



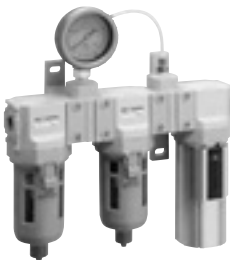
Super dryer combination Super dryer (High polymer membrane air dryer) SU300E/SU400E/SD300E/SD400E-W Series

- 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) (0.7 MPa, atmospheric dew point -15°C)



Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

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 (High polymer membrane air 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)			
Range of working conditions	Working fluid	Compressed air															
	Inlet air pressure MPa	0.4 (≈58 psi, 4 bar) to 1.0 (≈150 psi, 10 bar)															
	Proof pressure MPa	1.5 (≈220 psi, 15 bar)															
	Inlet air temperature °C	5 (41°F) to 50 (122°F)															
	Ambient temperature °C	5 (41°F) to 50 (122°F)															
Standard rating	Outlet air atmospheric dew point °C	-15 (5°F)															
	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 (77°F)															
	Inlet air pressure MPa	0.7 (≈100 psi, 7 bar)															
	Inlet air temperature °C	25 (77°F)															
	Ambient temperature °C	25 (77°F)															
Air filter	Filtration rating μm	—				5								—			
Oil mist filter	Oil removal mg/m ³	0.1 (approximately 0.1 ppm) (when the inlet air is 30°C (86°F))												—			
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				Press gauge/diff press gauge/bracket				—			

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

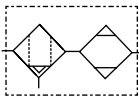
*2: Purge flow rate in standard rating section is also the same value at 0.5 MPa.

JIS symbol

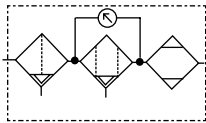
SD301E to 402E-*



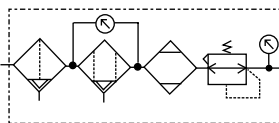
SU301E to 402E-*C1



SU301E to 402E-*C2



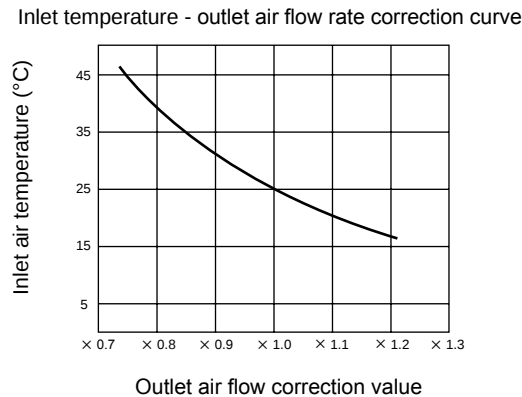
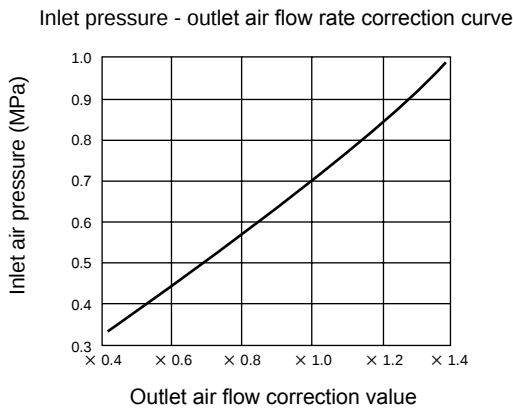
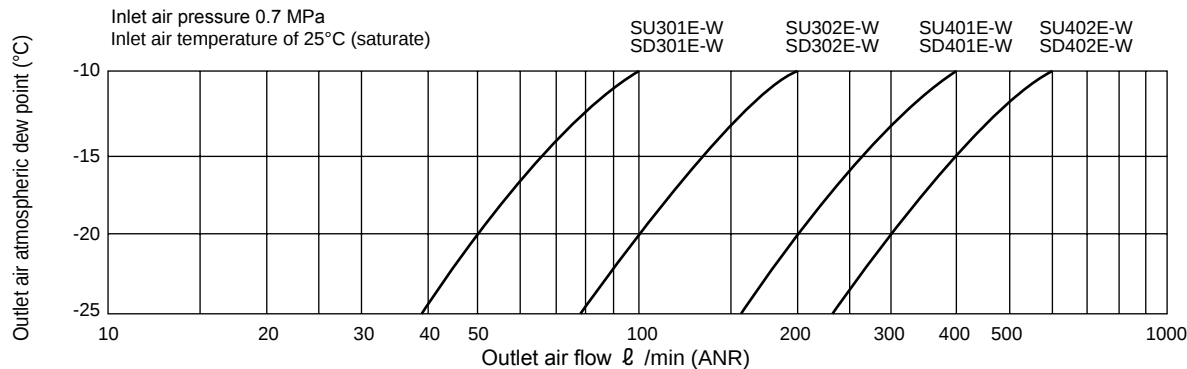
SU301E to 402E-*C3



Dew point performance

Refer to page 1831 for selection guide and compensation method.

● Dew point performance curve



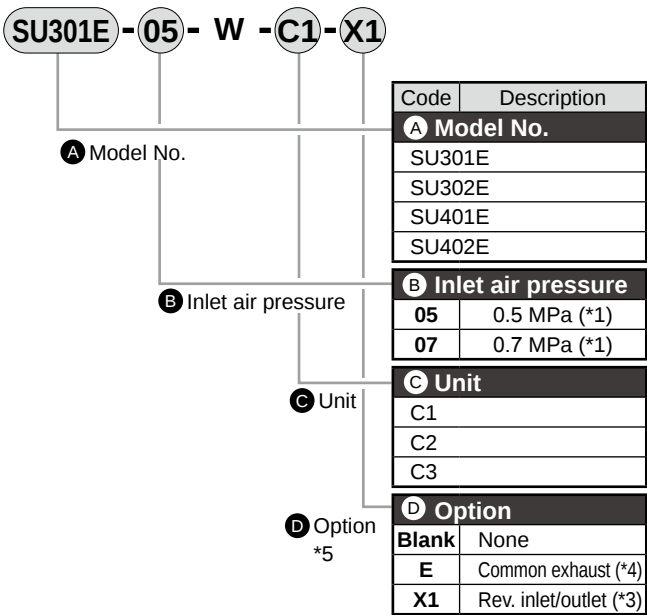
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac- remove Filt
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner
Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

SU₄00E/SD₄00E-W Series

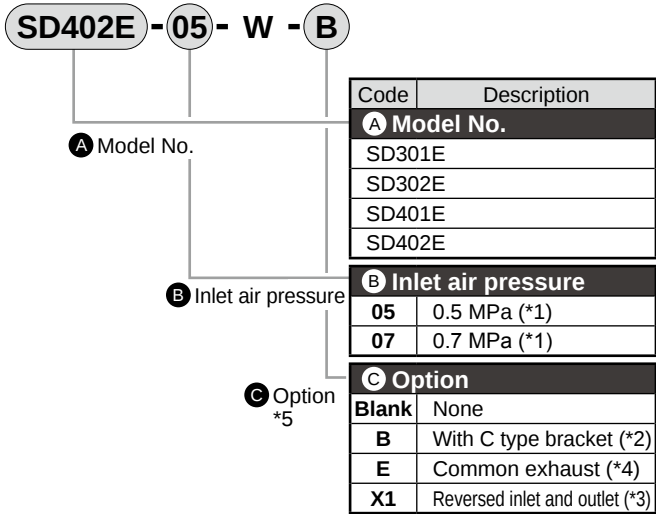
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
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Res press exh valve
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Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner
Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

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 type bracket, a 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: Purge air from standard products is released into the atmosphere. If "E" is indicated, common exhaust of purge air is enabled. The size of exhaust ports include the Rc1/8 for the 300 Series and the Rc1/4 for the 400 Series.
- *5: When ordering several options, indicate the required options in alphabetical order.

