

Periodically replace filter elements!

New element



Replacement



Element replacement timing

Within **2 years** from the commencement of use
or
before the differential pressure reaches **0.1 MPa**

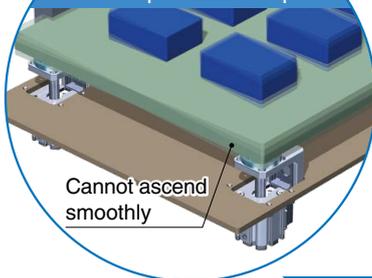


Used element

Through use, the filter element gradually becomes clogged, and this will cause the pressure to drop. Failure to replace it will lead to energy loss.

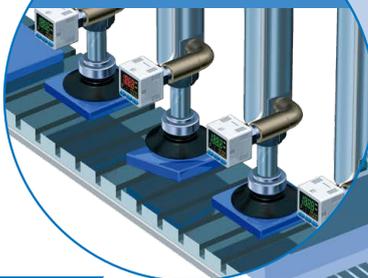
Example 1

Reduction of thrust due to pressure drops



Example 2

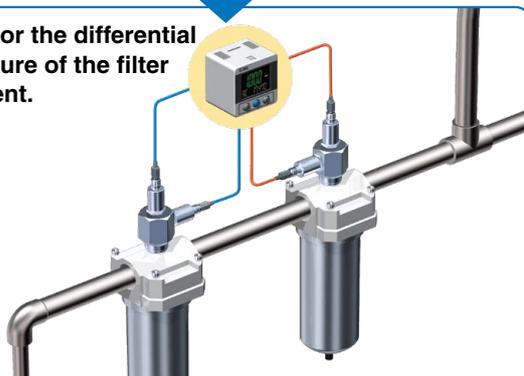
Suction failure due to reduced flow



To prevent this from occurring

Monitor the differential pressure of the filter element.

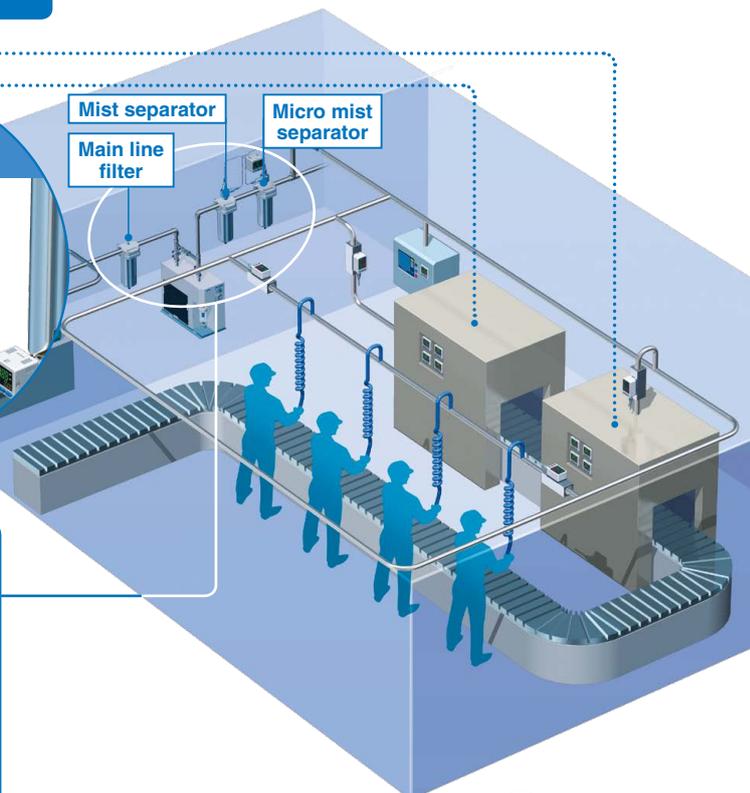
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Mist separator

Main line filter

Micro mist separator



Use the differential pressure check mode (PSE200A series) to monitor the differential pressure of various kinds of filter elements.

The value of the differential pressure to be output can be set freely according to the system conditions of each customer.

[Example: When the value of the differential pressure to be output has been set to 0.08 MPa]

Constant remote monitoring with IO-Link communication



When the differential pressure reaches 0.08 MPa, a signal is output.

