



DC COOLING FAN CATALOGUE

SANYO DENKI San Ace















The sole purpose of this catalogue is as a general introduction to our products, in order to allow an orientation as well as a choice among them. Detailed information concerning limitations and installation/utilization procedures are described in the manuals Sanyo Denki relating to each product. It is therefore essential to strictly refer to these enclosed technical manuals for a correct use, in accordance with current standards.

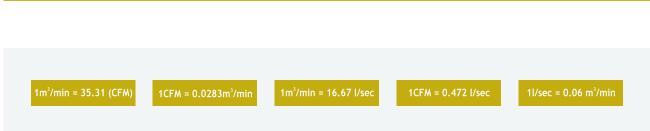
R.T.A. reserves the right to modify the products at any time and without prior notice (including, but not limited to, characteristics, availability and prices).

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CONVERSION TABLE



R.T.A. Group Overview



R.T.A. GROUP



R.T.A. - HEADQUARTERS

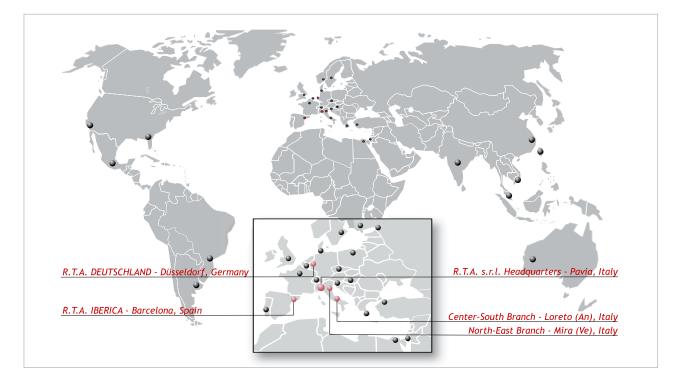
R.T.A. DEUTSCHLAND

R.T.A. IBERICA

- R.T.A. Group is a leading network of companies in the motion control industry. It is number one in Italy in the stepping systems market and number three in Europe in the stepping motor drives segment. [Source: IMS Research 2012]
- The Group is based on three operational companies: the headquarters, R.T.A. s.r.l. (ITALY), founded in 1976, R.T.A. Deutschland (GERMANY), founded in 2001 and R.T.A. IBERICA (SPAIN), founded in 2008.
- R.T.A. has been producing stepper motor drives since 1976: since then more than 750.000 stepping motor drives have been sold in Italy and in more than 39 countries worldwide.
- Production and sales process quality is guaranteed by a Quality Assurance System certified under the UNI EN ISO 9001 (TUV-50 100 2153) Norm.
- Over time, R.T.A. product line has been enriched through the creation of a partnership with SANYO DENKI, a leading Japanese company producing stepping motors, brushless systems and fans. The Group has been its Italian sole distributor since 1989, while distributorship has been granted in 2001 for Germany and in 2008 for Spain.

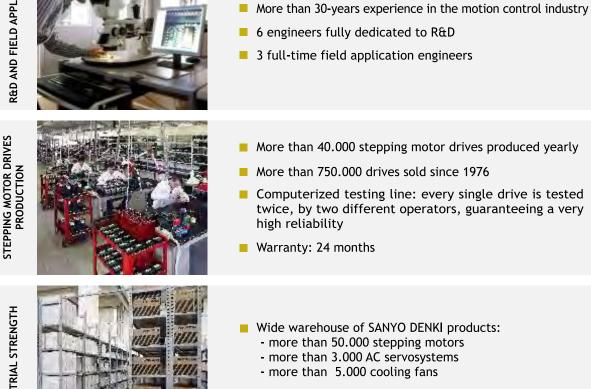
R.T.A. WORLDWIDE

- Since its origins, the Group has always had a strong commitment for international business; that was the reason leading to the decision opening direct branches in Germany and Spain.
- R.T.A. is also active worldwide through a wide network of distributors, composed by 29 companies operating in more than 39 countries.



R.T.A. Group Overview

R&D, PRODUCTION AND WAREHOUSE



Very short time-to-market: 97% of orders is processed within one week from order.

ONLINE SALES: www.rta-store.com



R&D AND FIELD APPLICATION

INDUSTRIAL STRENGTH

- A wide selection of stepping motor drives available online
- SANYO DENKI stepping motors with flange size from 28 mm up to 106 mm and with holding torque from 12.5 Ncm to 2460 Ncm



SANYO DENKI

DOLING SYSTEMS

SANYO DENKI cooling fans with frame size from 36 mm to 172 mm.





PRODUCTION and FACTORIES



Fujiyama Works (Japan)



Subic Works (Philippines)

SANYO DENKI BENEFITS

- Total Production: 2,700,000 fans / month
 - AC fans 50,000
 - DC fans 2,650,000
- Factories: Fujiyama (Japan) & Subic (Philippines)
- Fujiyama (Japan) Works:
 - Since 1990
 - 400 kpcs/month production capacity
- Subic (Philippines) Works:
 - Since 2000
 - 2,300 kpcs/month production capacity

Technology Center

- The main product research and development facility
- Since 1997

High Reliability & Quality

- Sound experience in manufacturing since 1960
- ISO 9001 & 14001 certification
- Manufacturing process control vertical integration and focus on process control Technology Center
- Factory Support & Flexibility
- 2 factories with large production capacity: 2,700,000 fans/month
 European stock: around 75,000 fans

Technology Directions

- High performance: high airflow, high static pressure
- Low power consumption
- Low noise and good sound quality
- Harsh environment: long life, splash proof, oil proof, temperature
- Largest Product Portfolio in the Industry & Technology Leader
 - DC axial, AC axial, Blower, Centrifugal, Silent, Counter Rotating
 - 5, 12, 24, 32 and 48VDC models, AC, AC/DC Technology
 - 13 frame sizes (DC axial)



