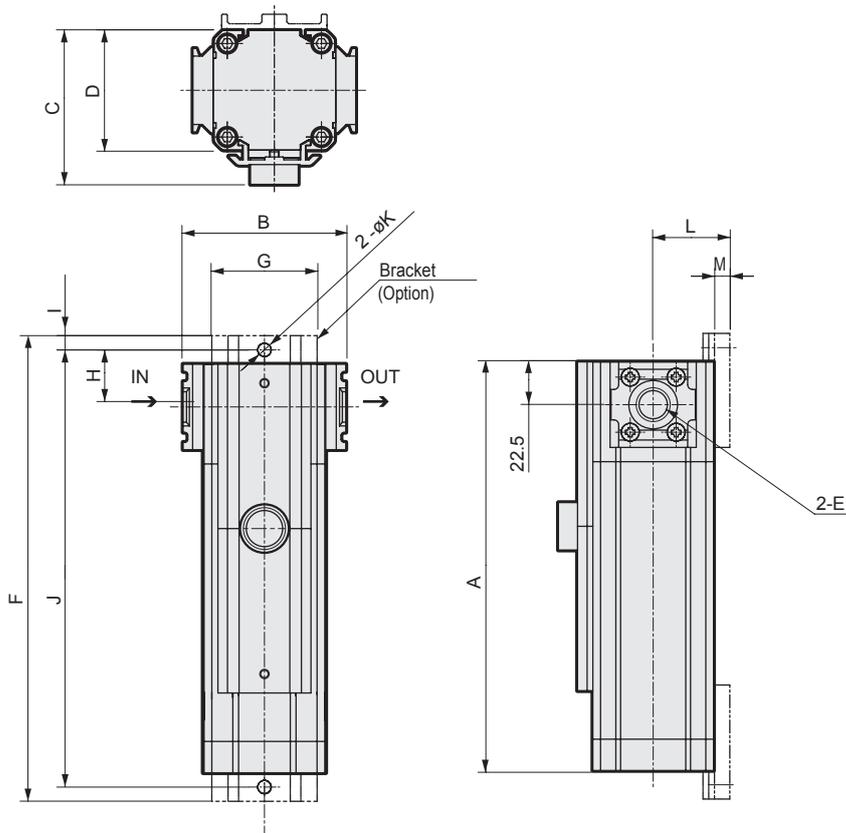
D Option

*3

*4

*5

Code	Description
A Model No.	
SD3015	
SD3025	
SD3035	
SD3050	
SD3075	
SD4050	
SD4075	
SD4100	
B Outlet air atmospheric dew point	
A	-20°C
B	-40°C
C	-60°C
C Inlet air pressure	
05	0.5 MPa
07	0.7 MPa
14	1.4 MPa (Outlet air atmospheric dew point*A:-20°C cannot be selected.)
D Option	
B	With bracket
E	Common exhaust (Note4)
X1	IN-OUT reverse (Note3)



Model No.	A	B	C	D	E	Weight (kg)	Bracket relational dimensions							
							F	G	H	I	J	K	L	M
SD3015-**-P4	215	85	81	63	Rc 3/8	1.5	245	55	30	7.5	230	7	40	8
SD3025-**-P4	315	85	81	63	Rc 3/8	1.9	345	55	30	7.5	330	7	40	8
SD3035-**-P4	415	85	81	63	Rc 3/8	2.3	445	55	30	7.5	430	7	40	8
SD3050-**-P4	565	85	81	63	Rc 3/8	2.8	595	55	30	7.5	580	7	40	8
SD3075-**-P4	815	85	81	63	Rc 3/8	3.7	845	55	30	7.5	830	7	40	8
SD4050-**-P4	565	100	104	79	Rc 1/2	4.1	605	70	32.5	10	585	9	50	10
SD4075-**-P4	815	100	104	79	Rc 1/2	5.5	855	70	32.5	10	835	9	50	10
SD4100-**-P4	1065	100	104	79	Rc 1/2	6.9	1105	70	32.5	10	1085	9	50	10

- Pneumatic actuator
- Pneumatic cylinders
- Hand/ Chuck
- Related products
- Cylinder Switch
- Vacuum components
- Pneumatic valves
- Clean air components
- Speed controller
- Pneumatic auxiliary components
- Fitting
- Auxiliary valve
- Slencer
- Tube
- Gas generator
- Fluid control components
- Electric actuator
- Motor specification
- Motorless specifications

Selection guide

[Selection guide]

Each performance curve shows the relation of the outlet air flow and the outlet air atmospheric dew point of each model at an inlet pressure of 0.7 MPa and inlet air temperature of 25°C (saturation). Select the model according to the intersection of the required dew point and required flow rate shown on the right.

