

92x92x38 mm

San Ace 92W 9WV type  

IP68



General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-1)
- Expected life See the table below. (L10 life: 90% survival rate for continuous operation in indoor free air at 60°C, rated voltage)
Expected life at 40°C is for reference only.
- Motor protection function Locked rotor burnout protection, Reverse polarity protection
For details, please refer to p. 616.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) A-weighted sound pressure level (SPL) at 1 m away from the air inlet.
- Storage temperature -30 to +70°C (Non-condensing)
- Lead wire ⊕Red ⊖Black Sensor Yellow Control Brown
- Mass 265 g
- Ingress protection IP68 For more information on IP rating, refer to p. 625.

Specifications

The models listed below **have ribs and a pulse sensor with PWM control.**

Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]	Max. static pressure [Pa] [inchH ₂ O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WV0924P1H001	24	20.4 to 26.4	100	1.6	38.4	8500	5.05 178	385 1.55	64	-20 to +60	30000/60°C (53000/40°C)
			20	0.16	3.84	3000	1.78 62.9	47.9 0.19	38		
9WV0948P1H001	48	40.8 to 52.8	100	0.82	39.4	8500	5.05 178	385 1.55	64	-20 to +70	
			0	0.14	6.7	4000	2.37 83.7	85.2 0.34	45		

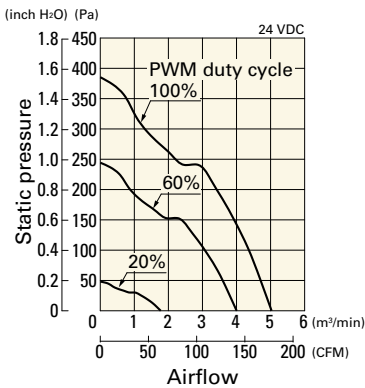
* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

Note: Sensor and control options are available for selection. Refer to the table on p. 663.

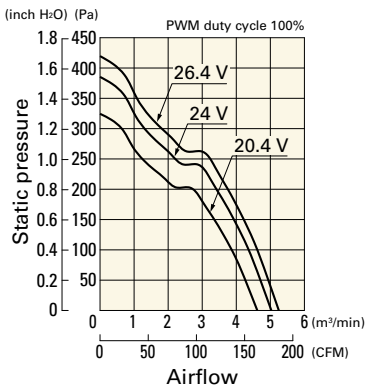
Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

9WV0924P1H001 With pulse sensor with PWM control

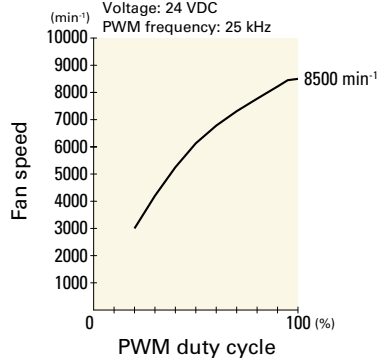
PWM duty cycle



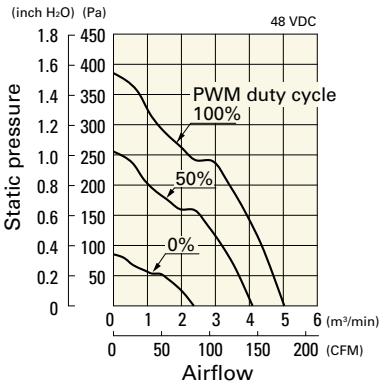
Operating voltage range



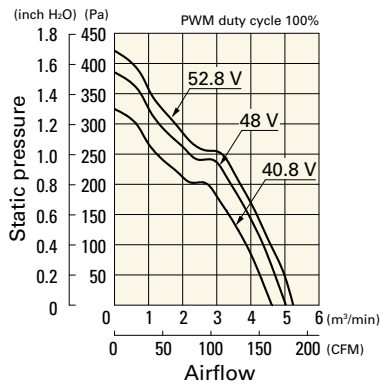
PWM duty - Speed characteristics example



