AC Fan

The cooling fan operates at 100 to 230 VAC.

How to Read Specifications (AC fan) The following is a sample. See respective product pages for detailed information.

Model no.	Rated voltage [V]	Frequency [Hz]	Input [W]	Current [A]	Locked rotor current [A]	Rated speed [min^{-1}]	Max. airflow [m^3/min]	Max. airflow [CFM]	Max. static pressure [Pa]	Max. static pressure [inchH$_2$O]	SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
109-180	100	50/60	5/4	0.06/0.05	0.07/0.06	2250/2700	0.27/0.33	9.5/11.7	11.8/18.6	0.047/0.075	24/26	-30 to +70	25000/60°C (56000/40°C)
109-183	115				0.06/0.05								

Rated voltage ····· This is the necessary voltage to drive the fan. Single-phase 100, 115, 200 and 230 VAC are also available.

Frequency ····· This is a frequency of alternating current (AC). The frequencies of 50 Hz and 60 Hz are existing in Japan.
Performance of AC fan varies depending on the frequency. Example: Rated speed 2250/2700 = 50 Hz → 2250, 60 Hz → 2700

Input ····· The power value when the fan is operating at rated voltage (at free air).

Current ····· The current when the fan is operating at rated voltage (at free air).

Locked rotor current ····· This is a current when rotor of motor that applies rated voltage is locked.

Rated speed ····· The speed when the fan is operating at rated voltage (at free air).

Max. airflow ····· The airflow at 0 Pa static pressure when the fan is operating at rated voltage. (Measured using the double chamber method)

Max. static pressure ····· The static pressure at 0 m^3/min airflow when the fan is operating at rated voltage. (Measured using the double chamber method)

SPL ····· A-weighted sound pressure level (SPL) when the fan operates at the rated speed.
For the measurement method, see the Technical Materials section in the catalog.

Operating temperature ····· The temperature range over which fan operation is guaranteed (Non-condensing).

Expected life ····· Service life hours that 90% of bearings will survive without failing when continuously operated at the rated voltage and 60°C temperature. Expected life at 40°C is for reference only.
For more information, please refer to the technical material section.