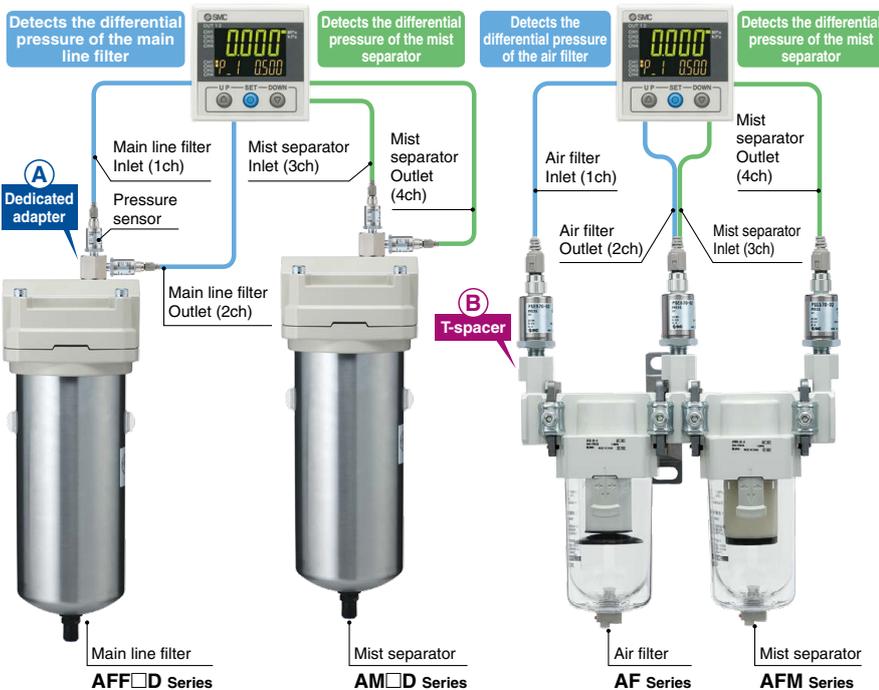


Multi-channel Digital Sensor Monitor
PSE200A Series



The differential pressure of 2 filters can be controlled with 1 unit.

For air



For general fluids



* There is no part number for a set of the above products. Please purchase each device individually. For the handling methods of each device, refer to each catalog and operation manual.

Caution

When a single sensor output is to be used in a branched condition, refer to the wiring example shown below.

Equipment for Branch Piping

A AFF□D/AM□D/
AMD□D Series
Dedicated adapter
AM-SA078

Gauge port on the inlet side: Rc1/8

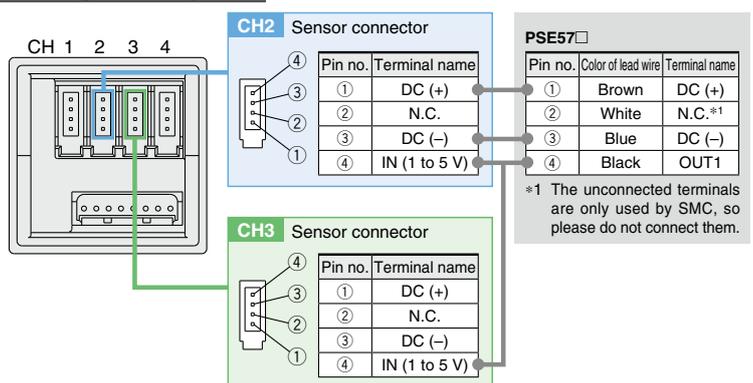
Gauge port on the outlet side: Rc1/8

For details, refer to the "Options/ Attachments" section of the modular F.R.L. units of the AC Series.

B T-spacer

Port size: 1/8, 1/4, 3/8

Wiring Examples



Element Part No. List

Water Separator

Eliminates water droplets in compressed air.

AMG Series



Element

Water removal rate
99%

Model	Elements Part No.
AMG150C	AMG-EL150
AMG250C	AMG-EL250
AMG350C	AMG-EL350
AMG450C	AMG-EL450
AMG550C	AMG-EL550
AMG650	AMG-EL650
AMG850	AMG-EL850

Main Line Filter

Eliminates impurities, such as oil, foreign matter, etc., in compressed air.

AFF□D Series



Element

Filtration rating
1 μm

Model	Elements Part No.
AFF70D	AFF-EL70D
AFF80D	AFF-EL80D
AFF90D	AFF-EL90D

AFF Series



Element

Filtration rating
3 μm

Model	Elements Part No.
AFF2C	AFF-EL2B
AFF4C	AFF-EL4B
AFF8C	AFF-EL8B
AFF11C	AFF-EL11B
AFF22C	AFF-EL22B
AFF37B	AFF-EL37B
AFF75B	AFF-EL75B
AFF75A	EC700-003N
AFF125A	EC700-003N
AFF150A	EC800-003N
AFF220A	EC900-003N

* The bodies of the AFF75A to 220A and their corresponding elements differ from the photo.
* The life of the element is 1 year, or when the pressure drops to 0.1 MPa.

Air Filter

Eliminates impurities, such as oil, foreign matter, etc., in compressed air.

