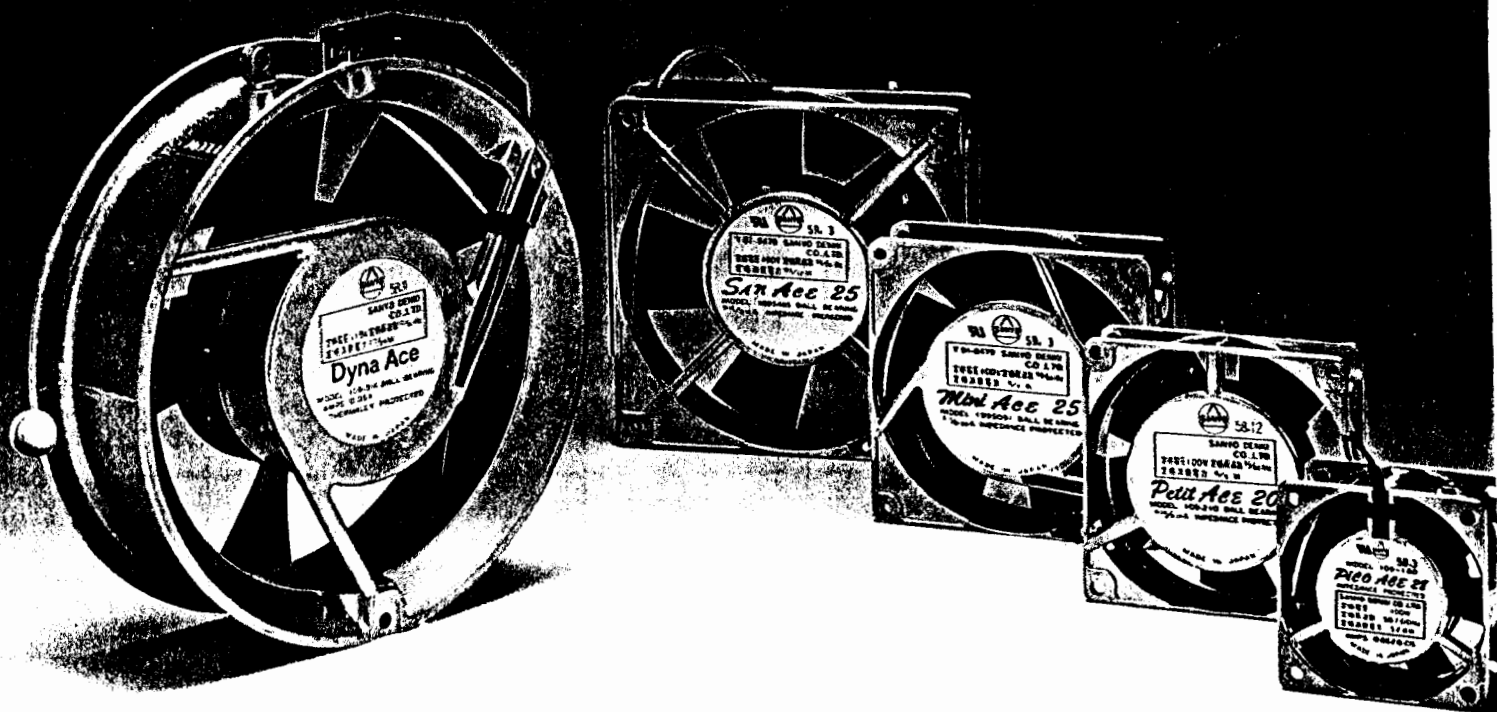


airmovers

precision cooling devices



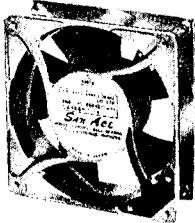
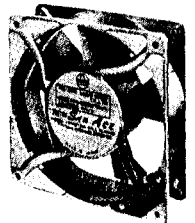

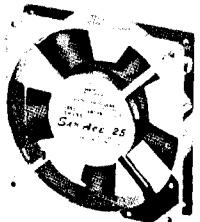
SANYO DENKI CO., LTD.







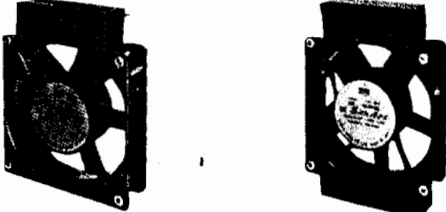
TABLE INDEX

		MODEL NO.	VOLTAGE(VAC)	DIMENSIONS(mm)		REMARKS	UL	PAGE		
SAN ACE (LOW NOISE)	NORMAL SPEED	109 S 005	100	119 SQUARE 38 THICKNESS		Aluminum die-cast	○	6		
		109 S 005 UL				//				
		109 S 024				//				
		109 S 024 UL	115			//				
		109 S 008	200			//				
		109 S 008 UL				//				
		109 S 025				//				
	109 S 025 UL	230	//							
	109 S 029 UL	100	Aluminum die-cast			○				
	109 S 013		//							
	109 S 013 UL		//							
	LOW SPEED	109 S 006	100			Aluminum die-cast	○			
		109 S 006 UL	100/115			//				
		109 S 010	200			//				
109 S 010 UL		200/240	//							
NEW SAN ACE (LOW NOISE)	109 S 075 UL	100	119 SQUARE 38 THICKNESS		Aluminum die-cast	○	8			
	109 S 074 UL	115			//					
	109 S 078 UL	200			//					
	109 S 072 UL	230			//					
SAN ACE 25 (LOW NOISE)	109 S 085	100	119 SQUARE 25 THICKNESS		Aluminum die-cast	○	9			
	109 S 084	115			//					
	109 S 088	200			//					
	109 S 087	230			//					
	109 S 081	100			//					
	109 S 083	115			//					
	109 S 082	200			//					
	109 S 089	230			//					
109 S 086	100	//								
MINI ACE 25 (LOW NOISE)	109 S 091	100	92 SQUARE 25 THICKNESS		Aluminum die-cast	○	10			
	109 S 093	115			//					
	109 S 092	200			//					
	109 S 094	230			//					
	109 S 095	100			//					
	109 S 096				//					
	109 S 193	115			//					
	109 S 192	200			//					
109 S 194	230	//								
MINI ACE	109-040 UL	100	80 SQUARE 42 THICKNESS		Aluminum die-cast	○	11			
	109-043 UL	115			//					
	109-041 UL	200			//					
	109-044 UL	230			//					
	109-047 UL	100			//					
	109-033 UL	115			//					
PETIT ACE (LOW NOISE)	20	109-210	100	80 SQUARE 20 THICKNESS		Aluminum die-cast	○	12		
		109-213	115			//				
		109 S 050	100			Aluminum die-cast				
		109 S 053	115			//				
	25	109 S 051	200	80 SQUARE 25 THICKNESS		//	○			
		109 S 054	230			//				
		109 S 030	100			Aluminum die-cast				
		109 S 033	115			//				
		109 S 032	120			//				
		109 S 031	200			//				
		109 S 037	220			//				
		109 S 034	230			//				
	38	109-150	100	80 SQUARE 38 THICKNESS		Aluminum die-cast	○	12		
		109-153	115			//				
		109-151	200			//				
		109-154	130			//				
PICO ACE (LOW NOISE)	28	109-180	100	60 SQUARE 28 THICKNESS		Aluminum die-cast	○	14		
		109-183	115			//				
	38	109-130	100			38 THICKNESS			//	
		109-133	115						//	

FEATURES

- Temperature Range
 "San Ace" fan is equipped with precision stainless steel ball bearings which provides long life.
 operatable in Amb. Temperature : $-30^{\circ}\text{C} + 70^{\circ}\text{C}$ (AC Fan) , $-10^{\circ}\text{C} + 60^{\circ}\text{C}$ (DC Fan)
- Light Weight
 Designed through high engineering know how, and impeller molded from synthetic resin bring out light weight unit.
- High Reliability
 "San Ace" fan is designed to operate without oiling for lubrication which provides high reliability and long life.
- Free Mounting
 "San Ace" fan can be mounted horizontally as well as vertically.
 And also able to be used as intake or exhaust fan.
- Maintenance and Handling
 "San Ace" fan series include two kinds of motor construction, such as shaded pole induction motor and single phase induction motor. Both of them equipped with terminals, which provide easy soldering and connecting with a plug-cord set.
- Low-noise
 Low noise level achieved through full analyze of hydrodynamics.
- Safety Construction
 "San Ace" fan series cover models listed in UL file (UL file No. E46810), also Japanese safety requirements on electrical goods.

	<p>SAN ACE</p> <p>normal speed, half speed and low speed</p> <ul style="list-style-type: none"> ○ The standard design of thin profile fan motor ○ Renewed from plastic frame to Aluminum Die-cast. <p style="text-align: right;">P 6 ~ P 7</p>
	<p>NEW SAN ACE</p> <ul style="list-style-type: none"> ○ Same dimensions as "San Ace" but with high efficiency. ○ Frame ; Aluminum Die-cast <p style="text-align: right;">P 8</p>
	<p>MINI ACE</p> <ul style="list-style-type: none"> ○ Best seller of 80 mm square frame ○ Typical applications ; computer peripherals, portable computers, business machines and TV cameras ○ Frame ; Aluminum Die-cast <p style="text-align: right;">P 11</p>
	<p>SAN ACE 25</p> <ul style="list-style-type: none"> ○ 25 mm thick ○ Typical applications : computer, computer peripherals, electric cash registers and copy machines ○ Frame ; Aluminum Die-cast <p style="text-align: right;">P 9</p>