Acoustic radio wave anechoic chamber La

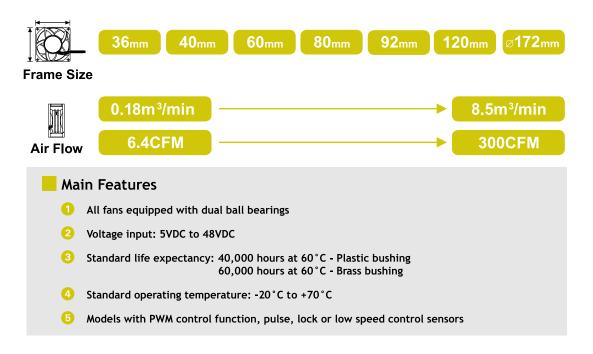
Laboratories

Production line

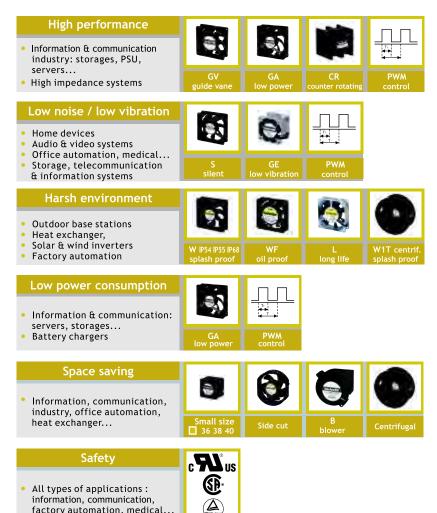
Design rooms



CONCEPT: High Performance, High Reliability, High Quality



TYPICAL SOLUTIONS FOR VARIOUS APPLICATIONS



factory automation, medical...

36x36x28_{mm}







9GV3612G301

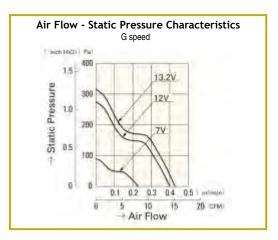
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Tach output
- Storage Temperature: -20°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Ai	r Flow	Max	. Static Pressure	SPL	Operating Temperature	Expected Life
MOUEL NO.	[V]	[V]	[A]	[W]	[min ^{:1}]	[m ³ /min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	. [h]
9GV3612G301	12	7.0 to 13.2	0.34	4.08	14,000	0.40	14.1	275	1.104	52.0	-20 to +60	40,000

Dimensions (Unit:mm) Reference dimension of mounting holes and vent opening (Unit: mm) 36±0.5 Inlet side, Outlet side 29.5±0.3 28±0.5 29.5±0.3 4-Ø3.5±0.3 4-Ø3.7 (4) (4) Mounting Hole Lead Wire AWG28 UL1007 +30 320 0 Ø36.8 29.5±0.3 36±0.5 (10) \sim 29.5±0. 35 35 Rotating Direction Air Flow Direction **36** mm sq. Model always available on stock at R.T.A. Also available for online 3612G30 purchasing at www.rta-store.com



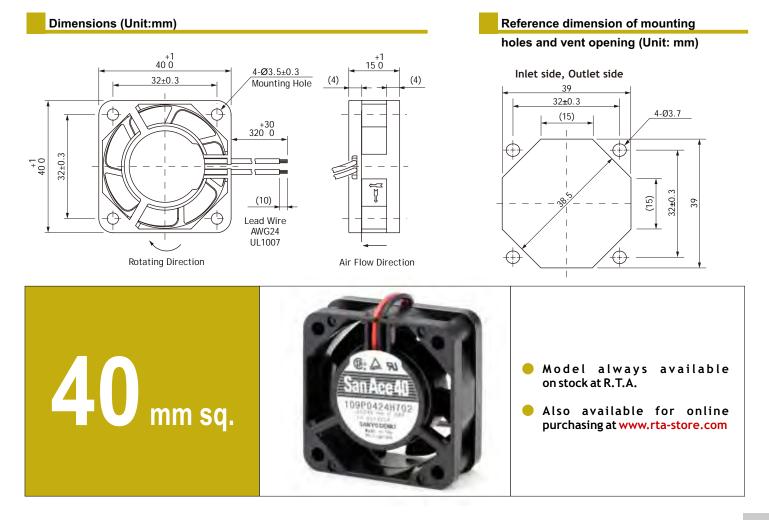
40x40x15_{mm} 24 V

General Specifications

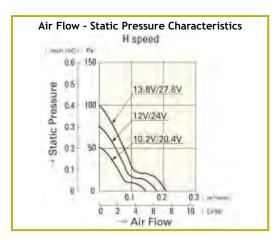
- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 60,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max. S	Static Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ O]	[dB(A)]	[°C]	[h]
109P0424H702	24	20.4 to 27.6	0.08	1.92	7,700	0.18	6.4	75.5	0.303	28	-20 to +70	60,000



109P0424H702





109P0412H602

40x40x20mm

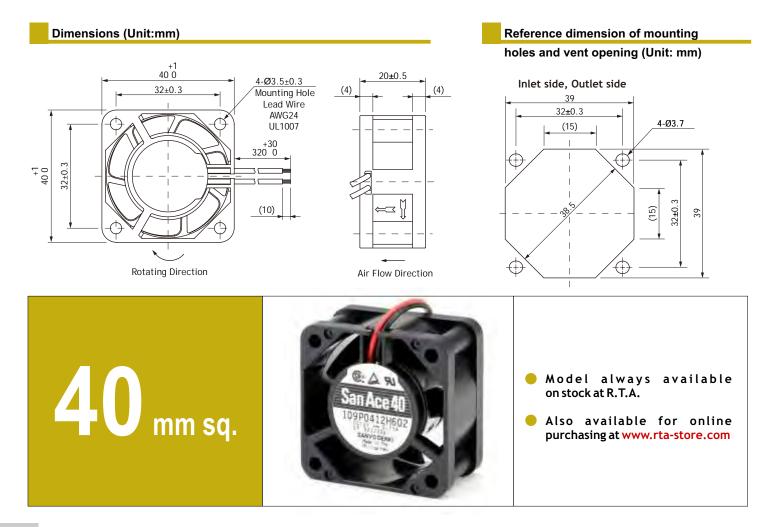


General Specifications

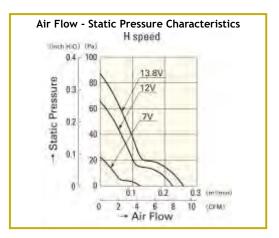
- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 60,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	low	Max. Stat	tic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
109P0412H602	12	7 to 13.8	0.11	1.32	8,000	0.225	8.0	65.7	0.264	33	-20 to +70	60,000



