ZX

ZR

ZM

ZH

ZU

ZL

ZY

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ZP

ZCU

AMJ

Misc.

1

Air Suction Filter Series ZFA

Prevents vacuum equipment trouble due to airborne contaminants.

The collected dust does not remain in the case.

Dust is removed easily at the time the filter element is replaced. As a result, the dust does not remain in the case.

Compact and lightweight

The aluminum alloy case and boxshaped exterior design create a lightweight and compact package.

Adaptable for a manifold application

Up to 10 units can be linked in a manifold to save space.

Large filter element surface

The pleat-shaped element provides a large filtering surface so that maintenance can be performed at longer in-

Easily replaced filter element The filter element can be replaced in a

short time without requiring any tools. Mountable in any direction

The function of the filter is not affected by its mounting orientation.



ZFA200

JIS Symbol
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Model

Model	Port size	Recommended air flow (//min (ANR)) Weight (
ZFA100	1/8	50	0.14
ZFA200	1/4	200	0.19

Specifications

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Fluid	Air, Nitrogen
Operating pressure range	-100 to 0 kPa
Proof pressure	0.5 MPa
Operating temperature range	5 to 60°C
Filtration	30 μm
Element differential pressure resistance	0.15 MPa
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Note 1) Please consult with SMC when INLET and OUTLET are to be prepared on the bottom of the case or if a vacuum switch is to be installed on the filter.

Note 2) Avoid use under pressurization.

Accessory/Option

Model	ZFA100	ZFA200	Note
Bracket assembly	BP-1H-1A	BP-1H-2A	With Bolt, Nut, Washer
Bracket for manifold (1 to 10 stations)	ZZFA1- Stations	ZZFA2- Stations	With Bracket, Connection bolt, Nut, Washer, each 2 pcs.

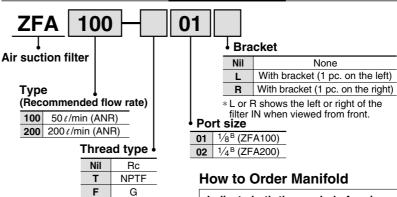
Principal Parts Material

Description	Material
Cover	Zinc die-casted
Case	Aluminum die-casted
Gasket/Seal	NBR
Element	Polyester, ABS

Element Part No.

Part no.	Applicable filter model	Element size (mm)		
EJ001H-030N	ZFA100	43 x 42 x 12		
EJ101H-030N	ZFA200	43 x 40 x 22		

How to Order



Indicate both the symbols for air suction filter and bracket for manifold.

Example: In case of 6 stations of air suction filter ZFA (single)

ZFA100-01----- 6 pcs.

(Brackets for 6 stations)*

ZZFA1-06 ---- 1 pc.

* Both left and right brackets.

Series ZFA

Application Example

Field: Semiconductor, electronics, automotive assembly, food processing and medical equipment, all types of manu-

facturing assembly equipment

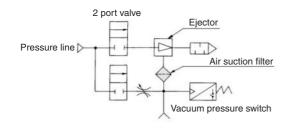
Machinery: Robotic hand/material handling, automotive assembling machines, automatic transfer equipment, pick and place,

printing machinery

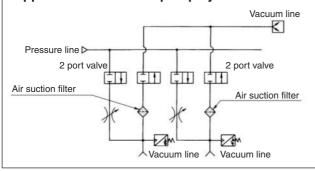
Application: Vacuum adsorption transfer, vacuum adsorption retention,

vacuum generated air flow

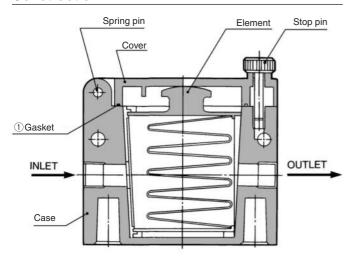
Application to ejector system



Application to vacuum pump system



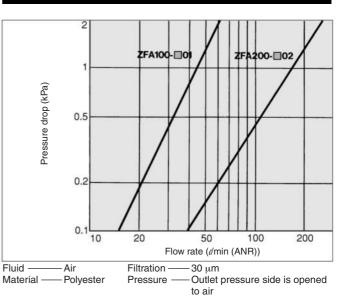
Construction



Replacement Parts

No.	Description	Part	no.
INO.	. Description	ZFA100	ZFA200
1	Gasket for cover case	AL-204H	AL-205H

Flow Characteristics



A Precautions

Be sure to read before handling. Refer to pages 13-1 15-3 to 13-15-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to page 13-1-5 for Precautions on every series.

Mounting

$oldsymbol{\Lambda}$ Warning

 Be extremely careful with the piping connection screw seal to prevent leakage. Failure to observe this precaution could cause a picking malfunction.

∆ Caution

 Verify the ">" marks for IN and OUT that are indicated on the body to ensure a proper connection. It is not possible to ensure the sealing performance of the filter element if connections are reversed.

Maintenance

$oldsymbol{\Lambda}$ Warning

1. If the filter element becomes clogged, stop operation. After the internal pressure in the filter has reached atmospheric pressure, clean or replace the filter element.

∧Caution

- Replace the filter element when the pressure drops approximately 0.02 MPa.
- **2.** During disassembly or reassembly, make sure the gaskets and the seals are not cut or damaged.
- 3. To install the filter element in the case, verify the IN and OUT flow direction that are indicated on the filter element. If the direction is reversed, the filter element will not be properly installed on the cover.
- 4. For maintenance purposes, provide ample space on the side of the cover so that the filter element can be removed.

Selection

$oldsymbol{\Lambda}$ Warning

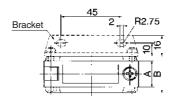
 Do not use it in a line that is kept pressurized because it could cause the body to break.

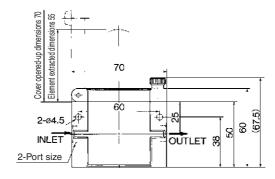
Air Suction Filter Series ZFA

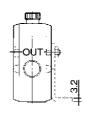


Dimensions: ZFA 200 -

Single unit



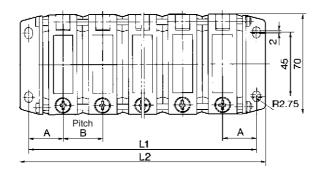


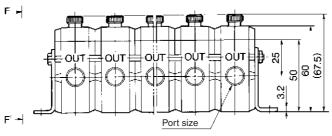


Note) The diagram on the left is for ZFA200. The bracket location is on the left side.

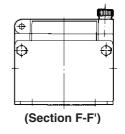
Model Symbol	Port size	Α	В
ZFA100	1/8	_	18
ZFA200	1/4	20	28

Manifold





(The above diagram is for ZFA200)



Model Symbol	Port size	Α	В
ZFA100	1/8	19	18
ZFA200	1/4	24	28

Model	Ch. al	Number of manifold stations									
Model	Symbol	1	2	3	4	5	6	7	8	9	10
ZFA100	L1	38	56	74	92	110	128	148	164	182	200
ZFA 100	L2	L2 50 68	68	86	104	122	140	158	176	194	212
ZFA200	L1	48	76	104	132	160	188	216	244	272	300
ZFA200	L2	60	88	116	144	172	200	228	256	284	312

ZX ZD

ZR

ZM ZH

ZU

ZL

ΖY

ZQ

ZQ

ZF ZP

ZCU

AMJ Misc.