	<p>MINI ACE 25</p> <ul style="list-style-type: none"> ○ 25mm thick and 92mm squared. ○ Typical applications : Mini computer, computer peripherals and business machines ○ Frame ; Aluminum Die-cast <p style="text-align: right;">P10</p>
	<p>PETIT ACE 20, 25, 38</p> <ul style="list-style-type: none"> ○ 80 mm squared, 20 mm thick (low noise) additional 25mm 38mm thickness series ○ Designed to miniaturization of customers requirement ○ Frame ; Aluminum Die-cast <p style="text-align: right;">P12~13</p>
	<p>PICO ACE 28, 38</p> <ul style="list-style-type: none"> ○ Success of miniaturization : 60 mm squared, 28mm/38mm thick ○ Frame ; Aluminum Die-cast ○ Lead wire type <p style="text-align: right;">P14</p>
	<p>DYNA ACE (S type)</p> <ul style="list-style-type: none"> ○ Typical applications : Computer peripherals, industrial equipments ○ Frame ; Aluminum Die-cast <p style="text-align: right;">P15</p>
	<p>DYNA ACE</p> <ul style="list-style-type: none"> ○ Noise improvement of "Dyna Ace" ○ Alarm system to be equipped ○ Low Magnetic Flux Leakage ○ Frame ; Aluminum Die-cast <p style="text-align: right;">P16</p>
	<p>ALARM FAN</p> <ul style="list-style-type: none"> ○ With compact and high efficiency alarm system of I.C. ○ Suitable for high-reliability electric machine ○ Frame ; Aluminum Die-cast (Output-open collector) ○ Frame ; Plastic (Discrete type) <p style="text-align: right;">P18~P22</p>
	<p>DC SAN ACE : DC Alarm San Ace</p> <ul style="list-style-type: none"> ○ Typical applications; signal power supply which needs battery DC 21V on DC 48V, transmitter, receiver, TV camera, and Battery car. ○ Built-in DC-AC inverter, device of alarm mounted on DC San Ace ○ Applied to NTT communication equipments <p style="text-align: right;">P17~P23</p>



Normal-speed Low-noise

TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB (A)
109S005	100	50/60	14/12	0.18/0.16	0.25/0.22	2700/3100	2.35/2.7	5.7/6.7	37/40
109S005UL									
109S024	120			0.16/0.14	0.21/0.18				
109S024UL	115								
109S008	200			0.09/0.08	0.13/0.11				
109S008UL									
109S025	230			0.08/0.07	0.11/0.09				
109S025UL									

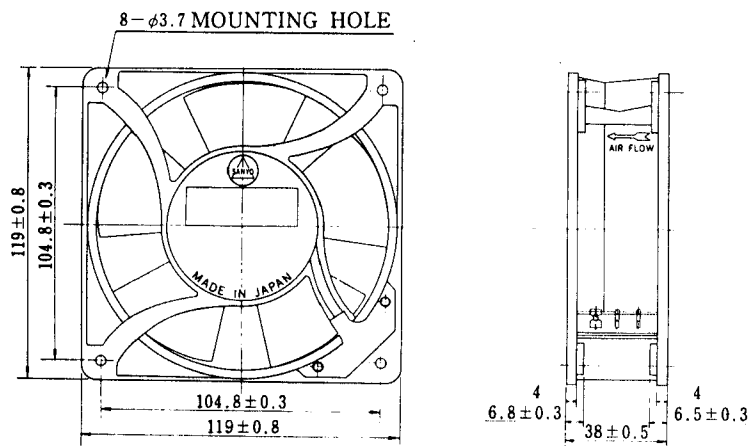
NEW SERIES—Low-Noise

Impedance Protection $\pm 10\%$

AC50/60Hz 1500V 1min. 0.55kg

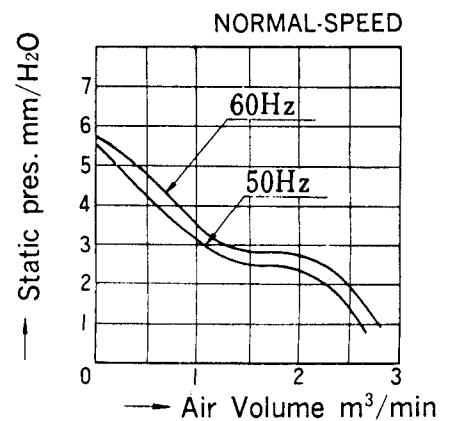
DIMENSIONS

Common to Normal, Half and Low speed Models



PERFORMANCE CURVES

(measured by wind-tunnel instrumentation)



**Half-speed
Low-speed Low-noise**

TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)	
☆ 109S029UL	100	50/60	14/12	0.18/0.16	0.23/0.21	2450/2700	2.15/2.35	4.5/5	35/37	
☆ 109S013			13/11	0.16/0.14	0.16/0.15	1800/2000	1.55/1.75	2.4/2.7	27/29	
☆ 109S013UL										
※ 109S006			200	7/7	0.1/0.09	0.1/0.09	1650/1700	1.45/1.5	1.8/1.8	25/25
※ 109S006UL										
※ 109S010										
※ 109S010UL	200	0.05/0.04	0.05/0.04							

☆ : half speed
※ : low speed

NEW SERIES—Low-Noise

Impedance Protection

± 10%

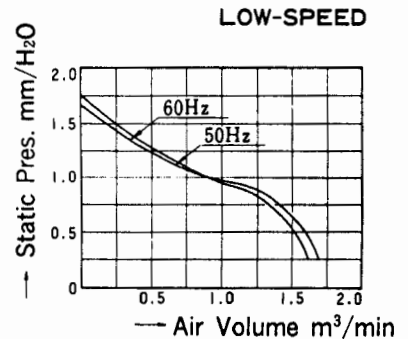
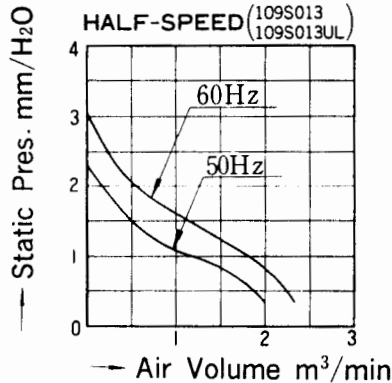
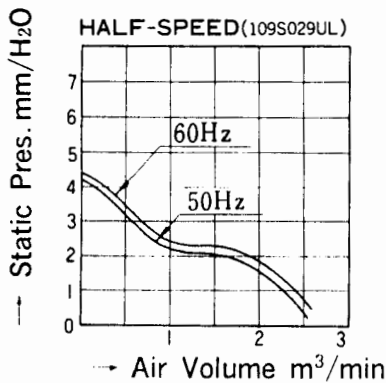
(109S006UL : 90~126.5VAC)

AC50/60Hz 1500V 1min.

(109S010UL : 180~264VAC ; Applicable Voltage Range)

0.55kg

PERFORMANCE CURVES (measured by wind-tunnel instrumentation)



TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109S075UL	100	50/60	18/16	0.24/0.21	0.32/0.28	2700/3100	2.5/2.9	5.9/7	39/42
109S074UL	115			0.21/0.18	0.27/0.24				
109S078UL	200			0.12/0.1	0.16/0.14				
109S072UL	230			0.11/0.09	0.14/0.13				

NEW SERIES – Low Noise

±10% Range

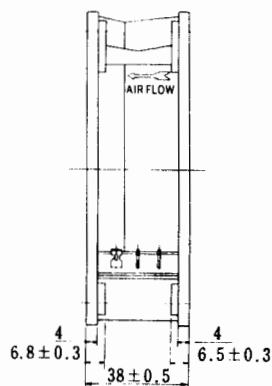
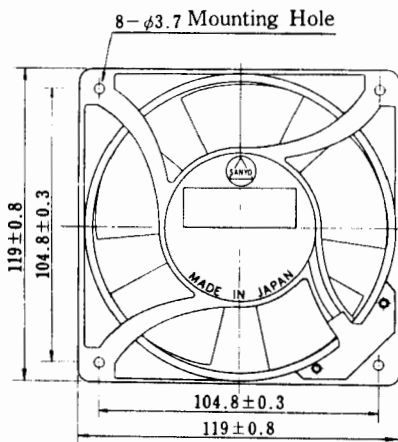
Impedance Protection

±10%

AC50/60Hz 1500V 1min.

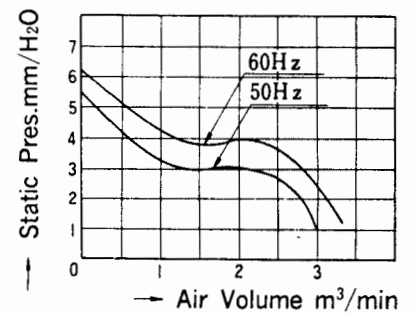
0.55kg

DIMENSIONS



PERFORMANCE CURVES

(measured by wind-tunnel instrumentation)



Sanace 25

Sell \$20.00 less 10% for 10

Low-noise

TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)
109S085	100	50/60	13.5/12	0.16/0.14	0.19/0.17	2500/2900	1.95/2.3	4.9/5.3	34/37
109S084	115			0.14/0.12	0.16/0.15				
109S088	200			0.08/0.07	0.1/0.09				
109S087	230			0.07/0.06	0.08/0.07				
☆109S081	100	50/60	9.5/8.5	0.1/0.09	0.11/0.1	2200/2350	1.7/1.8	3/2.7	31/32
☆109S083	115			0.09/0.08	0.1/0.09				
☆109S082	200			0.06/0.055	0.07/0.06				
☆109S089	230			0.06/0.05	0.06/0.05				
*109S086	100		12/10	0.14/0.12	0.15/0.13	1400/1600	1.1/1.25	1.5/1.9	21/24

☆ : Half speed
* : Low speed

NEW SERIES—Low Noise

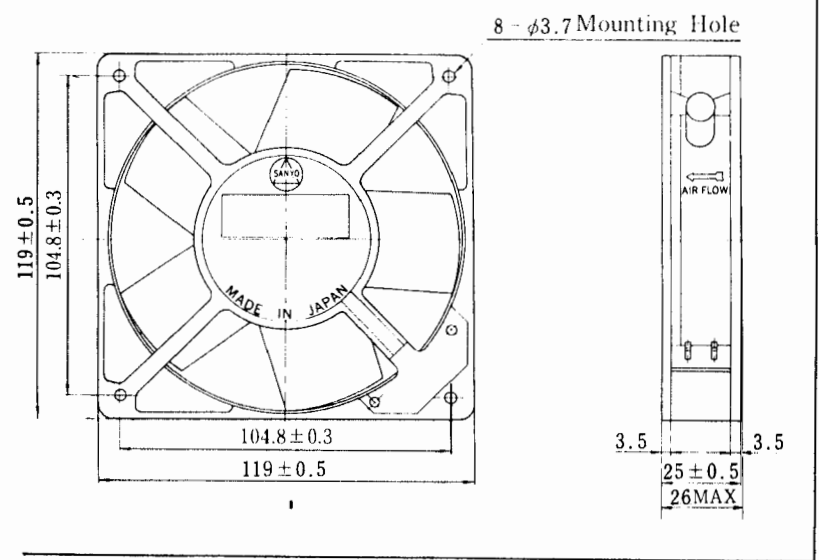
Impedance Protection

AC50 60Hz 1500V 1min.

