# Water Separator AMG Series



Can remove water droplets in compressed air. Use this product in cases where "water must be avoided, but not so dry as when an air dryer is used".

Through the adoption of a dedicated element and the ample housing interior space, a 99%\* water removal rate\*\* has been achieved.

# **∧** Caution

model

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

- Condition of inlet air
  Pressure: 0.7 MPa
  Temperature: 25°C
  Relative humidity: 100%
  Liquid water content (Water droplet content): 15 g/m³ (ANR)
  Compressed air flow: Rated flow of each
- \*\* Water removal rate (%) =

  Removed water (Water droplet) (g)
  Inflowed water (Water droplet) (q)

  x 10

# Modular connection is possible with AMG150C to 550C. (For details, refer to page 266.)



AMG150C to 550C AMG650/850



(Drain cock specifications) (Auto drain specifications)



#### Model

Model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
Note) Rated flow (L/min (ANR))	300	750	1500	2200	3700	6000	12000
Port size	1/8, 1/4	1/4, 3/8	3/8, 1/2	1/2, 3/4	3/4, 1	1,1 1/2	11/2, 2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note) Max. flow capacity at 0.7 MPa.

Max. flow capacity varies depending on the operating pressure. Refer to "Flow Rate Characteristics" (page 210) and "Maximum Flow Capacity Line" (page 211).

## **Specifications**

Openinations	
Fluid	Compressed air
Max. operating pressure	1.0 MPa
Min. operating pressure*	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Water removal rate	99%
Element replacement period	2 years or when pressure drop reached 0.1 MPa

<sup>\*</sup> With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

#### Accessory Part No.

Applicable model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57
(with 2 mounting screws)							1

# **↑** Caution

Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

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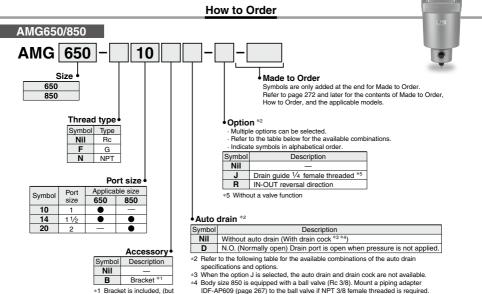
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# Water Separator AMG Series



Auto Drain Specifications/Option Combinations

: Not available : Not available option | Applicable model

Auto drain angoifi	Auto drain specifications	Option		Applicable model			
Auto drain specifications/Option			D	J	R	AMG650	AMG850
Auto drain specifications	N.O. auto drain	D			0	0	0
	Drain guide 1/4	J			0	0	
Option	IN-OUT reversal direction	R	0	0		0	0

**Options** 

# Symbol J: Drain guide 1/4 female threaded

not assembled)



## Symbol R: IN-OUT reversal direction

Flow direction: Right to left (Flow direction of the standard: Left to right)

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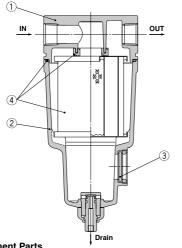
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# Construction

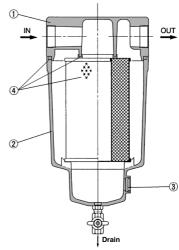
# AMG150C to 550C, AMG650



**Component Parts** 

No.	Description	Material	Note		
1	Body	Aluminum alloy	Inner/outer		
2	Housing (Case)	Aluminum alloy	surface coating		
3	Sight glass	Tempered glass	_		

#### **AMG850**



Note) The figure shows the drain cock specification.

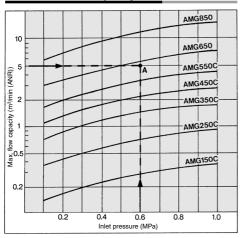
Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 212 to 214 for details.

Replacement Parts

110	nepiacement i arts											
Nie	Description	ription Material	Applicable		Model							
INO.			model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850		
	Element	Resin,	Except option F	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850	-	
4	assembly	others	For option F	AMG-EL150-F	AMG-EL250-F	AMG-EL350-F	AMG-EL450-F	AMG-EL550-F	_	_	ř	

- Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- Refer to page 280 for replacement of auto drain.

# **Maximum Flow Capacity Line**



### Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the max. flow capacity into consideration. (Example) Inlet pressure: 0.6 MPa

Max. flow capacity: 5 m³/min (ANR)

- Obtain the intersecting point A of inlet pressure and max. flow capacity in the graph.
- The AMG650 is obtained when the max. flow capacity line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow capacity line above the obtained intersecting point. With a model that has the max. flow capacity line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

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