Specifications for rechargeable battery (Catalog No. CC-1226A)

● Design compatible with rechargeable battery manufacturing process

SU*0*E - - P4*

SD*0*E - - P4*

Components

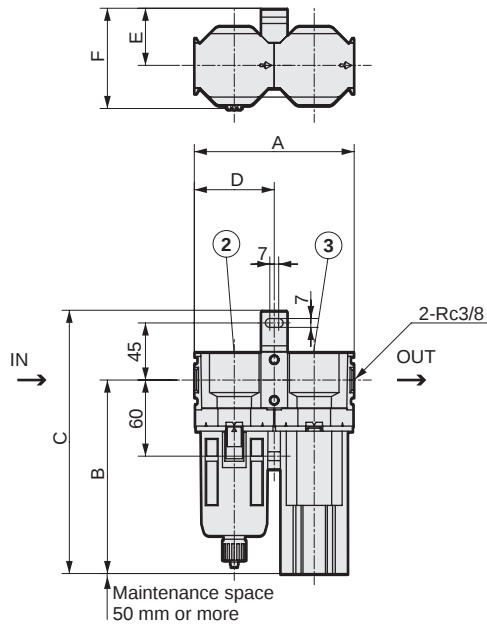
Components	(1) Air filter	(2) Oil mist filter	(3) Super dryer (High polymer membrane air dryer)	(4) Regulator	(5) Differential pressure gauge
Model No.					
SU301E-*W-C1	—	M3000-10-W-F1	SD301E-*W	—	—
SU302E-*W-C1	—	M4000-10-W-F1	SD302E-*W	—	—
SU401E-*W-C1	—	M4000-10-W-F1	SD401E-*W	—	—
SU402E-*W-C1	—	SM4100-W	SD402E-*W	—	—
SU301E-*W-C2	F3000-10-W-F	M3000-10-W-F1	SD301E-*W	—	GA400-8-P02
SU302E-*W-C2	F4000-10-W-F	M4000-10-W-F1	SD302E-*W	—	GA400-8-P02
SU401E-*W-C2	F4000-10-W-F	M4000-10-W-F1	SD401E-*W	—	GA400-8-P02
SU402E-*W-C2	F4000-10-W-F	SM4100-W	SD402E-*W	—	GA400-8-P02
SU301E-*W-C3	F3000-10-W-F	M3000-10-W-F1	SD301E-*W	R3000-10-W	GA400-8-P02
SU302E-*W-C3	F4000-10-W-F	M4000-10-W-F1	SD302E-*W	R4000-10-W	GA400-8-P02
SU401E-*W-C3	F4000-10-W-F	M4000-10-W-F1	SD401E-*W	R4000-10-W	GA400-8-P02
SU402E-*W-C3	F4000-10-W-F	SM4100-W	SD402E-*W	R4000-10-W	GA400-8-P02

*1: Oil mist filter (SM4100-W) is a made-to-order product.

Dimensions

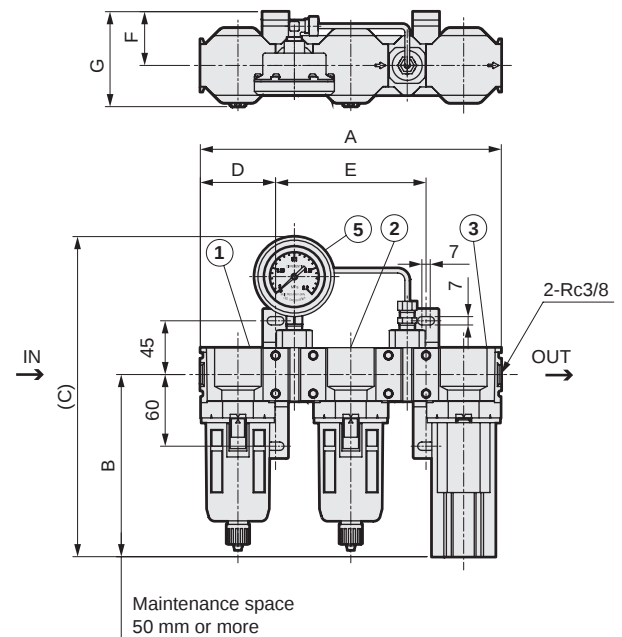


● Unit C1



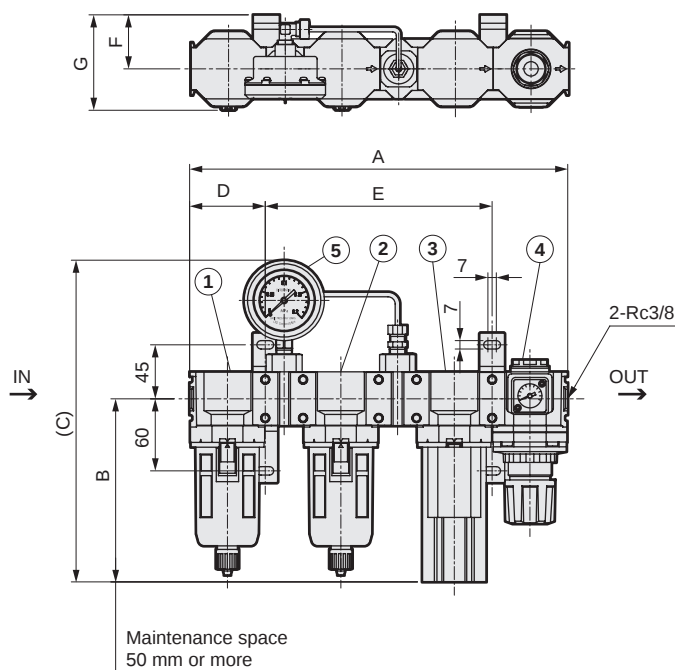
	A	B	C	D	E	F	Wt. (kg)
SU301E-*-W-C1	126	153	208	63	45	79	1.0
SU302E-*-W-C1	143	223	278	80	55	97	1.6
SU401E-*-W-C1	160	223	278	80	55	97	2.1
SU402E-*-W-C1	160	328	383	80	55	95	3.5

● Unit C2



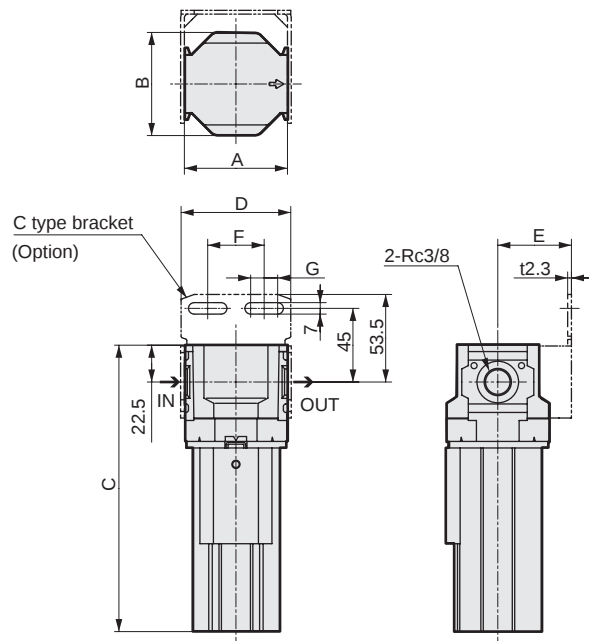
	A	B	C	D	E	F	G	Wt. (kg)
SU301E-*-W-C2	252	153	268	63	126	45	79	2.0
SU302E-*-W-C2	286	223	338	80	143	55	97	2.8
SU401E-*-W-C2	303	223	338	80	143	55	97	3.3
SU402E-*-W-C2	303	328	443	80	143	55	97	4.7

● Unit C3



	A	B	C	D	E	F	G	Wt. (kg)
SU301E-*-W-C3	315	153	268	63	189	45	79	2.5
SU302E-*-W-C3	366	223	338	80	206	55	97	3.5
SU401E-*-W-C3	383	223	338	80	223	55	97	4.0
SU402E-*-W-C3	383	328	443	80	223	55	97	5.4

● SD300E/SD400E



	A	B	C	D	E	F	G	Wt. (kg)
SD301E-*-W	63	63	175	67	45	34.5	16.5	0.6
SD302E-*-W	63	63	245	67	45	34.5	16.5	0.9
SD401E-*-W	80	79	245	84	55	55	14	1.4
SD402E-*-W	80	79	315	84	55	55	14	1.8

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter 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 Cool
Air Flo Sens/Ctrl
WaterRiSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending



Super dryer combination Super dryer (High polymer membrane air dryer)

SU300D/SU400D/SD300D/SD400D-W Series

Slim body and high performance D series

■ Small and powerful removal performance. Appropriate for integrating in devices.

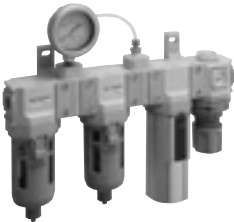
■ 3 types of units are available. Appropriate system is available according to applications.

● Processing air flow rate: 125 to 750 ℓ /min. (ANR) (0.7 MPa, atmospheric dew point -20°C)

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

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.				 A unit that supplies pressure-adjusted clean dry air just by supplying compressed air.				 Discrete super dryer (High polymer membrane air 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)											
Range of working conditions	Working fluid				Compressed air																			
	Inlet air pressure MPa				0.4 (≈58 psi, 4 bar) to 1.0 (≈150 psi, 10 bar)																			
	Proof pressure MPa				1.5 (≈220 psi, 15 bar)																			
	Inlet air temperature °C				5 (41°F) to 50 (122°F)																			
	Ambient temperature °C				5 (41°F) to 50 (122°F)																			
	Outlet air atmospheric dew point °C				-20 (-4°F)																			
	Inlet air flow rate ℓ /min(ANR)				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								
	Purge flow rate ℓ /min(ANR)				25	50	100	150	25	50	100	150	25	50	100	150								
	Inlet air pressure dew point °C				25 (77°F)																			
Standard rating	Inlet air pressure MPa				0.7 (≈100 psi, 7 bar)																			
	Inlet air temperature °C				25 (77°F)																			
	Ambient temperature °C				25 (77°F)																			
	Air filter	Filtration rating μm				5								—										
	Oil mist filter	Oil removal mg/m ³				0.1 (approximately 0.1 ppm) (when the inlet air is 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				Press gauge/diff press gauge/bracket											

*1: An 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 0.5 MPa.

