AC Fan San Ace 120 AD 9AD type

Features

Low Power Consumption

Power consumption is reduced by approximately 72% compared with our conventional AC fan.*

Long Life

The San Ace 120AD has an expected life of 60,000 hours (approximately 6 years), approximately 2.4 times that of our conventional AC fan.*

Wide Range

A rated voltage range of 100 to 240 VAC allows for usage in both 100 VAC and 200 VAC systems. Rotation speed remains constant even at different input voltages.

* Our conventional AC fan is 120 x 120 x 38 mm "San Ace 120", Model No. 109S072UL at a frequency of 60 Hz.



(Ribless model depicted

120×120×38_{mm}

Specifications

The model no. below has ribs and no sensors. For models without ribs, append "1" to the model no.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Frequency (Note) [Hz]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Max. Ai [m³/min]	r Flow [CFM]	Max. Sta [Pa]		SPL [dB(A)]	Operating Temperature [°C]	Expected Life [h]
9AD1201H12	100 to 240	90 to 264	50/60	0.08	4.4	3,250	3.0	106	84	0.34	42	-20 to +75	60,000

Note: 50/60 Hz compatible.

Available options: Low Speed Sensor

Please contact us for details on the following specifications: Pulse Sensor Lock Sensor

Common Specifications

☐ Material · · · · · · Frame: Plastics (Flammability: UL94V-0), Impeller: Plastics (Flammability: UL94V-1) ☐ Expected Life · · · · · Refer to specifications (L10: Survival rate: 90% at 60 $^{\circ}$ C, rated voltage, and continuously run in a free air state) ☐ Motor Protection System · · · · · · Burnout protection at locked rotor condition ☐ Dielectric Strength · · · · · 50/60 Hz, 1,500 VAC, 1 minute (between power terminal and frame or between lead conductor and frame) \Box Sound Pressure Level (SPL) $\cdots\cdots$ Expressed as the value at 1 m from air inlet side \square Operating Temperature $\cdots\cdots$ Refer to specifications (Non-condensing) \square Storage Temperature $\cdots -30~\%$ to +75 % (Non-condensing) ☐ Mass · · · · · Approx. 290 g

San Ace 120 AD 9AD type

Air Flow - Static Pressure Characteristics

(inch H₂O) (Pa) 0.4 90 80 0.3 70 Static pressure 100 to 240 V 50/60 Hz 60 0.2 50 30 0.1 20 10 0 0 2 3 150 (CFM) 0 50 100

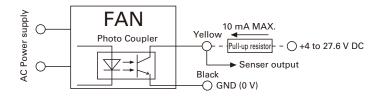
Air flow

Wiring Diagram

AC Power supply

with Sensor

Standard

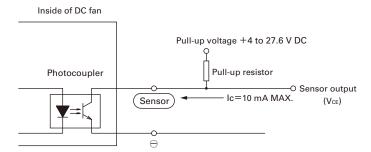


Specifications for Low-speed Sensors

Typical standard model: 9AD1201H1H

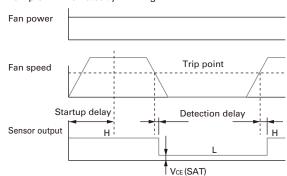
Output circuit: Open collector

 V_{CE} =+27.6 V DC MAX. Ic=10 mA MAX. [VcE(SAT) =1.0 V MAX.]

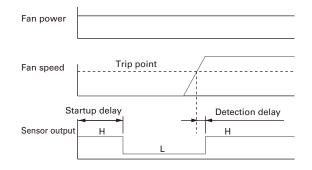


Sensor scheme

Example 1: when steady running



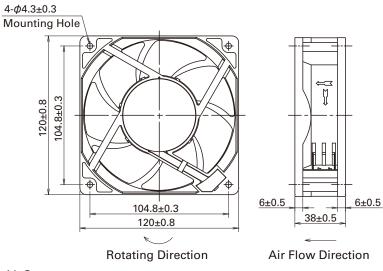
Example 2: when the rotor is locked when the fan motor is turned on and released after the start-up delay time.

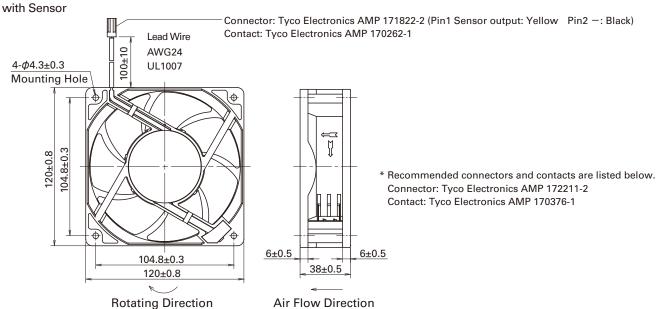


Startup delay: 18±3 sec. Detection delay: 3 sec. MAX. Trip point: 1700 min⁻¹

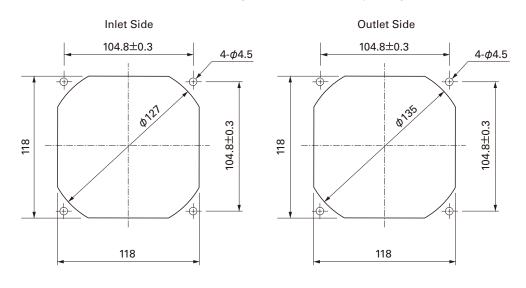
Dimensions (unit : mm) (With ribs)

Standard





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



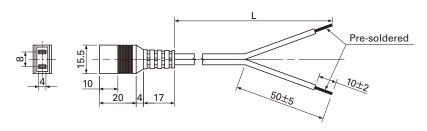
Option

Plug cord

Model: 489-1635-L₁₀, 489-1635-L₂₁

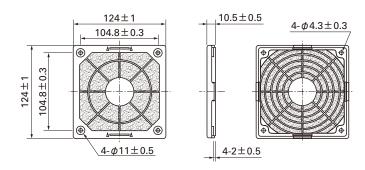


Model	Power cord length (mm)						
-L ₁₀	1,000						
-L ₂₁	2,100						



Resin filter kits

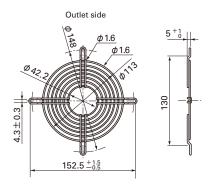
Model: 109-1000F13 (13PPI), 109-1000F20 (20PPI), 109-1000F30 (30PPI), 109-1000F40 (40PPI)

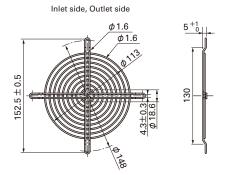


Finger guards

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

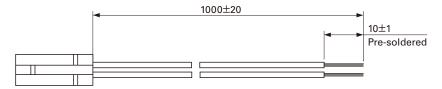
Model: 109-019E Surface treatment: Nickel-chrome plating (silver) : 109-019K : Cation electropainting (black)





Wiring harness for sensor

Model: 489-1636



Notice

The products shown in this catalog are subject to Japanese Export Control Law. Diversion contrary to the law of exporting country is prohibited.

To protect against electrolytic corrosion that may occur in locations with strong electromagnetic noise, we provide fans that are unaffected by electrolytic corrosion.

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