

120mm sq.**San Ace 120**

25mm thick (9S type), 25mm thick (9GV type)
 25mm thick (9G type), 38mm thick (9HV type)
 38mm thick (9GV type), 38mm thick (9G type)
 38mm thick (9SG type)

**General Specifications**

- Material Frame: Aluminum,
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)

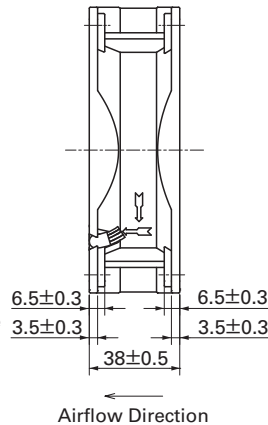
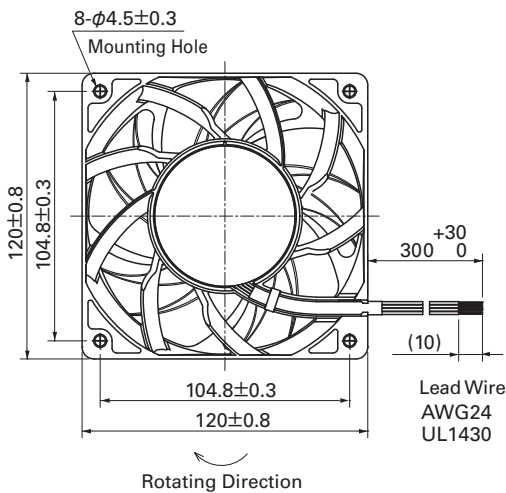
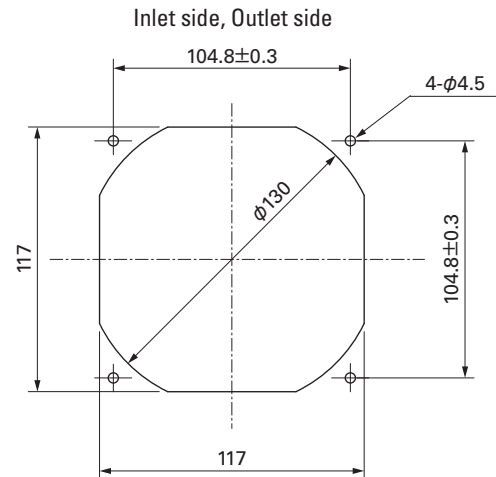
120×120×38mm [Mass : 460g] **9HV type**
Specifications The following nos. **have PWM controls and pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM duty cycle※ [%]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Max. Airflow [m ³ /min] [CFM]	Max. Static Pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating Temperature [°C]	Expected Life ^(note) [h]
9HV1248P1G001	48	36 to 60	100	2.0	96	11,500	8.3 293	1,300 5.22	75	-20 to +70	40,000/60°C (70,000/40°C)
			0	0.23	11	3,800	2.7 95	161 0.65	46		
9HV1248P1H001			100	1.4	67	10,000	7.2 254	1,050 4.22	72		
			0	0.23	11	3,800	2.7 95	161 0.65	46		

Note: Expected life at 40°C ambient is just reference value.

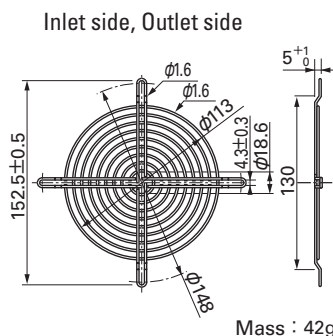
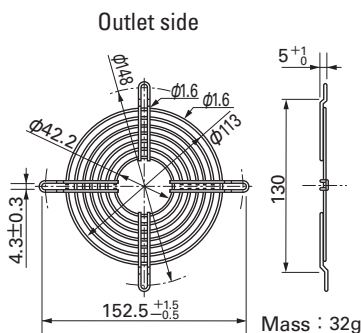
※PWM Frequency : 25kHz

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)**Reference Dimension of Mounting Holes and Vent Opening (unit : mm)****Options (unit : mm)****Finger Guards**

Model : 109-019C Surface treatment : Nickel-chrome plating (silver)
 : 109-019H : Cation electropainting (black)

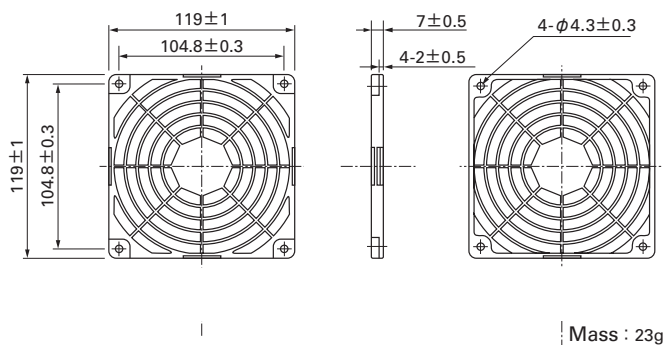
Model : 109-019E Surface treatment : Nickel-chrome plating (silver)
 : 109-019K : Cation electropainting (black)



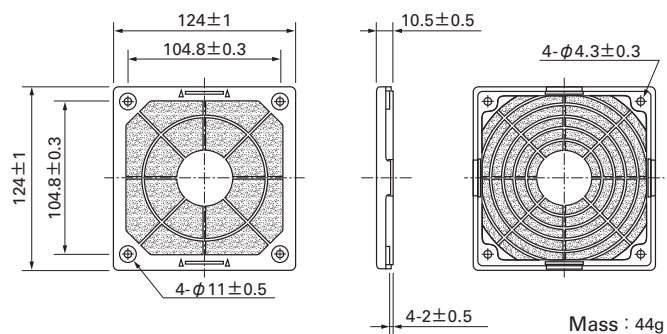
Options (unit : mm)

Resin Finger Guards

Model : 109-1000G

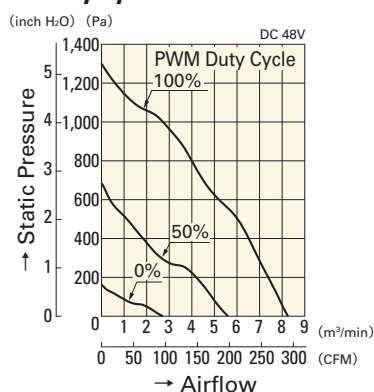


Resin Filter Kits

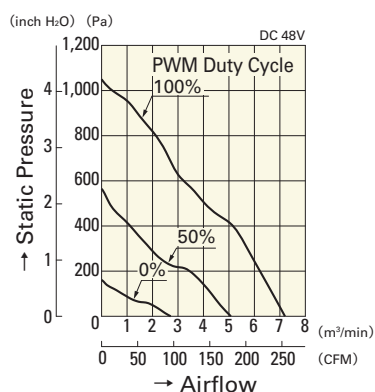
Model : 109-1000F13 (13PPI), 109-1000F20 (20PPI)
: 109-1000F30 (30PPI), 109-1000F40 (40PPI)

Airflow - Static Pressure Characteristics

PWM Duty Cycle

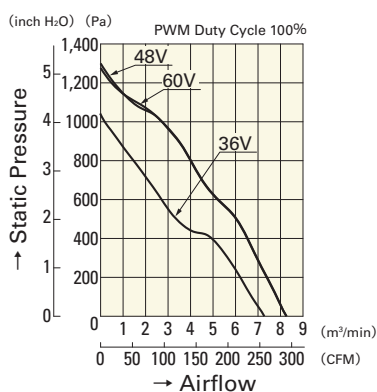


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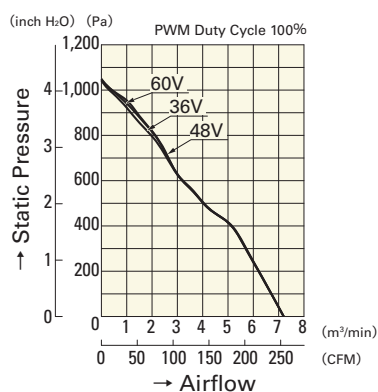


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Operating Voltage Range

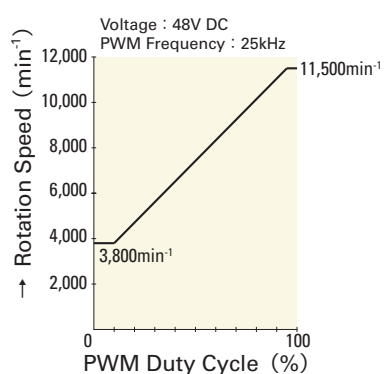


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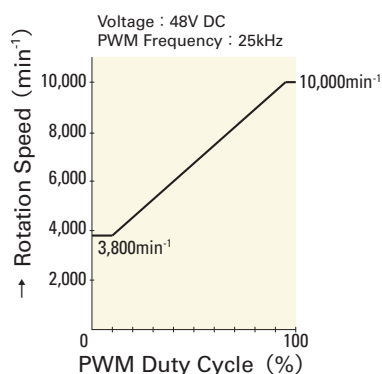


9HV1248P1H001

PWM Duty - Speed Characteristics Example



9HV1248P1G001



9HV1248P1H001