JIS symbol

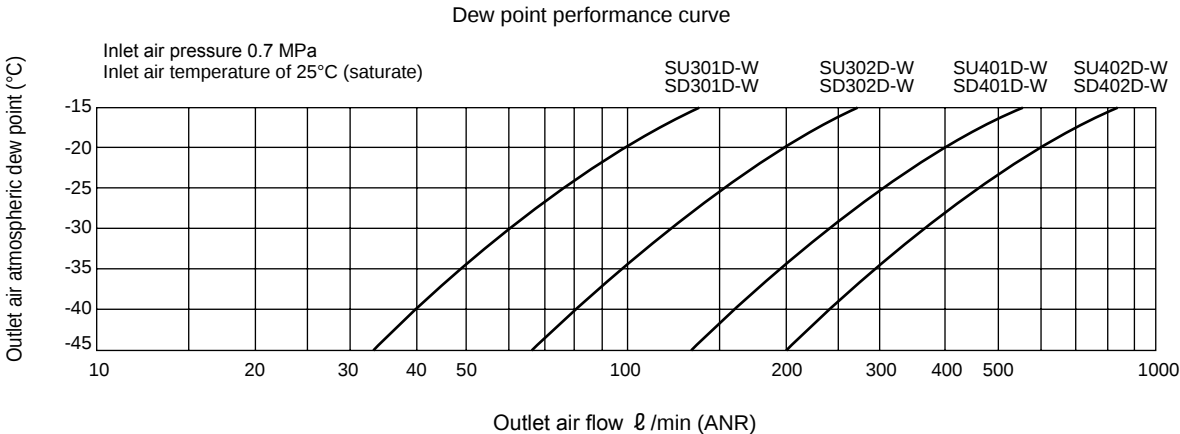
SD301D to 402D-* SU301D to 402D-*C1 SU301D to 402D-*C2 SU302D to 402D-*C3

1818

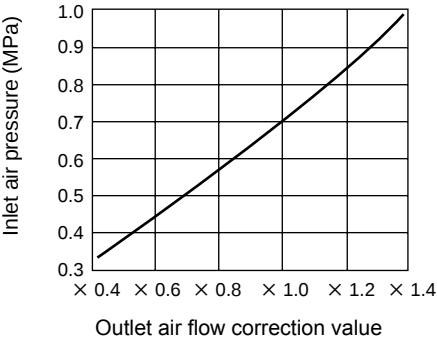
CKD

Dew point performance machine Refer to page 1831 for selection guide and compensation method.

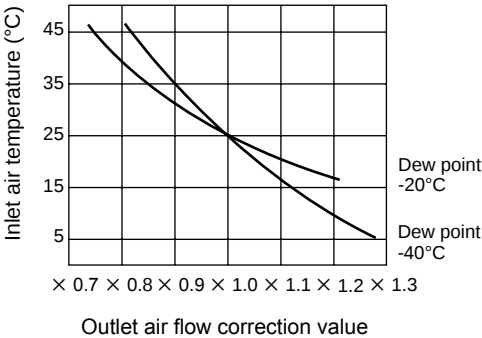
● Dew point performance curve



Inlet pressure - outlet air flow rate correction curve



Inlet temperature - outlet air flow rate correction curve



F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac- remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter 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 Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

SU³₄00D/SD³₄00D-W Series

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
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Res press exh valve
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Anti-bac/Bac- remove Filtr
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Outdrs FRL
Adapter 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 Cool
Air Flo Sens/Ctrl
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

How to order

● Super dryer Combination

SU301D - 05 - W - C1 - X1

A Model No.

B Inlet air pressure

C Unit

D Option
*5

Code	Description
A Model No.	
SU301D	
SU302D	
SU401D	
SU402D	
B Inlet air pressure	
05	0.5 MPa (*1)
07	0.7 MPa (*1)
C Unit	
C1	
C2	
C3	
D Option	
Blank	None
E	Common exhaust (*4)
X1	Rev. inlet/outlet (*3)

● Super dryer (High polymer membrane air dryer)

SD402D - 05 - W - B

A Model No.

B Inlet air pressure

C Option
*5

Code	Description
A Model No.	
SD301D	
SD302D	
SD401D	
SD402D	
B Inlet air pressure	
05	0.5 MPa (*1)
07	0.7 MPa (*1)
C Option	
Blank	None
B	With C type 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 0.7 MPa, indicate 05, while 0.7 MPa and over, indicate 07.
- *2: If fixed by C type 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: Purge air from standard products is released into the atmosphere. If "E" is indicated, common exhaust of purge air is enabled. The size of exhaust ports include the Rc1/8 for the 300 Series and the Rc1/4 for the 400 Series.
- *5: When ordering several options, indicate the required options in alphabetical order.

Components

Components Model No.	(1) Air filter	(2) Oil mist filter	(3) Super dryer (High polymer membrane air dryer)	(4) Regulator	(5) Differential pressure gauge
SU301D-*-W-C1	—	M4000-10-W-F1	SD301D-*-W	—	—
SU302D-*-W-C1	—	M4000-10-W-F1	SD302D-*-W	—	—
SU401D-*-W-C1	—	SM4100-W	SD401D-*-W	—	—
SU402D-*-W-C1	—	SM4100-W	SD402D-*-W	—	—
SU301D-*-W-C2	F4000-10-W-F	M4000-10-W-F1	SD301D-*-W	—	GA400-8-P02
SU302D-*-W-C2	F4000-10-W-F	M4000-10-W-F1	SD302D-*-W	—	GA400-8-P02
SU401D-*-W-C2	F4000-10-W-F	SM4100-W	SD401D-*-W	—	GA400-8-P02
SU402D-*-W-C2	F4000-10-W-F	SM4100-W	SD402D-*-W	—	GA400-8-P02
SU301D-*-W-C3	F4000-10-W-F	M4000-10-W-F1	SD301D-*-W	R4000-10-W	GA400-8-P02
SU302D-*-W-C3	F4000-10-W-F	M4000-10-W-F1	SD302D-*-W	R4000-10-W	GA400-8-P02
SU401D-*-W-C3	F4000-10-W-F	SM4100-W	SD401D-*-W	R4000-10-W	GA400-8-P02
SU402D-*-W-C3	F4000-10-W-F	SM4100-W	SD402D-*-W	R4000-10-W	GA400-8-P02

*1: Oil mist filter (SM4100-W) is a made-to-order product.

Specifications for rechargeable battery

(Catalog No. CC-1226A)