Air Flow - Static Pressure Characteristics



109P0424H602

40x40x20_{mm}



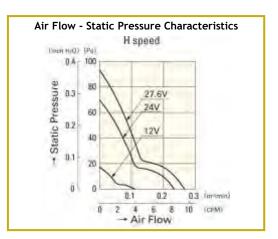
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 60,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	low	Max. Stati	c Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
109P0424H602	24	12 to 27.6	0.07	1.68	8,300	0.233	8.2	69.6	0.280	35	-20 to +70	60,000

Dimensions (Unit:mm) Reference dimension of mounting holes and vent opening (Unit: mm) +1 40 0 20**±**0.5 4-Ø3.5±0.3 Inlet side, Outlet side 32±0.3 (4) (4) Mounting Hole 39 I. 32±0.3 4-Ø3.7 (15) +30 320 0 ¢ Œ 40 0 32±0. 35 32 Ŋ (10) 32±0. 3 (15) 39 Lead Wire AWG24 UL1007 \oplus Ð **Rotating Direction** Air Flow Direction 40 Model always available on stock at R.T.A. mm sq. 4160 Also available for online purchasing at www.rta-store.com



109P0424J3023

40x40x28_{mm}



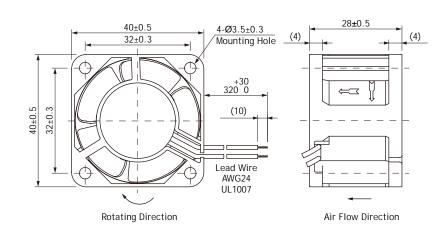
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

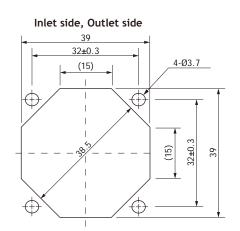
Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	low	Max.	Static Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
109P0424J3023	24	12 to 26.4	0.18	4.32	12,500	0.46	16.2	210	0.843	44	-20 to +60	40,000

Dimensions (Unit:mm)

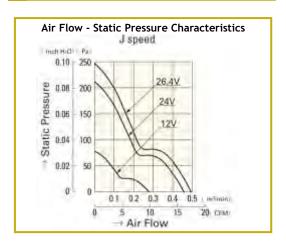


Reference dimension of mounting holes and vent opening (Unit: mm)





Air Flow - Static Pressure Characteristics



109P0624H702

60x60x15_{mm} 24 V

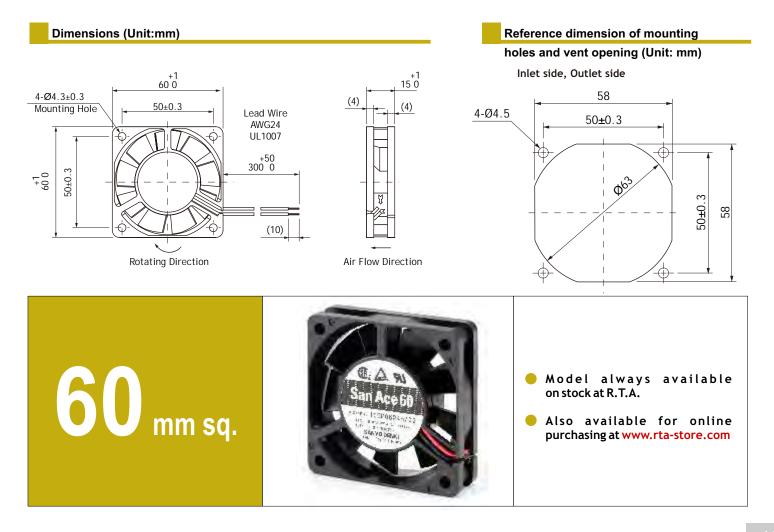


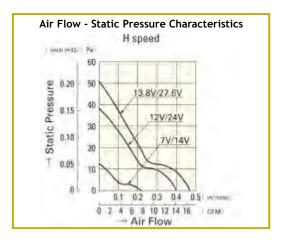
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 60,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- **Ball bearings**
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Max. Air I [m³/min]		Max. Sta [Pa]	tic Pressure [inchH ₂ 0]	SPL [dB(A)]	Operating Temperature [°C]	Expected Life [h]
109P0624H702	24	14 to 27.6	0.06	1.44	4,100	0.40	14.1	38.2	0.153	32	-20 to +70	60,000





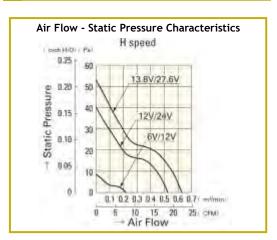
9A0612H402

60x60x25mm





Air Flow - Static Pressure Characteristics

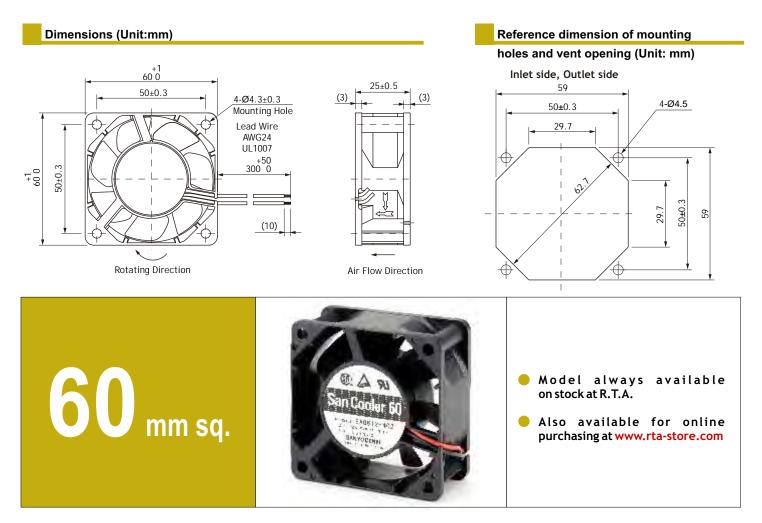


General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max. S	Static Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9A0612H402	12	6 to 13.8	0.11	1.32	3,800	0.53	18.7	40.2	0.161	28	-20 to +70	40,000



