SanAce 80 9HVA type High Static Pressure Fan

Features

High Static Pressure

The maximum static pressure increased by approximately 35% compared with our conventional DC fan, while maintaining equivalent maximum airflow performance.*

It is an ideal cooling solution especially for densely-packed equipment.

Suitable for 2U Devices

Measuring 80 mm square, this new fan is ideal for 2U sized equipment.

*: Our conventional DC fan is 80 x 80 x 38 mm "San Ace 80" 9HV type, Model No. 9HV0812P1G001.

80×80×38 mm

Specifications

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

Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle (Note 1,2) [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. a [m³/min]		Max. sta [Pa]	tic pressure [inchH2O]	SPL [dB(A)]	Operating temperature [°C]	Expected life [h]
9HVA0812P1G001	12	10.8 to 13.2	100	3.5	42	16,100	3.75	132	1,350	5.4	73	-20 to +70	40,000 / 60 ℃ (70,000 / 40 ℃)
			20	0.2	2.4	4,200	0.96	33.9	105	0.42	44		

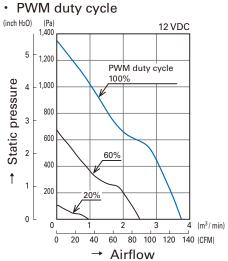
Note1: PWM frequency: 25 kHz Note2: Fan does not rotate when PWM duty cycle is 0%.

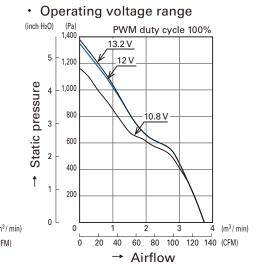
Models with the following sensor specifications are also available as options: Without sensor

Common Specifications

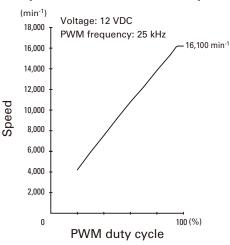
🗌 Material · · · · · · · · · · · · · · · · · · ·	Frame, Impeller: Plastics (Flammability: UL94V-0)							
Expected life ·····	Refer to specifications							
	(L10: Survival rate: 90% at 60 °C, rated voltage, and continuously run in a free air state)							
\Box Motor protection system \cdots	Current blocking function and reverse polarity protection							
\Box Dielectric strength \cdots	50 / 60 Hz, 500 VAC, 1 minute (between lead conductor and frame)							
\Box Sound pressure level (SPL) $\cdots \cdots$	Expressed as the value at 1 m from air inlet side							
□ Operating temperature ······	Refer to specifications (Non-condensing)							
□ Storage temperature ·····	-30 °C to +70 °C (Non-condensing)							
🗌 Lead wire ·····	\oplus Red \ominus Black Sensor: Yellow Control: Brown							
□ Mass ·····	220 g							

Airflow - Static Pressure Characteristics





PWM Duty - Speed Characteristics Example







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PWM Input Signal Example Example of Connection Schematic Input signal waveform VIH=4.75 V to 5.25 V 0 Inside of DC fan DC fan input voltage VIL=0 V to 0.4 V VIH PWM duty cycle (%) = $\frac{T1}{T} \times 100$ 5V PWM frequency 25 (kHz) = $\frac{1}{T}$ 10kΩ Source current (Isource) : 1 mA max. at control voltage 0 V Control 22Ω VIL -Sink current (Isink) : 1 mA max. at control voltage 5.25 V 0-Control terminal voltage: 5.25 V max. (Open circuit) PWM input signal Isource T1 20kO

When the control lead wire is open,

the fan speed is the same as the one at a PWM duty cycle of 100%.

for PWM control input signal.

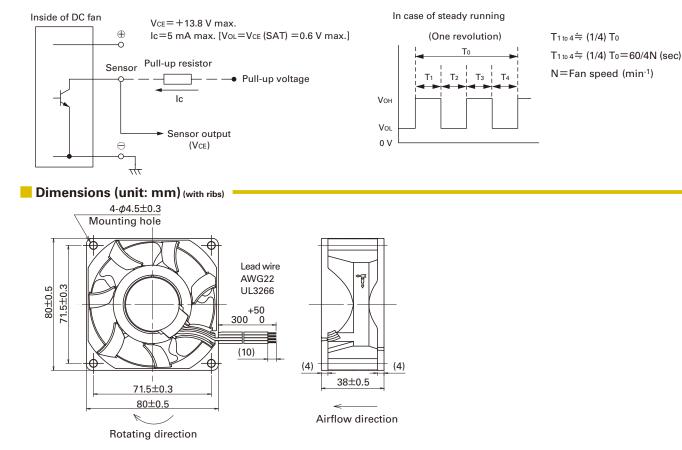
Either TTL input, open collector or open drain can be used

Specifications for Pulse Sensors

Output circuit: Open collector

Output waveform (Need pull-up resistor)

lsink



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

Inlet side, Outlet side 4-*ф* 4.5 090 71.5±0.3 78.5 71.5±0.3 78.5

Notice

Please read the "Safety Precautions" on our website before using the product. The products shown in this catalog are subject to Japanese Export Control Law. Diversion contrary to the law of exporting country is prohibited.

For protecting fan bearings against electrolytic corrosion near strong electromagnetic noise sources, we provide effective countermeasures such as Electrolytic Corrosion Proof Fans and EMC guards. Contact us for details.

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Specifications are subject to change without notice