- Design compatible with rechargeable battery manufacturing process

SU*0*D - - P4*

SD*0*D - - P4*

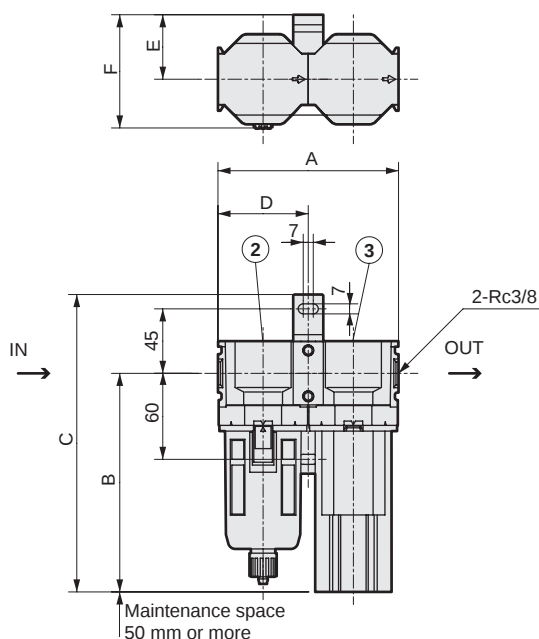
SU₄00D/SD₄00D-W Series

Dimensions

Dimensions

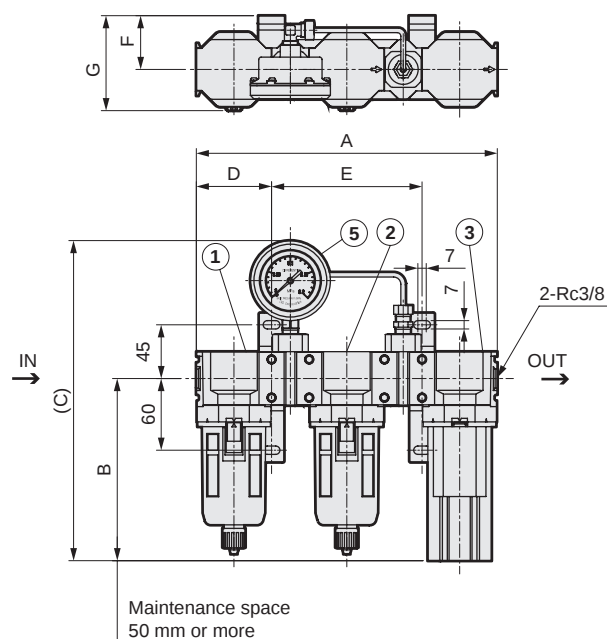


● Unit C1



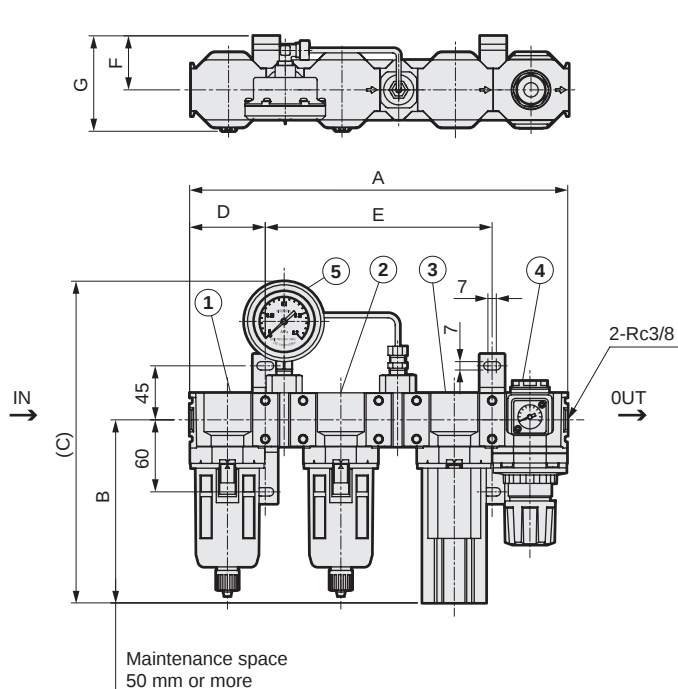
	A	B	C	D	E	F	Wt. (kg)
SU301D-*-W-C1	143	171	226	80	55	97	1.3
SU302D-*-W-C1	143	223	278	80	55	97	1.6
SU401D-*-W-C1	160	328	383	80	55	95	3.1
SU402D-*-W-C1	160	328	383	80	55	95	3.5

● Unit C2



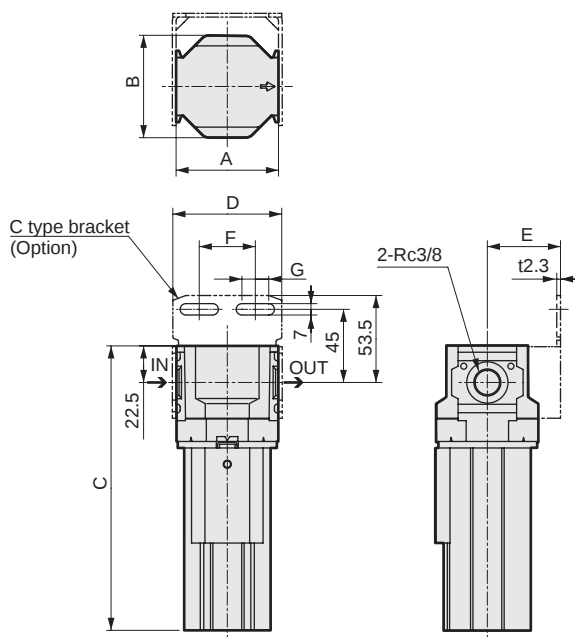
	A	B	C	D	E	F	G	Wt. (kg)
SU301D-*-W-C2	286	171	286	80	143	55	97	2.5
SU302D-*-W-C2	286	223	338	80	143	55	97	2.8
SU401D-*-W-C2	303	328	443	80	143	55	97	4.3
SU402D-*-W-C2	303	328	443	80	143	55	97	4.7

● Unit C3



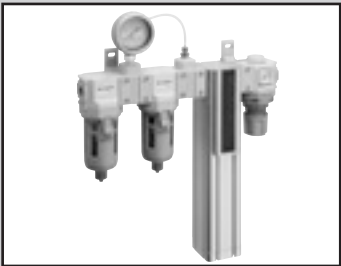
	A	B	C	D	E	F	G	Wt. (kg)
SU301D-*-W-C3	366	171	286	80	206	55	97	3.2
SU302D-*-W-C3	366	223	338	80	206	55	97	3.5
SU401D-*-W-C3	383	328	443	80	223	55	97	5.0
SU402D-*-W-C3	383	328	443	80	223	55	97	5.4

● SD300D/SD400D



	A	B	C	D	E	F	G	Wt. (kg)
SD301D-*-W	63	63	175	67	45	34.5	16.5	0.6
SD302D-*-W	63	63	245	67	45	34.5	16.5	0.9
SD401D-*-W	80	79	245	84	55	55	14	1.4
SD402D-*-W	80	79	315	84	55	55	14	1.8

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter 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 Cool
Air Flo Sens/Ctrl
WaterRiSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending



Super dryer combination

SU3000/SU4000-W Series

Easily and stably supplying ultra dry air.

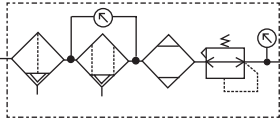
- Ultra dry air with atmospheric dew point -60°C is obtained just by piping to a pneumatic source.
- All in one unit with superior installability.
- Processing air flow rate: 35 to 1500 ℓ/min (ANR) (at 0.7 MPa and -40°C atmospheric dew point)



Specifications

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 (≈58 psi, 4 bar) to 1.0 (≈150 psi, 10 bar)										
Proof pressure MPa	1.5 (≈220 psi, 15 bar)										
Inlet air temperature °C	5 (41°F) to 50 (122°F)										
Ambient temperature °C	5 (41°F) to 50 (122°F)										
Outlet air atmospheric dew point °C	-20 (-4°F)					-40 (-40°F)					
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 °C	25 (77°F)										
Inlet air pressure MPa	0.7 (≈100 psi, 7 bar)										
Inlet air temperature °C	25 (77°F)										
Ambient temperature °C	25 (77°F)										
Air filter	Filtration rating μm	5									
Oil mist filter	Oil removal mg/m³	0.1 (approximately 0.1 ppm) (when the inlet air is 30°C)									
Regulator	Set pressure range MPa	0.05 (≈7.3 psi, 0.5 bar) to 0.85 (≈120 psi, 8.5 bar)									
	Relief pressure MPa	Setting pressure plus 0.05 (≈7.3 psi, 0.5 bar)									
Standard accessories		Pressure gauge/differential pressure gauge/bracket									

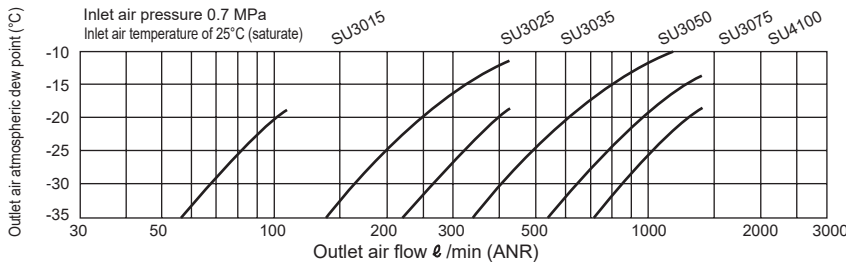
JIS symbol



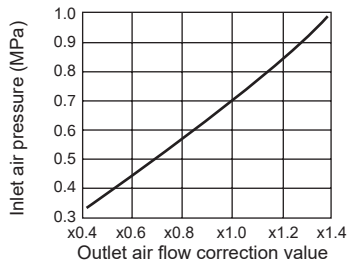
Dew point performance

Refer to page 1831 for selection guide and compensation method.