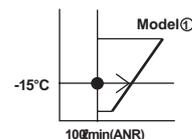
[Flow rate compensation method]

If the inlet pressure and inlet temperature differ from the rated values, the outlet air flow rate that can be supplied will change. Use each compensation curve and compensate in this case.

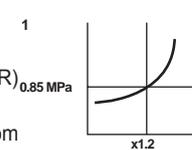
$$(\text{Rated outlet air flow}) \times (\text{correction value}) = (\text{outlet air flow rate under conditions})$$

In addition, when the inlet air is the air which comes through the refrigeration air dryer, regardless of actual temperature, select the model with inlet air temperature of 10°C.

(Example) Required dew point of -15°C
When the required flow rate is 100 l/min (ANR), model ① located on the right side of an intersection point can be selected.

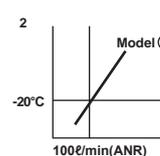


(Example) Inlet pressure of 0.85 MPa
Required dew point of -20°C
Required flow rate 120 l/min (ANR)



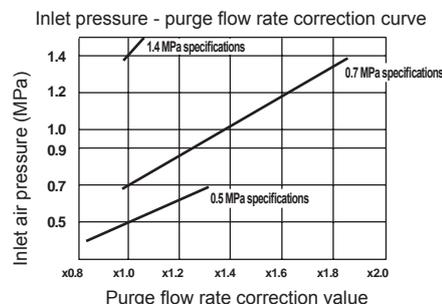
1. Obtain compensation (in this case 1.2) from the pressure flow rate compensation curve.

2. Model ② has an outlet atmospheric dew point of -20°C and outlet air flow rate of 100 l/min, allowing up to a 1.2-fold rate of 120 l/min (ANR); therefore model ② is selectable.

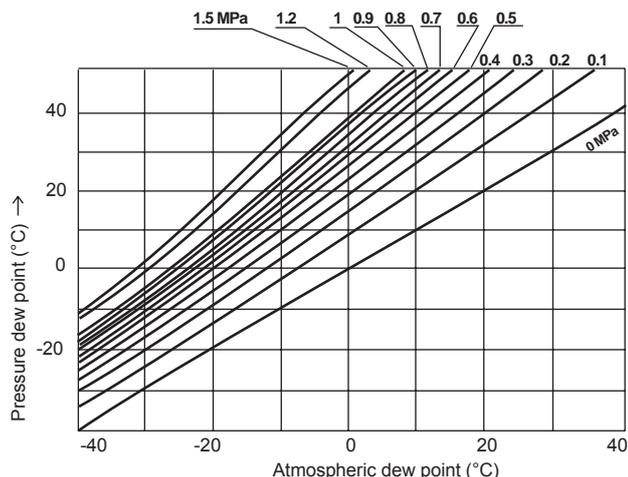


Purge flow rate

Make sure that the flow rate including the purge flow rate as well as the outlet side operating air flow rate can be supplied from the inlet. If the inlet air pressure differs from the rated value, the purge flow rate will be obtained by multiplying the rated purge flow rate with the compensation value shown on the right.

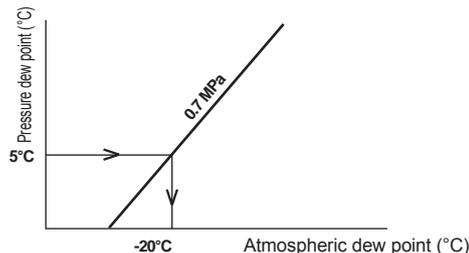


Pressure dew point - atmospheric dew point conversion table



Reading pressure dew point - atmospheric dew point conversion table

This table is used to convert the pressure dew point at each pressure into an atmospheric dew point, or vice versa. Example: Obtain the atmospheric dew point when the pressure is 0.7 MPa and the pressure dew point is 5°C.



According to the above table, when the pressure is 0.7 MPa, the 5°C pressure dew point is converted into a -20°C atmospheric dew point.

Measuring the working air flow rate

If the working flow rate is not clear when selecting the super dryer model, measure the flow rate. The pneumatic flow rate sensor "FLUEREX Flow Sensor Tester Kit" with functions such as cumulative display, peak display, peak value hold, and analog output is handy for measuring the flow rate.

● FLUEREX Flow Sensor Tester Kit
FLUEREX PFK Series

