

**92**mm sq.

# San Ace 92

25mm thick (9GA type), 25mm thick (9S type)  
 25mm thick (9P type), 25mm thick (San Cooler) (9A type)  
 32mm thick (9G type), 38mm thick (9GA type)  
 38mm thick (9HV type), **38mm thick (9GV type)**  
 38mm thick (9G type)



## General Specifications

- Material ..... Frame: Plastics (Flammability: UL94V-0),  
 Impeller: Plastics (Flammability: UL94V-1)
- Expected Life ..... Refer to specifications (L10:Survival rate:90% at 60°C ,  
 rated voltage, and continuously run in a free air state)
- Lead Wire ..... ⊕red ⊖black (Sensor) yellow (Control) brown
- Storage Temperature ..... -30°C to +70°C (Non-condensing)

**92×92×38mm** (Mass : 250g) **9GV type** 

## Specifications

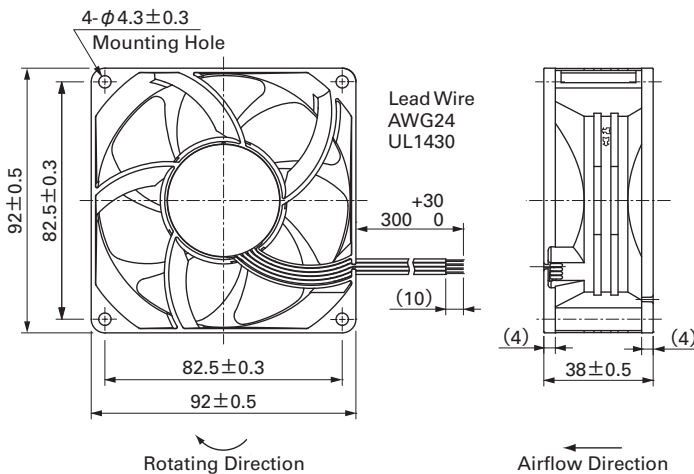
The following nos. **have PWM controls, pulse sensors, and ribs.** For ribless, append "1" to the model no.

| Model No.    | Rated Voltage [V] | Operating Voltage Range [V] | PWM duty cycle※ [%] | Rated Current [A] | Rated Input [W] | Rated Speed [min <sup>-1</sup> ] | Max. Airflow [m <sup>3</sup> /min] [CFM] | Max. Static Pressure [Pa] [inchH <sub>2</sub> O] | SPL [dB(A)] | Operating Temperature [°C] | Expected Life [h] |
|--------------|-------------------|-----------------------------|---------------------|-------------------|-----------------|----------------------------------|--|--|-------------|----------------------------|-------------------|
| 9GV0912P1G03 | 12                | 10.8 to 13.2                | 100                 | 4.10              | 49.2            | 9,000                            | 5.35 189.0                               | 430.0 1.73                                       | 68          | -20 to +70                 | 40,000            |
|              |                   |                             | 0                   | 0.33              | 4.0             | 2,900                            | 1.72 60.8                                | 44.6 0.18  | 37          |                            |                   |
| 9GV0912P1H03 | 12                | 10.2 to 13.8                | 100                 | 3.50              | 42.0            | 8,500                            | 5.05 178.0                               | 385.0 1.55                                       | 64          | -20 to +70                 |                   |
|              |                   |                             | 0                   | 0.29              | 3.5             | 2,700                            | 1.60 56.5                                | 38.8 0.16  | 34          |                            |                   |
| 9GV0912P1F03 | 12                | 10.2 to 13.8                | 100                 | 1.9               | 22.8            | 7,000                            | 4.15 146.6                               | 261 1.05   | 59          | -10 to +70                 |                   |
|              |                   |                             | 0                   | 0.16              | 1.92            | 2,200                            | 1.3 45.9                                 | 25.7 0.1   | 31          |                            |                   |
| 9GV0948P1H03 | 48                | 40.8 to 55.2                | 100                 | 0.82              | 39.4            | 8,500                            | 5.05 178.0                               | 385.0 1.55                                       | 64          | -20 to +70                 |                   |
|              |                   |                             | 0                   | 0.14              | 6.7             | 4,000                            | 2.37 83.7                                | 85.2 0.34  | 45          |                            |                   |
| 9GV0948P1F03 | 48                | 40.8 to 55.2                | 100                 | 0.48              | 23.04           | 7,000                            | 4.15 146.6                               | 261 1.05   | 59          | -10 to +70                 |                   |
|              |                   |                             | 0                   | 0.12              | 5.76            | 3,500                            | 2.07 73.1                                | 65.2 0.26  | 42          |                            |                   |