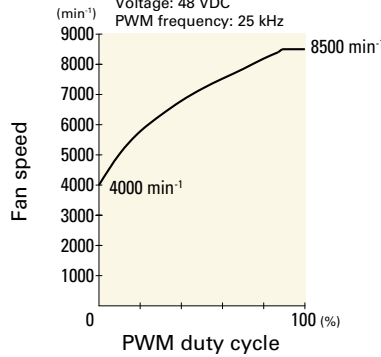
PWM duty cycle



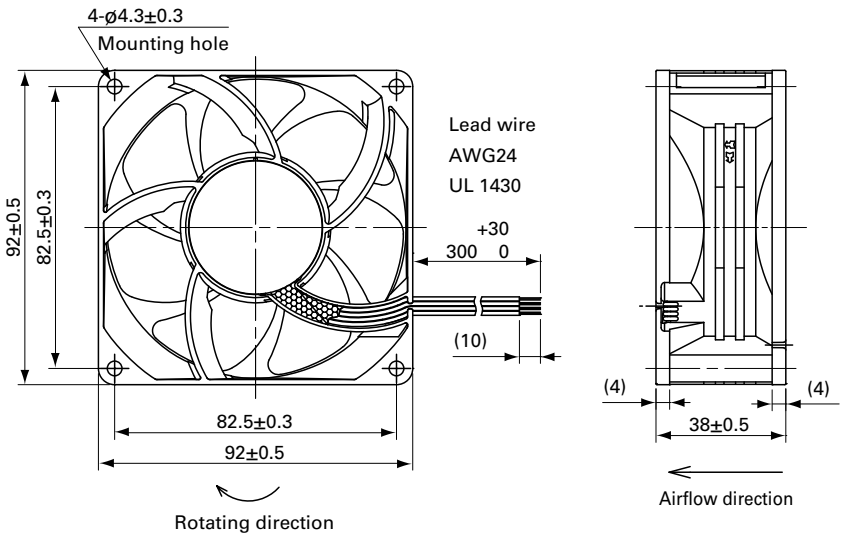
Operating voltage range



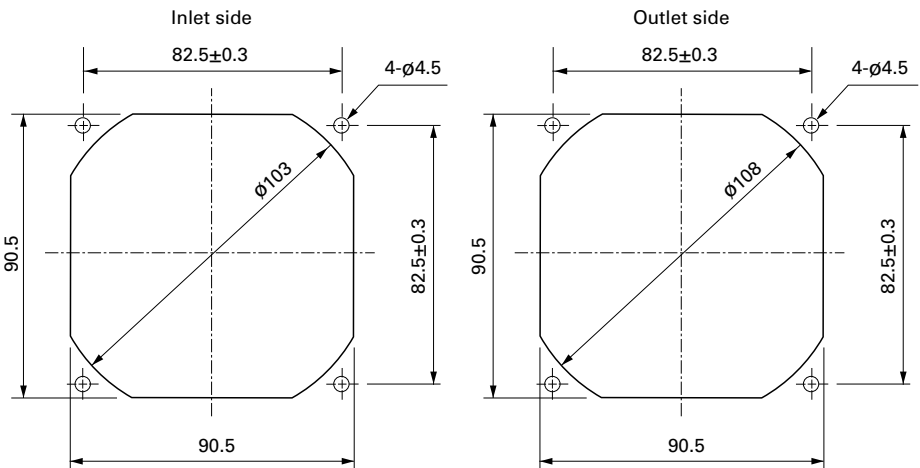
PWM duty - Speed characteristics example



Dimensions (unit: mm)



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



Options

Finger guards

page: p. 598

Model no.: 109-099E, 109-099H

Resin finger guards

page: p. 605

Model no.: 109-1001G

120×120×25 mm

San Ace 120W 9WPA type  



General Specifications

- Material Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- Expected life See the table below. (L10 life: 90% survival rate for continuous operation in indoor free air at 60°C, rated voltage)
Expected life at 40°C is for reference only.
- Motor protection function Locked rotor burnout protection, Reverse polarity protection
For details, please refer to p. 616.
- Dielectric strength 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance 10 MΩ min. at 500 VDC (between lead wire conductors and frame)
- Sound pressure level (SPL) A-weighted sound pressure level (SPL) at 1 m away from the air inlet.
- Storage temperature -30 to +70°C (Non-condensing)
- Lead wire ⊕Red ⊖Black Sensor Yellow Control Brown
(For models without PWM control, there is no speed control wiring.)
- Mass 240 g
- Ingress protection IP68 For more information on IP rating, refer to p. 625.

