# Water Separator

The AMG series water separator is installed on the air pressure line to remove water drops in the compressed air. It is suitable for use in cases where "water must be removed, but the air does not have to be as dry as when an air dryer is used" or "an air dryer cannot be used because an electric power supply is not available".

Through the adoption of an element that is used exclusively for removing water drops and the provision of ample housing interior space, a 99%\* water removal rate\*\* has been achieved.

## ▲ Caution

Water separator can remove water droplets, but it cannot remove moisture.

#### \*Condition of inlet air

Pressure: 0.7MPa Temperature: 25°C Relative humidity: 100% Liquid water content (Water droplet content): 1.5g/m<sup>3</sup> (ANR) Compressed air flow: Rated flow of each model

\*\*Removed rate of water % = <u>Removed water (Water droplet) g</u> x 100 Inflowed water (Water droplet) g

#### Various equipment for drain discharge



Symbol



#### Model

model							
Model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Flow rate ( <i>t</i> /min (ANR)) <sup>(1)</sup>	300	750	1500	2200	3500	6000	12000
Port size (Nominal size B)	1/8, 1/4, 3/8	1/4, 3/8, 1/2	3/8, 1/2, 3/4	1/2, 3/4, 1	<sup>3</sup> /4, 1	1, 1 <sup>1</sup> /2	1 <sup>1</sup> /2, 2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note 1) Max. flow is at 0.7MPa.

Max. flow depends on operating pressure. Please refer to p.4.4-2 for flow rate and to p.4.4-3 for graph of max. flow.

#### **Specifications**

Fluid	Compressed air
Max. operating pressure	1.0MP
Min. operating pressure*	0.05MPa
Proof pressure	1.5MPa
Ambient/Fluid temperature	5 to 60°C
Removal rate of water	99%
Element life	2 years or when pressure drop reaches 0.1MPa
*With N.O. auto drain: 0.15MPa	÷

#### **Accessories (Options)**

(		- /					
Applicable model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Bracket assembly (With cap bolt With spring washer)	BM51	BM52	BM53	BM54	BM55	BM56	BM57

#### How to Order



Option		© Available				■Not available							
Accessories/Optional specification								Applicable model					
Accessone	es/Optional specifica	alion	С	D	J	R	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Accessories	N.C. auto drain	С				0	0	0	0	0	0		
ALLESSUIRS	N.O. auto drain	D				0	O	O	0	0	0	O	O
Options	Drain guide 1/4 B	-J				0	0	O	0	0	0	0	
	IN-OUT reverse direction	-R	0	0	0		0	0	0	0	0	0	0

HA

### Water Separator Series AMG

#### Construction



Nie		Matavial		Part No.						
No.	Description	Material	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850	
4	Element assembly	Resin NBR	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850	
. \ \ / ! +	In the state of the Aller of th	<b>A</b> and an an								

\* With gasket, With O ring



#### How to Select Model

Follow the procedure given below to select the model in accordance with the inlet pressure and maximum air flow rate requirements.

(Example) Inlet pressure Inlet pressure : 0.6 MPa Maximum air flow rate: 5m³/min (ANR)

 ①Using the "Max. air flow", find point A, at which the input pressure and the maximum air flow rate intersect.
②To select one with the maximum air flow rate line that is located above the obtained intersecting point A, the model will be AMG650.



Note) Make sure to select a model with the maximum air flow rate line that is located above the obtained intersection point. A model with the maximum air flow rate line that is located below the obtained intersection point will have an excess flow rate, and will not satisfy the specifications.

AT
ID□
AMG
AFF
AM□
Related products

HA

## Series AMG





3.2

3.2

4.5

4.5

	AMG250 SAM, #2	AMG650 SAM, #5
CAD	AMG350 SAM, #3	AMG650 SAM, #6

1/2, 3/4

3/4, 1

AMG450

AMG550

## Water Separator Series AMG





AT

AM□

## Series AMG Made to Order Specifications

Order Made

Consult SMC for detailed specifications, size and delivery.



Dimensions