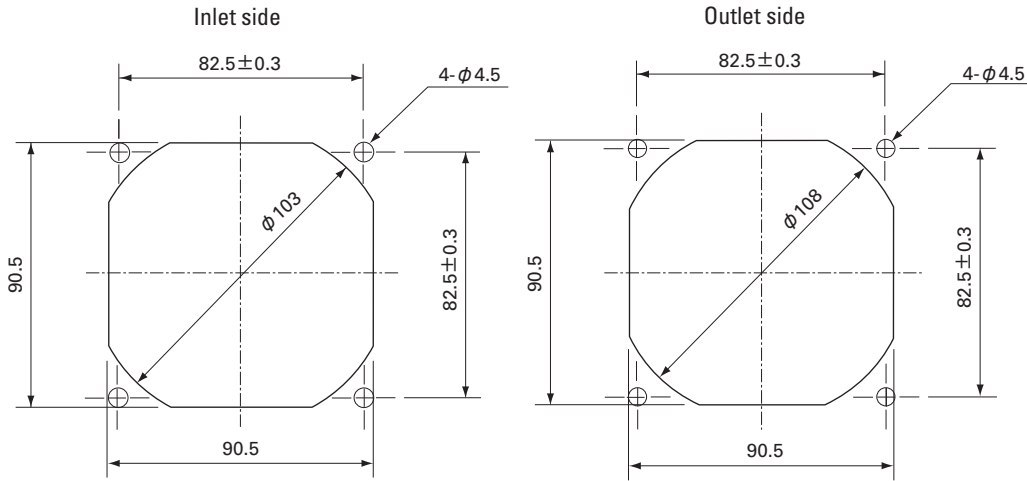
※PWM Frequency : 25kHz

Some models can also be equipped without sensors or with pulse sensors (no PWM control functions) as an option. Please refer to the index (pp. 417 to 437).

## Dimensions (unit : mm) (With ribs)



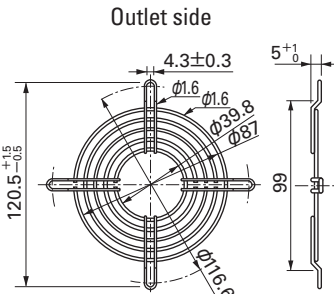
Reference Dimension of Mounting Holes and Vent Opening (unit : mm)



Options (unit : mm)

Finger Guards

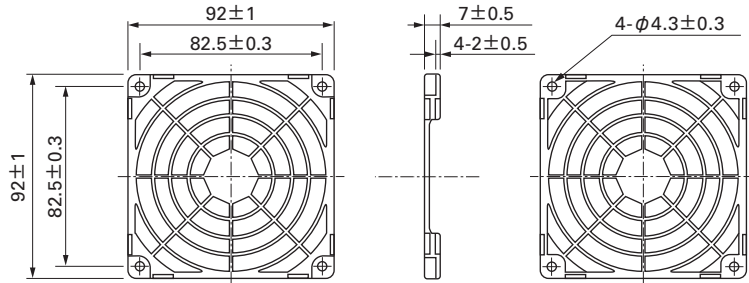
Model : 109-099C Surface treatment : Nickel-chrome plating (silver) Color



Mass : 22g

Resin Finger Guards

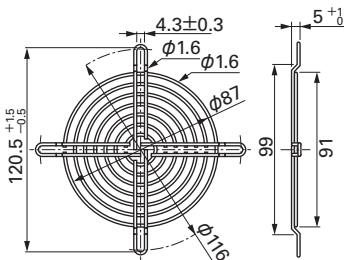
Model : 109-1001G



Mass : 12g

Model : 109-099E Surface treatment : Nickel-chrome plating (silver) Color  
: 109-099H : Cation electropainting (black)

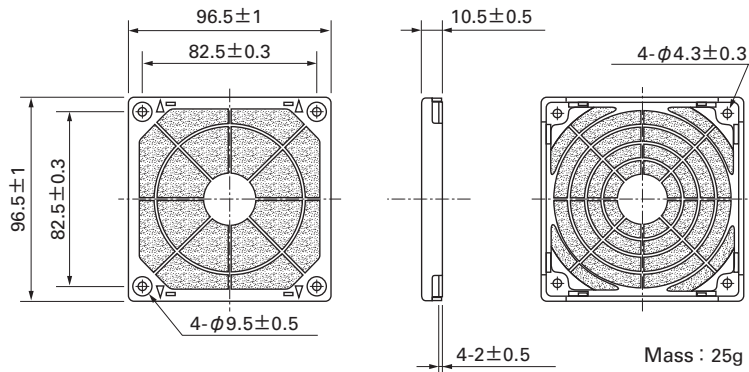
Inlet side, Outlet side



Mass : 29g

Resin Filter Kits

Model : 109-1001F13 (13PPI), 109-1001F20 (20PPI)  
: 109-1001F30 (30PPI), 109-1001F40 (40PPI)