±10%

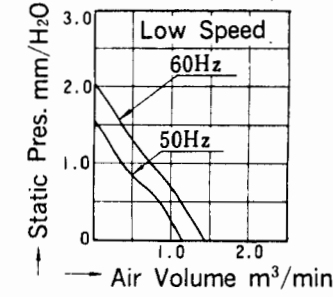
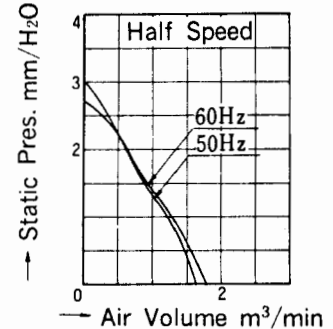
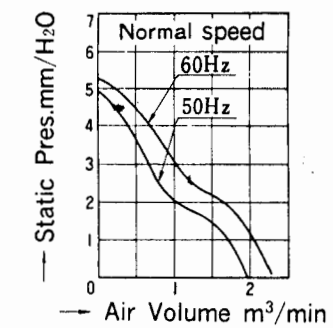
0.37kg

DIMENSIONS



PERFORMANCE CURVES

(measured by multiple nozzle in outlet chamber)



TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)	
109S091	100	50/60	8/7	0.1/0.09	0.13/0.12	2700/3100	0.95/1.1	4/5	31/34	
109S093	115			0.09/0.08	0.11/0.1					
109S092	200			11/10	0.07/0.06					0.08/0.08
109S094	230			10/9	0.06/0.05					0.07/0.07
☆109S095	100	50/60	7/6	0.1/0.09	0.11/0.1	2400/2800	0.84/0.98	3.2/4.1	28/31	
※109S096	100			0.09/0.08	0.09/0.08					
※109S193	115			0.08/0.07	0.08/0.07					
※109S192	200			8/7	0.06/0.05					0.06/0.05
※109S194	230	0.05/0.04	0.05/0.04							

NEW SERIES—Low Noise

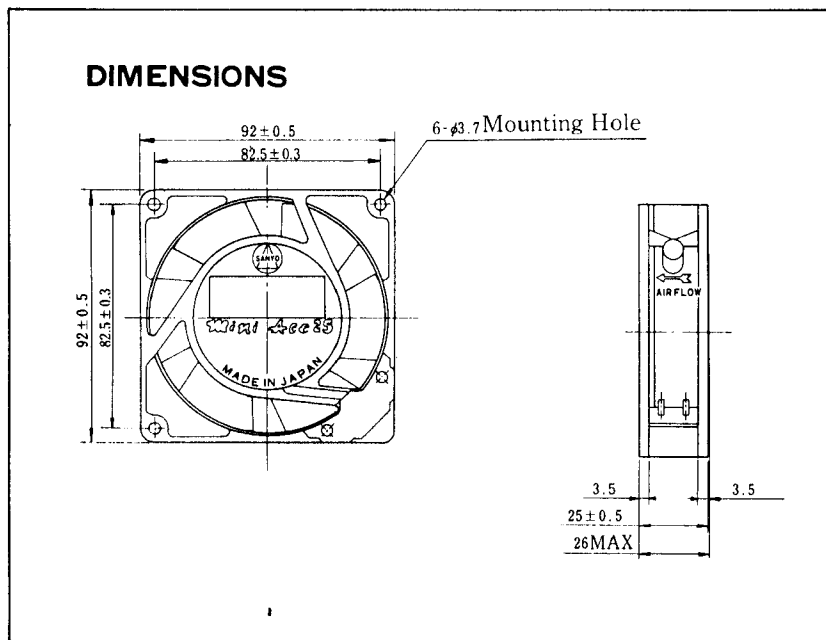
☆ : Half speed
 ※ : Low speed

Impedance Protection

AC50/60Hz 1500V 1min.

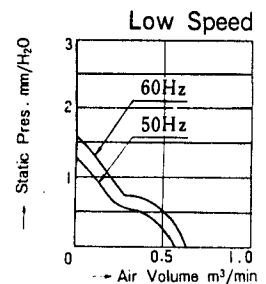
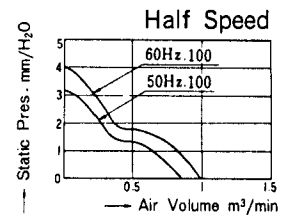
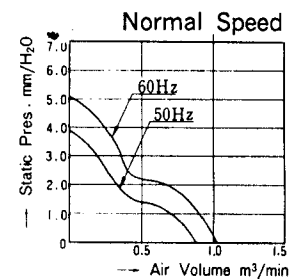
± 10%

0.29kg



PERFORMANCE CURVES

(measured by multiple nozzle in outlet chamber)



M

TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)
109-040UL	100	50/60	10/9	0.13/0.11	0.16/0.14	2650/3100	0.85/1.0	2.5/3.6	37/41
109-043UL	115		10/9	0.11/0.1	0.14/0.12				
109-041UL	200		10/9	0.07/0.06	0.08/0.07				
✓ 109-044UL	230		10/9	0.06/0.05	0.07/0.06				
* 109-047UL	100		4/3.5	0.05/0.05	0.05/0.05				
* 109-033UL	115	0.04/0.04		0.04/0.04					

* : Low speed

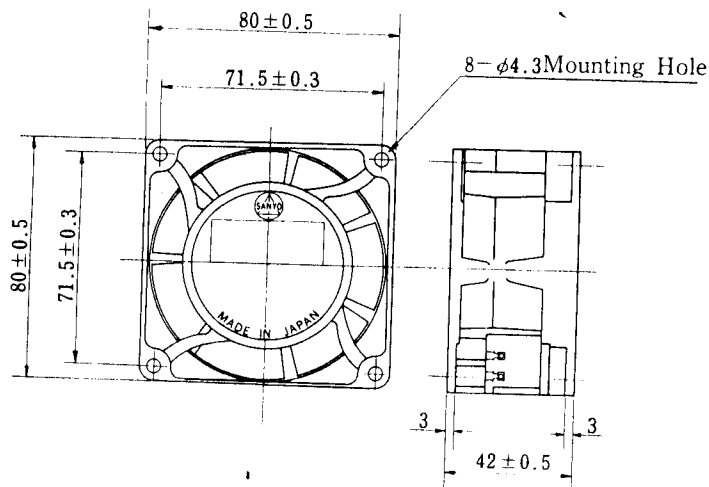
Motor
Impedance Protection

Dielectric
AC50/60Hz 1500V 1min.

Application
±10%

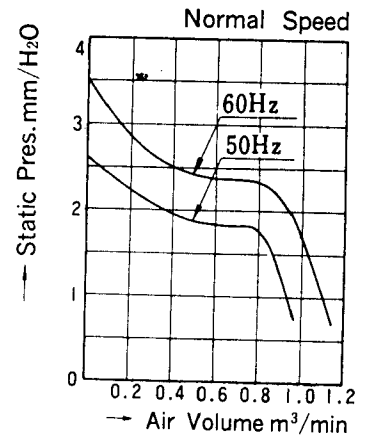
Weight
0.39kg

DIMENSIONS

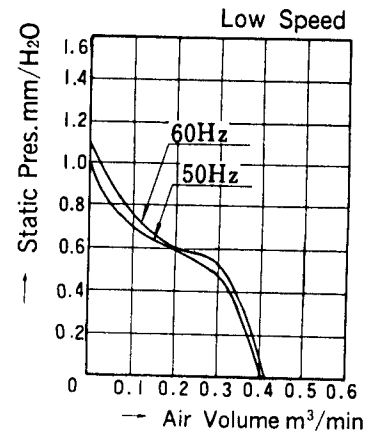


PERFORMANCE CURVES

(measured by wind-tunnel instrumentation)



(measured by multiple nozzle in outlet chamber)



25-38

TECHNICAL DATA PETIT ACE 20 (Low-noise)

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109-210	100	50/60	6/5	0.07/0.06	0.07/0.06	2500/3000	0.44/0.53	2.4/3.2	23/28
109-213	115			0.06/0.05	0.06/0.05				

PETIT ACE 25 (Low-noise)

Model No.	Voltage V	Frequency Hz	input W	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109S050	100	50/60	9/7	0.12/0.1	0.13/0.11	2650/3100	0.63/0.76	2.8/3.9	27/30
109S053	115			0.1/0.08	0.11/0.09				
109S051	200			0.06/0.05	0.06/0.05				
✓ 109S054	230			0.05/0.04	0.05/0.04				
☆ 109S030	100	50/60	9/7	0.12/0.1	0.13/0.11	2350/2700	0.55/0.63	2.2/2.9	25/27
☆ 109S033	115			0.1/0.08	0.11/0.09				
☆ 109S032	120			0.1/0.08	0.11/0.09				
☆ 109S031	200			0.06/0.05	0.06/0.05				
☆ 109S037	220			0.05/0.04	0.05/0.04				
☆ 109S034	230			0.05/0.04	0.05/0.04				

☆ : Half speed

PETIT ACE 38

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109-150	100	50/60	9/8	0.13/0.11	0.17/0.15	2700/3150	0.9/1.05	3.2/4.5	31/35
109-153	115			0.11/0.1	0.14/0.12				
109-151	200			0.07/0.06	0.09/0.08				
109-154	230			0.06/0.05	0.08/0.07				

PL

5-88

Impedance Protection

AC50/60Hz 1500V 1min.