60x60x25mm

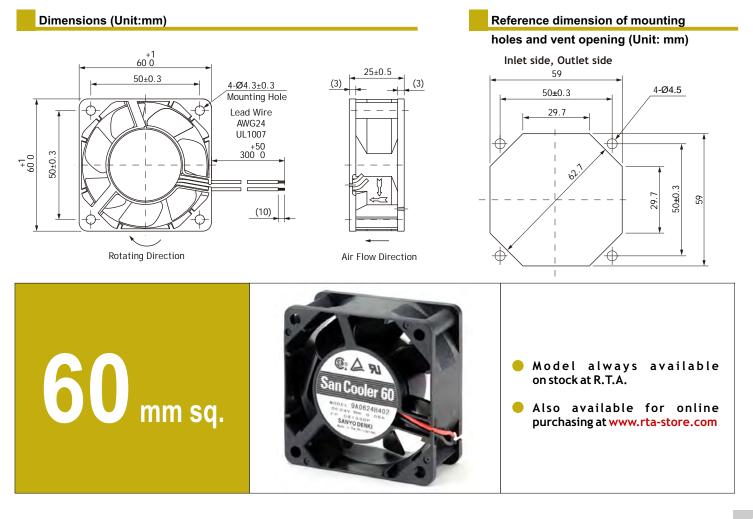


General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

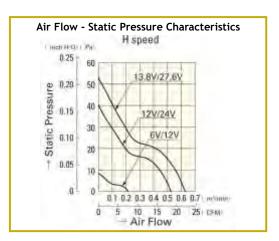
Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	low	Max. Stati	c Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9A0624H402	24	12 to 27.6	0.06	1.44	3,800	0.53	18.7	40.2	0.161	28	-20 to +70	40,000



Air Flow - Static Pressure Characteristics

9A0624H402



9WP0612H402

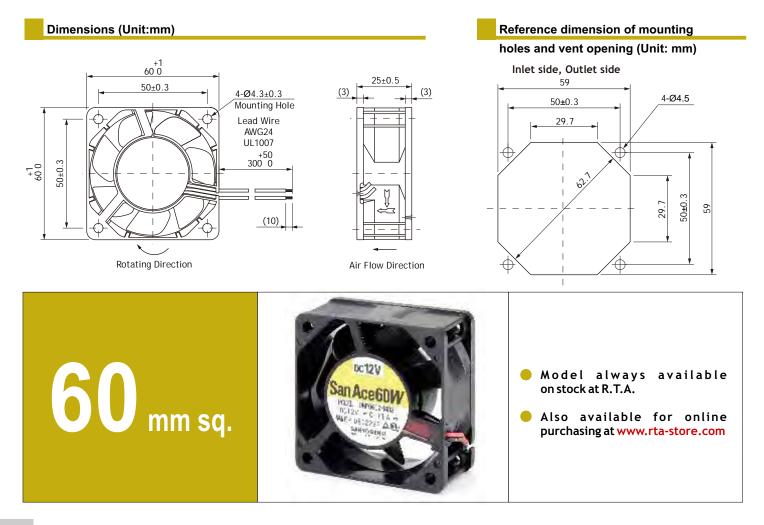
60x60x25mm 12 V IP 68 WP type

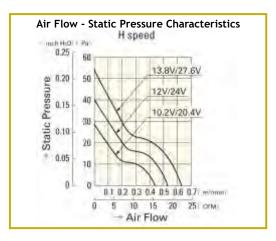
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 60,000 h (Indoor, L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black
- Storage Temperature: -30°C to +70°C (Non-condensing)
- 🛑 Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	Flow	Max. Sta	tic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9WP0612H402	12	10.2 to 13.8	0.11	1.32	3,800	0.53	18.7	40.2	0.161	28	-20 to +70	60,000





9WP0624H402

60x60x25mm 24 V IP 68 WP type

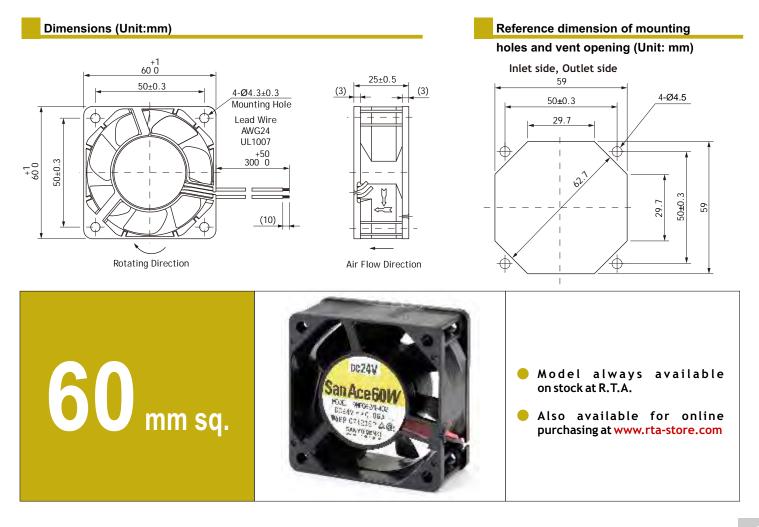


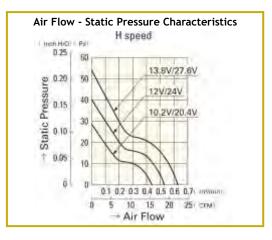
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 60,000 h (Indoor, L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max. Sta	atic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9WP0624H402	24	20.4 to 27.6	0.06	1.44	3,800	0.53	18.7	40.2	0.161	28	-20 to +70	60,000