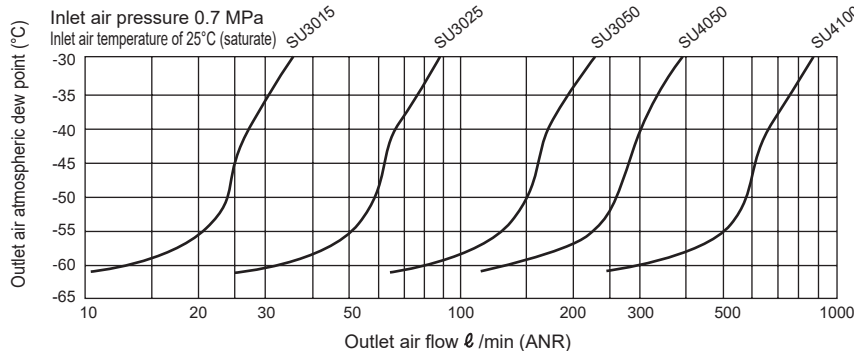
● Dew point performance curve (-20°C specifications)



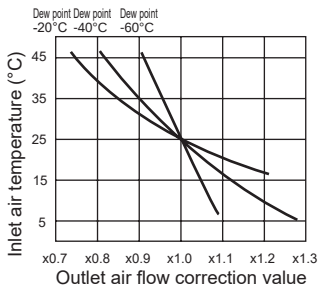
● Inlet pressure - outlet air flow rate correction curve



● Dew point performance curve (-40, -60°C specifications)



● Inlet temperature - outlet air flow rate correction curve



How to order

● Super dryer Combination

SU3015 - A 05 - W - E

A Model No.

B Outlet air atmospheric dew point

C Inlet air pressure

D Option
*6

Code	Description
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	
Blank	None
E	Common exhaust (*3)
X1	Reversed inlet and outlet (*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: Purge air from standard products is released into the atmosphere. If "E" is indicated, common exhaust of purge air is enabled. 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.

Specifications for rechargeable battery (Catalog No. CC-1226A)

- Design compatible with rechargeable battery manufacturing process

SU*000 - - P4*

Components

Components	(1) Air filter	(2) Oil mist filter	(3) Super dryer (High polymer membrane air dryer)	(4) Regulator	(5) Differential pressure gauge
Model No.					
SU3015-A-W	F3000-10-W-F	M3000-10-W-F1	SD3015-A	R3000-10-W	GA400-8-P02
SU3025-A-W	F4000-10-W-F	M4000-10-W-F1	SD3025-A	R4000-10-W	GA400-8-P02
SU3035-A-W	F4000-10-W-F	M4000-10-W-F1	SD3035-A	R4000-10-W	GA400-8-P02
SU3050-A-W	F4000-10-W-F	SM4000	SD3050-A	R4000-10-W	GA400-8-P02
SU3075-A-W	F4000-10-W-F	SM4000	SD3075-A	R4000-10-W	GA400-8-P02
SU4100-A-W	F4000-15-W-F	SM4000	SD4100-A	R4000-15-W	GA400-8-P02
SU3015-B-W	F3000-10-W-F	M3000-10-W-F1	SD3015-B	R3000-10-W	GA400-8-P02
SU3025-B-W	F3000-10-W-F	M3000-10-W-F1	SD3025-B	R3000-10-W	GA400-8-P02
SU3050-B-W	F4000-10-W-F	M4000-10-W-F1	SD3050-B	R4000-10-W	GA400-8-P02
SU4050-B-W	F4000-15-W-F	SM4000	SD4050-B	R4000-15-W	GA400-8-P02
SU4100-B-W	F4000-15-W-F	SM4000	SD4100-B	R4000-15-W	GA400-8-P02

*1: Oil mist filter (SM4000) is a made-to-order product.

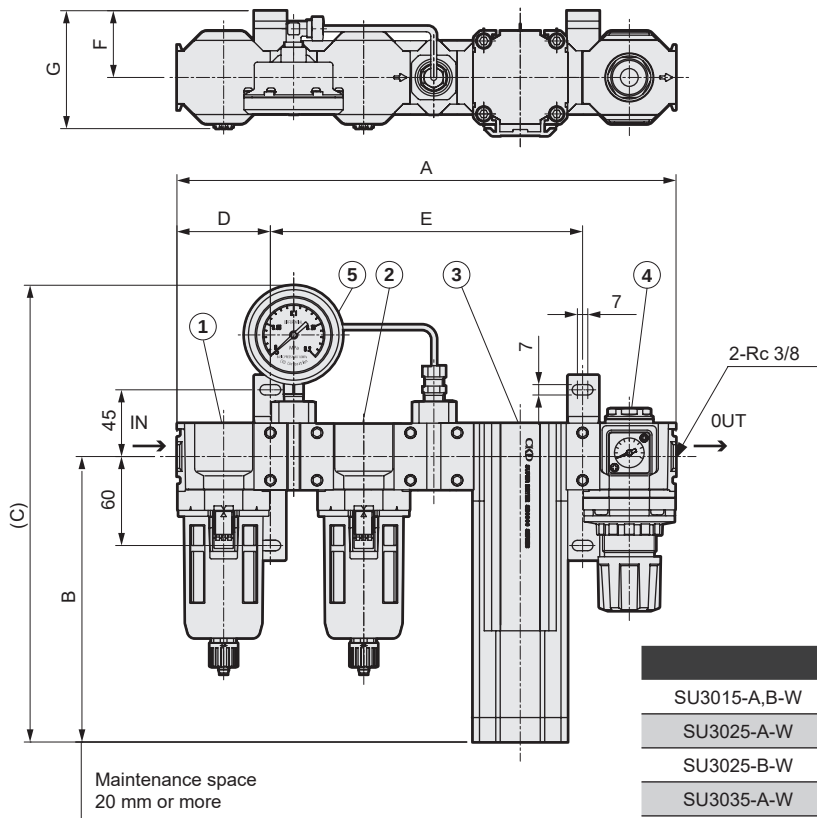
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma) Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

SU3000/SU4000-W Series



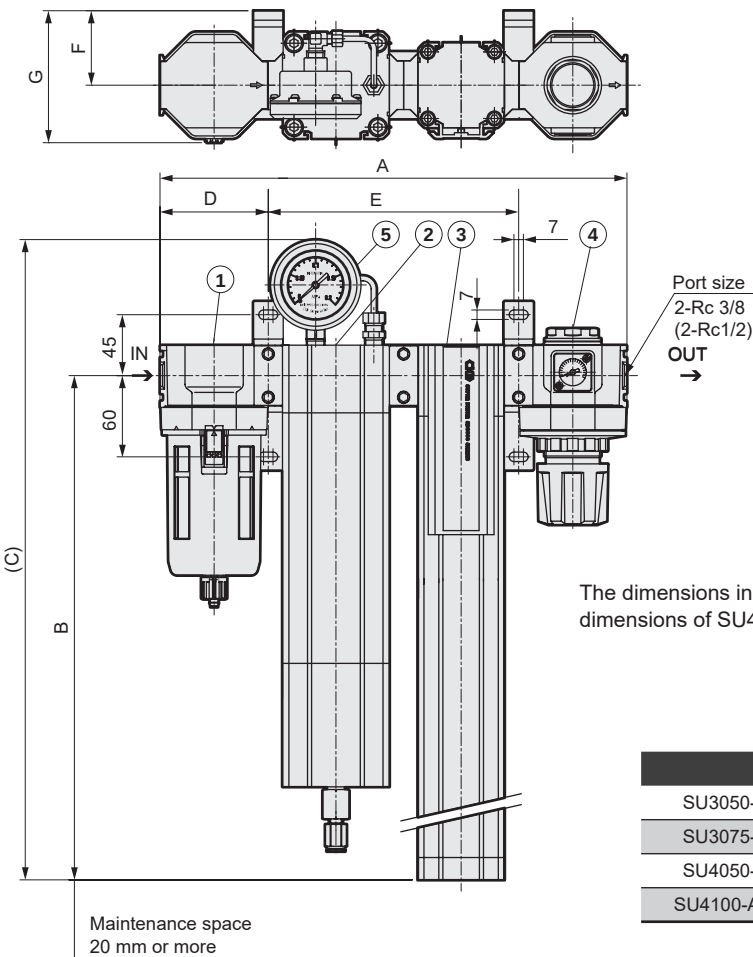
Dimensions

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



	A	B	C	D	E	F	G	Wt. (kg)
SU3015-A,B-W	337	193	308	63	211	45	85	3.3
SU3025-A-W	388	293	408	80	228	55	97	4.4
SU3025-B-W	337	293	408	63	211	45	85	3.7
SU3035-A-W	388	393	508	80	228	55	97	4.8
SU3050-B-W	388	543	658	80	228	55	97	5.3

● 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	Wt. (kg)
SU3050-A-W	345	543	644	80	185	55	97	7.7
SU3075-A-W	345	793	894	80	185	55	97	8.6
SU4050-B-W	360	543	644	80	200	55	106	9.0
SU4100-A,B-W	360	1043	1144	80	200	55	106	11.8



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.