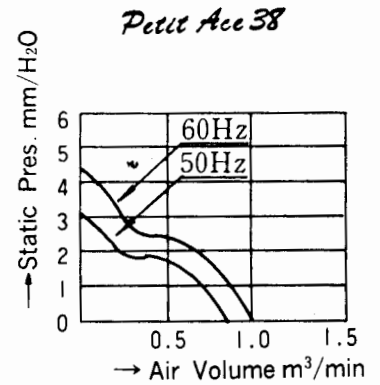
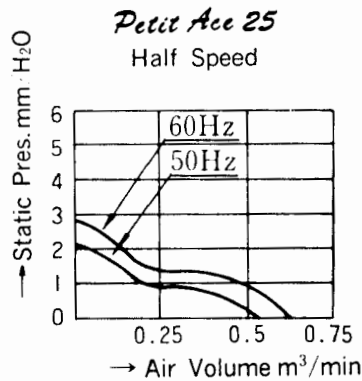
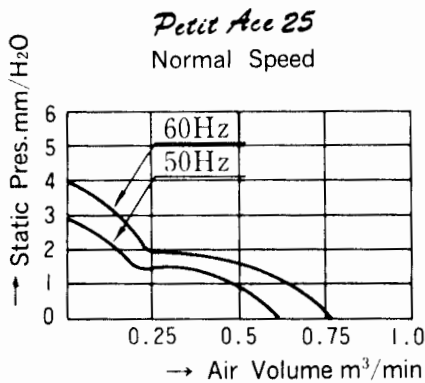
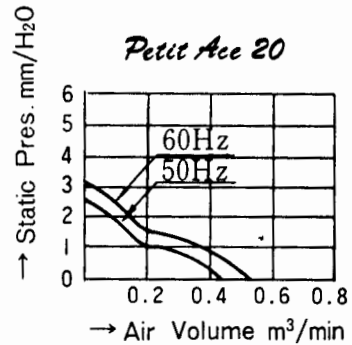
±10%

Weight

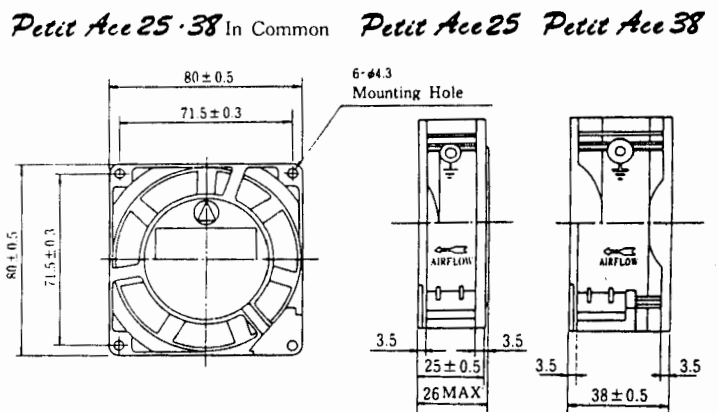
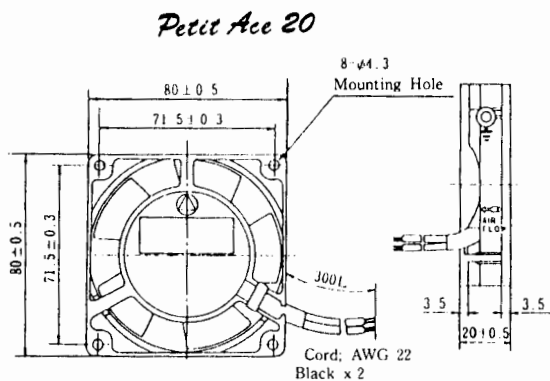
- 0.18kg (PETIT ACE 20)
- 0.27kg (PETIT ACE 25)
- 0.4kg (PETIT ACE 38)

PERFORMANCE CURVES

(measured by multiple nozzle in outlet chamber)



DIMENSIONS



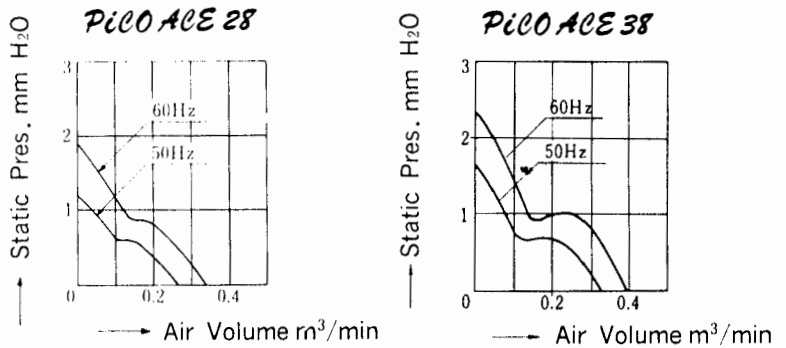
TECHNICAL DATA

Series	Model No.	Volt. V	Freq. Hz.	Input W	Cur. A	Locked Rotor Curr.A	Speed rpm	Max. Air Vol. m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)	Weight kg
28	109-180	100	50/60	5/4	0.06/0.05	0.07/0.06	2250/2700	0.27/0.33	1.2/1.9	21/23	0.13
	109-183	115				0.06/0.05					
38	109-130	100	50/60	6/5	0.08/0.07	0.08/0.07	2600/3150	0.33/0.4	1.7/2.4	24/26	0.18
	109-133	115				0.07/0.06					

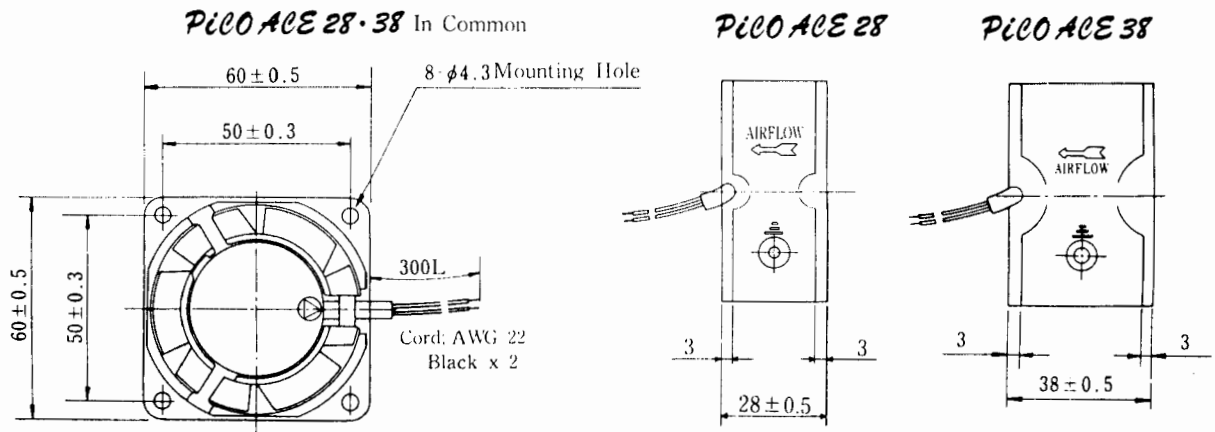
- Motor
- Impedance Protection
- Die
- AC50/60Hz 1500V 1min.
- Air
- ±10%

PERFORMANCE CURVES

(measured by multiple nozzle in outlet chamber)



DIMENSIONS



Low-noise

TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)
109S301	100	50/60	27/25	0.33/0.25	0.65/0.64	2900/3500	5.3/6.4	15/20	47/52
109S304	115			0.29/0.22	0.55/0.54				
109S302	200			0.16/0.13	0.33/0.32				
109S303	230			0.14/0.11	0.28/0.27				

↑
50Hz (187 CFM.)

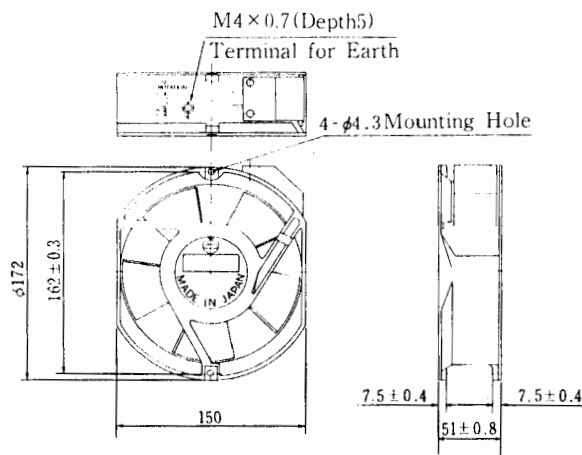
NEW SERIES—Low Noise

Single Phase Induction Motor ±10%

Thermal Protected 1.0kg

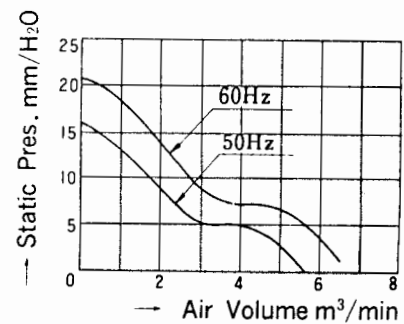
AC50/60Hz 1500V 1min.

DIMENSIONS



PERFORMANCE CURVES

(measured by multiple nozzle in outlet chamber)



Low-noise Low-flux Leakage

TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)
109-311	100	50/60	27/25	0.33/0.25	0.65/0.64	2900/3500	5.3/6.4	15/20	43/47
109-314	115			0.29/0.22	0.55/0.54				
109-312	200			0.16/0.13	0.33/0.32				
109-313	230			0.14/0.11	0.28/0.27				

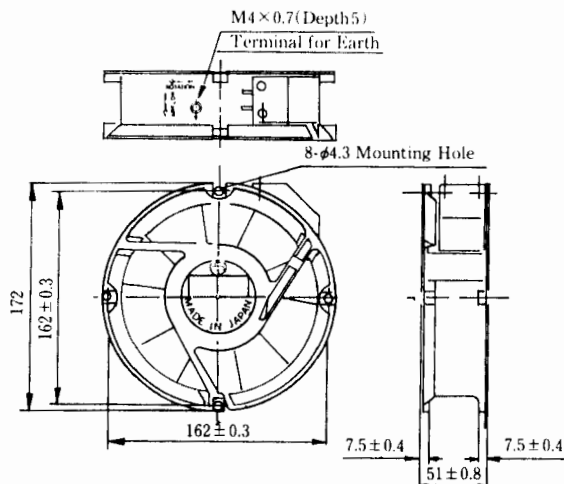
NEW SERIES—Low Noise, Low-Flux Leakage

Single Phase Induction Motor ± 10%

Thermal Protected 1.1 kg

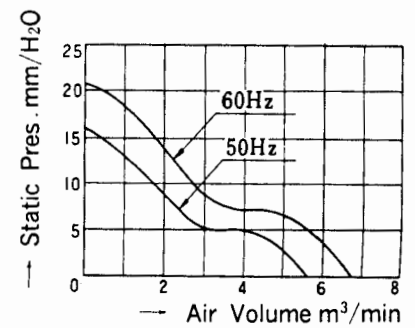
AC50/60Hz 1500V 1min.