109R0624J402

60x60x25mm

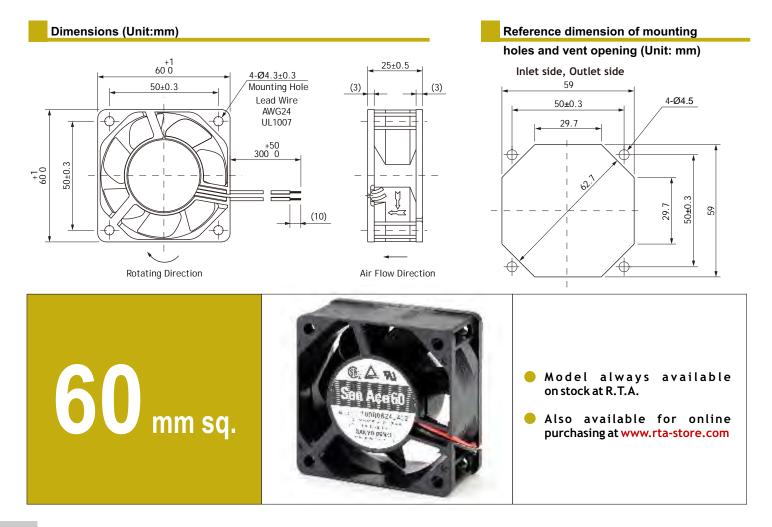


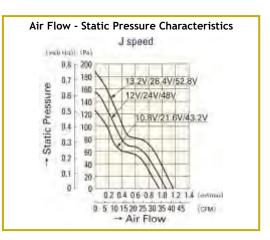
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	low	Max. Stat	ic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
109R0624J402	24	21.6 to 26.4	0.24	5.76	7,600	1.06	37.1	155.0	0.622	44	-20 to +60	40,000





9A0812H402

80x80x25mm

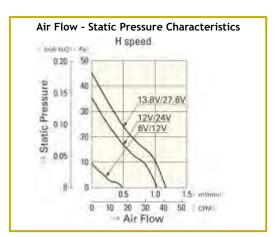
General Specifications

- Frame: Plastics





Air Flow - Static Pressure Characteristics



- Impeller: Plastics

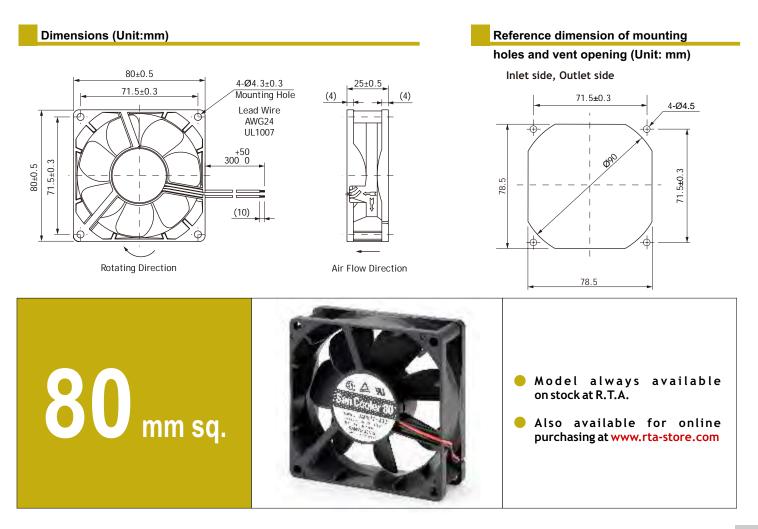
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings

Material:

International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	Flow	Max. Sta	ntic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9A0812H402	12	6 to 13.8	0.13	1.56	2,900	1.03	36.4	35.3	0.142	29	-20 to +70	40,000



9A0824H402

80x80x25mm

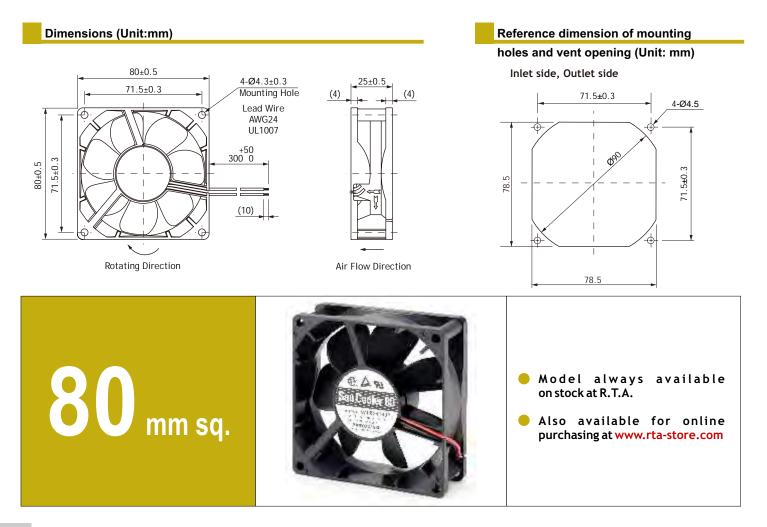


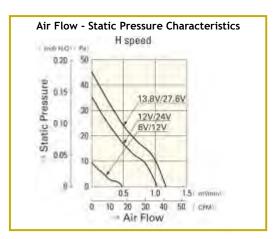
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input [W]	Rated Speed	Max. Air [m³/min]	Flow [CFM]	Max. S [Pa]	Static Pressure [inchH,O]	SPL [dB(A)]	Operating Temperature	Expected Life [h]
9A0824H402	24	12 to 27.6	0.07	1.68	2,900	1.03	36.4	35.3	0.142	29	-20 to +70	40,000





80x80x25mm

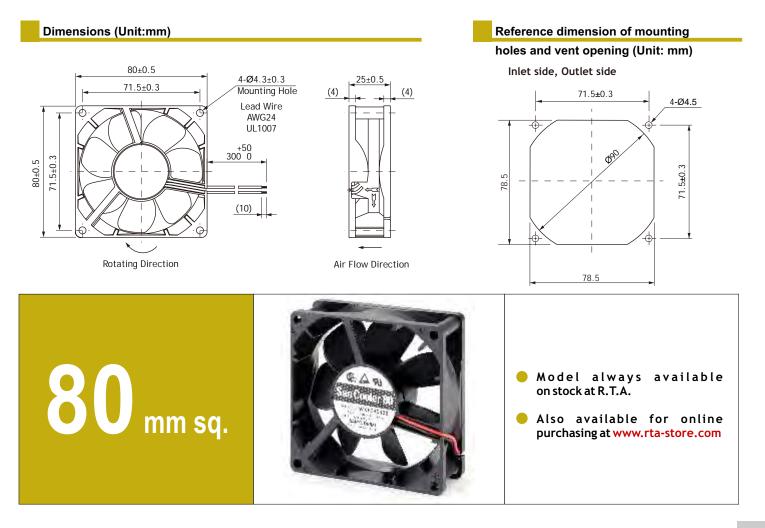


General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 30,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

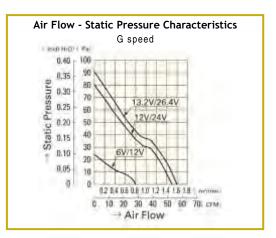
Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max. S	Static Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9A0824G402	24	12 to 26.4	0.21	5.04	4,500	1.5	53.0	80.3	0.323	40	-20 to +60	30,000



Air Flow - Static Pressure Characteristics

9A0824G402



9G0824G102

80x80x38_{mm}

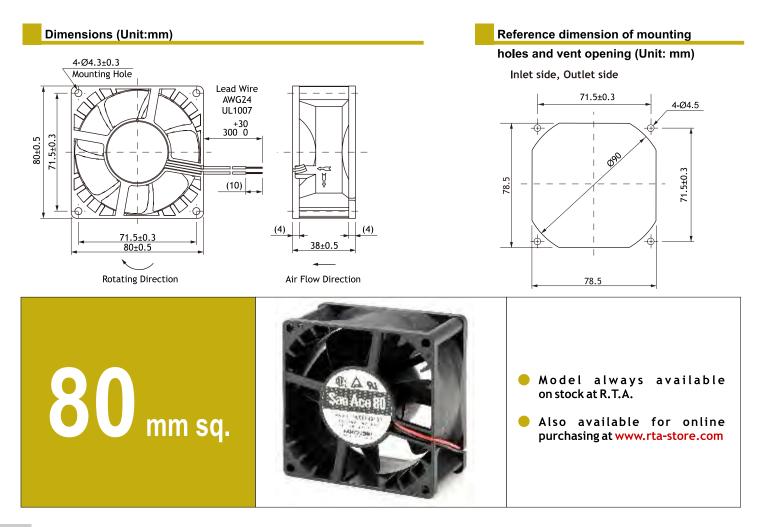


General Specifications

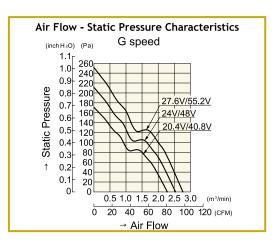
- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black
- Storage Temperature: -30°C to +70°C (Non-condensing)
- 🛑 Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Madal No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	low	Max. Sta	tic Pressure	SPL	Operating Temperature	
Model No.	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	. [h]
9G0824G102	24	20.4 to 27.6	0.56	13.4	6,300	2.55	90	211	0.847	51	-20 to +70	40,000







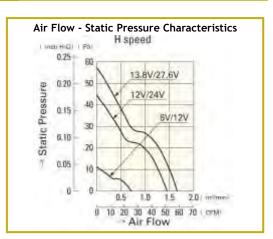
9A0912H402

92x92x25_{mm}





Air Flow - Static Pressure Characteristics



Material:

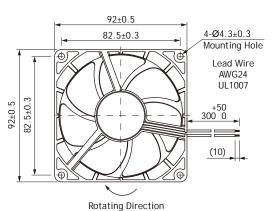
General Specifications

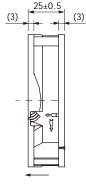
- Frame: Plastics - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- **Ball bearings**
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max.	Static Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9A0912H402	12	6 to 13.8	0.21	2.52	3,150	1.45	51.2	44	0.177	33	-20 to +70	40,000

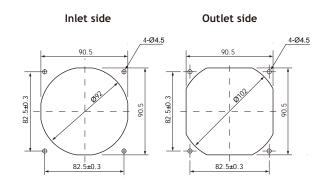
Dimensions (Unit:mm)





Air Flow Direction

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





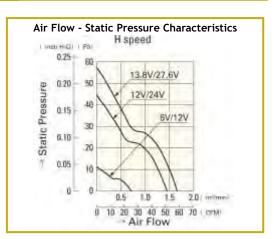
9A0924H402

92x92x25mm





Air Flow - Static Pressure Characteristics



Material:

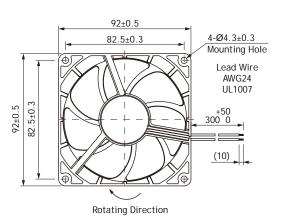
General Specifications

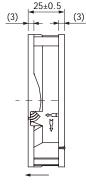
- Frame: Plastics
- Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max. S	tatic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9A0924H402	24	12 to 27.6	0.1	2.4	3,150	1.45	51.2	44	0.177	33	-20 to +70	40,000

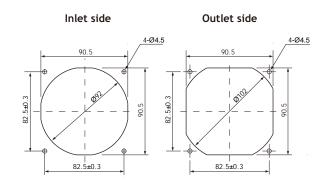
Dimensions (Unit:mm)





Air Flow Direction

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





9A0912G4021

92x92x25mm

12 V Ribless



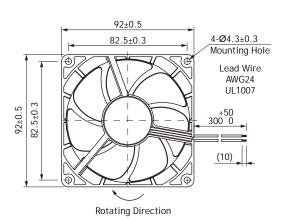
General Specifications

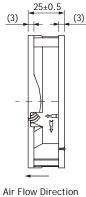
- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 30,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

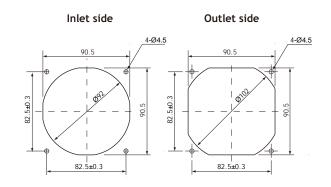
Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	Flow	Max. Sta	tic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9A0912G4021	12	6 to 13.8	0.39	4.68	3,900	1.76	62.1	66.5	0.267	43	-20 to +60	30,000

Dimensions (Unit:mm)

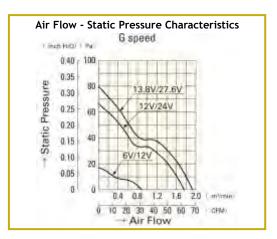




Reference dimension of mounting holes and vent opening (Unit: mm)







9G1224H402

120x120x25 mm

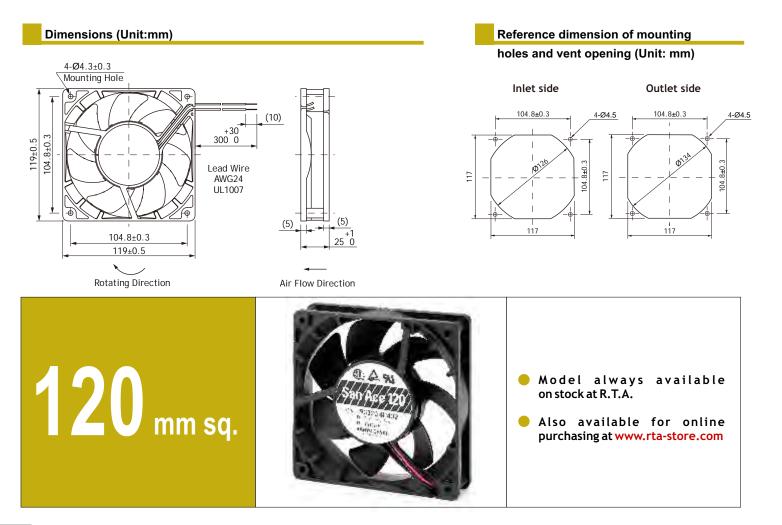


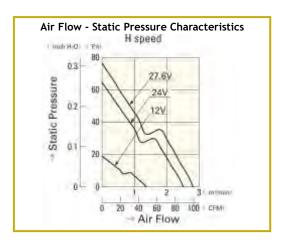
General Specifications

- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- 🛑 Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max. S	tatic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9G1224H402	24	12 to 27.6	0.17	4.08	2,850	2.50	88	64	0.257	40	-20 to +70	40,000





9G1224G102

120x120x38 mm

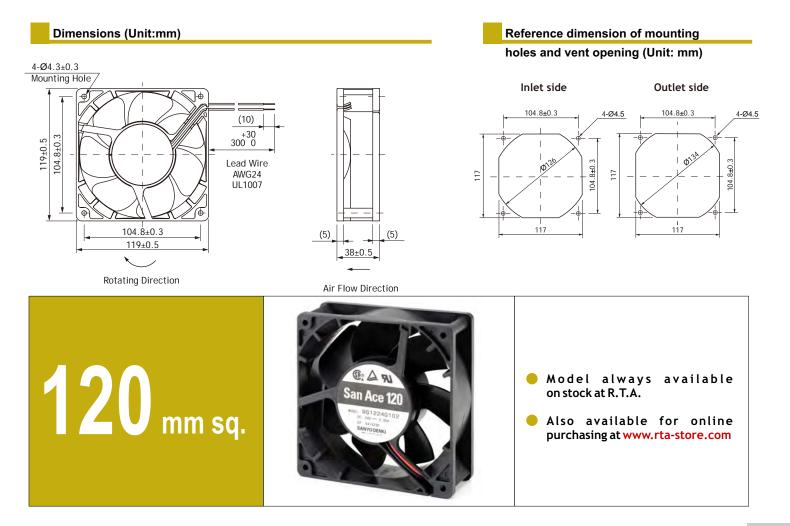


General Specifications

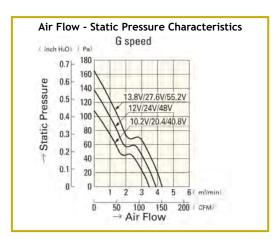
- Material:
 - Frame: Plastics
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max. S	tatic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9G1224G102	24	20.4 to 27.6	0.50	12	3,600	3.88	137	135	0.542	49	-20 to +70	40,000



Air Flow - Static Pressure Characteristics



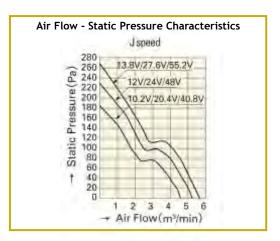
9GL1224J102

120x120x38 mm 24 V LONG LIFE 🛞 🖉 🏹

General Specifications

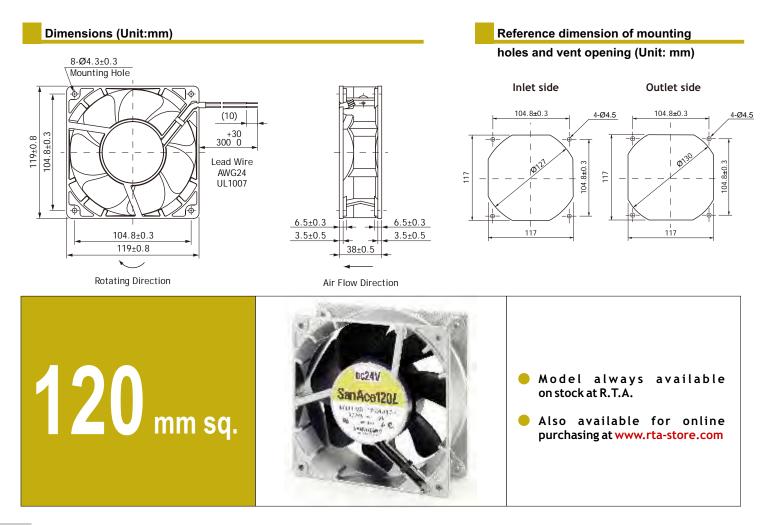
- Material:
 - Frame: Aluminum
 - Impeller: Plastics
- Expected Life: 60,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire: ⊕ red ⊙ black or blue
- Storage Temperature: -30°C to +70°C (Non-condensing)
- 🛑 Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Air Flow - Static Pressure Characteristics