■ Suitable for a wide range of applications with 1.5 MPa max. working pressure.

● Processing air flow rate: 35 to 890 ℓ/min (ANR) (at 0.7 MPa and -40°C atmospheric dew point)



Specifications

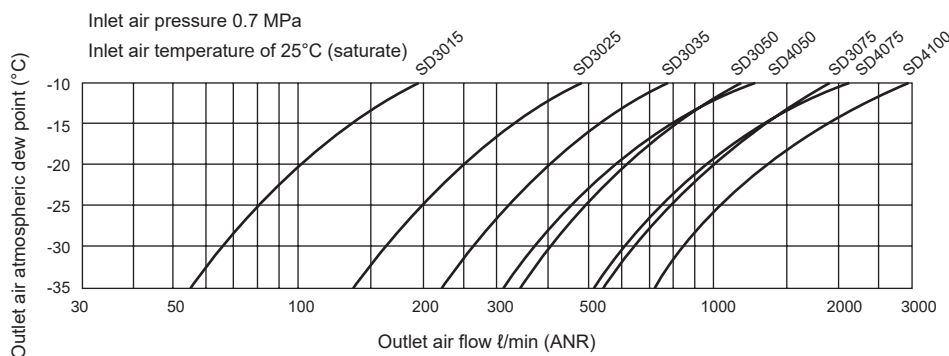
Item			SD3015	SD3025	SD3035	SD3050	SD3075	SD4050	SD4075	SD4100
Range of working conditions	Working fluid		Compressed air							
	Inlet air pressure MPa		0.4 (≈58 psi, 4 bar) to 1.5 (≈220 psi, 15 bar)							
	Proof pressure MPa		2.25 (≈330 psi, 22.5 bar)							
	Inlet air temperature °C		5 (41°F) to 50 (122°F)							
	Ambient temperature °C		5 (41°F) to 50 (122°F)							
Standard rating	Inlet air pressure dew point °C		25 (77°F)							
	Inlet air pressure MPa		0.7 (≈100 psi, 7 bar)							
	Inlet air temperature °C		25 (77°F)							
	Ambient temperature °C		25 (77°F)							
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 1831 for selection guide and compensation method.

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



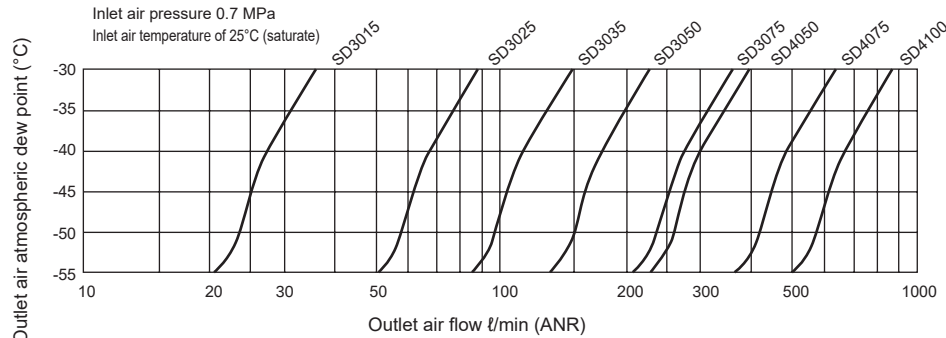
SD3000/SD4000 Series

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filt
Film Resist FR
Oil-Prohr
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter 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 Cool
Air Flo Sens/Ctrl
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

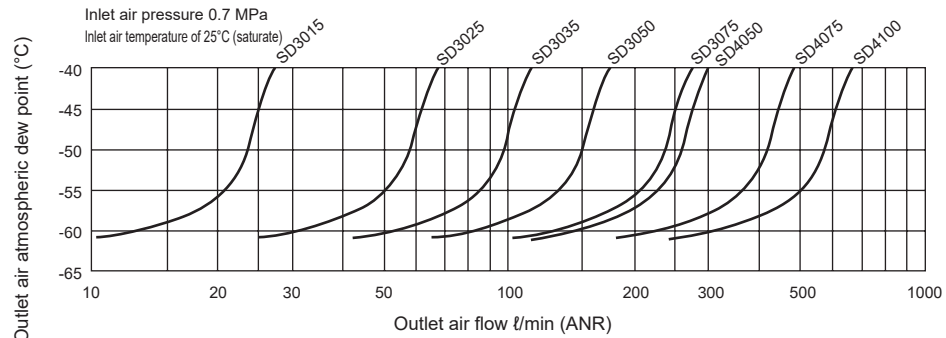
Dew point performance

Refer to page 1831 for selection guide and compensation method.

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



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



How to order

● Super dryer (High polymer membrane air dryer)

SD3015 - A 05 - B

A Model No.

B Outlet air atmospheric dew point

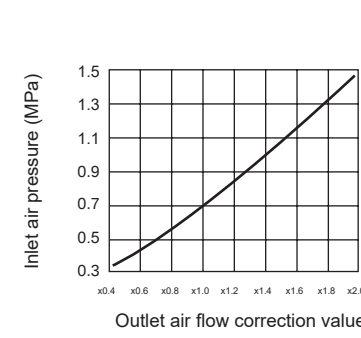
C Inlet air pressure

D Option

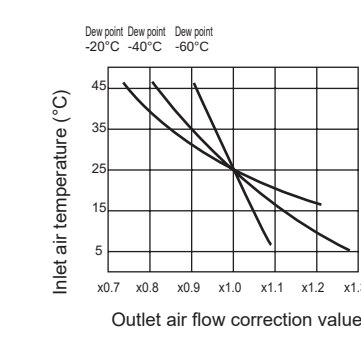
⚠ Precautions for model No. selection

- *1: Select 05 if the inlet air pressure is less than 0.7 MPa, and 07 if it is 0.7 MPa and over and less than 1.4 MPa.
- *2: 1.4 MPa inlet air pressure and -20°C outlet air atmospheric dew point cannot be selected at the same time. As the atmospheric dew point will be -14°C when the inlet air temperature is 25°C and the pressure is 1.4 MPa, there is no point in using the dryer. Select -40°C or -60°C.
- *3: Viewed from the front, a standard product has an air inlet on the left port, while an air outlet on the right port. For "X1", air inlet is provided on the right port, while air outlet is provided on the left port.
- *4: Purge air from standard products is released into the atmosphere. If "E" is indicated, common exhaust of purge air is enabled. Size of exhaust port is Rc1/2.
- *5: When ordering several options, indicate the required options in alphabetical order.

● Inlet pressure - outlet air flow rate correction curve



● Inlet temperature - outlet air flow rate correction curve



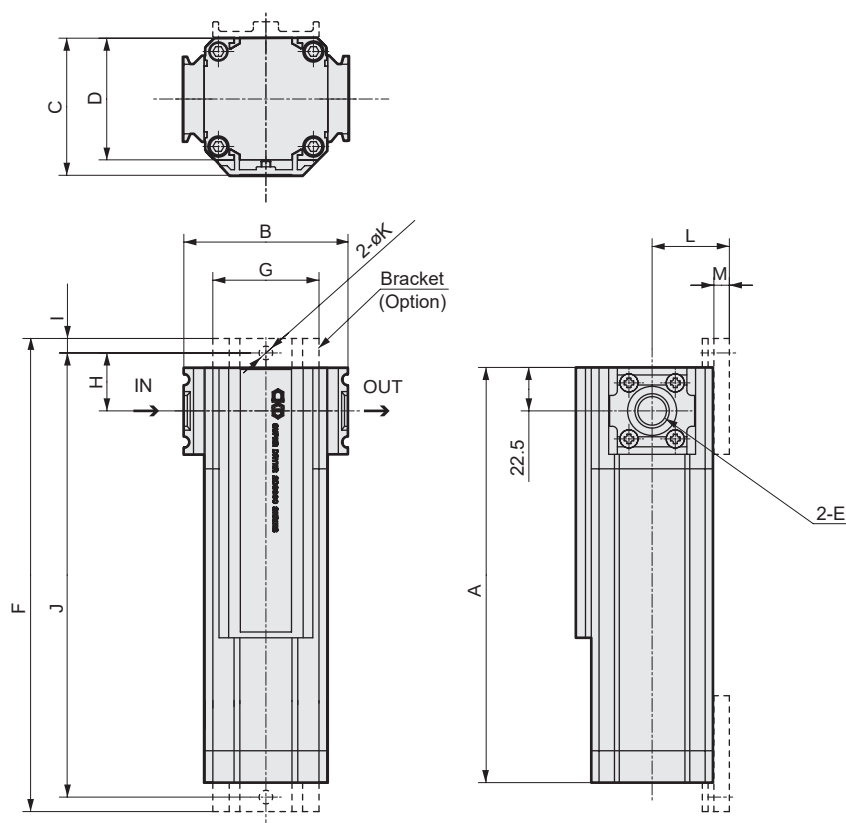
Code	Description
A Model No.	
SD3015	
SD3025	
SD3035	
SD3050	
SD3075	
SD4050	
SD4075	
SD4100	
B Outlet air atmospheric dew point	
A	-20°C
B	-40°C
C	-60°C
C Inlet air pressure	
05	0.5 MPa
07	0.7 MPa
14	1.4 MPa (N/A for outlet air atm dew point "A" (-20°C))
D Option	
Blank	None
B	With bracket
E	Common exhaust (*4)
X1	Reversed inlet and outlet (*3)

