

## Membrane Air Dryer Series IDG30□A/50□A



RoHS

New

The body color:  
 White

Single unit

Power supply not required    Compatible with low dew points    Non-fluorocarbon

### ● Energy saving design

Running cost reduced by **31%**! (compared to existing models)

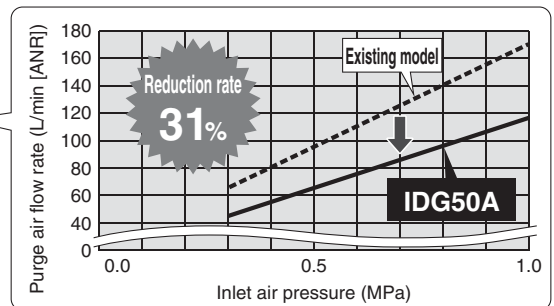
Annual costs reduced by up to **21,060** yen for each machine!

Comparison of the purge air flow rate (rated conditions) with existing models

Model	Running cost Difference: yen/year	Purge air flow rate (L/min [ANR])		
		New	Existing model	Reduction rate
IDG30□	8,100	60	75	20%
IDG50□	21,060	86	125	31%
IDG30H□	3,240	29	35	17%
IDG50H□	5,400	50	60	17%
IDG30L□	3,780	18	25	28%
IDG50L□	8,100	25	40	38%

[Calculation Conditions]

Air unit price: 3 yen/m<sup>3</sup>    Operating hours: 12 hours/day    Annual operating days: 250 days/year



### Single Unit Type    Unit Type



#### <Type M>

When dry clean air is required

Mist separator

+

Micro mist separator

+

IDG



#### <Type V>

When dry clean air and pressure control are required

Mist separator

+

Micro mist separator

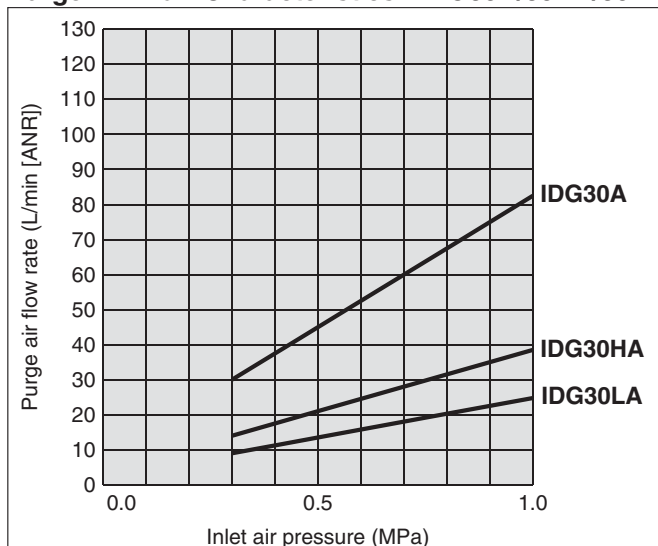
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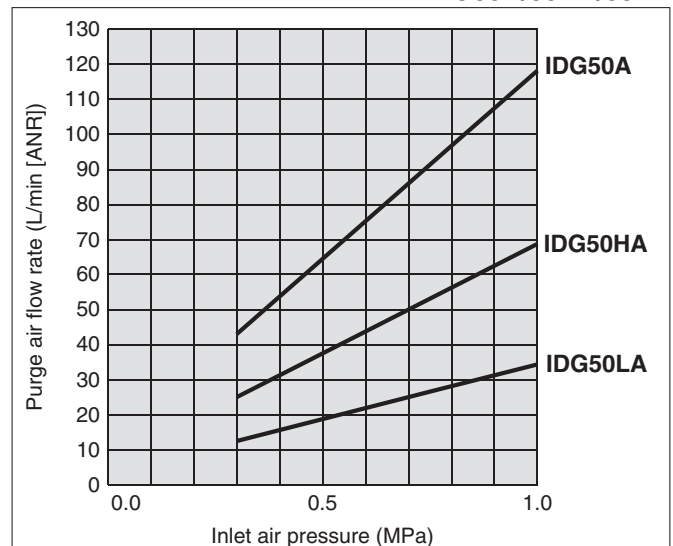
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Regulator

### Purge Air Flow Characteristics IDG30A/30HA/30LA



### IDG50A/50HA/50LA



# Membrane Air Dryer

RoHS

# Series IDG30□A/50□A

## How to Order

**IDG 30 L A - 03 -**

**Flow rate by size**

Size	Standard dew point	Flow rate	
		Outlet air flow rate L/min [ANR]	Purge air flow rate L/min [ANR]
30	-20°C	300/60	
	-15°C (-H)	300/29	
	-40°C (-L)	75/18	
50	-20°C	500/86	
	-15°C (-H)	500/50	
	-40°C (-L)	110/25	