Specifications

Model No.	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air F	Flow	Max. St	atic Pressure	SPL	Operating Temperature	Expected Life
	[V]	[V]	[A]	[W]	[min ⁻¹]	[m³/min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
9GL1224J102	24	20.4 to 27.6	1.0	24	4,800	5.10	180	230	0.924	57	-10 to +70	60,000



109E5724K501

172x150x51 mm



General Specifications

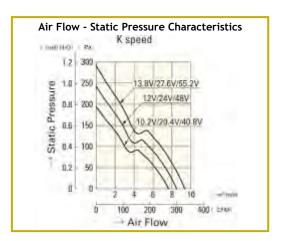
- Material:
 - Frame: Aluminum
 - Impeller: Plastics
- Expected Life: 40,000 h (L10:Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- 🗧 Tach output
- Storage Temperature: -30°C to +70°C (Non-condensing)
- Ball bearings
- International Standards: UL/CSA, TÜV, RoHS

Specifications

	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input	Rated Speed	Max. Air	Flow	Max Sta	atic Pressure	SPL	Operating Temperature	Expected Life
Model No.	[V]	[V]	[A]	[W]	[min ⁻¹]	[m ³ /min]	[CFM]	[Pa]	[inchH ₂ 0]	[dB(A)]	[°C]	[h]
109E5724K501	24	20.4 to 27.6	1.3	31.2	4,100	8.5	300	243.0	0.976	60	-20 to +70	40,000

Dimensions (Unit:mm) Reference dimension of mounting holes and vent opening (Unit: mm) 4-Ø4.5±0.3 Mounting Hole Inlet side, Outlet side 148 10 +30 Ø172±0.8 162.5±0.5 300 0 6100 Lead Wire AWG24 162±0.3 UL1007 or AWG22 UL1430 2.24 7.5±0.4 7.5±0.4 + 150±0.8 51±0.8 2**-Ø**4.5 **Rotating Direction** Air Flow Direction 9.5 Ø172_{mm} Model always available @: 4 91 on stock at R.T.A. San Ace 172 Also available for online purchasing at www.rta-store.com





SAFETY STANDARDS

UL ratings (USA)



A



Underwriters Laboratories Inc. was established by the American Union of Fire Insurance Underwriters. The purpose of UL is to ensure safety of machines, equipment, and materials and protect human lives and property from fire and other accidents. To that end, UL has conducted numerous tests and extensive research and, as a result, set up UL ratings. Any seller of products in any of the majority of the states of the USA must produce their products according to the UL ratings, have them pass UL-specified safety inspections, and have them listed in UL's registration book. Therefore, to export and sell any product in the United States, one must in most cases apply for UL-listing.

Additionally, UL is accredited by The Standards Council of Canada (SCC) as both a Certification Organization (CO) and a Testing Organization (TO) and is officially recognized in all provinces and territories throughout Canada. Accordingly, our products can be tested by UL for compliance with Canadian safety standards. Certified products are entitled to display the C-UL Mark, which authorizes their use and sale in Canada. If products are deemed to be compliant with both U.S. and Canadian standards, then both the UL Mark and C-UL Mark can be displayed or a combination U.S. and Canadian mark (bottom left).

Our products are certified as satisfying all UL507 requirements.



s The Canadian Standards Association (CSA) was set up in response to the advice of the Canadian government.



In Canada, the law prohibits the use and sale of any product other than those approved under CSA in terms of safety. CSA has set up CSA standards as inspection procedures and other requirements to ensure product safety.

Our products are certified as satisfying the CSA standard C22.2 No. 113.

EN standards (EU members)



In the EU territory, the harmonization of industrial standards and safety standards of different countries is under way. The unified standards are called Harmonized Standards. Each of these standards is marked EN above the standard number. EN standards offer the grounds in design and manufacture when one exports a product to the EU territory. In order for a product to receive a safety marking, the product must be found to conform to TÜV, VDE, or other relevant standard.

Our products are certified as satisfying all TÜV Rheinland EN60950 requirements.

JIS: Japanese Industrial Standards

Japan's national standards related to mining and manufacturing industries

IEC : International Electrotechnical Commission

This is an international commission on electrical standardization. This commission promotes the unification and cooperation of international standards related to electric and electronics engineering and issues IEC standards in order eventually to allow different countries to conform to the international standards.

DIN : Deutsches Indstitut fur Normung e.V.

This is a German standards institute. The institute uses a wide-range set of standards covering many industrial sectors. The set of standards includes basic standards.

VDE : Verband Deutscher Elektrotechniker e.V.

It is a German association of electric engineers. VDE establishes safety standards related to electrical engineering and issues them as DIN-VDE standards.

RoHS DIRECTIVE

Since October 2012, all the products in this catalog have complied with the maximum concentration values of the hazardous substances referred to in the Annex II to EU RoHS Directive 2011/65/EU,* except for the exempted applications specified in the Annex III to the Directive.

Please note that SANYO DENKI does not use exemption 7(c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 VAC or 250 VDC, for those products.

* Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE)

RoHS Directive:

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.













NORTH-EAST BRANCH

Via D. Alighieri, 4/A - 30034 MIRA (VE) Tel. +39.041.56.00.332 - Fax +39.041.56.00.165 email: rtane@rta.it

CENTER-SOUTH BRANCH

Via D. Alighieri, 41 - 60025 LORETO (AN) Tel. +39.071.75.00.433 - Fax +39.071.97.77.64 email: rtacs@rta.it

R.T.A. Deutschland GmbH

Bublitzer Straße 34 40599 DÜSSELDORF (Germany) Tel. +49.211.749.668.60 Fax +49.211.749.668.66 www.rta-deutschland.de email: info@rta-deutschland.de

R.T.A. IBERICA - Motion Control Systems S.L.

C/ Generalitat 22, 1° 3° 08850 GAVA - BARCELONA (Spain) Tel. +34.936.388.805 Fax +34.936.334.595 www.rta-iberica.es email: info@rta-iberica.es

R.T.A. STORE

www.rta-store.com www.rta-store.de www.rta-store.es