Specifications for rechargeable battery (Catalog No. CC-1226A)

- Design compatible with rechargeable battery manufacturing process

SD**** - - P4*

Dimensions



Model No.	A	B	C	D	E	Weight (kg)	Bracket relational dimensions							
							F	G	H	I	J	K	L	M
SD3015	215	85	71	63	Rc 3/8	1.4	245	55	30	7.5	230	7	40	8
SD3025	315	85	71	63	Rc 3/8	1.8	345	55	30	7.5	330	7	40	8
SD3035	415	85	71	63	Rc 3/8	2.2	445	55	30	7.5	430	7	40	8
SD3050	565	85	71	63	Rc 3/8	2.7	595	55	30	7.5	580	7	40	8
SD3075	815	85	71	63	Rc 3/8	3.6	845	55	30	7.5	830	7	40	8
SD4050	565	100	90	79	Rc 1/2	4.0	605	70	32.5	10	585	9	50	10
SD4075	815	100	90	79	Rc 1/2	5.4	855	70	32.5	10	835	9	50	10
SD4100	1065	100	90	79	Rc 1/2	6.8	1105	70	32.5	10	1085	9	50	10

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter 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 Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending



Super dryer modular series

SDM4000 Series

Large flow rate is achieved with polymer separation membrane.

- A single unit can support up to 75 kW compressor.
- Joined headers enable flexible expansion according to the use conditions.
- Suitable for area where explosion must strictly be prevented.
- Processing air flow rate: 1.36 to 12.4 m³/min. (ANR) (0.7 MPa, atmospheric dew point -20°C)

Specifications

Item	SDM 4050-2	SDM 4050-3	SDM 4075-2	SDM 4075-3	SDM 4100-2	SDM 4100-3	SDM 4050-6	SDM 4050-8	SDM 4050-10	SDM 4075-6	SDM 4075-8	SDM 4075-10	SDM 4100-6	SDM 4100-8
Working fluid	Compressed air													
Inlet air pressure MPa	0.4 (≈58 psi, 4 bar) to 1.5 (≈220 psi, 15 bar)													
Proof pressure MPa	2.25 (≈330 psi, 22.5 bar)													
Inlet air temperature °C	5 (41°F) to 50 (122°F)													
Ambient temperature °C	5 (41°F) to 50 (122°F)													
Outlet air atmospheric dew point °C	-20 (-4°F)													
Inlet air flow rate m ³ /min(ANR)	1.36	2.04	2.20	3.30	3.00	4.50	4.08	5.44	6.80	6.60	8.80	11.00	9.20	12.40
Outlet air flow m ³ /min(ANR)	1.14	1.71	1.86	2.79	2.52	3.78	3.42	4.56	5.70	5.58	7.44	9.30	7.76	10.48
Purge flow rate m ³ /min(ANR)	0.22	0.33	0.34	0.51	0.48	0.72	0.66	0.88	1.10	1.02	1.36	1.70	1.44	1.92
Inlet air pressure dew point °C	25 (77°F)													
Inlet air pressure MPa	0.7 (≈100 psi, 7 bar)													
Inlet air temperature °C	25 (77°F)													
Ambient temperature °C	25 (77°F)													

Note: The product will be floor-mounted for 6 stations or more.

JIS symbol



How to order

- Super dryer (High polymer membrane air dryer)

SDM4050 - 2 - A 05 - B

A Model No.

B Station No.

C Outlet air atmospheric dew point

D Inlet air pressure

*1

*2

E Option

*3

Code	Description
A Model No.	
SDM4050	
SDM4075	
SDM4100	
B Station No.	
2	2 stations
3	3 stations
6	6 stations
8	8 stations
10	10 stations (not available for SDM4100)
C Outlet air atmospheric dew point	
A	-20°C
B	-40°C
C	-60°C
D Inlet air pressure	
05	0.5 MPa
07	0.7 MPa
14	1.4 MPa (N/A for outlet air atm dew point "A" (-20°C))
E Option	
Blank	None
B	With bracket

⚠ Precautions for model No. selection

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

*2: 1.4 MPa inlet air pressure and -20°C outlet air atmospheric dew point cannot be selected at the same time.

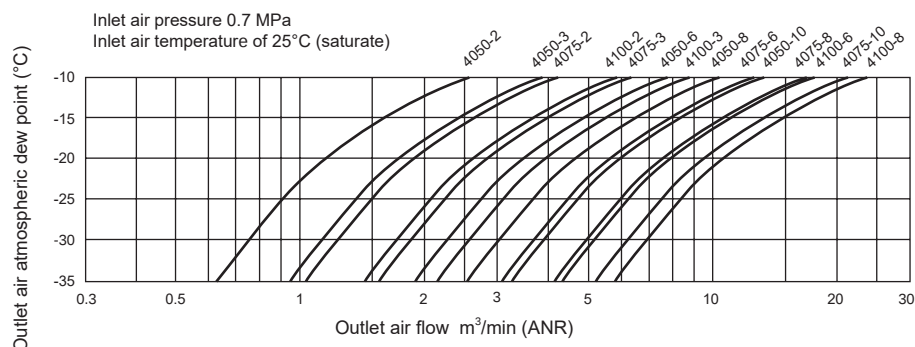
As the atmospheric dew point will be -14°C when the inlet air temperature is 25°C and the pressure is 1.4 MPa, there is no point in using the dryer. Select -40°C or -60°C.

*3: The product will be floor-mounted without bracket for 6 stations or more.

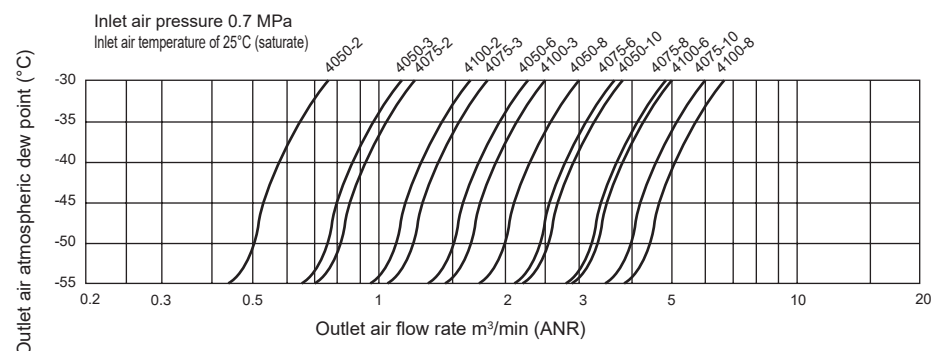
Dew point performance

Refer to page 1831 for selection guide and compensation method.

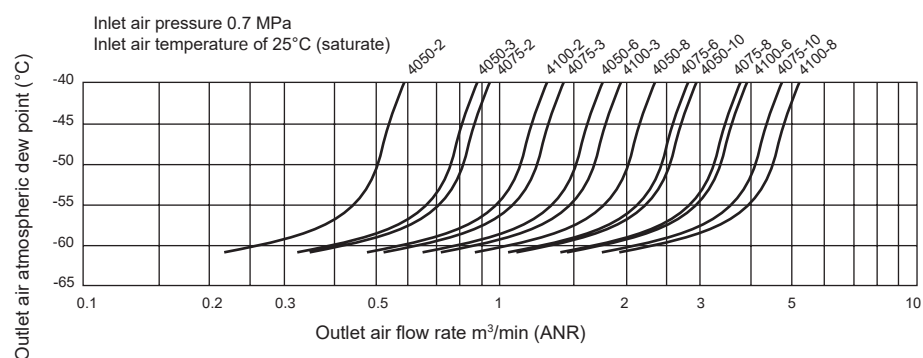
● Dew point performance curve (-20°C specifications)



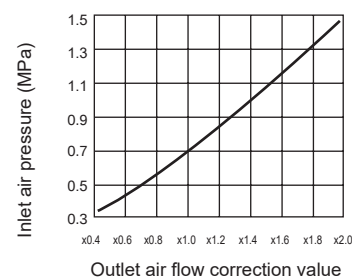
● Dew point performance curve (-40°C specifications)