**Standard dew point temperature**

Symbol	Standard dew point (°C)
Nil	-20
H	-15
L	-40

**Option**

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

**Thread type**

Symbol	Type
Nil	Rc
N	NPT
F	G

**Port size**

Symbol	Port size
02	1/4
03	3/8

**Accessory**

Symbol	Description
Nil	None (Standard)
B	With bracket

## Standard Specifications/Single Unit Type

Model		Specifications					
		IDG30A	IDG50A	IDG30HA	IDG50HA	IDG30LA	IDG50LA
Range of operating conditions	Fluid	Compressed air					
	Inlet air pressure (MPa)	0.3 to 1.0					
	Inlet air temperature (°C) <small>Note 1)</small>	-5 to 50					
	Ambient temperature (°C) <small>Note 1)</small>	-5 to 50					
Rated performance	Outlet air atmospheric pressure dew point (°C)	-20		-15		-40	
	Inlet air flow rate (L/min [ANR]) <small>Note 2)</small>	360	586	329	550	93	135
Rated conditions	Outlet air flow rate (L/min [ANR])	300	500	300	500	75	110
	Purge air flow rate (L/min [ANR])	60	86	29	50	18	25
	Purge rate (%)	17	15	9	9	15	14
	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		1/4, 3/8					
Weight (kg) (With bracket)		0.78 (0.91)	0.81 (0.94)	0.78 (0.91)	0.81 (0.94)	0.78 (0.91)	0.81 (0.94)

Note 1) No freezing.

Note 2) ANR indicates the flow rate converted to the value at 20°C under the atmospheric pressure and the state of relative humidity 65%.

## Dimensions

**With fitting for purge air discharge (Option: P)**

Model	Port size L	B	D	Option: P	
				G	H
IDG30A, 30HA, 30LA	1/4	291	269	361	302
IDG50A, 50HA, 50LA	3/8	330	308	400	341

**Units (Type M, Type V)**

**How to Order**

**IDG 30 □ A M 3 - □ 03 □ - □**

Size ●

30
50

**Standard dew point temperature and air flow rate ●**

Symbol	Standard dew point (°C)	Flow rate by size	
		30	50
Nil	-20	300/60	500/86
H	-15	300/29	500/50
L	-40	75/18	110/25

**Component equipment ●**

Symbol	Contents	Description Model	Mist separator	Micro mist separator	Membrane air dryer	Note)
						Regulator
M	With separator	IDG30□A/50□A	●	●	●	—
			●	●	●	—
			●	●	●	—
V	With separator regulator		●	●	●	●
			●	●	●	●
			●	●	●	●
Component equipment	Mist separator	<b>AFM40</b>				
	Micro mist separator	<b>AFD40</b>				
	Regulator	<b>AR40</b>				
	Spacer	<b>Y400 (T)</b>				

\* For specifications of component equipment, refer to pages 338 to 355 in Best Pneumatics No. 5.

Note) Specifications with micro mist separator is also available. Refer to "Made to Order Specifications" on page 134 in Best Pneumatics No. 5.

**Thread type ●**

Symbol	Type
Nil	Rc
N	NPT
F	G

**Port size ●**

Symbol	Port size
02	1/4
03	3/8

**Drain discharge method ●  
(Mist separator, Micro mist separator)**

Symbol	Drain discharge method	Note
Nil	Manual valve	Combination with option P is not available.
C	N.C. auto-drain	—
D	N.O. auto-drain	—
J	Drain guide (Port size 1/4 without valve)	—

**Option \* ●**

Symbol	Contents	Note
Nil	Standard	—
P	With fitting for purge air discharge	<ul style="list-style-type: none"> <li>• Drain discharge: Combination with standard type (Nil) is not available.</li> <li>• Combination with type V is not available. (Note)</li> <li>• With dew point indicator (Standard equipment)</li> </ul>
R	Flow direction (Right → Left)	—

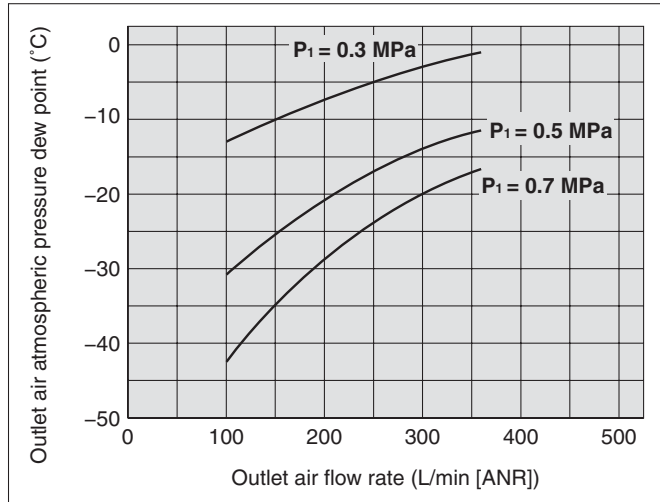
\* In the case of two or more options, indicate them alphabetically.

Note) Type V is not applicable because it is equipped with a relief type regulator. (Symbol P is used when it is undesirable for the air to be discharged into the main body of IDG. Therefore, it is not possible to use it in combination with a separator with manual valve, which discharges air around it, or type V with a relief type regulator.)