Specifications

The models listed below **have ribs and a pulse sensor with PWM control**. For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle [%]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]		Max. static pressure [Pa] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WPA1212P4J001	12	10.8 to 13.2	100	1.0	12.0	5400	4.20	148	210	0.84	53	-20 to +60	40000/60°C (70000/40°C)
20			0.07	0.84	1600	1.24	43.8	24.0	0.10	25			
9WPA1212P4G001			100	0.50	6.0	4250	3.30	117	135	0.54	46	-20 to +70	
20			0.06	0.72	1300	1.00	35.3	16.0	0.06	20			
9WPA1224P4J001	24	21.6 to 26.4	100	0.50	12.0	5400	4.20	148	210	0.84	53	-20 to +60	
20			0.05	1.20	1600	1.24	43.8	24.0	0.10	25			
9WPA1224P4G001			100	0.25	6.0	4250	3.30	117	135	0.54	46	-20 to +70	
			20	0.04	0.96	1300	1.00	35.3	16.0	0.06	20		

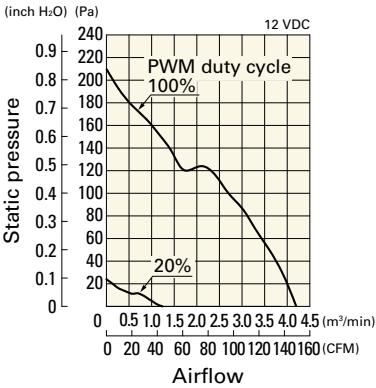
* PWM frequency is 25 kHz. Models without ratings for 0% PWM duty cycle have zero speed at 0%. When control terminal is open, speed is the same as at 100% duty cycle.

The models listed below **have ribs and a pulse sensor**. For models without ribs, append "1" to the end of model numbers.

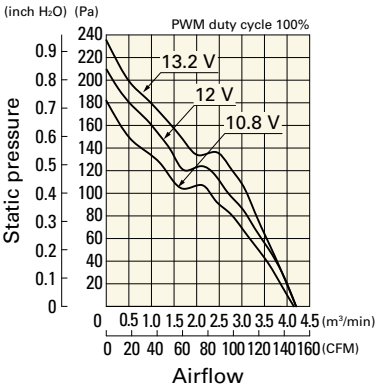
Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min ⁻¹]	Max. airflow [m³/min] [CFM]		Max. static pressure [Pa] [inchH ₂ O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
9WPA1212J4001	12	7 to 13.2	1.0	12.0	5400	4.20	148	210	0.84	53	-20 to +60	40000/60°C (70000/40°C)
9WPA1212G4001		7 to 13.8	0.50	6.00	4250	3.30	117	135	0.54	46	-20 to +70	
9WPA1212H4001		10.2 to 13.8	0.12	1.44	2400	1.85	65.0	47.0	0.19	30	-20 to +70	
9WPA1224J4001	24	14 to 26.4	0.50	12.0	5400	4.20	148	210	0.84	53	-20 to +60	
9WPA1224G4001		14 to 27.6	0.25	6.00	4250	3.30	117	135	0.54	46	-20 to +70	
9WPA1224H4001		20.4 to 27.6	0.06	1.44	2400	1.85	65.0	47.0	0.19	30	-20 to +70	

Note: Sensor and control options are available for selection. Refer to the table on p. 662 to 663.

