

# NEW PRODUCTS GUIDE

Digest version

Vol. 5



NC-E17-20A

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# Wireless System

## EX600-W Series



### Usable even in welding environments

#### Noise resistance

Uses the 2.4 GHz ISM frequency band  
Frequency hopping: Every 5 ms

#### High-speed connection

From power supply ON to start of communication: **Min. 250 ms**\*1

\*1 For wireless slave

#### Communication response

Signal response time: **5 ms**

#### Communication cables not required

Reduced wiring work, space, and cost  
Minimized disconnection risk

#### Number of I/O points

Max. 1280 inputs/1280 outputs  
(Registration and communication of up to 127 slave units is possible.)

#### Compatible protocol

**EtherNet/IP™**



Material handling robot

Wireless slave

Wireless master

Spot welding

Wireless slave

Wireless master unit    Wireless slave unit

**Countries in which wireless is supported**  
This product cannot be used in countries where wireless is not supported.

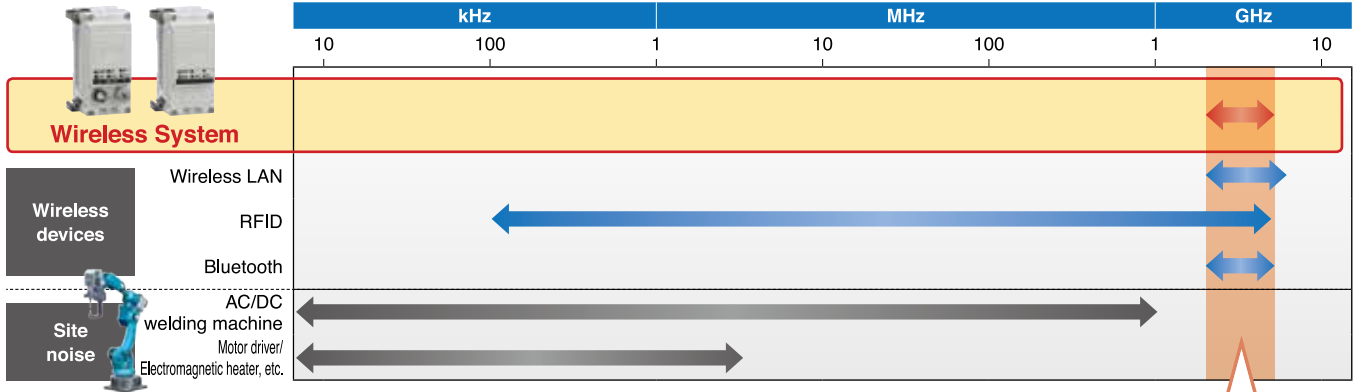
Country	Standard
Japan	(Japanese radio law)
EU	(CE marking/RE Directive)
USA	(FCC)

■Trademark  
EtherNet/IP™ is a trademark of ODVA.

For details, refer to the [Web Catalog](#).



# Uses the 2.4 GHz ISM frequency band



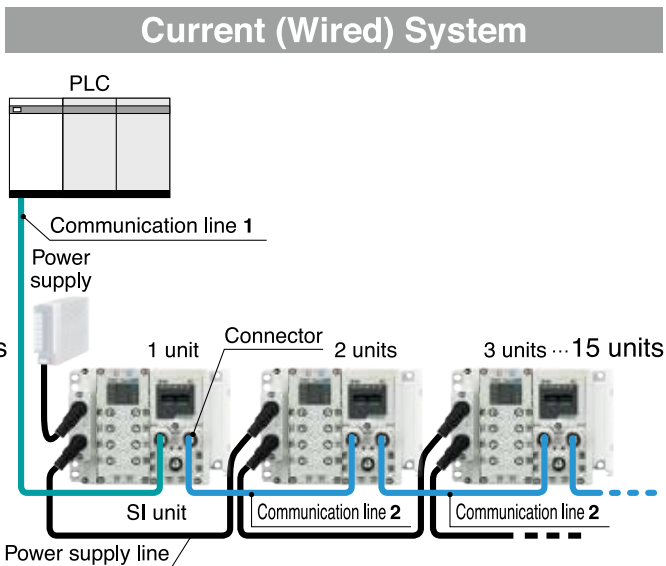
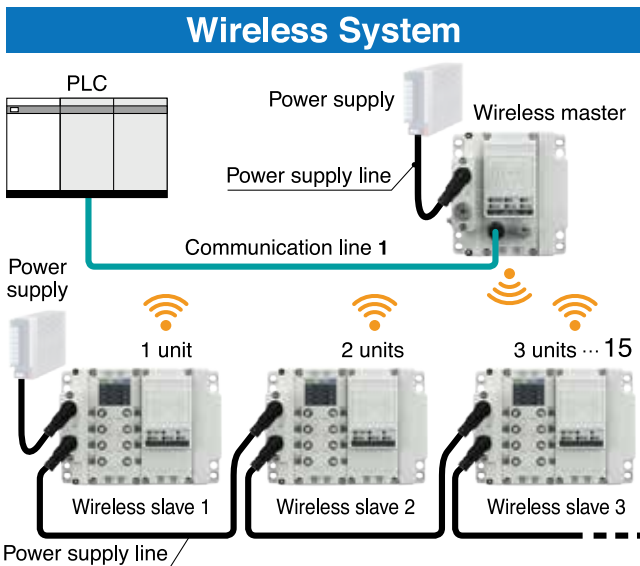
**Frequency hopping: Every 5 ms**

A stable wireless environment is established using an original protocol which is not affected by interference. Interference from other wireless equipment is prevented.

**Frequency Hopping**

The communication technology rapidly changes frequency (hopping), to prevent interference from other wireless equipment. When the frequency of Wi-Fi and other wireless communications compete, or radio wave interference is present, then other frequencies are used for communication.

