Oil Proof Fan

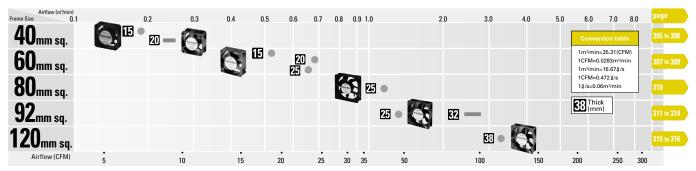
Cooling fan capable of operating in an oil-mist environment.

Related product

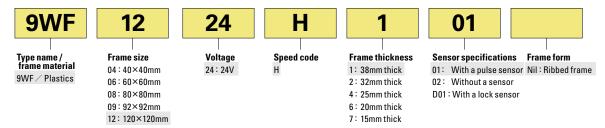
Splash Proof Fan ⇒ p. 245

Splash Proof Centrifugal Fan ⇒ p. 293

Domain Diagram



Model Numbering System Not every combination of the following codes or characters is available. Contact us for an available combination.



How to Read Specifications

DC Fan												DC
	1	2	3	4	(5)	(3)	7		8	9	10
Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current	Rated Input [W]	Rated Speed [min ⁻¹]	Max. A	Airflow [CFM]	Max. Sta [Pa]	tic Pressure	SPL [dB(A)]	Operating Temperature	Expected Life [h]
9GA0412G7001	12	7 to 13.8	0.17	2.04	13,100	0.36	12.7	192	0.77	42	-20 to +70	40,000/60°C (70,000/40°C)
 ①Rated Voltage ②Derating Voltage Range The voltage range over which fan operation is guaranteed ③Rated Current ④Rated Input The input value during the fan's rated operation without load ⑤Rated Speed The rotating speed during the fan's rated operation without load ⑥Max. Airflow The maximum air volume that the fan can output during rated operation (according to the company's dual-chamber device). The volume of air generated by the fan in a given time period 												
	(acc ove "SP Ple	cording to the re rcoming the re L" is Sound Pre ase refer to the	company' esistance essure Le e technica	s dual-cha of the de vel. The n al material	amber devi vice that us loise level d I section foi	ce). The ses the f luring th the me	static plan where fan's ethod us	ressuren it pro rated contact to re	e is the formal pels air. Expersion the peration of the perat	fan's for n. the noi	ce to propel air	by
 (9) Operating Temperature The temperature range over which fan operation is guaranteed (Non- condensing) (10) (11) (12) (13) (14) (15) (15) (15) (15) (15) (15) (15) (15										rature		

Please refer to the technical material section for the expected operating life.

DC Fan Common Specifications

Material · · · · · · Frame, Impeller: Plastics / Frame: Aluminum, Impeller: Plastics
* For details, refer to the appropriate page.
Expected Life · · · · · · · Varies for each model (L10:Survival rate:90% at 60°C ,rated voltage, and continuously run in a free air state)
* Splash proof fan: Varies for each model (Indoor, L10:Survival rate:90% at 60℃, rated voltage, and continuously run
in a free air state)
Motor Protection · · · · · · · · Burnout protection at locked rotor condition and Reverse polarity protection

Dielectric Strength \cdots AC50/60Hz 500VAC 1minute(between lead conductor and frame) **Insulation Resistance** \cdots 10M Ω or more at 500VDC megger (between lead conductor and frame)

Sound Pressure Level(SPL) •• Expressed as the value at 1m from air inlet side **Lead Wire** •• For details, refer to the appropriate page.

Overheating protection function

Protection Functions:

If the fan blades are restricted, an overcurrent occurs and leads to a rise in the fan coil temperature. This can result in reduced performance, damage, or a fire. To prevent this from occurring, SANYO DENKI's fans incorporate an overheating protection function. Refer to the catalog for the types of protection functions.

Burnout protection function at locked rotor condition

Current cutoff system

If the fan blades are restricted, the coil current is cut off at regular cycles to prevent overheating of the coil. When the hindrance is removed, the fan restarts automatically.

Reverse polarity protection function

No problem about fan even if positive & negative lead are connected in reverse.

However, when wiring fans with sensors or PWM speed control function, connecting positive and negative leads in reverse may damage the fans.