Counter Rotating Fan

□120mm San Ace 120

76mm thick（CR type）

General Specifications

With a pulse sensor Specifications for pulse sensors ⇨ Refer to Page 239

With PWM speed control function

*Please inquire about other specifications.

- Material ····· Frame: Plastics (Flammability: UL94V-0), Impeller:Plastics (Flammability: UL94V-1)
- Life Expectancy ····· Varies for each model (L10:Survival rate:90% at 60℃, rated voltage, and continuously run in a free air state)
- Lead Wire ····· Inlet ⊕red ⊖black Sensor yellow Control brown
  Outlet ⊕orange ⊖gray Sensor purple Control white
- Storage Temperature ···−30℃ to +70℃ (Non-condensing)

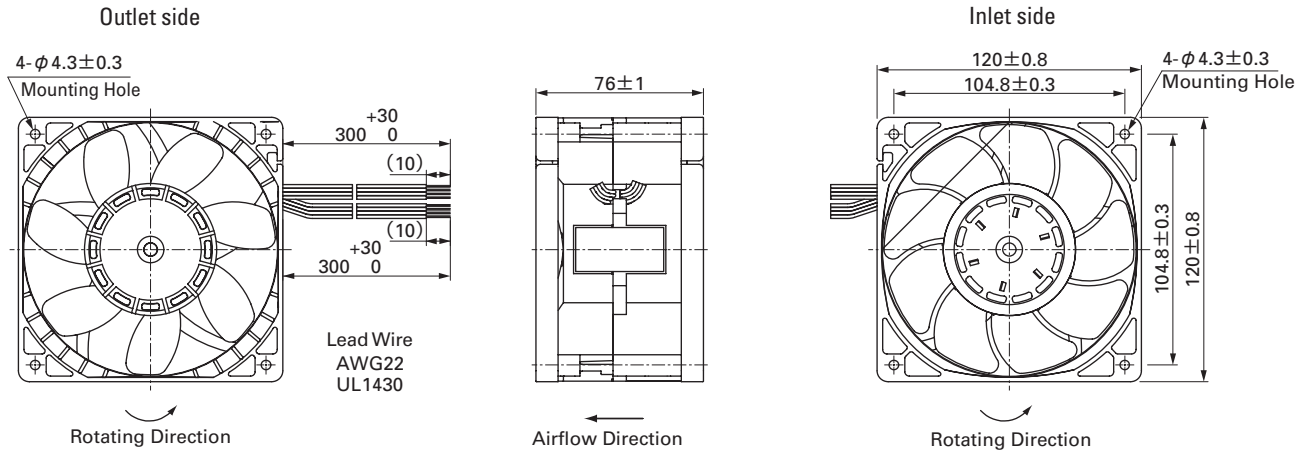
□120mm×76mm thick (Mass：670g) CR type

Specifications

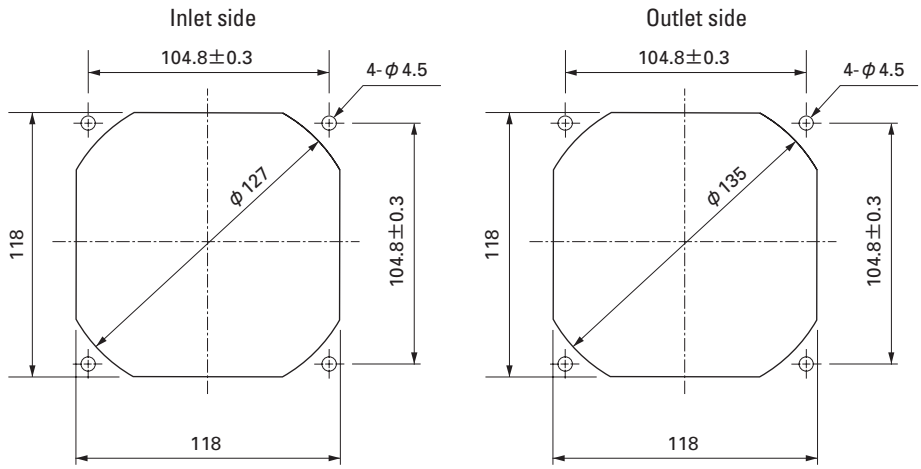
Model No.	Rated Voltage (V)	Operating Voltage Range (V)	PWM duty cycle※ (%)	Rated Current (A)	Rated Input (W)	Rated Speed (min⁻¹) Inlet	Rated Speed (min⁻¹) Outlet	Air Flow (m³/min)	Air Flow (CFM)	Static Pressure (Pa)	Static Pressure (inchH₂O)	SPL (dB[A])	Operating Temperature Range (℃)	Life Expectancy (h)
9CR1212P0G03	12	10.8 to 13.2	100	7.2	86.4	6,200	3,800	8.5	300	480	1.93	70	−10 to +60	40,000
			0	1.1	13.2	2,700	1,800	3.8	134	95	0.38	51		