DIMENSIONS



PERFORMANCE CURVES

(measured by multiple nozzle in outlet chamber)



TECHNICAL DATA

Model No.	Voltage V	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109-263	DC21	0.44	0.69	2850	2.55	5.7	44
109-268	DC48	0.23	0.29	2950	2.6	6	

● HIGH EFFICIENCY

This is the fan designed for Energy Saving and High Efficiency, needs less energy compared with conventional DC SAN ACE.

● HIGH EFFICIENCY

Semiconductors built-in an electric circuit are authorized by N.T.T.

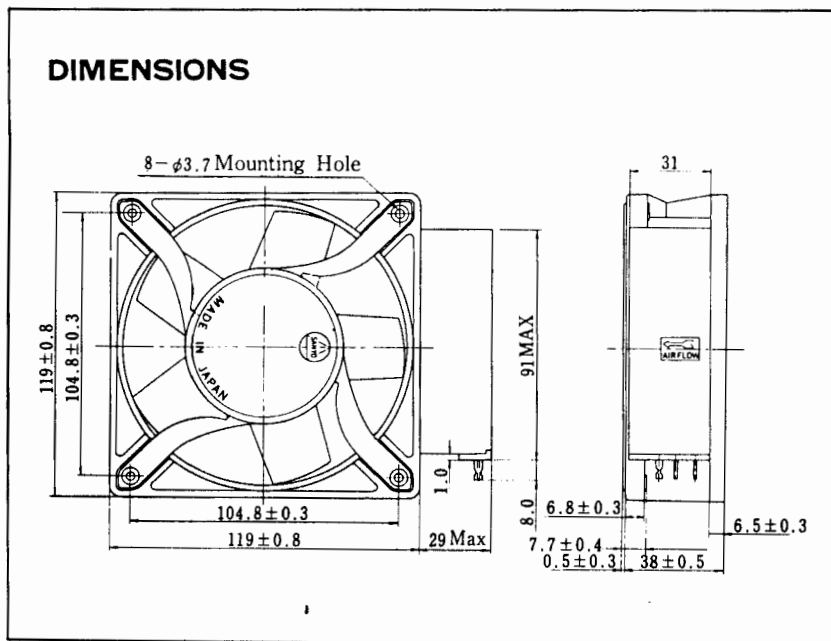
Note : DC SAN ACE may give some electric noise to other components.

AC50/60Hz 1000V 1min.

DC21V(18.5-28V)

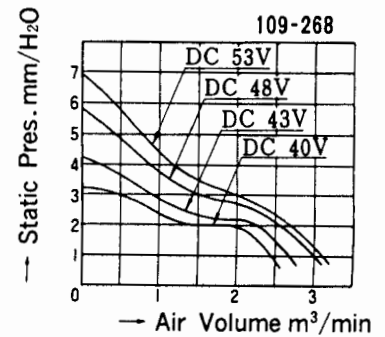
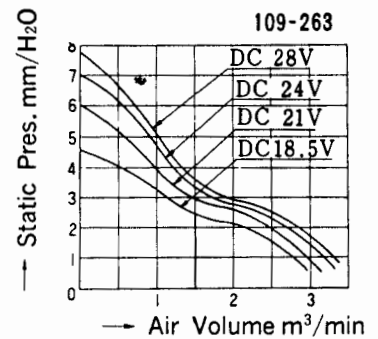
DC48V(40-53V)

0.63kg



PERFORMANCE CURVES

(measured by wind-tunnel instrumentation)



TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109S405UL	100	50/60	14/12	0.18/0.16	0.25/0.22	2700/3100	2.35/2.7	5.7/6.7	37/40
109S424UL	115			0.16/0.14	0.21/0.18				
109S408UL	200			0.09/0.08	0.13/0.11				
109S425UL	230			0.08/0.07	0.11/0.09				
☆ 109S429UL	100			0.18/0.16	0.23/0.21	2450/2700	2.15/2.35	4.5/5	35/37
* 109S406UL			7/7	0.1/0.09	0.1/0.09	1650/1700	1.45/1.5	1.8/1.8	25/25

☆ : Half speed

* : Low speed

NEW SERIES—Low Noise

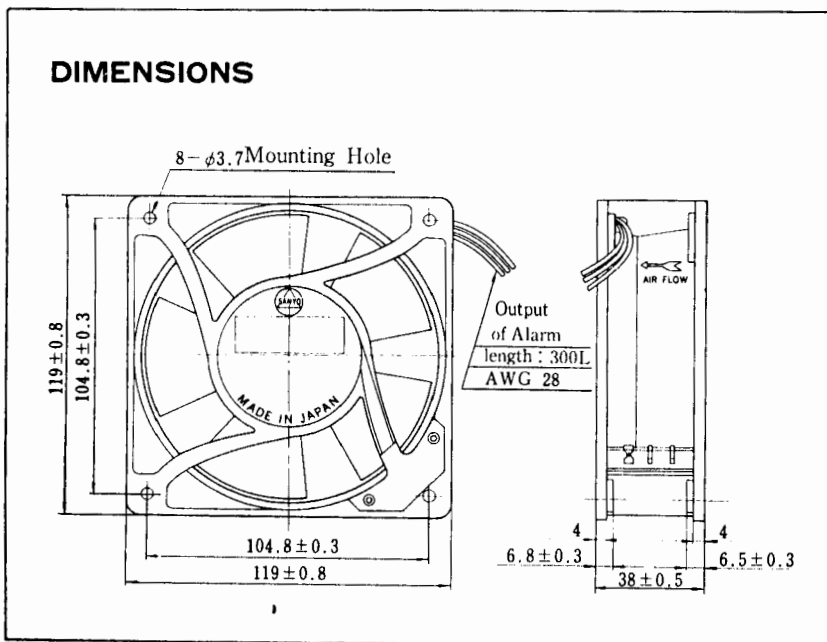
AC input-DC input (Alarm output) AC50/60Hz 1000V 1min.

AC input - Ground // 1500V //

Ground-DC input (Alarm output) // 1000V //

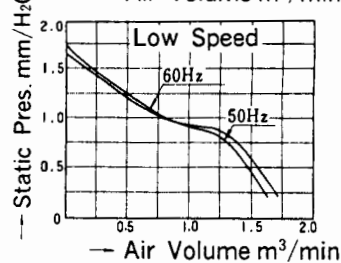
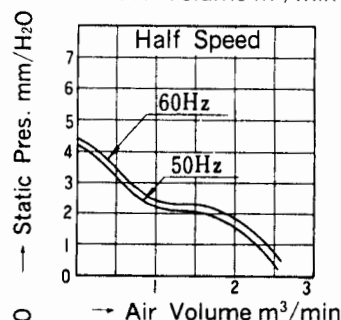
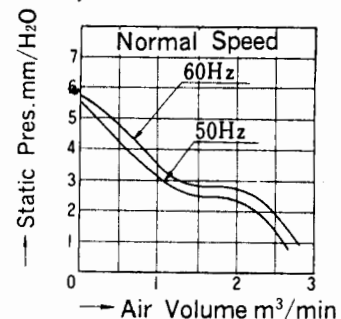
±10% (for motor only)

0.58kg



PERFORMANCE CURVES

(measured by wind-tunnel instrumentation)



TECHNICAL DATA

Model No	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109S475UL	100	50/60	18/16	0.24/0.21	0.32/0.28	2700/3100	2.5/2.9	5.9/7	39/42
109S474UL	115			0.21/0.18	0.27/0.24				
109S478UL	200			0.12/0.1	0.16/0.14				
109S472UL	230			0.11/0.09	0.14/0.13				

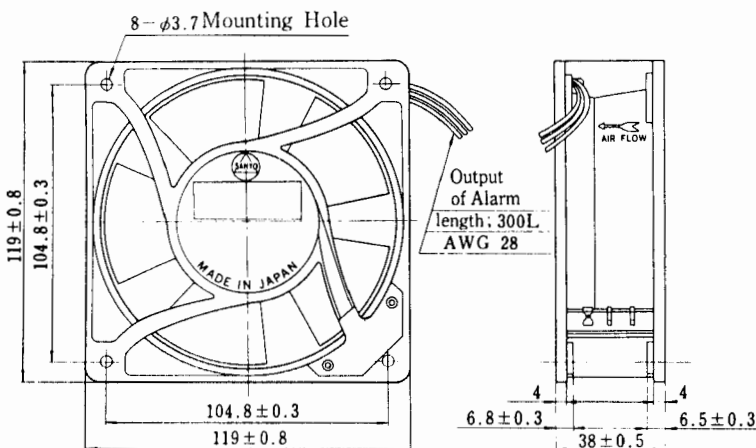
NEW SERIES—Low Noise

AC input-DC input (Alarm output) AC50/60Hz 1000V 1min.
 AC input - Ground // 1500V //
 Ground-DC input (Alarm output) // 1000V //

±10% (for motor only)

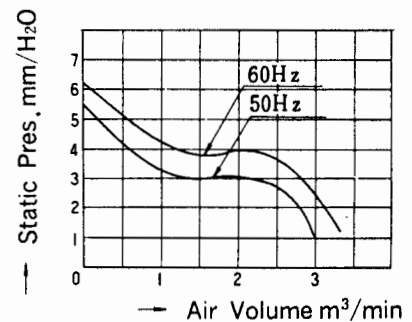
0.58kg

DIMENSIONS



PERFORMANCE CURVES

(measured by wind-tunnel instrumentation)



TECHNICAL DATA

Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109S485	100	50/60	13.5 / 12	0.16/0.14	0.19/0.17	2500/2900	1.95/2.3	4.9/5.3	34/37
109S484	115			0.14/0.12	0.16/0.15				
109S488	200			0.08/0.07	0.1/0.09				
109S487	230			0.07/0.06	0.08/0.07				
* 109S486	100		12/10	0.14/0.12	0.15/0.13	1400/1600	1.1/1.25	1.5/1.9	21/24