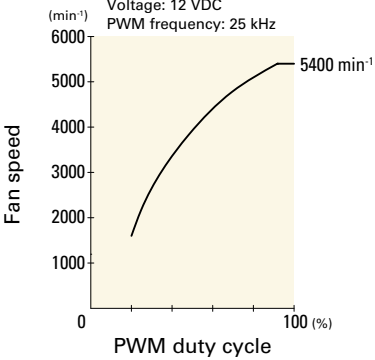
PWM duty cycle



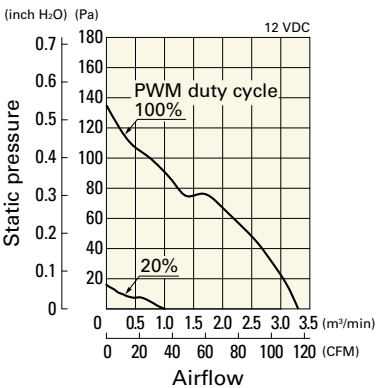
Operating voltage range



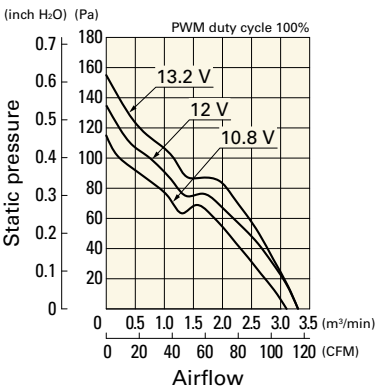
PWM duty - Speed characteristics example



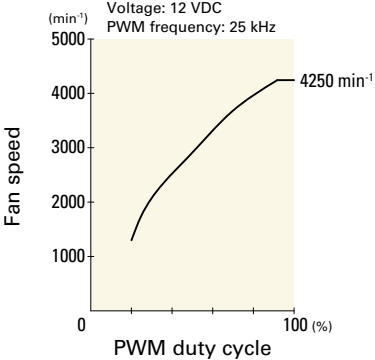
PWM duty cycle



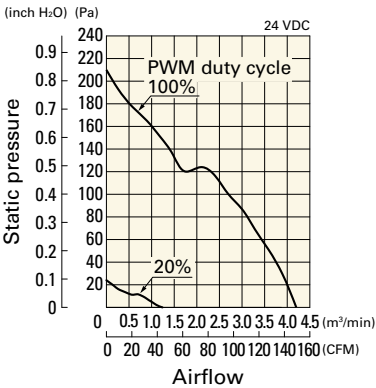
Operating voltage range



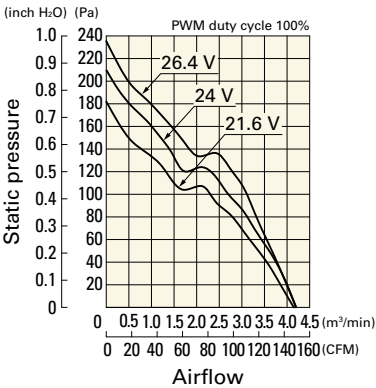
PWM duty - Speed characteristics example



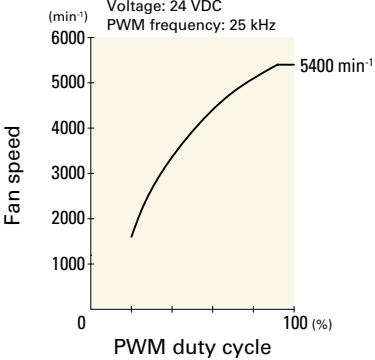
PWM duty cycle



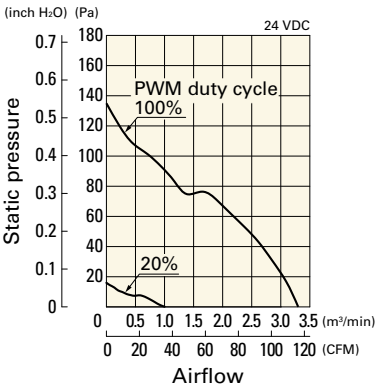
Operating voltage range



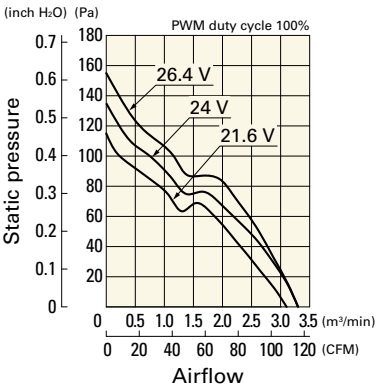
PWM duty - Speed characteristics example