※PWM Frequency：25kHz

Dimensions (Unit：mm)



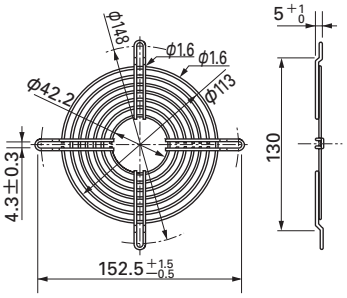
Reference dimension of mounting holes and vent opening (Unit：mm)



Options (Unit : mm)

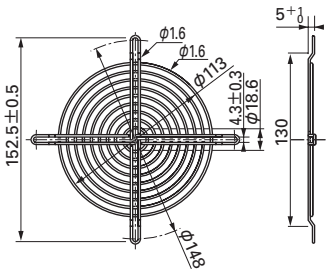
Finger guards

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



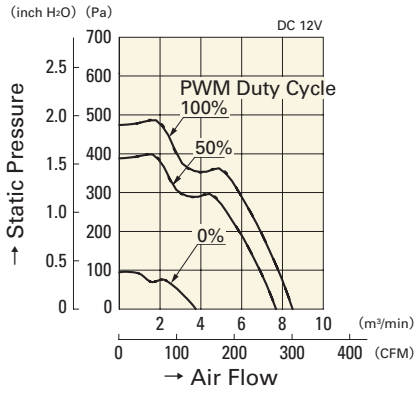
Model : 109-019E Surface treatment : Nickel-chrome plating (silver) Color
: 109-019K : Cation electropainting (black)

Inlet side, Outlet side



Air Flow and Static Pressure Characteristics

PWM Duty Cycle



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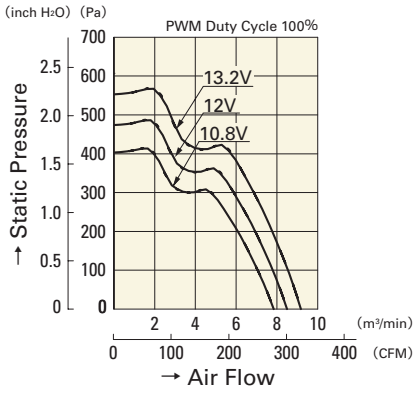
Operating Voltage Range



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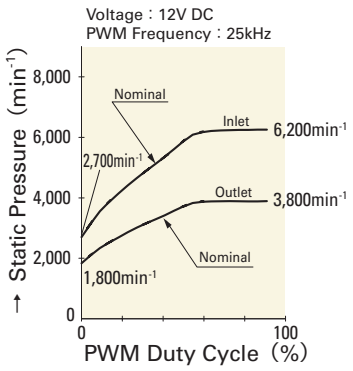
PWM Duty Speed Characteristics Example



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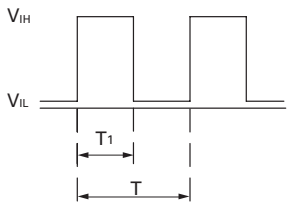
PWM Input Signal Example

Input Signal Wave Form



VIH=4.75V to 5.25V

VIL=0V to 0.4V

PWM Duty Cycle (%) = $\frac{T1}{T} \times 100$

PWM Frequency 25 (kHz) = $\frac{1}{T}$

Source Current (Isource) : 1mA Max. at control voltage 0V

Sink Current (Isink) : 1mA Max. at control voltage 5.25V

Control Terminal Voltage : 5.25V Max. (Open Circuit)

When the control lead wire is no connecting, the speed is the same speed as at 100% of PWM duty cycle.

This fan speed should be controlled by PWM input signal of either TTL input or open collector, drain input.

Connection Schematic