* : Low speed

NEW SERIES—Low Noise

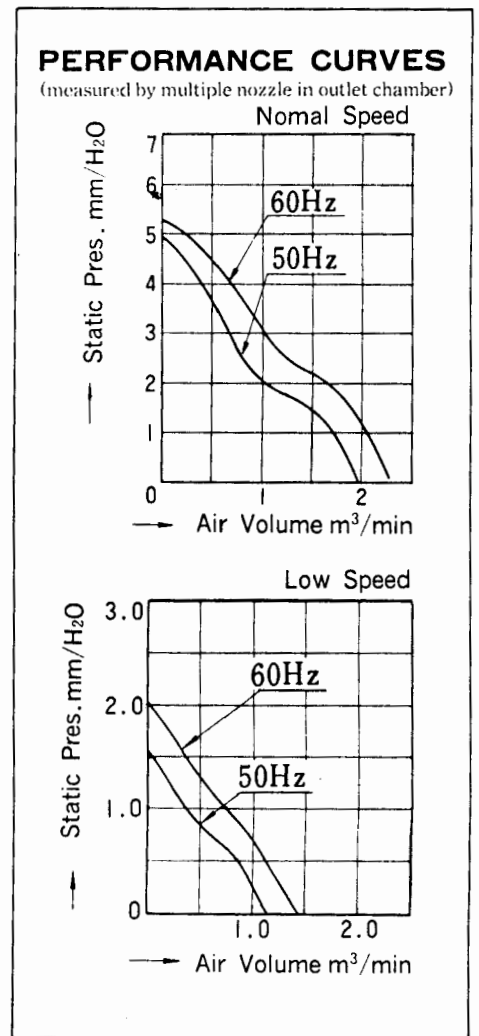
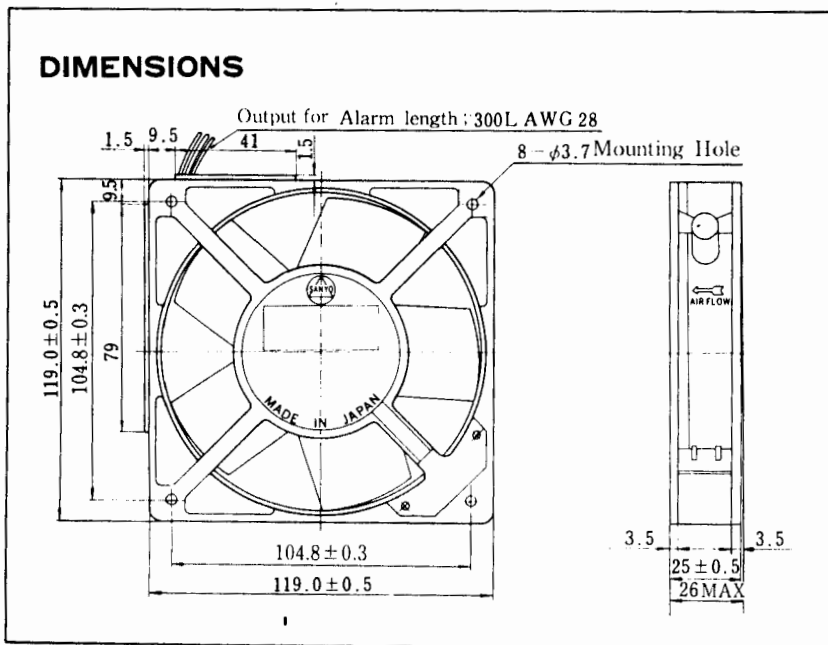
AC input-DC input (Alarm output) AC50/60Hz 1000V 1min.

AC input - Ground // 1500V //

Ground-DC input (Alarm output) // 1000V //

±10% (for motor only)

0.39kg



TECHNICAL DATA

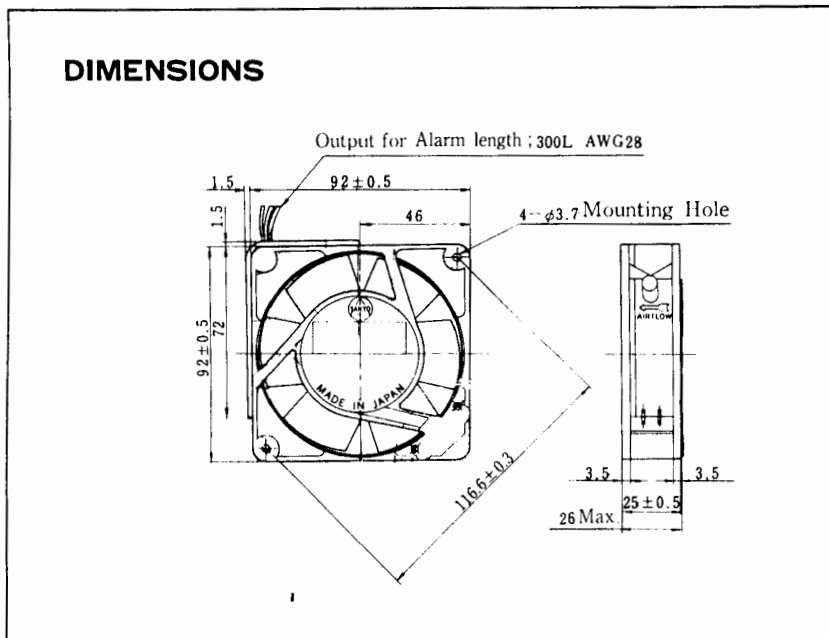
Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)
109S491	100	50/60	8/7	0.1/0.09	0.13/0.12	2700/3100	0.95/1.1	4/5	31/34
109S493	115			0.09/0.08	0.11/0.1				
109S492	200			11/10	0.07/0.06				
109S494	230		10/9	0.06/0.05	0.07/0.07				
☆ 109S495	100		8/7	0.1/0.09	0.11/0.1	2400/2800	0.84/0.98	3.2/4.1	28/31
* 109S496	100		7/6	0.09/0.08	0.09/0.08	1500/1700	0.53/0.6	1.25/1.55	21/24

☆ : Half speed
* : Low speed

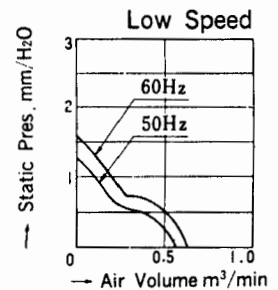
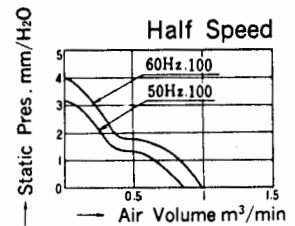
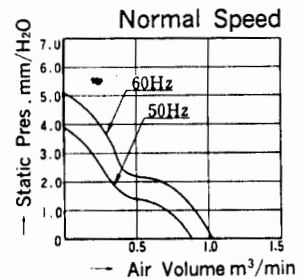
NEW SERIES—Low Noise

AC input-DC input (Alarm output) AC50 60Hz 1000V 1min.
 AC input - Ground // 1500V //
 Ground-DC input (Alarm output) // 1000V //

±10% (for motor only)
0.31kg



PERFORMANCE CURVES
(measured by multiple nozzle in outlet chamber)



Discrete type

TECHNICAL DATA

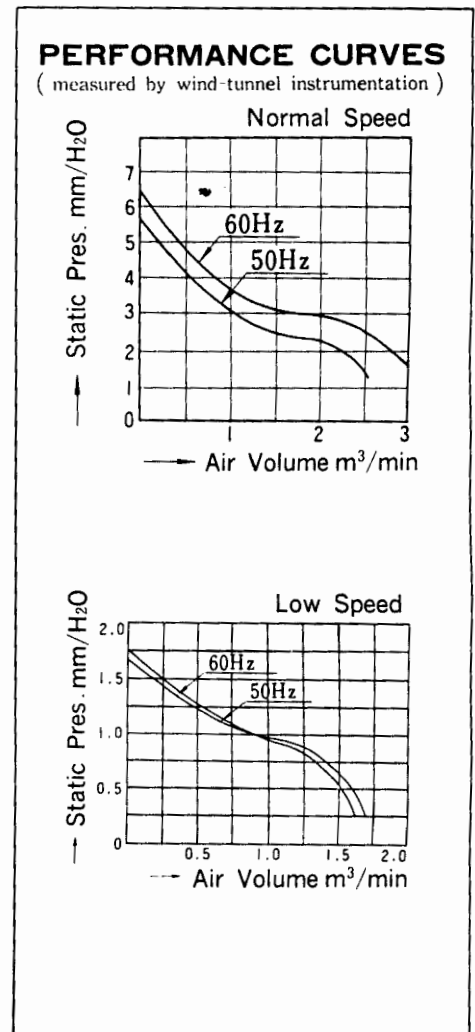
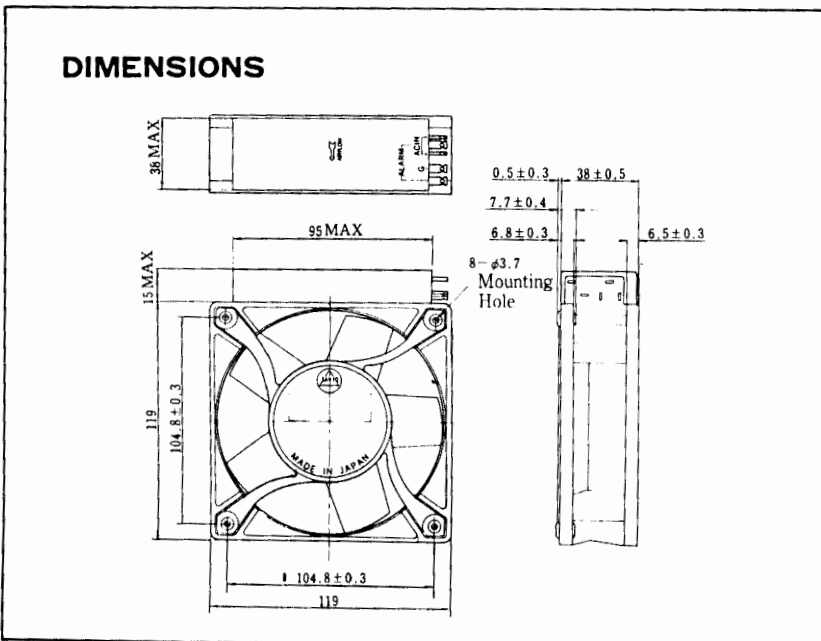
Model No.	Voltage V	Frequency Hz	Input W	Current A	Locked Rotor Curr. A	Speed rpm	Max. Air Volume m ³ /min	Max. Static Pres. mm/H ₂ O	Noise Level dB(A)	
109-105UL	100	50/60	13/12	0.19/0.17	0.28/0.25	2650/3100	2.35/2.7	5.7/6	40/43	
109-124	115			0.17/0.15	0.24/0.21					
109-108UL	200			14/13	0.1/0.09					0.16/0.14
109-125	230			17/16	0.09/0.08					0.14/0.12
* 109-106	100		7/7	0.11/0.1	0.13/0.12	1650/1700	1.45/1.5	1.8/1.8	26/27	

* : Low speed

AC50/60Hz 1500V 1min.

±10% (for motor only)

0.56kg



*Discrete type
Energy saving*

TECHNICAL DATA

Model No.	Voltage V	Current A	Locked Rotor Curr. A	Speed rpm	Max.Air Volume m ³ /min	Max.Static Pres. mm/H ₂ O	Noise Level dB(A)
109-260	DC21	0.44	0.69	2850	2.55	5.7	44
109-269	DC48	0.23	0.29	2950	2.6	6	

DC input-Alarm output AC50/60Hz 500V 1min.

DC input - Ground // 1000V //

Ground-Alarm output // 1000V //

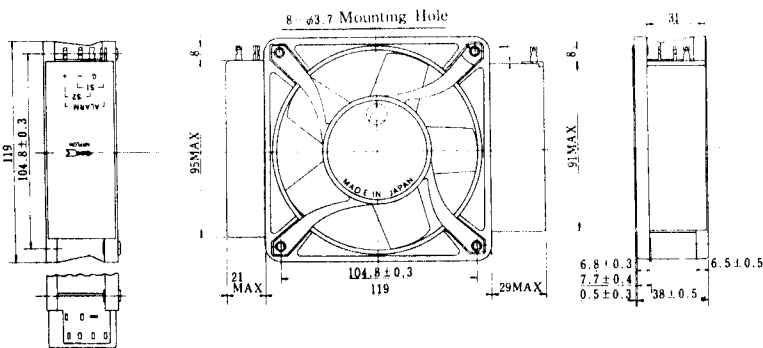
DC21V (18.5-26.5V)

DC48V (40-53V)

0.7kg

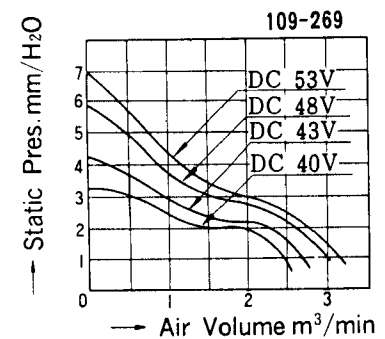
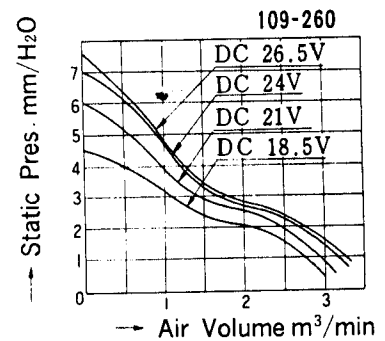
NOTE : DC SAN ACE may give some electric noise to other components.

DIMENSIONS



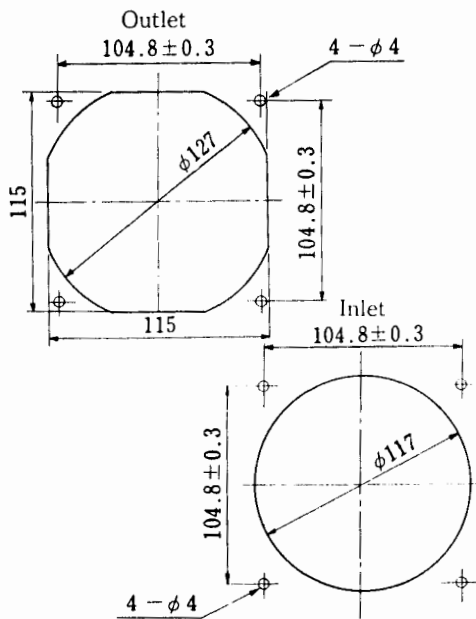
PERFORMANCE CURVES

(measured by wind-tunnel instrumentation)

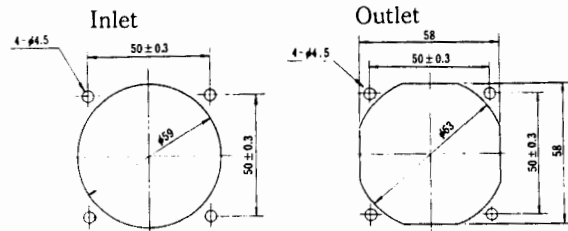


EXHAUST FILTERS

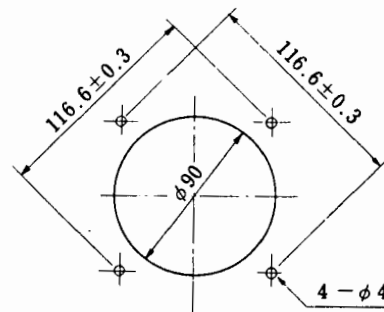
● SAN ACE NEW SAN ACE
SAN ACE 25



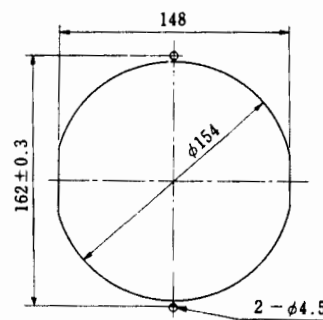
● PICO ACE 28 · 38



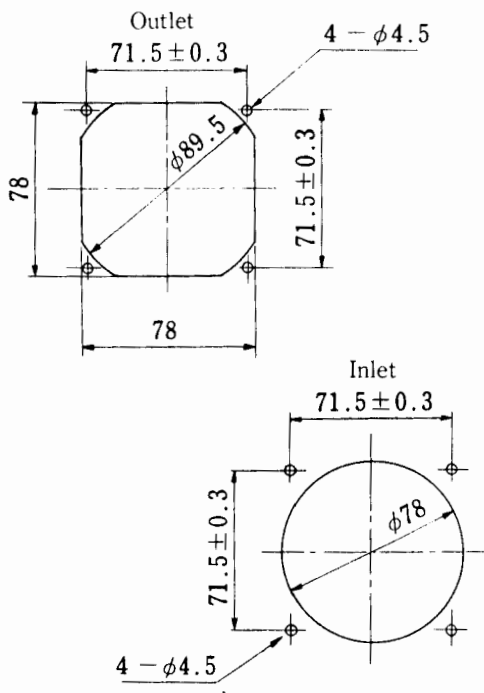
● MINI ACE 25



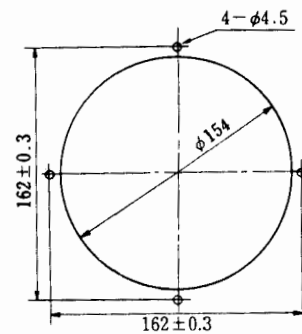
● DYNA ACE (low-noise)



● MINI ACE, PETIT ACE 20 · 25 · 38



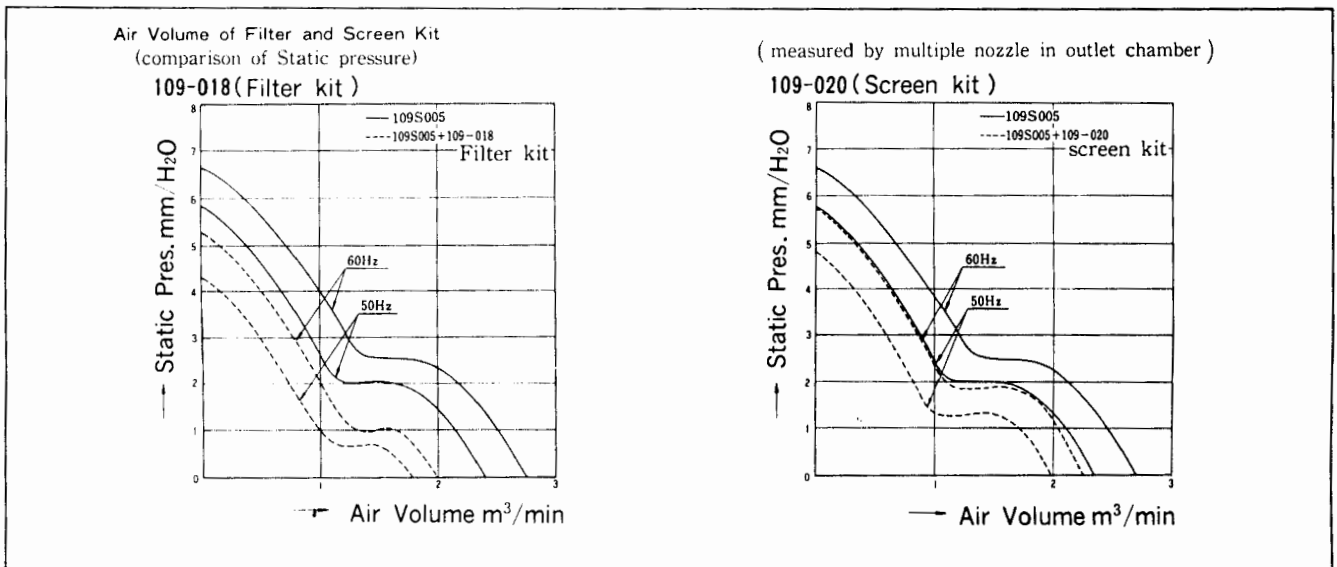
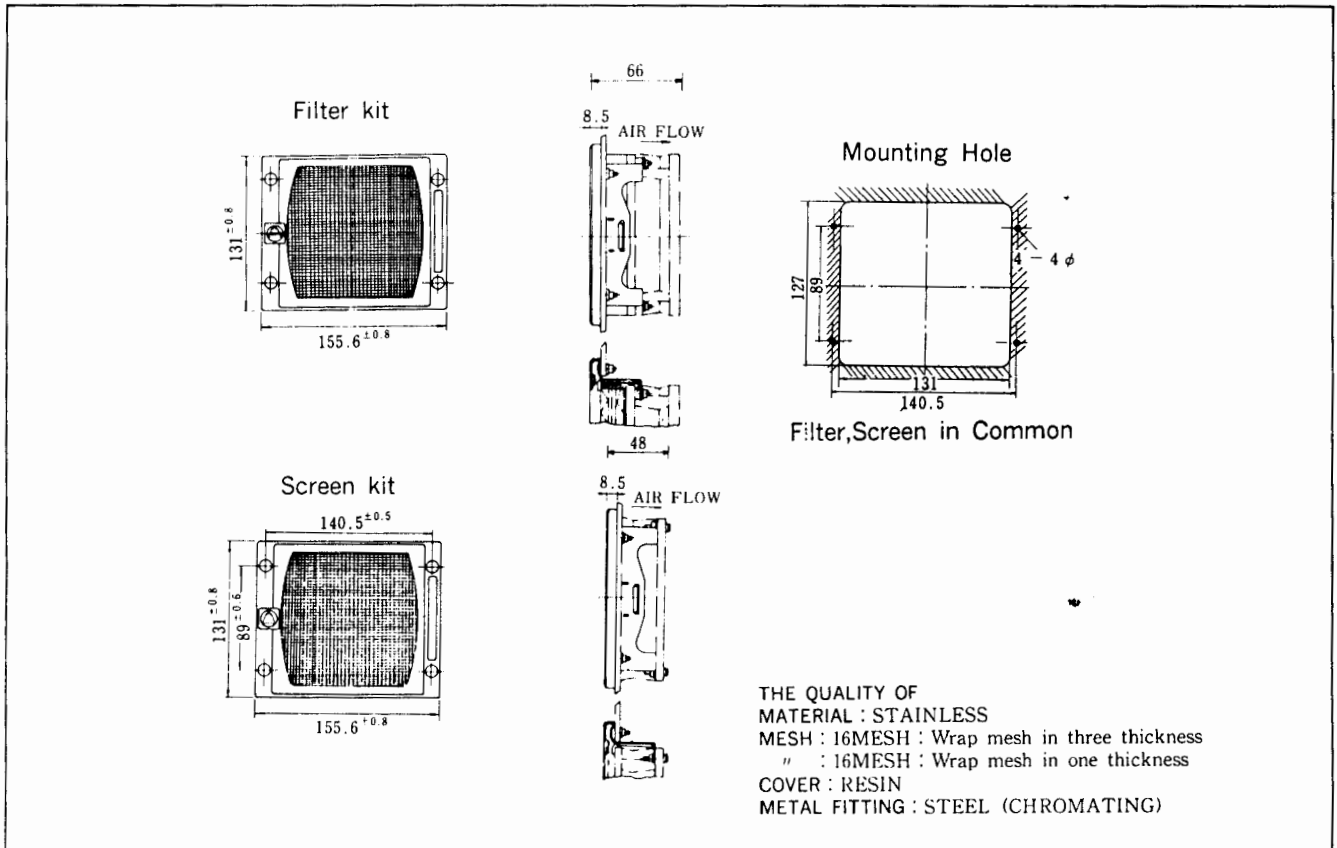
● DYNA ACE (low noise, low leakage)



AC

FILTER KIT, SCREEN KIT

Model No.	Name	Application
109-018	FILTER KIT	SAN ACE, NEW SAN ACE IN COMMON
109-020	SCREEN KIT	//



Finger Guard

Model No.	Application	Model No.	Application
109-019B	SAN ACE,NEW SAN ACE,SAN ACE 25, DC SAN ACE,ALARM SAN ACE IN COMMON	109-099B	MINI ACE 25 ONLY
109-019C	"	109-099C	"
109-049B	MINI ACE,PETIT ACE 20·25·38 IN COMMON	109-319	DYNA ACE ONLY(Plated with Nickel and Chromium)
109-049C	"	109-320	"
		103-139	PICO ACE 28,38 IN COMMON (Plated with Nickel and Chromium)

Surface treating :
 B : BLACK PAINTING
 C : PLATED WITH NICKEL AND CHROMIUM

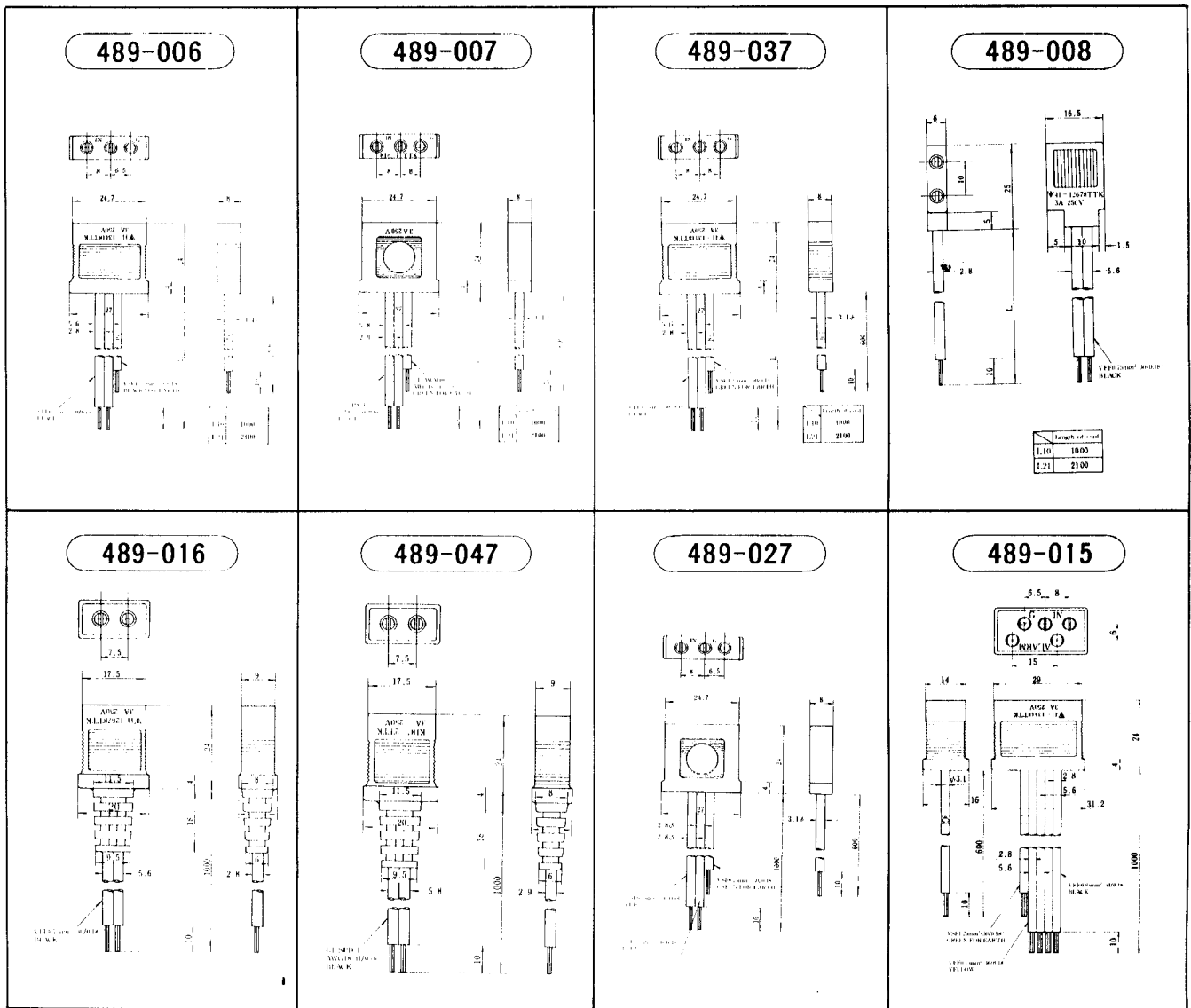
SAN ACE NEW SAN ACE SAN ACE 25 DC SAN ACE ALARM SAN ACE ALARM SAN ACE 25 DC ALARM SAN ACE IN COMMON	109-019B 	109-019C
MINI ACE PETIT ACE 20,25,38 IN COMMON	109-049B 	109-049C
MINI ACE 25 ONLY	109-099B 	109-099C
DYNA ACE ONLY	109-319 	109-320
PICO ACE 28,38 IN COMMON	109-139 	

ACCESSORIES

Plug & Cord Set

Model No.	Application	Standard	Authorization Listings
489-006-L10,L21	SAN ACE ONLY	for ordinary Use	▽41-13448
489-007-L10,L21	SAN ACE,NEW SAN ACE IN COMMON	UL	UL FILE No.E50197
489-037-L10,L21	NEW SAN ACE ONLY	for ordinary use	▽41-13448
489-008-L10,L21	MINI ACE ONLY	"	▽41-12678
489-016-L10	SAN ACE 25,MINI ACE 25,DYNA ACE,PETIT ACE 25,38 IN COMMON	"	"
489-047-L10	SAN ACE 25,MINI ACE 25,DYNA ACE,PETIT ACE 25,38 IN COMMON	UL	UL FILE No.E50197
489-027-L10	DC SAN ACE ONLY	for ordinary use	"
489-015-L10	AC DISCRETE ALARM FAN ONLY	"	▽41-13448

Note : Length of plug cord L10 : 1,000mm L21 : 2,100mm



SANYO DENKI CO., LTD.

No. 15-1, 1-chome, Kitasotaka, Toshima-ku, Tokyo, JAPAN
TEL. Tokyo (03) 917-5151
TELEX: 2722176 SANYOT J
CABLE ADDRESS: TOSANYO TOKYO
TELEFAX: (03)917-0643 GIII