



Expertise – Passion – Automation



## Single unit, optimised flow control

Air flow controller  
PFCQ Series

[Quick overview](#)

# Air flow controller

## PFCQ Series



- ▶ **Avoid cost overruns through a single unit** – Maximum control flow rate of 300 l/min
- ▶ **Escape piping pressure drop effects** – Wide operating differential pressure range, 0.05 to 0.5 MPa
- ▶ **Reduce the size of your machinery** – Space saving design, as compact as 130 mm x 31 mm x 130 mm (H x W x L).



### Main features

- ▶ **Fast response:** it can follow flow command value  $\pm 3\%$  full scale in 0.5 s or less
- ▶ **Lightweight design:** 850 g
- ▶ **No grease or oil used**



Built-in linear motor

Remote digital flow monitor available



### Allows for the monitoring of remote lines



PFG310-X105



PFG310-X105



PFG310-X105

Device

PFCQ



PFCQ



PFCQ



## Selected part numbers

Part number	Rated flow range [l/min]	Digital input	Analogue input	Digital output	Analogue output	Power supply cable	Display
<b>PFCQ531-04-A3C-M</b>	9 to 300	Common for NPN and PNP	Analogue 1 to 5 V	PNP	Analogue 1 to 5 V	Yes	With display*
<b>PFCQ531-04-A4C-M</b>			Analogue 4 to 20 mA		Analogue 4 to 20 mA		

The following items are included in the shipment:

- Digital flow monitor
- Lead wire: lead wire with connector (2 m)
- Connector: sensor connector.

## Accessories

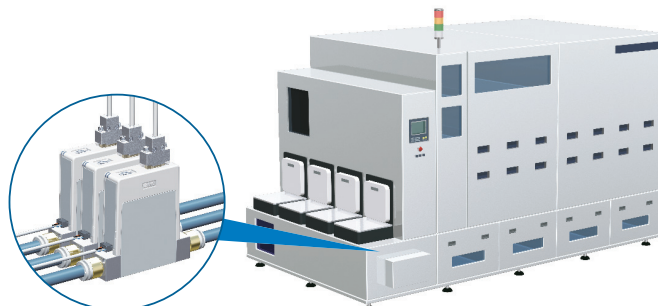
Part number	Description
<b>PFCQ531-H1-3</b>	Power supply cable
<b>PFCQ531-B1</b>	Bracket
<b>PFCQP-910S-31</b>	Protective plug
<b>PFG310-XY-M-Y-X105</b>	Digital flow monitor
<b>ZS-33-D</b>	Lead wire with connector
<b>ZS-28-C-1</b>	Sensor connector

## Applications

N<sub>2</sub> gas filling in load port FOUPs (Front Opening Unified Pod)



N<sub>2</sub> gas filling in EFEM (Equipment Front End Module)



- N<sub>2</sub> purge of silicon wafers to remove foreign matters
- N<sub>2</sub> filling to prevent oxidation of food
- Wire tension control
- Flow control of N<sub>2</sub> gas to prevent lead frame oxidation
- N<sub>2</sub> blow to prevent image distortion by heat haze.

## Related products



**Nozzles for blowing**  
KN Series



**Micro-mist separator**  
AFD-D Series



**Regulator & regulator w/  
backflow function**  
AR-D Series



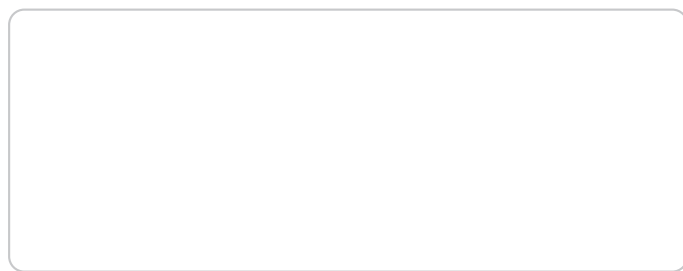
**Mist separator**  
AFM-D Series



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