# Wiring material cost and installation man-hours can be reduced.



SI unit: Comparison when 15 units are connected	Number of communication devices	Communication line		Communication connectors required
		1	2	
Wireless system	Wireless master: 1 unit Wireless slave: 15 units	1 line (Connector at one end)	—	1 place
Current (Wired)	SI unit: 15 units	1 line (Connector at one end)	14 lines (Connector at both ends)	29 places

# Stopper Cylinder

ø16, ø20, ø32, ø40, ø50

## RSQ Series

RoHS

Additional variations now include the option to have a female rod end on the “**round bar type**” and the “**chamfered type**”.

8 types → 10 types

The new body allows for auto switch mounting on 4 faces.

Mounting brackets are not required.  
Compact auto switches are mountable.

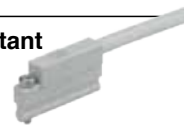
Solid state auto switch  
D-M9□



Reed auto switch  
D-A9□



Magnetic field-resistant auto switch  
D-P3DWA



For details, refer to the [Web Catalog](#).

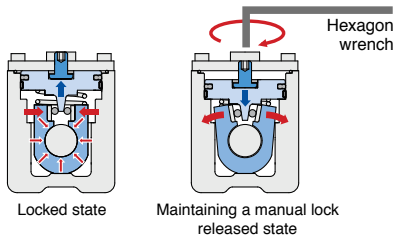
# Cylinder with Lock

ø32, ø40, ø50, ø63, ø80, ø100

## MWB Series

- Bore sizes ø80 and ø100 have been added.
- Lock units 80 and 100 have been added. (Applicable rod size: ø25, ø30)

**Lock can be manually operated with a hexagon wrench.**  
Can be easily mounted onto equipment



### ■ Separable construction for improved ease of maintenance

The lock unit and the cylinder can be separated.  
This allows for easier maintenance.



### ■ Holding force improved by **15%**

(MNB, ø50: 308 lb.f (1370 N) → **MWB: 353 lb.f (1570 N)**)

### ■ Overall length reduced by **0.7" (18mm) max.**

(Compared with an MNB, ø80, 100 mm stroke)

### ■ High stopping accuracy within **±0.04" (±1mm)**

(With ø50 and 30 kg of load)



## Lock Unit

**A safety mechanism can be designed if required.**  
**It can also be combined with a wide variety of actuators.**

- Prevents the workpiece from falling
- Retains the workpiece position even when the air supply is shut off due to power failure, etc.



For details, refer to the [Web Catalog](#).

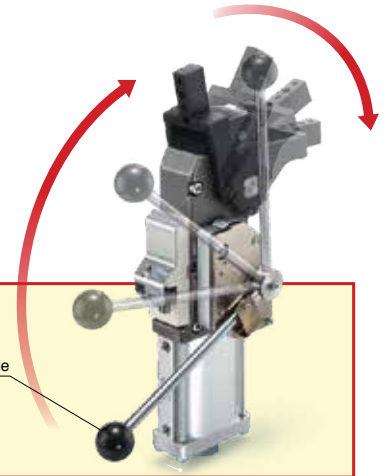


# Power Clamp Cylinder

ø50, ø63

**CKZ3T-X2734** (Base Type)

**CKZ3T-X2568** □ (With Manually Operated Handle)



**A model with a manually operated handle is available.**

- For manual workpiece setting processes

Manually operated handle  
(Unclamping position)

- Simple switch adjustment greatly reduces work hours.  
Switch can be adjusted easily when changing the arm opening angle.

CKZ3T



Remove bolts to change the position

CKZ3T-X2734



Change switch position with one touch

Switch on the  
unclamping side

- **With metal switch cassette cover**  
Protects switch cassette from unexpected impact

- **Weight reduced by up to 39%**  
Aluminum body with greatly reduced weight  
Suitable for robot material handling

Bore size	CKZT → CKZ3T-X2734	Reduction rate
50	11 lbs (5.0 kg) → <b>6.83 lbs (3.1kg)</b>	38% reduction
63	15.65 lbs (7.1 kg) → <b>9.48 lbs (4.3kg)</b>	39% reduction

\* Arm opening angle: 90°

- **High clamping force 899.23 lb.f (4000 N)**  
(ø63, Arm length: 100 mm, 0.5 MPa pressure)



For details, refer to the **Web Catalog**.

# Vacuum Pad

ø20, ø25, ø35, ø50

## ZP3P Series

RoHS

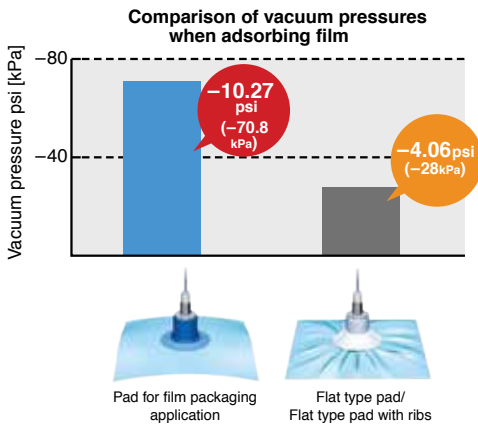
**Good for film packaging applications where the shape of the workpiece changes easily from being lifted.**

■ **Silicone rubber compliant with the FDA (USA Food and Drug Administration) 21CFR§177.2600 elution test is used.**

■ **Blue colored pad**  
Easy to distinguish the vacuum pad by color during contamination inspection.

■ **Reduced leakage**  
Sealing skirt design, better sealing performance even for thin films.

Wrinkle prevention with the stopper in the center of the vacuum pad



■ **Reduction of wrinkles made on thin workpieces (film, vinyl, etc.) during adsorption**



### Variations

Form	Pad Diameter				Vacuum Inlet/Mounting	Buffer Stroke
	ø20	ø25	ø35	ø50		
Pad Unit	●	●	●	●	—	—
With Adapter Male thread	●	●	●	●	M5 x 0.8, M12 x 1.75 G1/8, G1/4, G3/8	—
With Adapter Female thread	●	●	●	●	M5 x 0.8 M8 x 1.25	—
With Buffer Female thread	●	●	●	●	Vacuum inlet: M5 x 0.8, Rc1/8 Mounting: M10 x 1, M14 x 1	10 mm/20 mm

For details, refer to the [Web Catalog](#).



# Multi-Axis Step Motor Controller

## JXC73/83/92/93 Series

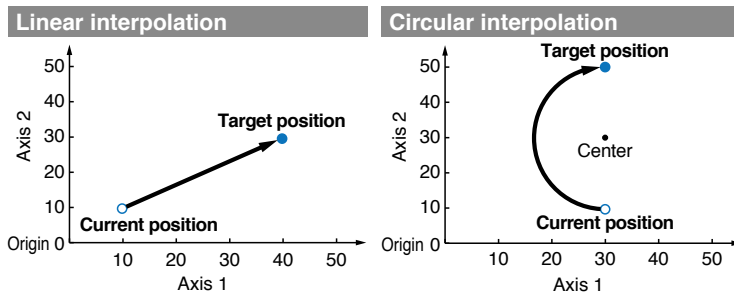


The JXC92 series for 3 axes has been added.

- Speed tuning control \*1  
(3 Axes: JXC92 4 Axes: JXC73/83/93)
- Linear/circular interpolation

- Positioning/pushing operation
- Step data input  
(Max. 2048 points)
- Space saving, reduced wiring
- Absolute/relative position coordinate instructions

\*1 This controls the speed of the slave axis when the speed of the main axis drops due to the effects of an external force and when a speed difference with the slave axis occurs. This control is not for synchronizing the position of the main axis and slave axis.



### For 3 Axes JXC92 Series

EtherNet/IP Type  
Width: Approx. **38% reduction**

JXC92

### For 4 Axes JXC73/83 Series

- Parallel I/O/ EtherNet/IP Type
- Width: Approx. **18% reduction**

JXC73/83

\* For LE□, size 25 or larger

■ Trademark  
EtherNet/IP™ is a trademark of ODVA.

For details, refer to the Web Catalog.



# Refrigerated Air Dryer

For Use in Southeast Asia

**IDFC** □ *Series*

## Applicable for the high-temperature environments of tropical regions

### ■ Can be used in high-temperature environments

Ambient temperature: Max. **113°F (45°C)**

Inlet air temperature : Max. **149°F (65°C)**

Dew point range : **37.4°F to 68°F (3°C to 20°C)**

### ■ Air flow capacity \* IDFC90-23, Dew point of 50°F (10°C)

**325cfm (9.2m<sup>3</sup>/min)** (52% increase compared to the current model)

### ■ Power supply voltage

Single-phase 230 VAC (50 Hz)



For details, refer to the [Web Catalog](#).

# Compressed Air Preparation Filter

## AFF/AM/AMD Series

Compressed Air Purity Class **ISO 8573**

Main Line Filter **AFF Series**

**1**  $\mu\text{m}$  Water droplet removal

Mist Separator **AM Series**

**0.1**  $\mu\text{m}$  Oil mist separation and removal

Micro Mist Separator **AMD Series**

**0.01**  $\mu\text{m}$  Oil mist separation and removal

Flow Capacity

**512** <sup>\*1</sup> cfm  
(14.5 m<sup>3</sup>/min)(ANR)

**20%** improvement

Pressure Drop

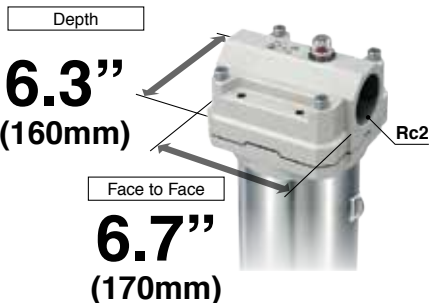
**0.73** psi or less  
(5 kPa or less)(For AMD)

**60%** reduction

Weight

**11 lbs** <sup>\*1</sup> (5.0 kg)

**52%** reduction



Improved Nominal Filtration Rating

AFF **1**  $\mu\text{m}$  (Current model: 3  $\mu\text{m}$ )

AM **0.1**  $\mu\text{m}$  (Current model: 0.3  $\mu\text{m}$ )

\*1 For AFF/AM/AMD90



For details, refer to the [Web Catalog](#).

# 3-Screen Display High-Precision Digital Pressure Switch

## ZSE20□(F)/ISE20□ Series



**Added Variations!**

**ZSE20A(F)/ISE20A Series   ZSE20B(F)/ISE20B Series  
ZSE20C(F)/ISE20C(H) Series**

The **IO-Link** compatible type has been added to the 20B series.



It is possible to change the settings while checking the measured value.

**Main screen**  
Measured value (Current pressure value)

**Sub screen**  
Label (Display item), Set value (Threshold value)



### Visualization of Settings

Set value (Threshold value)	P_1	Peak value	H_H	Hysteresis value	H_L
Bottom value	H_Lo	Delay time	dt1		

Delay Time **1.5 ms**<sup>\*1</sup> or less

Current Consumption **25 mA**<sup>\*2</sup> or less

\*1 Select from 1.5 ms or less, 20 ms, 100 ms, 500 ms, 1000 ms, 2000 ms, or 5000 ms.

\*2 Further reduced by approx. 60% in power-saving mode (For 20 series)

The 20A, 20B, and 20C series have been added to the product lineup.

Applicable fluid	Series	Output type	Enclosure	Copy function	Piping		
					M5 female thread	1/8 (R, NPT)	1/4 (R, NPT, G) (URJ <sup>1</sup> /TSJ <sup>2</sup> )
Air	ZSE20(F)/ISE20	1 output	IP40	—	•	•	—
	ZSE20A(F)/ISE20A	2 outputs Analog output (Voltage/Current)	IP40	•	•	•	—
	ZSE20B(F)/ISE20B	2 outputs Analog output (Voltage/Current)	IP65	•	•	•	—
General fluids	ZSE20C(F)/ISE20C(H)	2 outputs Analog output (Voltage/Current)	IP65	•	• <sup>*3</sup>	• (Rc thread only)	•

\*1 Face seal fitting \*2 Compression fitting \*3 With 1/4 (R, NPT, G) M5 female thread

For details, refer to the **Web Catalog**.

# 3-Screen Display High-Precision Digital Pressure Switch

## ISE7□/7□G Series



**Air**

**145**<sup>ISE70</sup> psi / **232**<sup>ISE71</sup> psi  
(1.0 MPa) (1.6 MPa)

**General Fluids**

**145**<sup>ISE70G</sup> psi / **290**<sup>ISE75G</sup> psi  
(1.0 MPa) (2.0 MPa)

**725.2**<sup>ISE70G</sup> psi / **1450.4**<sup>ISE75G</sup> psi  
(5.0 MPa) (10 MPa)

### IO-Link

It is possible to change the settings while checking the measured value.

#### Main screen

Measured value (Current pressure value)

#### Sub screen

Label (Display item), Set value (Threshold value)

#### Visualization of Settings

Set value (Threshold value)	P.L
Hysteresis value	H.L
Peak value	H.H
Bottom value	H.Lo



### Angled display Good visibility from various mounting positions



### Rotating display

Display rotates 336 degrees after installation.



### 3 setting modes

- 3-step setting mode
- Simple setting mode
- Function selection (detailed setting) mode

For details, refer to the Web Catalog.

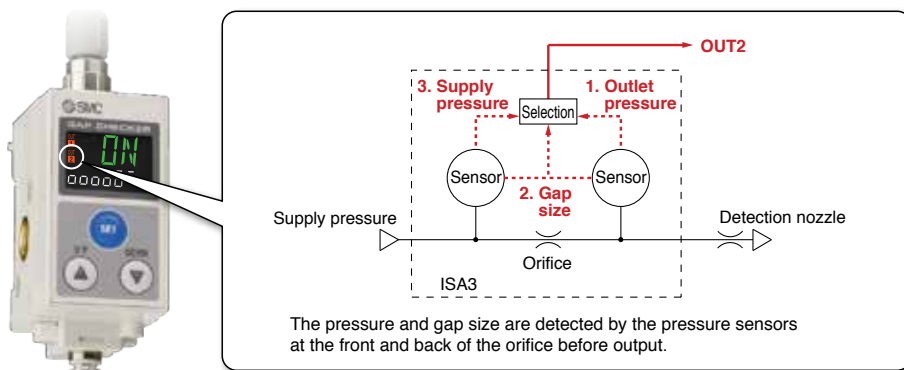


# 3-Color Display Digital Flow Switch for Large Flow ISA3 Series



● A 2 outputs type has been added.

■ 1. Outlet pressure, 2. Gap size, or 3. Supply pressure can be selected for OUT2.



## 1. Monitoring of the outlet pressure

- When the workpiece is not placed, OUT2 can detect the nozzle clogging pressure.
- Can discern between 2 different types of workpiece  
Can detect raw material workpieces and defective workpieces via the pressure (OUT2)

## 2. Monitoring of gap size

- Can discern between 2 different types of workpiece  
Can detect the difference between raw material workpieces and defective workpieces via the gap size

## 3. Monitoring of supply pressure

Detection of rated pressure range via OUT2

**Check at a glance if the workpiece is placed or not!**

**Main screen**

ON: Placed      OFF: Not placed

**The clearance distance between the detection surface and the workpiece can be found intuitively!**

**Sub screen**

Switch output

When the workpiece is away from the detection surface, the level meter will be away from the switch point value bar.

When the workpiece is seated on the detection surface, the level meter will reach the switch point value bar.

The number of level meter symbols changes depending on the clearance between the workpiece and the detection surface. A clearance which cannot actually be seen can be indicated on the display.

F type	0.01 to 0.03 mm
Rated distance range (Displayable/Settable range: 0 to 60)	
G type	0.02 to 0.15 mm
Rated distance range (Displayable/Settable range: 10 to 300)	
H type	0.05 to 0.30 mm
Rated distance range (Displayable/Settable range: 30 to 500)	

For details, refer to the [Web Catalog](#).

**3-Color Display**

# Digital Flow Switch for Large Flow

## PF3A7□H Series



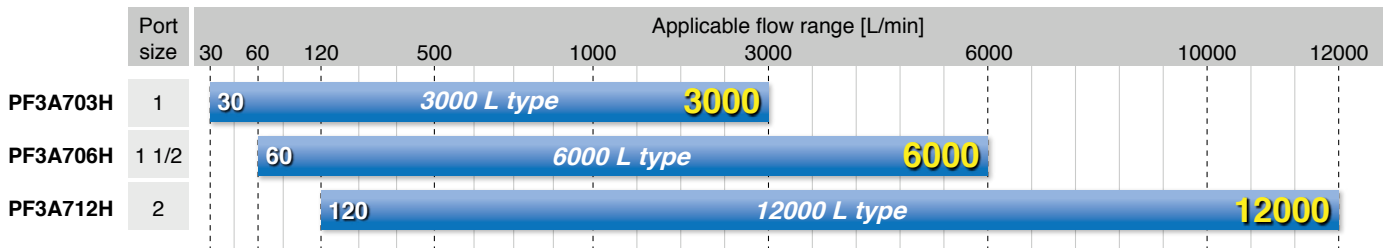
● The digital flow monitor PFG300 series has been added.

■ Flow range: Max. **423.78 cfm (12000 L/min)**

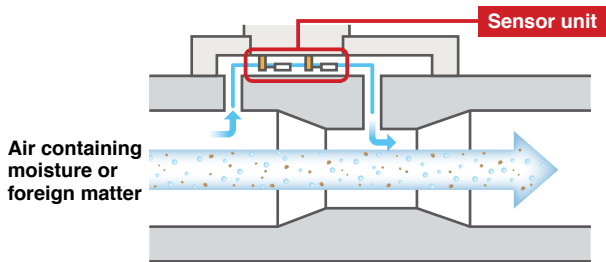
■ Flow ratio\*1 **100:1** Wide range of flow measurement with one product

\*1 The flow ratio is 20 : 1 for the current model (PF2A7□H/Large flow type).

1 L/min = 0.035 cfm



■ Improved drainage and resistance to foreign matter



Bypass construction reduces the moist air or foreign matter in contact with the sensor, reducing the accuracy deterioration and damage of the sensor.

■ Pressure loss: **75% reduction\*1**  
(2.9 psi (20 kPa) / 0.73 psi (5 kPa))

\*1 Compared with the current model (PF2A7□H/Large flow type).

■ Through bore construction

Reduced pressure loss  
Maintenance-free fluid passage



**3-Screen Display**  
**Digital Flow Monitor**  
Allows for the monitoring of remote lines

**PFG300 Series**

For details, refer to the [Web Catalog](#).

# Low Particle Generation 2-Color Display Digital Flow Switch

## PFM7/PFMB7-X300



0.07 to 3.53 cfm **PFM710-X300**  
(0.2 to 10 L/min)  
0.02 to 0.88 cfm **PFM725-X300**  
(0.5 to 25 L/min)  
0.04 to 1.77 cfm **PFM750-X300**  
(1 to 50 L/min)

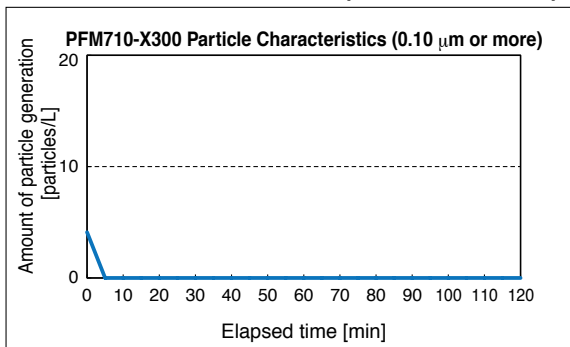


0.07 to 3.53 cfm (2 to 100 L/min) **PFM711-X300**



0.07 to 7.06 cfm (2 to 200 L/min) **PFMB7201-X300**

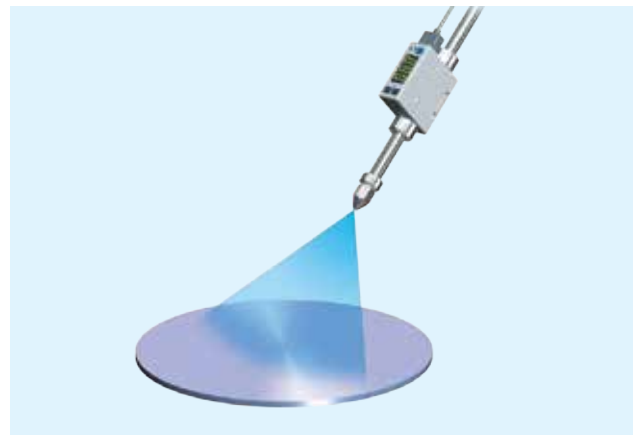
### Particle Generation Characteristics (Reference Data)



### Metal Material of Parts in Contact with Fluid: Stainless Steel 304

#### <Application Example>

Flow control of clean air blow in clean room environments



\* When the product is used for blowing, use caution to prevent the workpiece from being damaged by air entrained from the surrounding area.

### Specifications

<b>Ultrasonic cleaning</b>	Metal parts in contact with fluid: Fitting, Orifice, Mesh
<b>Degreasing treatment</b>	Body, O-ring
<b>Air blow</b>	Air blow of the fluid passage*1
<b>Clean packaging</b>	Antistatic bag (Double packaged)

\*1 With Class 100 air in a Class 10000 clean room

Model	Applicable fluid	Detection method	Smallest settable increment	Port size (Rc)	Rated flow range [1 L/min = 0.035 cfm]								Reversible display mode
					0.2	0.5	1	2	5	10	50	100	
<b>PFM710-X300</b> 	Dry air N <sub>2</sub> Argon CO <sub>2</sub>	Thermal type (MEMS)	0.01 L/min	1/8									None
				0.1 L/min	1/8								
			0.1 L/min		1/8								
				0.1 L/min	1/4								
<b>PFMB7201-X300</b> 	Dry air N <sub>2</sub>	Thermal type (MEMS) Bypass flow type	1 L/min		1/4								

**3-Color Display**

# Electromagnetic Digital Flow Switch

**LFE** □ *Series*



RoHS

IP65

- Stainless steel 304 has been added to the piping connection parts material.
- Functions (close proximity setting and zero-reset setting) have been added.

**Compact**

Actual size (LFE1)

2.2" (56mm)

1.57" (40mm)



The oval fluid passage enables the width to be reduced.

- **Weight: 12oz (340g)** (LFE1□3)
- **Pressure loss: 2.9psi (0.02MPa) or less**
- **Applicable fluids:**  
Water, Water-soluble coolant
- **Current consumption: 45mA**  
Reduced by up to 10% when the display is off
- **Operating fluid temperature: 32 to 185°F (0 to 85°C)**

**Close proximity setting allows for space saving.**

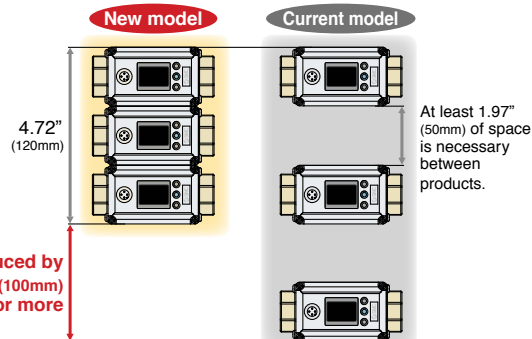
- Fluctuation of the displayed value can be reduced when the close proximity setting function is used.
- Reduced setting time

Simple setting can be made in the close proximity setting mode.



\* Integrated display type only Not available for the remote type

\* For 3 LFE1 flow switches



Integrated display type

Remote type



**Variations**

1 L/min = 0.035 cfm

Integrated display type/ Remote type	Flow range								
	0.5 L/min	2 L/min	5 L/min	10 L/min	20 L/min	50 L/min	100 L/min	200 L/min	
LFE1	Rated flow range					Display flow range			
LFE2	Rated flow range							Display flow range	
LFE3	Display flow range	Rated flow range							

**Piping connection parts: Stainless steel 304**



For details, refer to the Web Catalog.







# Separate Controller Bar Type Ionizer

## IZT40/41/42 Series



■ Space saving: Height **1.46"** x Width **1.18"**  
(37mm) (30mm)

■ Potential amplitude:  
**25 V or less**\*1

■ Rapid neutralization of  
static electricity:  
Fastest time **0.1 s**\*2



### Dual AC Type IZT42 Series

Potential amplitude of the workpiece is reduced with Dual AC.

### AC Type IZT41 Series

Auto balance function  
With external signal input/output function

### Standard Type IZT40 Series

Simple operation: Can be controlled by powering the ionizer ON.

\*1 IZT42, Installation height: 11.81" (300mm)

\*2 IZT40/41

Conditions: Discharge time from 1000 V to 100 V  
Discharged object: Charged plate (5.91" (150mm) x 5.91" (150mm), Capacitance 20 pF)  
Installation distance: 3.94" (100mm) (High speed de-ionizing cartridge,  
Tungsten emitter with air purge)  
Bar length: 44.1" (1120 mm)

For details, refer to the [Web Catalog](#).

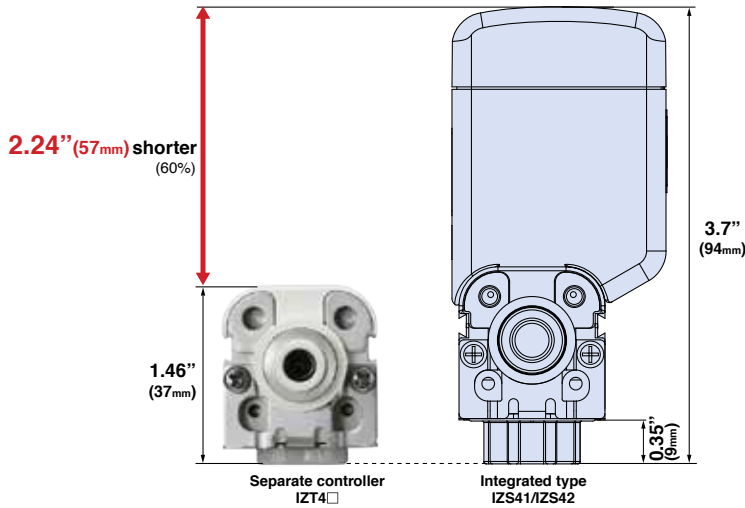
# Separate Controller Bar Type Ionizer IZT40/41/42 Series



## Space Saving

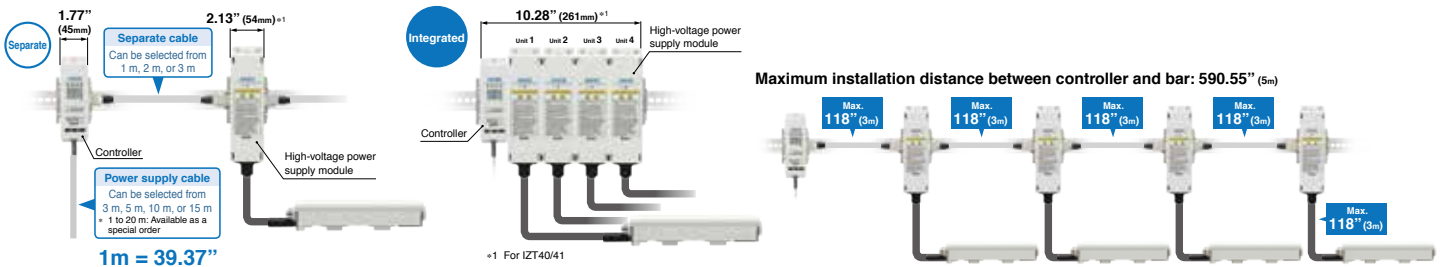
◎ Height reduced by 2.24" (57mm) (60%)

◎ Can be mounted in a narrow space



## Flexible Layout

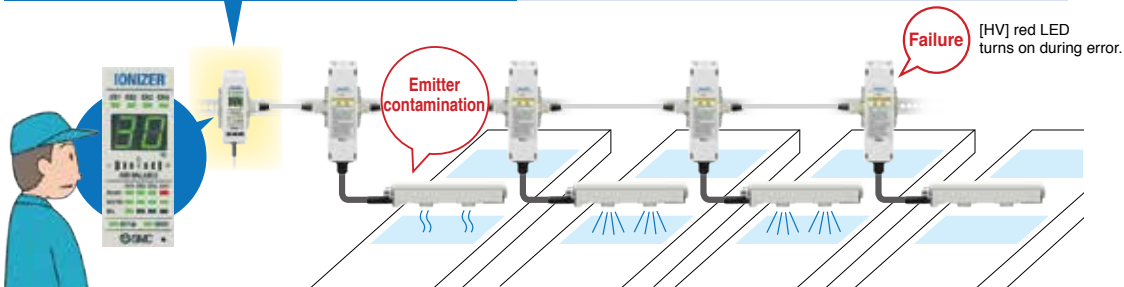
◎ The controller and high-voltage power supply module can be mounted separately.



◎ The controller can control a maximum of 4 ionizers.

**Concentrated control is available.**

- Bar error can be detected.
- Contamination of the emitter can be monitored.



For details, refer to the [Web Catalog](#).

# Nozzle Type Ionizer

## IZN10E Series



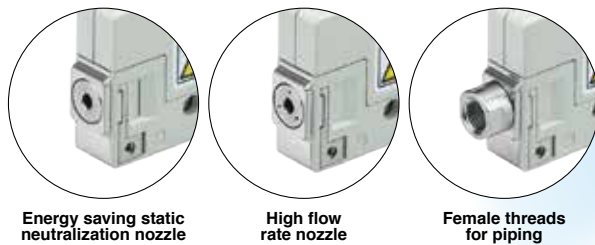
■ Slim 16 mm <sup>Thickness</sup> x 100 mm <sup>Width</sup> x 46 mm <sup>Height</sup>

■ Lightweight

33% reduction 120 g a 80 g

■ Offset voltage: **±10 v**

(For energy saving static neutralization nozzle)



Energy saving static neutralization nozzle

High flow rate nozzle

Female threads for piping

### Nozzle Variations Made to order

With right angles -X367

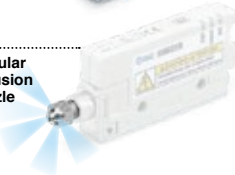
Energy saving static neutralization nozzle



High flow rate nozzle



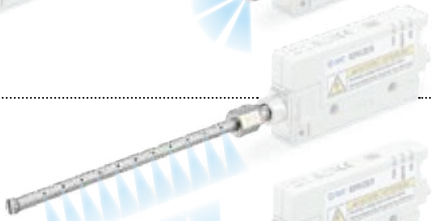
Circular diffusion nozzle



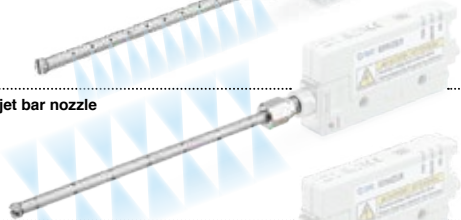
Flat diffusion nozzle



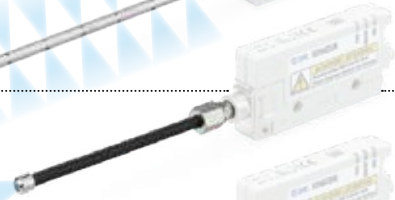
Bar nozzle (straight type)



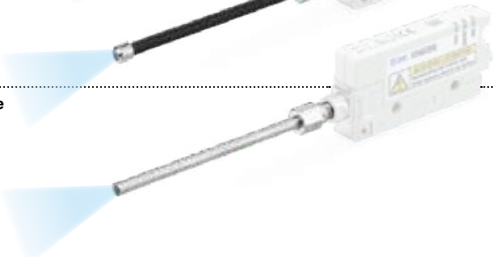
Circumferential jet bar nozzle (straight type)



Bender tube nozzle



Long nozzle



### Application Examples

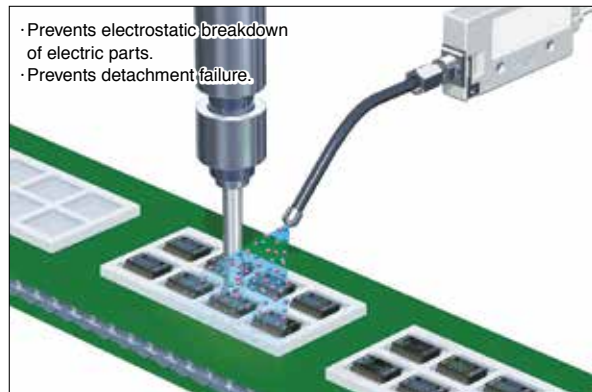
Dust removal and static neutralization by air blow

Static neutralization and particle elimination on plastic bottles



Spot type static neutralization

- Prevents electrostatic breakdown of electric parts.
- Prevents detachment failure.



For details, refer to the Web Catalog.

# Peltier-type Chiller

## Thermo-con/Rack Mount Type

**HECR Series**

**Air-cooled**

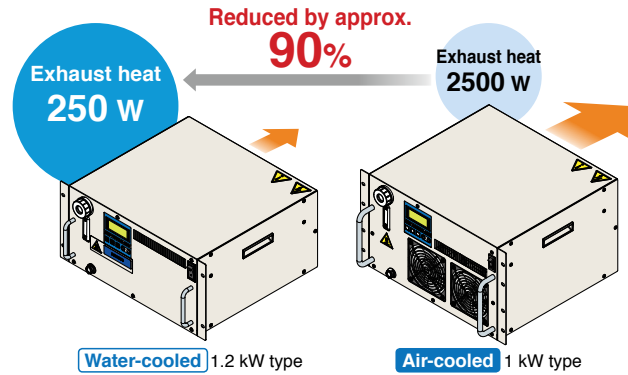
**Water-cooled**



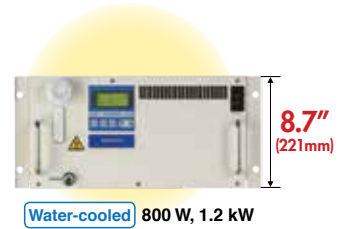
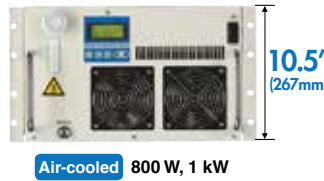
(UL Standards)

● The water-cooled type has been added. (800 W, 1.2 kW)

- Reduces the amount of exhaust heat by **90%**  
Suppresses rises in the ambient temperature



- Space-saving design with reduced height



### Mountable in a 19-inch rack

Space can be saved by mounting multiple pieces of equipment together in a single rack.

- Temperature stability:  $\pm 0.01^{\circ}\text{C}$  to  $0.03^{\circ}\text{C}$
- Set temperature range:  $10^{\circ}\text{C}$  to  $60^{\circ}\text{C}$
- Cooling capacity (With heating function):  
200 W, 400 W, 510 W, 800 W, 1 kW, 1.2 kW



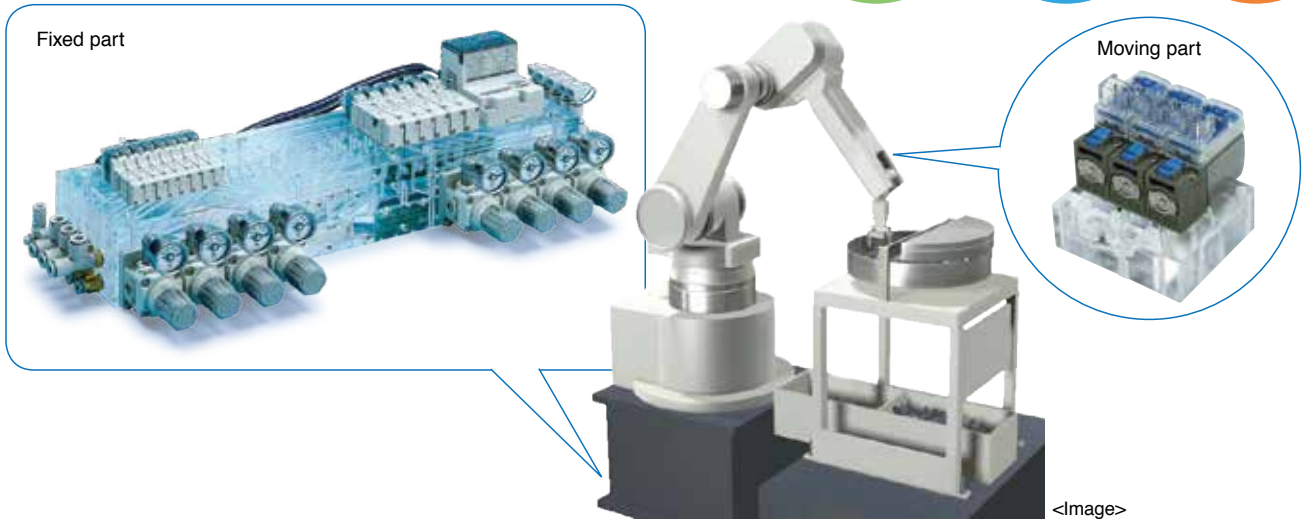
For details, refer to the **Web Catalog**.



# Composite Manifold

The unitization of devices allows for the whole unit to be made more compact. Expansion into a wide range of industries is now possible!

- Required space reduced by 50%
- Weight reduced by 70%
- No piping work required



## Space saving

Reduction in piping volume, manifold can be designed to suit the space

## Flow passage style with high flexibility

Three-dimensional flow passage that cannot be created by machining or injection molding

## Lightweight

Weight reduced by using resin material

## Reduced piping work

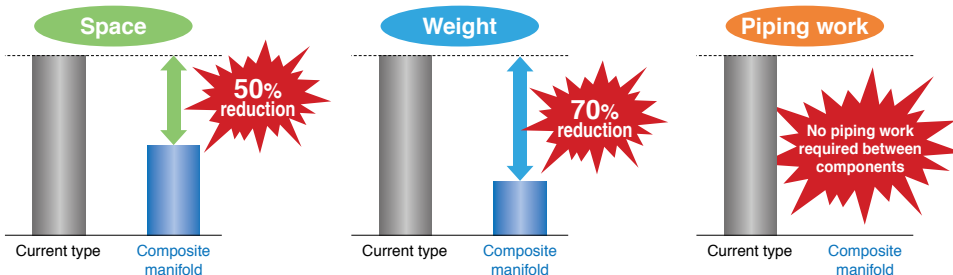
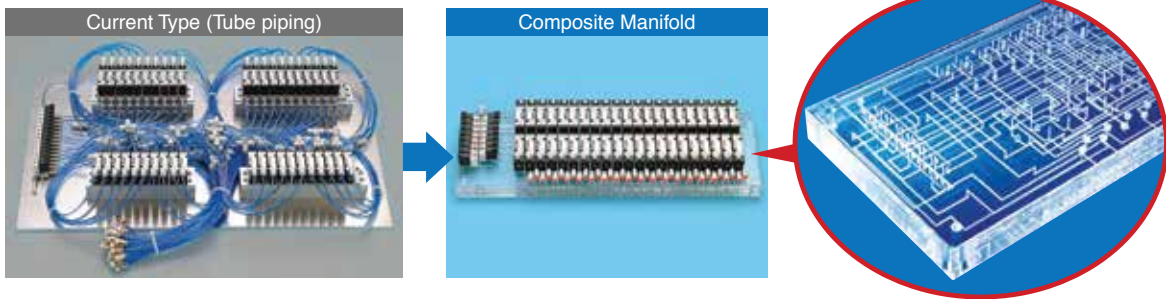
Reduction in piping work and wiring faults  
Improved reliability against leakage

## Reduced wiring

Wiring and wiring time reduced by integrating manifold and PCB

## Transparent flow passage (Acrylic)

Easy visual detection of fluid



For details, refer to the [Web Catalog](#).



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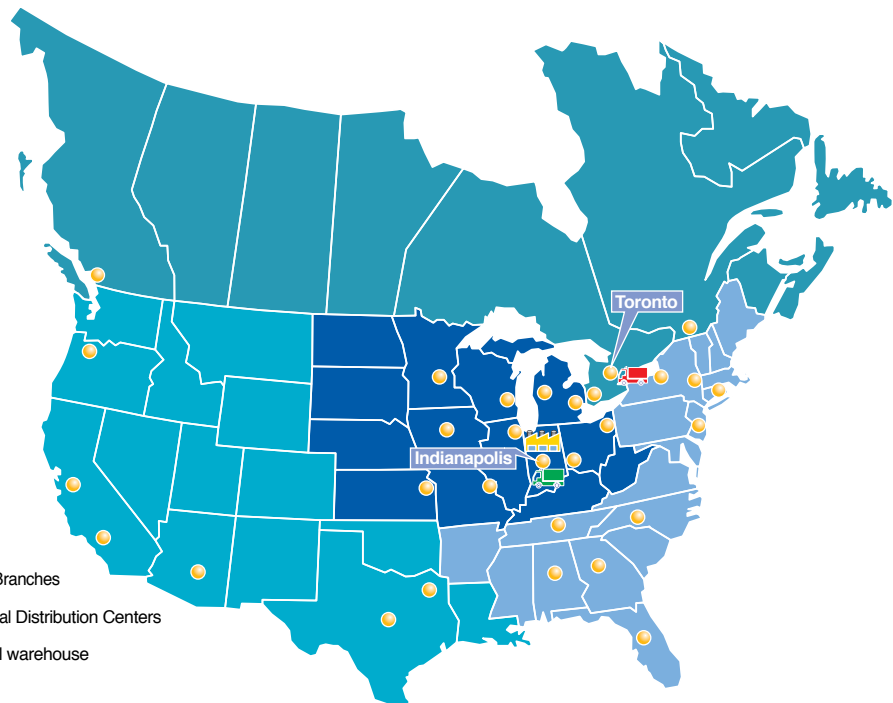
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