AF Series



Filtration rating
5 μm

Model	Elements Part No.
AF10	AF10P-060S
AF20	AF20P-060S
AF30	AF30P-060S
AF40	AF40P-060S
AF40-06	AF40P-060S
AF50	AF50P-060S
AF60	AF60P-060S
AF800	11345-5B
AF900	11352-5B

AW/AW□K Series (Filter regulator)



Filtration rating
5 μm

Model	Elements Part No.
AW10 (K)	AF10P-060S
AW20 (K)	AF20P-060S
AW30 (K)	AF30P-060S
AW40 (K)	AF40P-060S
AW40-06 (K)	AF40P-060S
AW60 (K)	AW60P-060S

Mist Separator

Eliminates oil mist in compressed air, rust sized 0.3 μm or more, and foreign matter such as carbon.

AFM Series



Filtration rating
0.3 μm

Model	Elements Part No.
AFM20	AFM20P-060AS
AFM30	AFM30P-060AS
AFM40	AFM40P-060AS
AFM40-06	AFM40P-060AS

AWM Series (Mist separator regulator)



Filtration rating
0.3 μm

Model	Elements Part No.
AWM20	AFM20P-060AS
AWM30	AFM30P-060AS
AWM40	AFM40P-060AS

AM□D Series



Element

Filtration rating
0.1 μm

Model	Elements Part No.
AM70D	AM-EL70D
AM80D	AM-EL80D
AM90D	AM-EL90D

AM Series



Element

Filtration rating
0.3 μm

Model	Elements Part No.
AM150C	AM-EL150
AM250C	AM-EL250
AM350C	AM-EL350
AM450C	AM-EL450
AM550C	AM-EL550
AM650	AM-EL650
AM850	AM-EL850

Element Part No. List

Micro Mist Separator

Eliminates foreign matter sized 0.01 μm or more and oil particles in an aerosol state.

AFD Series



Filtration rating
0.01 μm

Model	Elements Part No.
AFD20	AFD20P-060AS
AFD30	AFD30P-060AS
AFD40	AFD40P-060AS
AFD40-06	AFD40P-060AS

AWD Series

(Micro mist separator regulator)



Filtration rating
0.01 μm

Model	Elements Part No.
AWD20	AFD20P-060AS
AWD30	AFD30P-060AS
AWD40	AFD40P-060AS

AMD□D Series



Element

Filtration rating
0.01 μm

Model	Elements Part No.
AMD70D	AMD-EL70D
AMD80D	AMD-EL80D
AMD90D	AMD-EL90D

AMD Series



Element

Filtration rating
0.01 μm

Model	Elements Part No.
AMD150C	AMD-EL150
AMD250C	AMD-EL250
AMD350C	AMD-EL350
AMD450C	AMD-EL450
AMD550C	AMD-EL550
AMD650	AMD-EL650
AMD850	AMD-EL850
AMD800	63174
AMD801	63174
AMD900	63174 (3 pcs. required)
AMD901	63174 (3 pcs. required)
AMD1000	63174 (5 pcs. required)

* The bodies of the AMD800 to 1000 and their corresponding elements differ from the photo.
* The life of the element is 1 year, or when the pressure drops to 0.1 MPa.

Micro Mist Separator with Pre-filter

A micro mist separator equipped with a pre-filter (equivalent to the AM series).

AMH Series



Element

Filtration rating
0.01 μm

Model	Elements Part No.
AMH150C	AMH-EL150
AMH250C	AMH-EL250
AMH350C	AMH-EL350
AMH450C	AMH-EL450
AMH550C	AMH-EL550
AMH650	AMH-EL650
AMH850	AMH-EL850

Super Mist Separator

Captures foreign matter sized 0.01 μm or more and absorbs oil particles in an aerosol state. The appearance of a red spot on the surface indicates the end of the elements life.

AME Series



Element

Filtration rating
0.01 μm

Model	Elements Part No.
AME150C	AME-EL150
AME250C	AME-EL250
AME350C	AME-EL350
AME450C	AME-EL450
AME550C	AME-EL550
AME650	AME-EL650
AME850	AME-EL850

Odor Removal Filter

Eliminates odor from compressed air.

AMF Series



Element

Filtration rating
0.01 μm

Model	Elements Part No.
AMF150C	AMF-EL150
AMF250C	AMF-EL250
AMF350C	AMF-EL350
AMF450C	AMF-EL450
AMF550C	AMF-EL550
AMF650	AMF-EL650
AMF850	AMF-EL850

* The bodies of the AMD800 to 1000 and their corresponding elements differ from the photo.

* The life of the element is 1 year, or when the pressure drops to 0.1 MPa.

Model	Elements Part No.
AMF800	63271
AMF801	63271
AMF900	63271 (3 pcs. required)
AMF901	63271 (3 pcs. required)
AMF1000	63271 (5 pcs. required)

Filters for various fluids are also available.

SMC Industrial Filters

Applicable fluids

Industrial water/Cooling water/Coolant/Cleaning fluid/
Lubricating oil, etc.



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