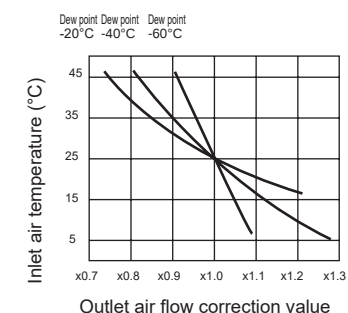
● Dew point performance curve (-60°C specifications)



● Inlet pressure - outlet air flow rate correction curve



● Inlet temperature - outlet air flow rate correction curve



Selection guide by compressor capacity

		Inlet air pressure 0.7 MPa Inlet air temperature of 25°C (saturate)								
Compatible compressor kw		3.7	5.5	7.5	11	15	22	37	55	75
Atm dew point										
-20°C	Model No.			SDM4050-2-A07	SDM4075-2-A07	SDM4075-3-A07	SDM4050-6-A07	SDM4075-6-A07	SDM4100-6-A07	SDM4100-8-A07
	Inlet air flow rate			1.36	2.20	3.30	4.08	6.60	9.20	12.40
	Outlet air flow			1.14	1.86	2.79	3.42	5.58	7.76	10.48
-40°C	Model No.		SDM4050-2-B07	SDM4075-2-B07	SDM4075-3-B07	SDM4100-3-B07	SDM4075-6-B07	SDM4075-10-B07		
	Inlet air flow rate		0.82	1.30	1.95	2.67	3.90	6.50		
	Outlet air flow		0.60	0.96	1.44	1.95	2.88	4.80		
-60°C	Model No.	SDM4050-2-C07	SDM4075-2-C07	SDM4075-3-C07	SDM4100-3-C07	SDM4075-8-C07	SDM4075-10-C07			
	Inlet air flow rate	0.50	0.76	1.14	1.65	3.04	3.80			
	Outlet air flow	0.28	0.42	0.63	0.93	1.68	2.10			

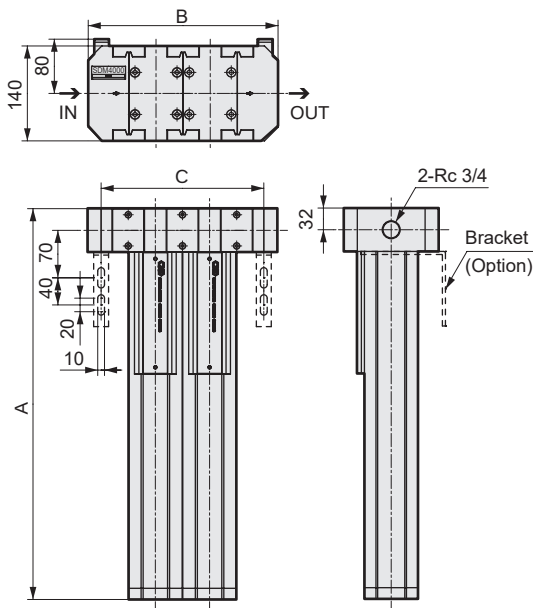
With different flow rate and conditions, select the model based on the dew point performance curve above according to the required outlet air flow rate.

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
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
Cool
Air Flo
Sens/Ctrl
WaterRISens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

SDM4000 Series

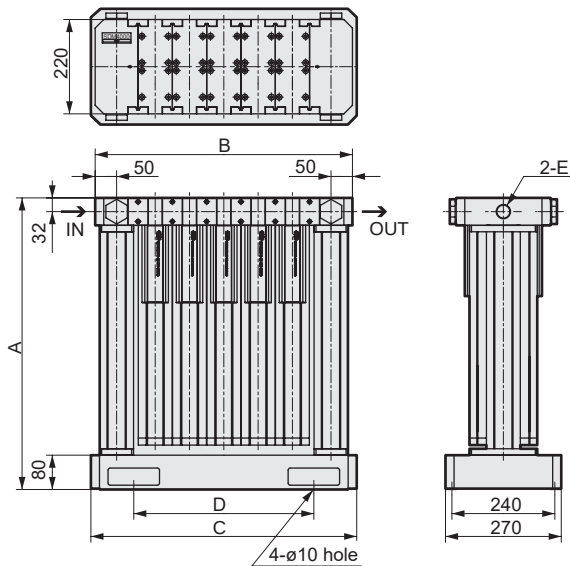
F.R.L. Dimensions

F.R. ● 2/3 stations



Model No.	A	B	C	Weight (kg)
SDM4050-2	577	280	240	12
SDM4050-3	577	360	320	17
SDM4075-2	827	280	240	15
SDM4075-3	827	360	320	21
SDM4100-2	1077	280	240	18
SDM4100-3	1077	360	320	25

● 6/8/10 stations



Model No.	A	B	C	D	E	Weight (kg)
SDM4050-6	680	440	460	260	Rc1	41
SDM4050-8	680	520	540	340	Rc1	50
SDM4050-10	680	600	620	420	Rc1	59
SDM4075-6	930	440	460	260	Rc1 1/2	52
SDM4075-8	930	520	540	340	Rc1 1/2	64
SDM4075-10	930	600	620	420	Rc1 1/2	76
SDM4100-6	1180	440	460	260	Rc1 1/2	63
SDM4100-8	1180	520	540	340	Rc1 1/2	78

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 (saturate). 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.

(Rated outlet air flow rate) x (correction value) = (conditional outlet air flow rate)

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.

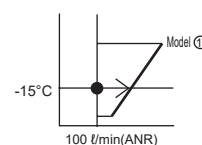
Purge flow rate

The purge flow rate is shown in the specifications.

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. The purge flow rate when the inlet air pressure differs from the rated, The rated purge flow rate is multiplied by the compensation value shown on the right.

(Example) Required dew point of -15°C

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

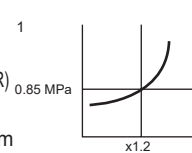


(Example) Inlet pressure of 0.85 MPa

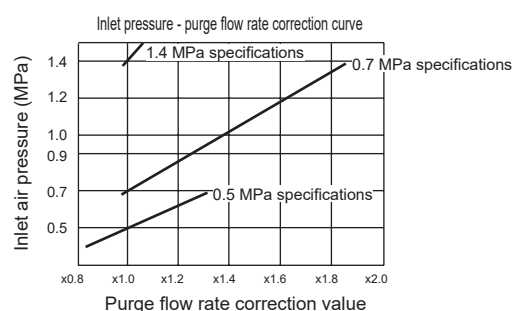
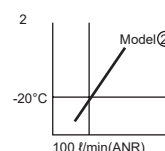
Required dew point of -20°C

When the required flow rate is 120 l/min (ANR)

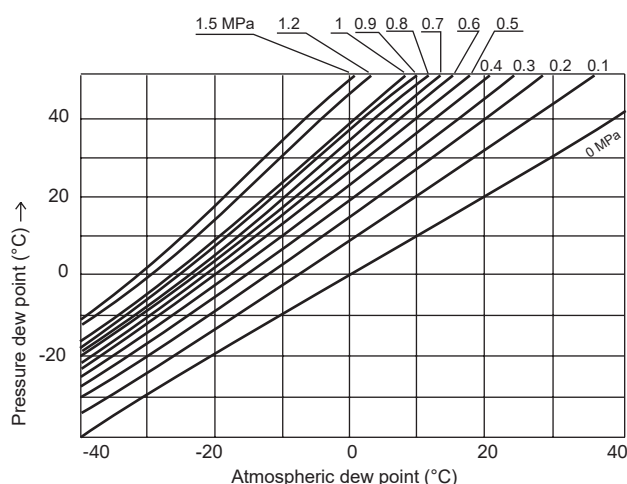
1. Obtain compensation (in this case 1.2) from the pressure flow rate compensation curve.



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.

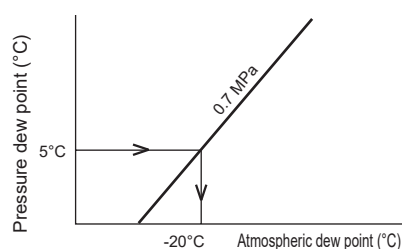


Pressure dew point - atmospheric dew point conversion table



Reading pressure dew point - atmospheric dew point conversion table

This table, The pressure dew point at each pressure is converted to the atmospheric dew point, or to convert the atmospheric dew point to a pressure dew point. 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

When selecting the super dryer model, If the working air flow rate is unknown, measure the flow rate. Pneumatic flow rate sensor with integrated display, peak display, peak value hold, and analog output is used for flow rate measurement "FLUEREX Flow Sensor Tester Kit" is convenient.

● FLUEREX Flow Sensor Tester Kit FLUEREX PFK SERIES



F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdris FRL
Adapter 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 Cool
Air Flo Sens/Ctrl
WaterRiSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending