

120mm sq.**San Ace 120**

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

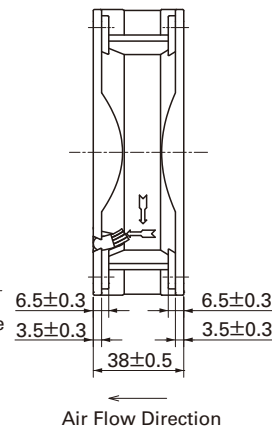
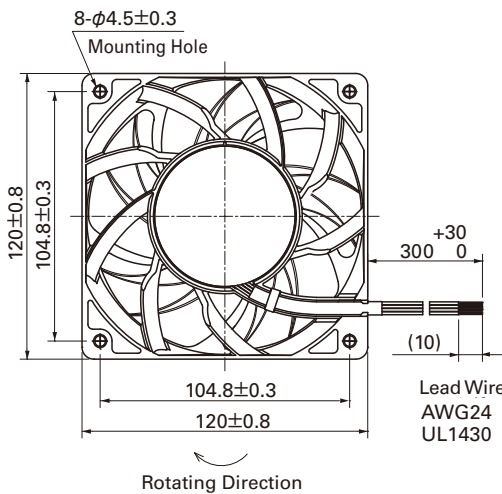
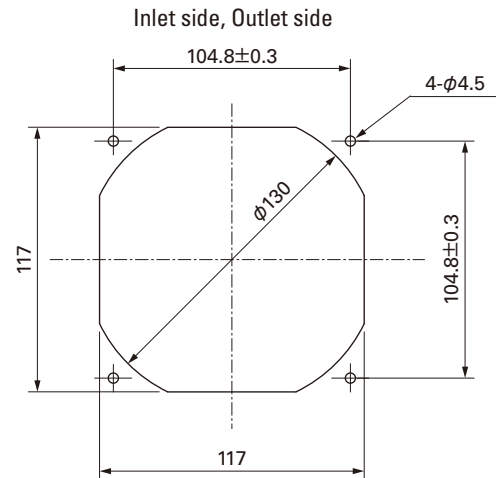
120×120×38mm [Mass : 460g] **HV type****Specifications** The following nos. **have PWM controls and pulse sensors.**

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM duty cycle※ [%]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Max. Air Flow [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.

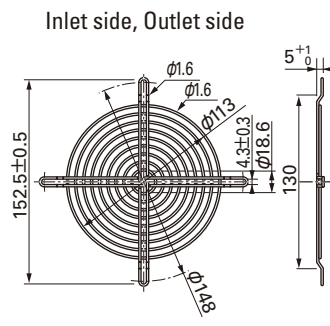
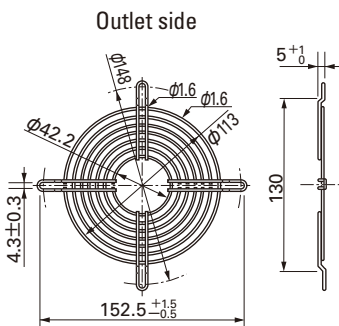
※PWM Frequency : 25kHz

- Available options: ⇒ **Without Sensor** **Pulse Sensor**

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)

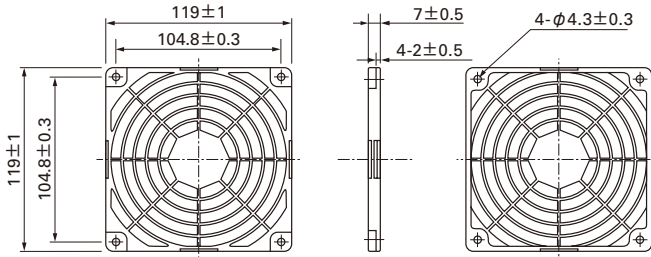
Model : 109-019E Surface treatment : Nickel-chrome plating (silver)
 : 109-019K : Cation electropainting (black)



Options (Unit : mm)

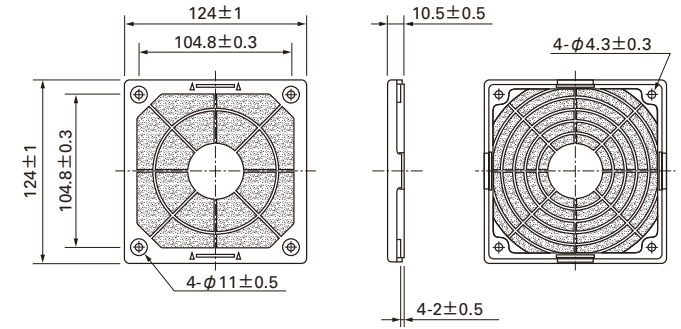
Resin finger guards

Model : 109-1000G



Resin filter kits

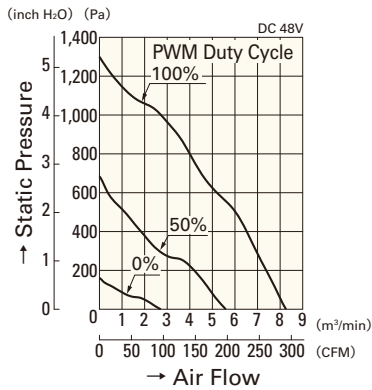
Model : 109-1000F13 (13PPI), 109-1000F20 (20PPI)
: 109-1000F30 (30PPI), 109-1000F40 (40PPI)



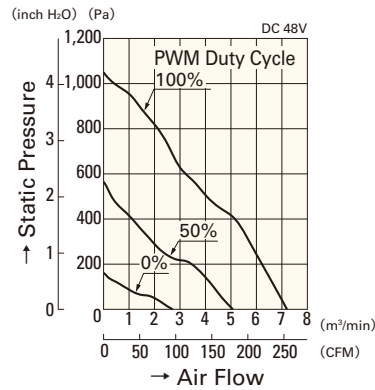
DC Fan 120mm

Air Flow - Static Pressure Characteristics

PWM Duty Cycle

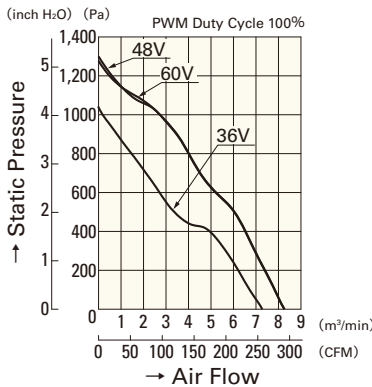


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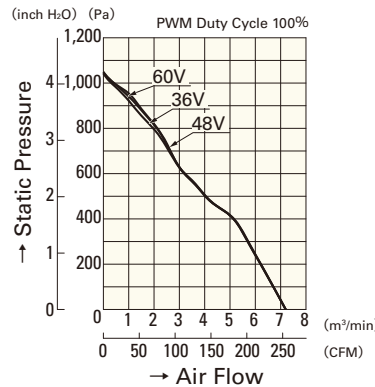


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Operating Voltage Range

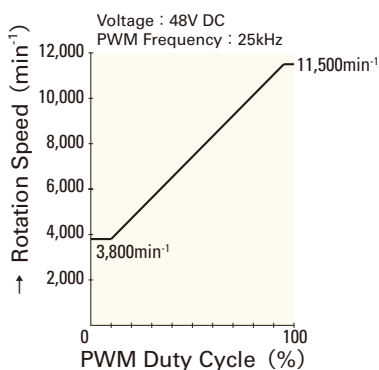


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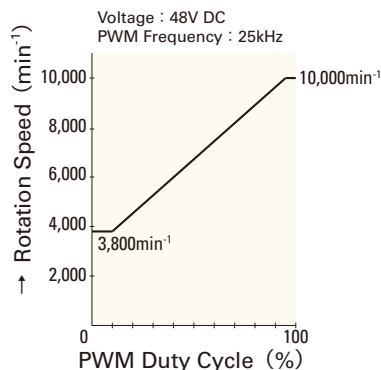


9HV1248P1H001

PWM Duty - Speed Characteristics Example



9HV1248P1G001



9HV1248P1H001