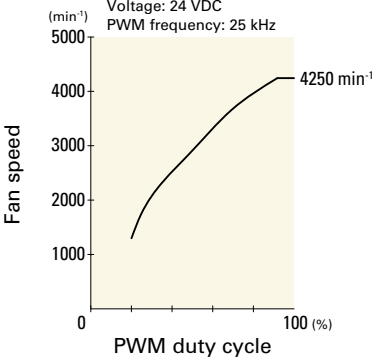
PWM duty cycle



Operating voltage range

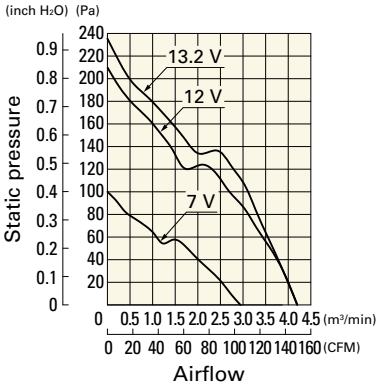


PWM duty - Speed characteristics example



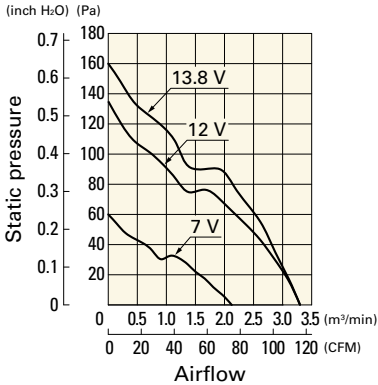
9WPA1212J4001 With pulse sensor

Operating voltage range



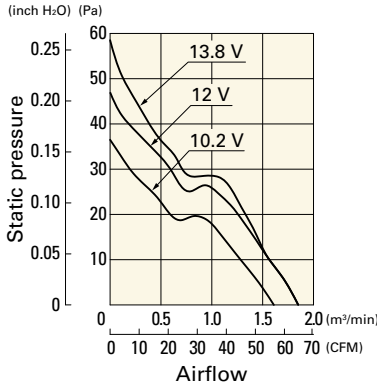
9WPA1212G4001 With pulse sensor

Operating voltage range



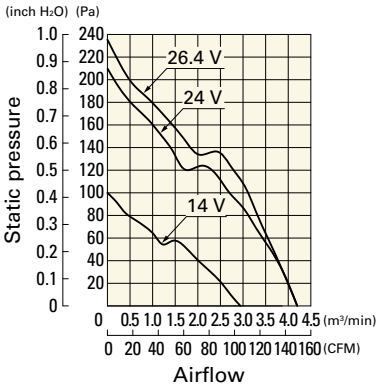
9WPA1212H4001 With pulse sensor

Operating voltage range



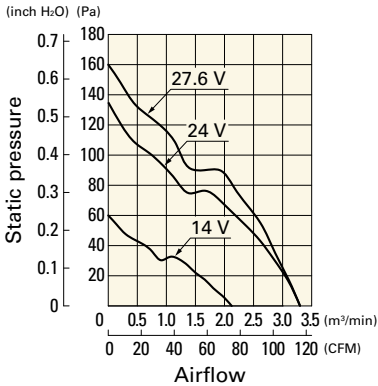
9WPA1224J4001 With pulse sensor

Operating voltage range



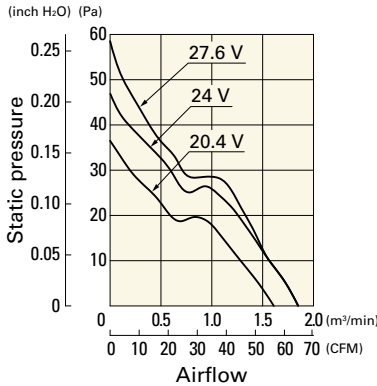
9WPA1224G4001 With pulse sensor

Operating voltage range



9WPA1224H4001 With pulse sensor

Operating voltage range



Dimensions (unit: mm) (Ribbed frame with pulse sensor with PWM control)

