Thermal Speed Controlled Fan



San Ace 120

25mm thick, 38mm thick with an external thermistor/ with a built-in thermistor

General Specifications

· Material · · · · Frame: Plastics (Flammability: UL94V-0),

Impeller:Plastics (Flammability: UL94V-1)

· Life Expectancy ······· Varies for each model (L10:Survival rate:90% at 60°C,

rated voltage, and continuously run in a free air state)

· Fail-safe · · · · The motor becomes high speed when the thermistor is unable to detect the temperature in case of open or short circuit etc.

· Storage Temperature -30°C to +70°C (Non-condensing)

120×120×38mm (Mass: 260g)



Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Air F	low	Static	Pressure	SPL	Operating Temperature	Life Expectancy
Model No.	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
109R1212T1H12(121)	12	10.2 to 13.8	0.48	5.75	2,600	2.9	102.4	64.7	0.260	39	-10 to +60	40.000
1036 12121 1612(121)			0.23	2.76	1,300	1.4	49.4	16.2	0.065	24	-10 10 +60	40,000

Note: The top row gives characteristics shown when the thermistor temperature is 35°C , while the bottom row gives characteristics shown when the thermistor temperature is 28°C .

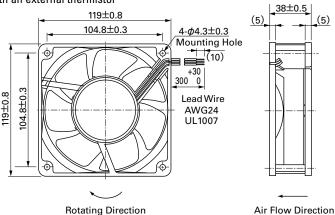
with a built-in thermistor The numbers in () represent ribless models.

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Air F	low	Static	Pressure	SPL	Operating Temperature	Life Expectancy
Wiodel No.	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ O]	[dB(A)]	[°C]	[h]
109R1212T1H122(123)	12	10.2 to 13.8	0.48	5.75	2,600	2.9	102.4	64.7	0.260	39	-10 to +60	40,000
10301212110122(123)			0.23	2.76	1,300	1.4	49.4	16.2	0.065	24		

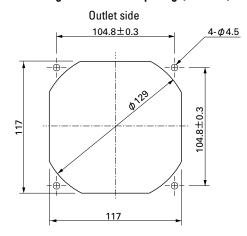
Note: The top row gives characteristics shown when the emperature is 40°C , while the bottom row gives characteristics shown when the temperature is 30°C .

Dimensions (Unit : mm) (With ribs)

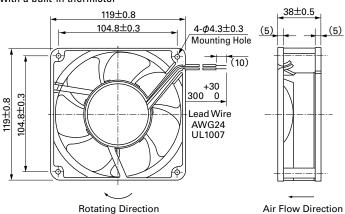
with an external thermistor



Reference dimension of mounting holes and vent opening (Unit:mm)



with a built-in thermistor



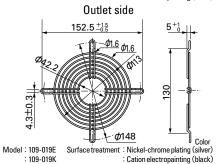
Inlet side 104.8±0.3 $4 - \phi 4.5$ 104.8 ± 0.3 φ 117

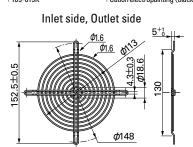
Options (Unit:mm)

Finger guards

Thermistor Model: 169-002 3.5Max

Color face treatment : Nickel-chrome plating (silver) Model: 109-019C : 109-019H : Cation electropainting (black)

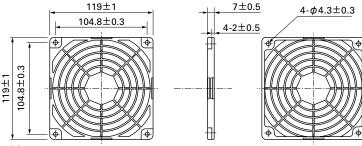




500±10

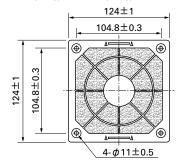
Resin finger guards

Model: 109-1000G

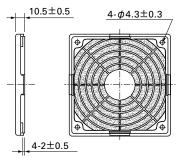


Resin filter kits

Model: 109-1000F13 (13PPI), 109-1000F20 (20PPI), 109-1000F30 (30PPI), 109-1000F40 (40PPI)



Number	Name	Standards,materials, etc.						
1	Thermistor	Chip						
2	Insulated cord	Epoxy resin						
3	Lead	UL2555 CSA TR-64 AWG#28 (blue)						

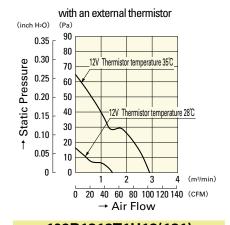


Item	Spec						
2-1	Resistance	R25 6.8K $\Omega \pm 3\%$					
2-2	B constant	B25/50 3950K±2%					
2-3	Maximum rated power	188mW (25℃ under still air)					
2-4	Insulation resistance	100MΩor more (DC500V megger)					
2-5	Dielectric strength	No problem (AC1500V 1 minute)					
2-6	Operating temperature range	-30°C to +80°C					
2-7	Storage temperature range	-40°C to +100°C					

Manufactured by OHIZUMI MGF CO.,LTD.

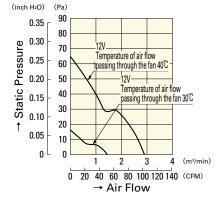
Air Flow and Static Pressure Characteristics

5±1



109R1212T1H12(121)

with a built-in thermistor

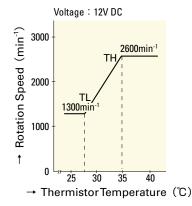


109R1212T1H122(123)

Temperature-Rotation Speed Chracteritics

with an external thermistor

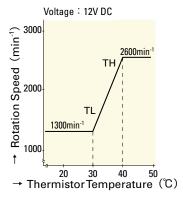
■ Characteristics of Thermistor-detected Temperature vs Speed



109R1212T1H12(121)

with a built-in thermistor

■ Typical characteristics of temperature of air flowing through the fan versus rotation speed



109R1212T1H122(123)