San Ace 80 DC fan

Features

High Static Pressure

Maximum static pressure is increased by approx. 2times compared with our conventional product*.

Low Noise

Achieved low noise: 69 dB(A).

* Our conventional product is 80 x 80 x 38 mm thick. San Ace 80 GVtype, Model No. 9GV0812P1G03.





$80{\times}80{\times}38_{mm}~\text{HV type}$

Specifications

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM Duty Cycle [%] Note1)	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Max. Air Flo [m³/min] [C	low CFM]	Max. Stati [Pa]	c Pressure [inchH2O]	SPL [dB(A)]	Operating Temperature [°C]	Expected Life [h]
9HV0812P1G001(0011)	12	10.8 to13.2	100	3.4	40.8	14,900	3.7 13	30.7	1,000	4.0	69	1 - 10 to + 70 l	40,000/60℃ (70,000/40℃)
			0	0.64	7.68	4,400	1.06 3	37.5	87.2	0.35	40		
9HV0848P1G001(0011)	48	36 to 57	100	0.85	40.8	14,900	3.7 13	30.7	1,000	4.0	69		
			0	0.13	6.24	4,400	1.06 3	37.5	87.2	0.35	40		

The numbers in () represent ribless models.

Note1 : PWM Frequency : 25kHz

Note2 : Expected life at 40 degreeC ambient is just reference value.

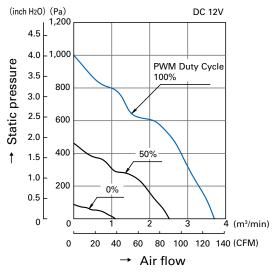
Common Specifications

Jmm

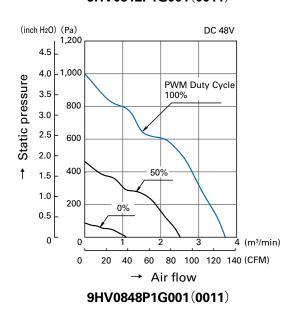
San Ace 80

Air Flow - Static Pressure Characteristics

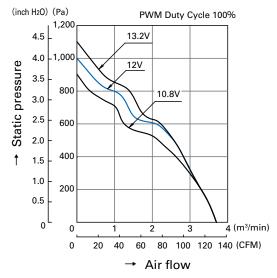
PWM Duty Cycle



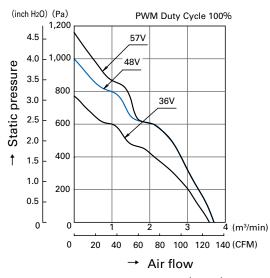
9HV0812P1G001(0011)



· Operating Voltage Range

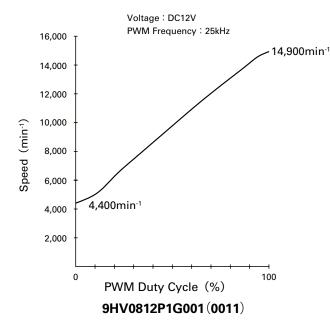


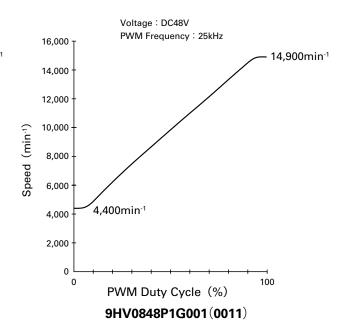
9HV0812P1G001(0011)



9HV0848P1G001(0011)

PWM Duty - Speed Characteristics Example





PWM Input Signal Example

Input Signal Wave Form

 V_{IH} VIL - V_{IH}=4.75V to 5.25V

V_{IL}=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)

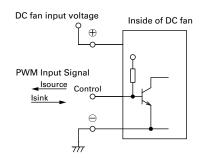
When the control lead wire is open,

speed is same as one at 100% PWM duty cycle.

This fan speed should be controlled by PWM input signal of either

TTL input or open collector, drain input.

Connection Schematic



Specifications for Pulse Sensors

Output circuit: Open collector

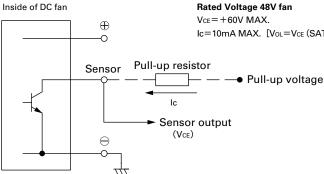
Rated Voltage 12V fan

V_{CE}=+15V MAX.

Ic=10mA MAX. [Vol=Vce (SAT) = 0.6V MAX.]

Rated Voltage 48V fan

Ic=10mA MAX. [Vol=Vce (SAT) = 0.6V MAX.]



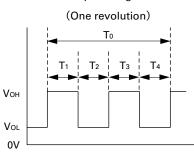
Output waveform (Need pull-up resistor)

In case of steady running

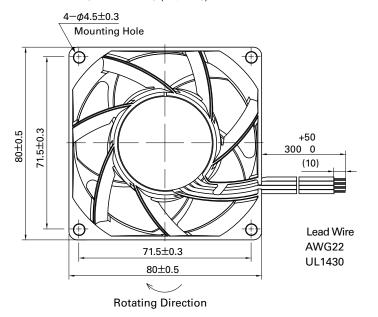
 $T_{1\sim 4} = (1/4) T_0$

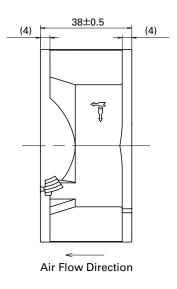
 $T_{1\sim 4} = (1/4) T_0 = 60/4N \text{ (sec)}$

N=Fan speed (min-1)



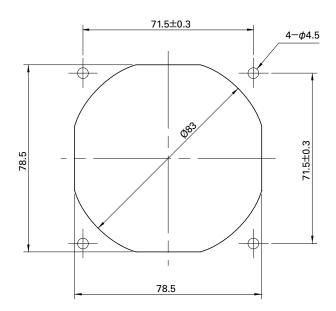
Dimensions (unit : mm) (with ribs)



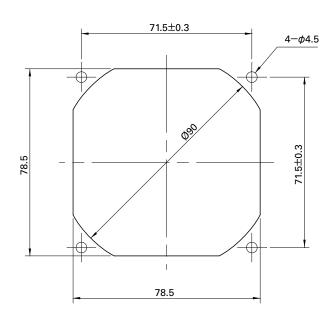


Reference dimension of mounting holes and vent opening (unit : mm)

Inlet Side



Outlet Side



Notice

The products shown in the 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.