

Single Unit/Standard Dew Point -40°C Specifications

How to Order

IDG 50 L - 03 -

Flow rate by size

Size	Outlet air flow rate ℓ /min	Purge air flow rate (ANR)
30	75/25	
50	110/40	
60	170/57	
75	240/80	
100	300/100	

Option

Symbol	Contents
Nil	None (Standard)
P	With fitting for purge air discharge
R	Flow direction (Right → Left)

Note) In the case of two or more options, indicate them alphabetically.

Standard dew point temperature

Symbol	Standard dew point (°C)
L	-40

Accessory

Symbol	Description
Nil	None (Standard)
B	With bracket

Note) When symbol B is indicated, a bracket assembly with a part number shown in the table left below is included as an accessory.

Thread type

Symbol	Type
Nil	Rc
N	NPT
F	G

Port size

Symbol	Bore	Size				
		30	50	60	75	100
02	1/4	●	●	—	—	—
03	3/8	●	●	●	●	●
04	1/2	—	—	●	●	●

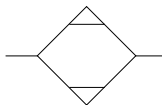


IDG30L



IDG60L

JIS Symbol



Bracket Assembly (Accessory) Part No.

Part no.	Applicable model
BM64	IDG30L, 50L
BM65	IDG60L, 75L, 100L

* With cap bolts (2 pcs.) and spring washers (2 pcs.)

Standard Specifications/Single Unit Type (Standard dew point: -40°C)

Model		Standard dew point: -40°C				
		IDG30L	IDG50L	IDG60L	IDG75L	IDG100L
Range of operating conditions	Fluid	Compressed air				
	Inlet air pressure (MPa)	0.3 to 1.0				
	Inlet air temperature (°C) ⁽¹⁾	-5 to 50				
	Ambient temperature (°C) ⁽¹⁾	-5 to 50				
Standard performance	Outlet air atmospheric pressure dew point (°C)	-40 ⁽²⁾				
Standard performance conditions	Inlet air flow rate (ℓ /min (ANR)) ⁽³⁾	100	150	227	320	400
	Outlet air flow rate (ℓ /min (ANR))	75	110	170	240	300
	Purge air flow rate (ℓ /min (ANR)) ⁽⁴⁾	25	40	57	80	100
	Inlet air pressure (MPa)	0.7				
	Inlet air temperature (°C)	25				
	Inlet air saturation temperature (°C)	25				
	Ambient temperature (°C)	25				
Dew point indicator purge air flow rate		1 ℓ /min (ANR) {In the case of Inlet air pressure 0.7 MPa}				
Port size (Nominal size B)		1/4, 3/8		3/8, 1/2		
Mass (kg) (With bracket)		0.74 (0.87)	0.77 (0.90)	1.50 (1.65)	1.65 (1.80)	1.80 (1.95)

Note 1) No freezing.

Note 2) Refer to the Piping Precautions (Piping material for low dew point air) on page 139.

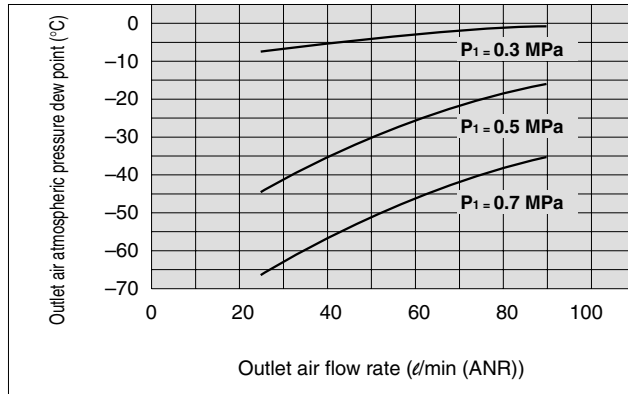
Note 3) ANR indicates the flow rate converted to the value at 20°C under the atmospheric pressure and the state of relative humidity 65%.

Note 4) Includes 1 ℓ /min (ANR) of purge air flow (at 0.7 MPa inlet air pressure) for the dew point indicator.