Mass : 25g

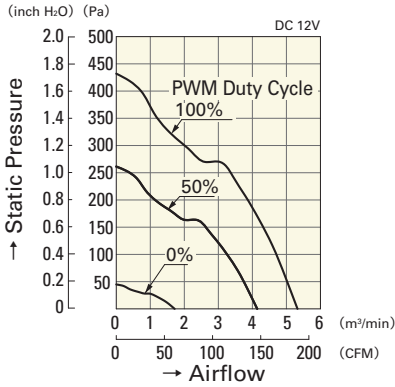
**92**mm sq.

**San Ace 92**

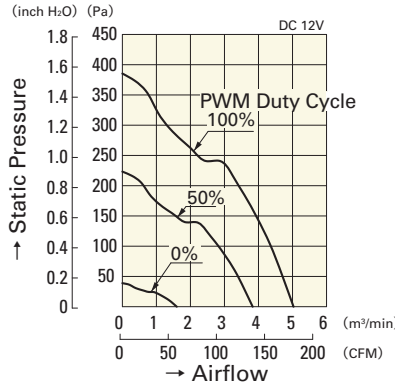
**92×92×38mm** [Mass : 250g]

**Airflow - Static Pressure Characteristics**

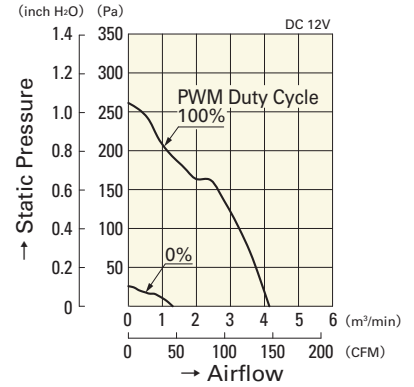
**PWM Duty Cycle**



**9GV0912P1G03**

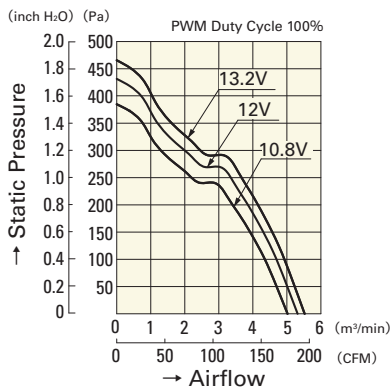


**9GV0912P1H03**

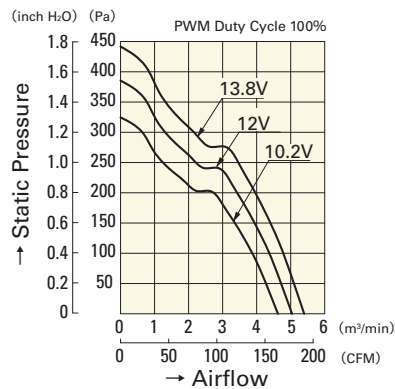


**9GV0912P1F03**

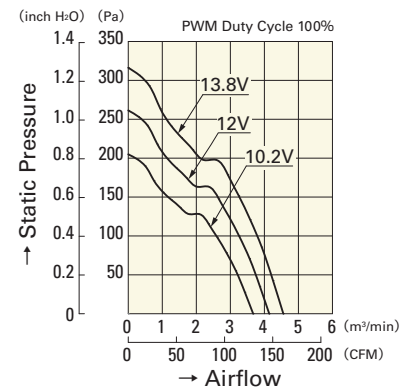
**Operating Voltage Range**



**9GV0912P1G03**

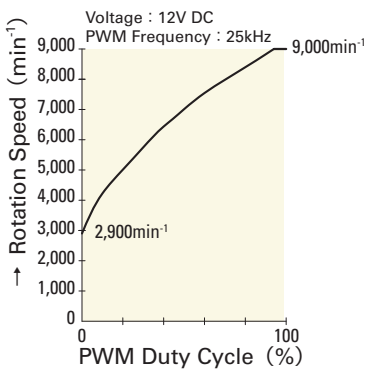