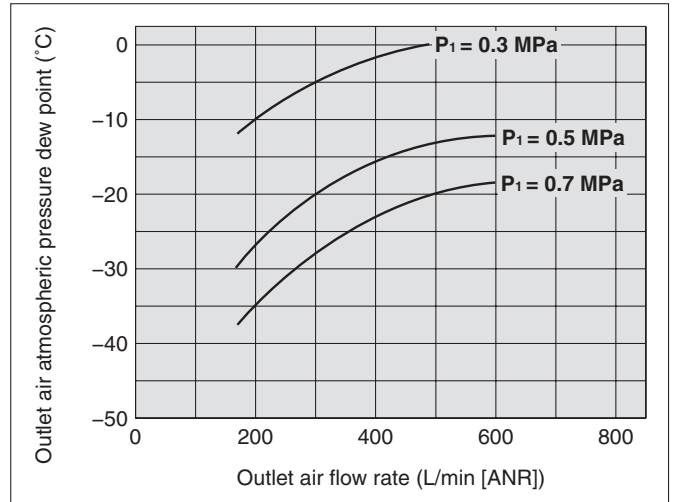
# Series IDG30□A/50□A

## Flow Characteristics

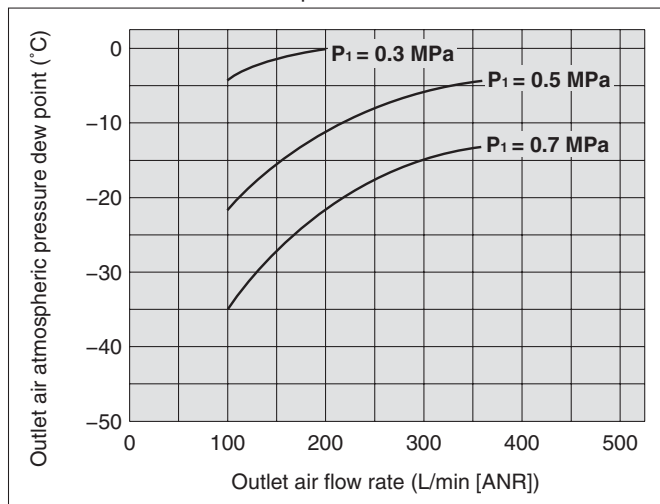
**IDG30A** Standard dew point:  $-20^{\circ}\text{C}$



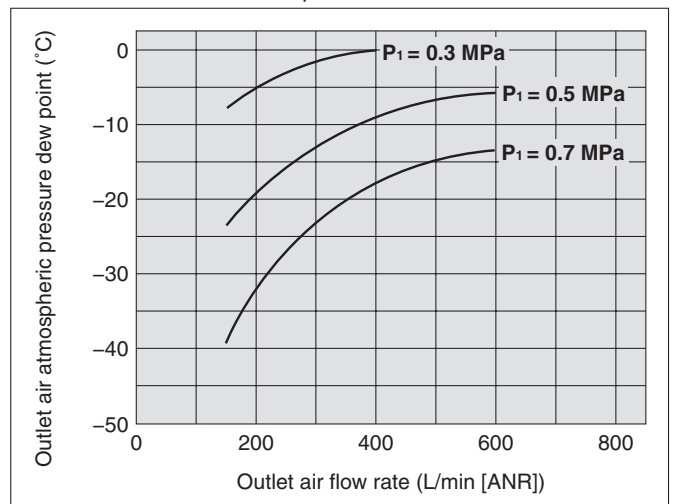
**IDG50A** Standard dew point:  $-20^{\circ}\text{C}$



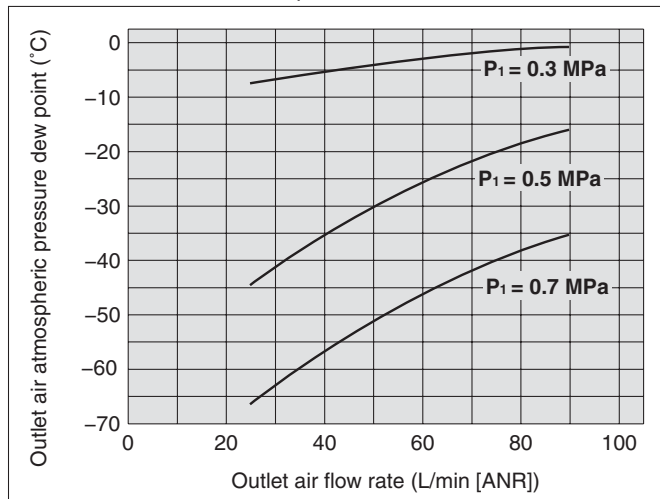
**IDG30HA** Standard dew point:  $-15^{\circ}\text{C}$



**IDG50HA** Standard dew point:  $-15^{\circ}\text{C}$



**IDG30LA** Standard dew point:  $-40^{\circ}\text{C}$



**IDG50LA** Standard dew point:  $-40^{\circ}\text{C}$