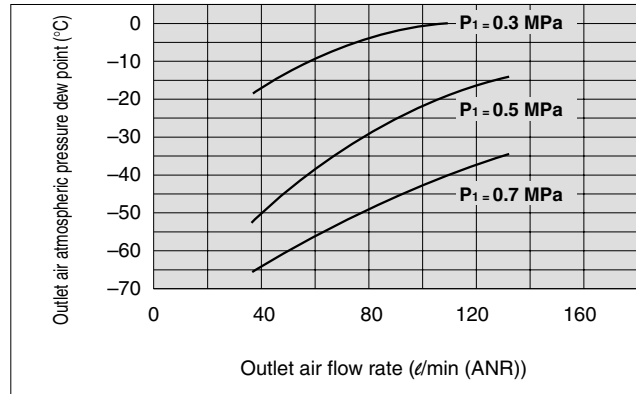
Performance Chart

Conditions: Inlet air temperature 25°C (saturated air), Ambient temperature 25°C P₁: Inlet air pressure, Tube for purge air discharge (Option: P): None
Product groups inside parentheses in the graph are classification symbols for selecting a model. (Refer to page 93.)

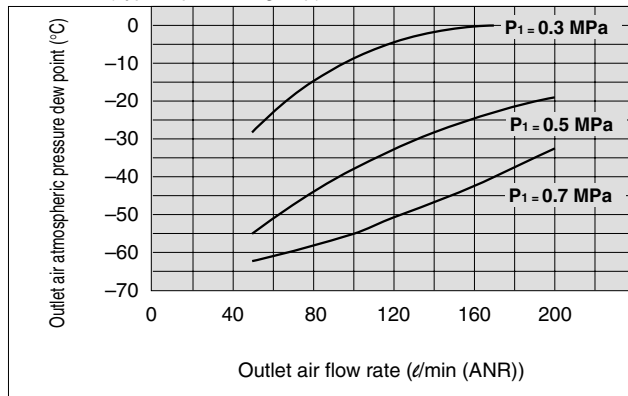
IDG30L (Type B products group)



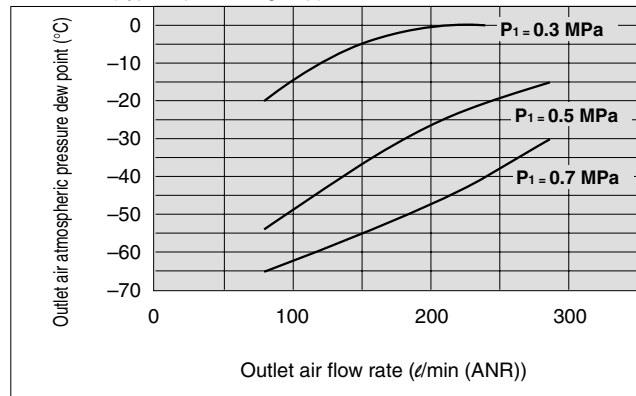
IDG50L (Type B products group)



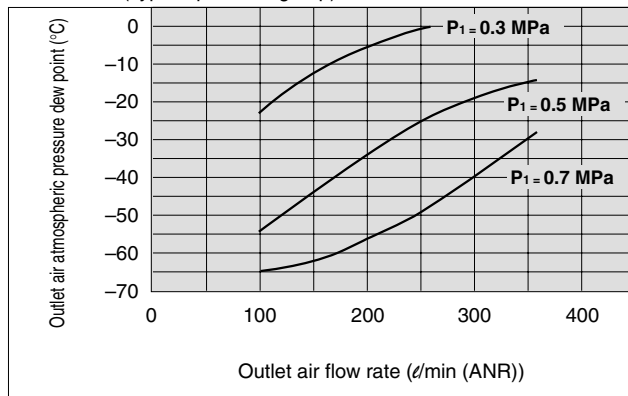
IDG60L (Type B products group)



IDG75L (Type B products group)



IDG100L (Type B products group)



With fitting for purge air discharge (Option: P)

As the length of tubing for purge air discharge becomes longer, the outlet air atmospheric pressure dew point becomes higher. Refer to the table below.

Outlet Air at the Atmospheric Pressure Dew point in Compliance with the Tube Length for Discharging the Purged Air (°C)

Tube length	Model	IDG30L	IDG50L
0 m			-40
1 m			-39
3 m			-38
5 m			-38

Note) In cases other than above model numbers, if the tube length is 5 m or less, an increase of the outlet air at the atmospheric pressure dew point will be 1°C or less. Refer to the Precautions on page 139 when piping the tube for purge air discharge.

Construction

Refer to pages 110 and 111.

Dimensions

Refer to pages 112 and 113.

HAA
HAW

AT

IDF
IDU

IDFA

IDFB

ID

IDG

AMG

AFF

AM

AMD

AMH

AME

AMF

SF

SFD

LLB

AD□

GD

■ Conditions

- Inlet air temperature : 25°C (Saturated)
- Ambient temperature : 25°C
- Inlet air pressure : 0.7 MPa
- Outlet air flow rate : Flow gained under conditions of the standard performance.(Refer to page 106.)
- Tubing size (O.D. x I.D.) mm: ø12 x ø9