# San Ace 92*WF* 9WFA type

## Oil Proof Fan


## Features

### High Airflow and High Static Pressure

This fan delivers a maximum airflow of 2.85 $m^3$/min and maximum static pressure of 250 Pa.*
Compared with the current model,** maximum airflow and maximum static pressure have increased 2 times and 3.8 times, respectively.

### Oil-proof

The windings and electronic components are structurally protected by materials with excellent oil resistance, and stable operation is maintained even in harsh oil mist environments.

*Tested using a model 9WFA0924G4001
** Current model: *San Ace 92WF* 9WF type 92 × 92 × 25 mm Oil Proof Fan (model no. 9WF0924H401).

**92 × 92 × 25 mm**

## Specifications

The models listed below **have ribs and pulse sensors.**

| Model no. | Rated voltage [V] | Operating voltage range [V] | Rated current [A] | Rated input [W] | Rated speed [$min^{-1}$] | Max. airflow [$m^3$/min] | [CFM] | Max. static pressure [Pa] | [inch$H_2O$] | SPL [dB(A)] | Operating temperature [°C] | Expected life [h] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9WFA0924G4001 | 24 | 20.4 to 27.6 | 0.45 | 10.8 | 7350 | 2.85 | 100.6 | 250 | 1.0 | 56 | -20 to +70 | 40000/60°C (70000/40°C) |
| 9WFA0924H4001 | | | 0.28 | 6.72 | 6100 | 2.35 | 83.0 | 171 | 0.69 | 52 | | |

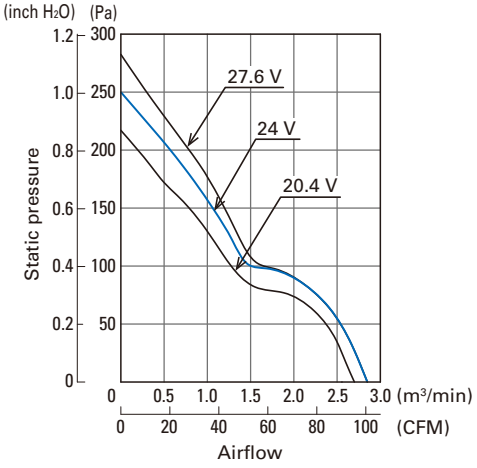
Models with the following sensor specifications are also available as options: Without sensor Lock sensor

## Common Specifications

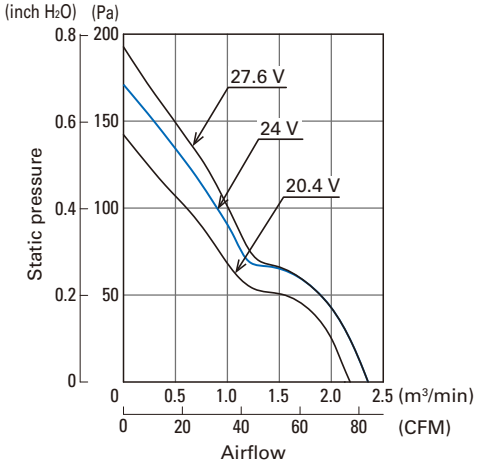
- Material ····· Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- Expected life ····· Refer to specifications
  (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)
  Expected life at 40°C is for reference only.
- Motor protection system ····· Current blocking function and reverse polarity protection
- Dielectric strength ····· 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Sound pressure level (SPL) ····· At 1 m away from the air inlet
- Operating temperature ····· Refer to specifications (Non-condensing)
- Storage temperature ····· -30 to +70°C (Non-condensing)
- Lead wire ····· ⊕ Red ⊖ Black Sensor Yellow
- Mass ····· Approx. 170 g

## Airflow - Static Pressure Characteristics

・ Operating voltage range



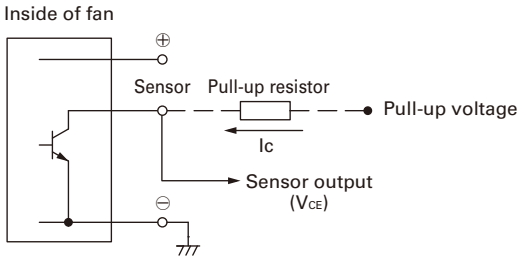

**9WFA0924G4001**




**9WFA0924H4001**

## Specifications for Pulse Sensors

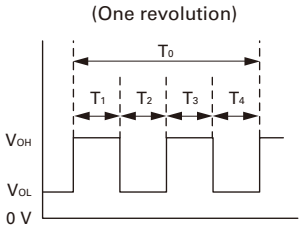
Output circuit: Open collector




$V_{CE}$ = +27.6 V max.
Ic = 5 mA max. [$V_{OL}$ = $V_{CE}$ (SAT) = 1.0 V max.]

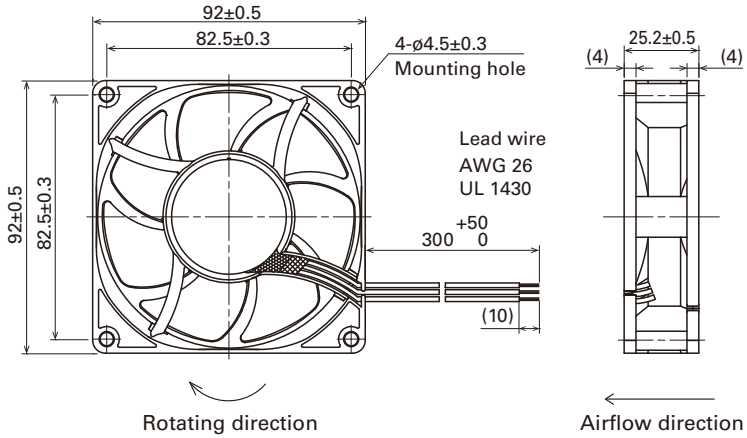
Output waveform (Need pull-up resistor)

In case of steady running

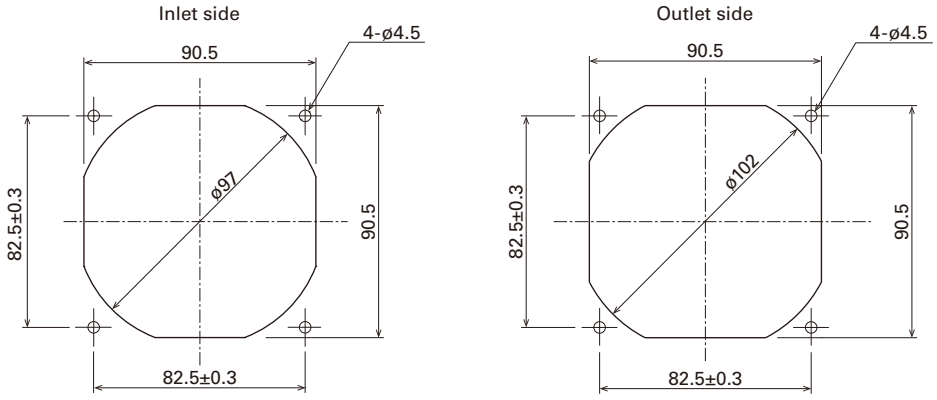



$T_{1\ to\ 4} \fallingdotseq (1/4)\ T_0$
$T_{1\ to\ 4} \fallingdotseq (1/4)\ T_0 = 60/4N$ (s)
N = Fan speed ($min^{-1}$)

## Dimensions (unit: mm)




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




## 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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