

San Ace 190AD

ACDC Fan

9ADTU type

Features

High Static Pressure

This fan delivers a maximum static pressure of 1200 Pa. They are ideal for blowing applications in air conditioning systems such as FFU (fan filter units) and air purifiers, which require high static pressure performance, and for cooling inverters and the housings of communication systems, which have high mounting density.

No DC Power Supply Required

With an embedded AC-DC converter, these fans can be driven by an AC power supply. This eliminates the need for a high-capacity DC power supply, reducing overall costs.

Low Noise and High Energy Efficiency

The PWM control function enables the control of fan speed, contributing to lowering noise and improving energy efficiency of devices.



Ø190 × 88 mm

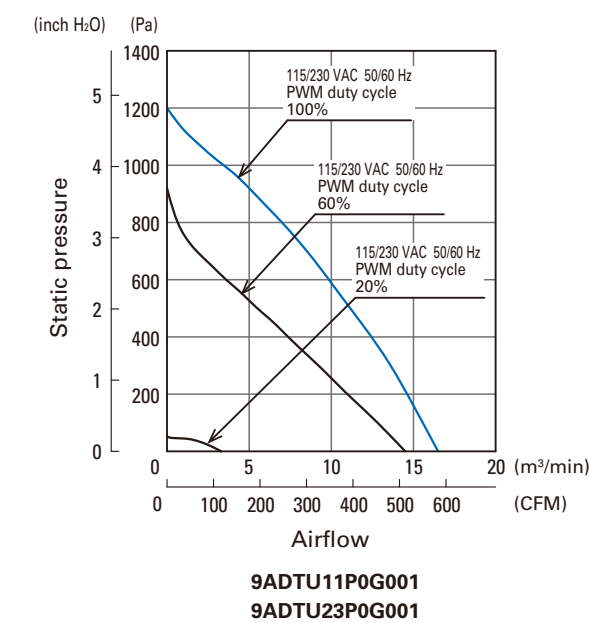
Specifications

When the optional inlet nozzle (109-1073) is mounted.

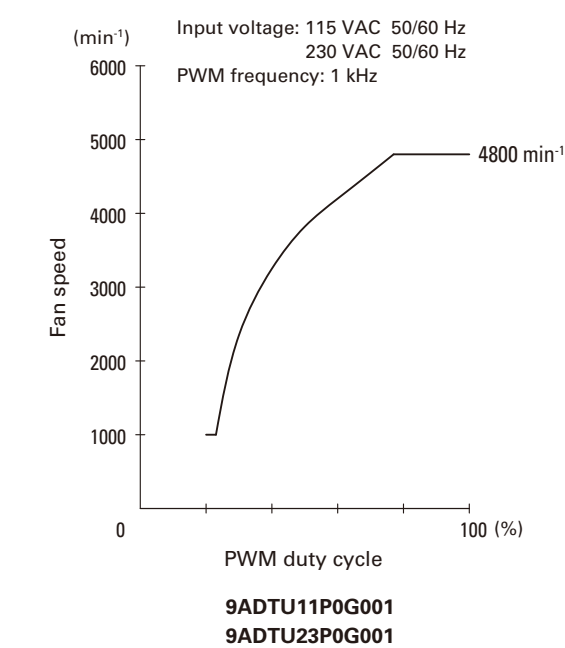
The models listed below **have pulse sensors with PWM control function.**

Model no.	Rated voltage [V]	Operating voltage range [V]	Frequency [Hz]</
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Airflow - Static Pressure Characteristics

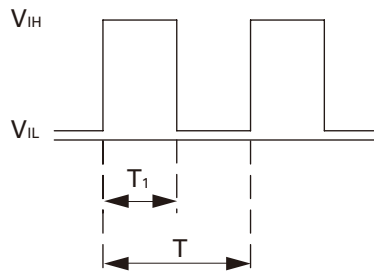


PWM Duty - Speed Characteristics Example



PWM Input Signal Example

Input signal waveform



$$V_{IH} = 2.8 \text{ to } 10.5 \text{ V} \quad V_{IL} = 0 \text{ to } 0.5 \text{ V}$$

$$\text{PWM duty cycle (\%)} = \frac{T_1}{T} \times 100 \quad \text{PWM frequency 1 (kHz)} = \frac{1}{T}$$

Current source (I_{source}) = 5 mA max. (when control voltage is 0 V)

Current sink (I_{sink}) = 0.1 mA max. (when control voltage is 10 V)

Control terminal voltage = 11.5 V max. (when control terminal is open)

When the control terminal is open,
fan speed is the same as when PWM duty cycle is 100%.
Either TTL input, open collector or open drain can be used for
PWM control input signal.

Example of Connection Schematic