**9GV0912P1H03**

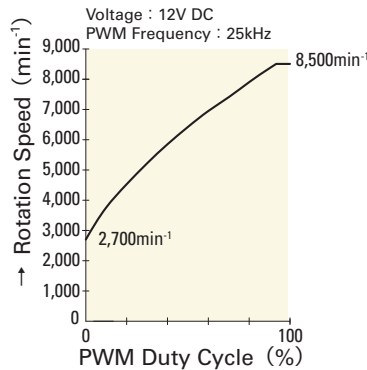


**9GV0912P1F03**

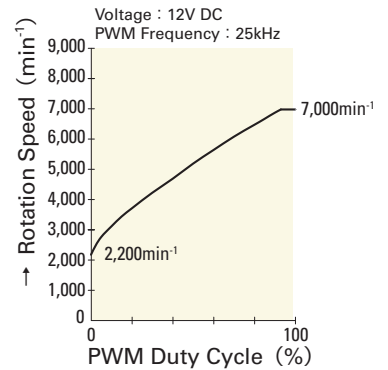
**PWM Duty - Speed Characteristics Example**



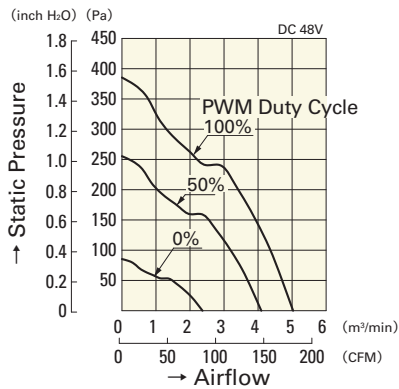
**9GV0912P1G03**



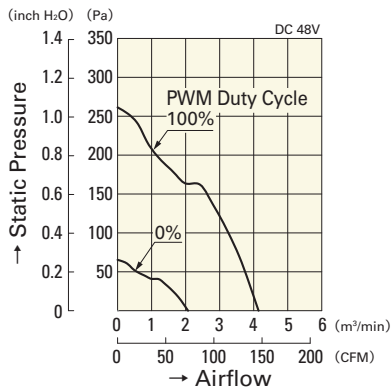
**9GV0912P1H03**



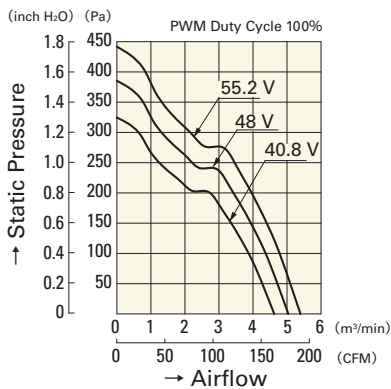
**9GV0912P1F03**



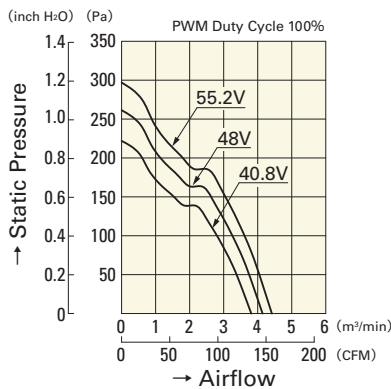
**9GV0948P1H03**



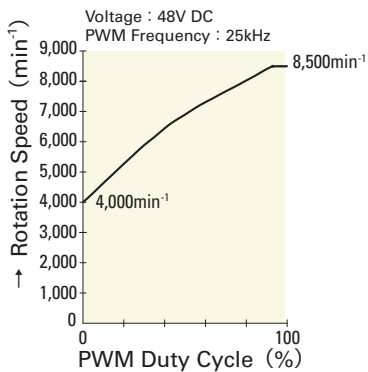
**9GV0948P1F03**



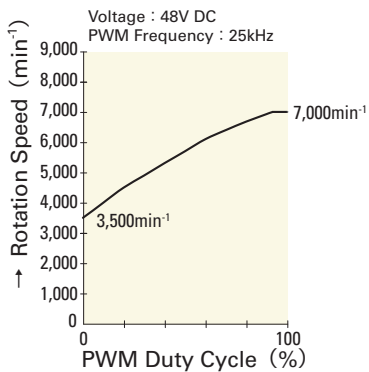
**9GV0948P1H03**



**9GV0948P1F03**



**9GV0948P1H03**



**9GV0948P1F03**