

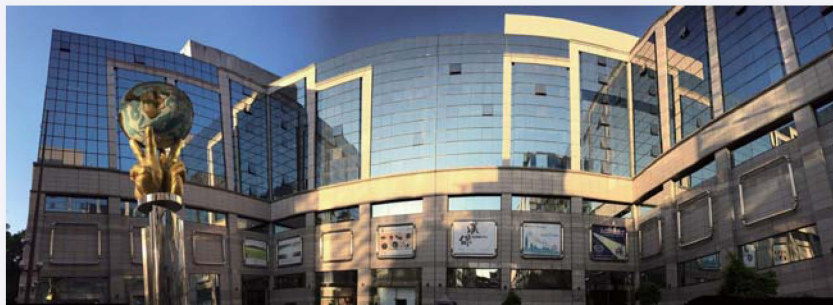
SINWAN Cooling Fan



Sinwan
IP68, IP69K Fans

Waterproof
Dustproof

- IP68, IP69K Certified
- 30 days Salt Spray Certified (GR-487)
- Outdoor use
- High Performance
- High Quality
- Customization offering



About SINWAN Fan Motors

Sinwan Taipei, Taiwan, was established in 1976 and keeping expanding its engineering technic research / manufacturing / marketing service to include contracts with various prestigious companies in the world.

Sinwan offers full series of product combinations, including AC/DC Axial Fans, EC Fans (EC Fan energy-saving fan series), All Metal Fans, Centrifugal Fans, Crossflow Fans, Blowers, Skeleton Fan, and AC/DC/EC Motors, IP68, IP69K Cooling fans (IP68, IP69K Waterproof Fans / IP68, IP69K Dustproof Fans / IP68, IP69K Splash Proof Fans), and Fan Accessories (Metal Fan Guard, Plastic Fan Guard, Plastic Filter, Metal Screen, Ventilator Filter Kits, Power Cord) in both AC and DC market with varieties of functions. This wide selection enables our customers to choose the correct air moving device for all applications. "Practical outcomes through innovative means" is what we believe.

SINWAN products are tested in compliance with UL (Fans file no. E89520, Motors E329400), TUV (file no. 10013902) , and CE international safety approvals, International Protection IP55, IP56, IP66, IP68, IP69K Rating.

Index

AC Metal Fan (IP68, IP69K) / DC Plastic Fan (IP68, IP69K)	01
AC Metal Fan (IP55,IP56)	02
AC Metal Skeleton Fan (IP56, IP68, IP69K) / DC Plastic Skeleton Fan (IP68, IP69K)	03
EC Plastic Fan / EC Centrifugal Fan	04
AC Plastic Fan / AC Centrifugal Fan	05
DC Metal Fan (IP55, IP56, IP68) / DC Centrifugal Fan	06
DC Plastic Fan	07
AC & DC & EC & 3P Fan Motors / Ventilator	08
Fan Accessories	09

Sinwan IP68, IP69K



AC Metal Fan (IP68, IP69K)

Dustproof & Waterproof Fan Series

Frame Size (mm)	Sinwan Model No.	Voltage (VAC)	Freq. (Hz)	Referenced Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (inch/H2O)	Noise Level db(A)
280x280x89	M280GAN11-1**	115	50/60	2800/3200	1150/1300	1.2/0.75	73
280x280x89	M280GAN22-1**	230	50/60	2800/3200	1150/1300	1.2/0.75	73
Dia.254x89	M254GAN11-1**	115	50/60	2800/3250	840/1000	0.78/0.60	70
Dia.254x89	M254GAN22-1**	230	50/60	2800/3250	840/1000	0.78/0.60	70
225x225x80	M225GAN11-1**	115	50/60	2700/3100	525/600	0.91/0.88	66
225x225x80	M225GAN22-1**	230	50/60	2650/3000	530/600	0.82/0.78	66
205x205x72	M205RAN11-1**	115	50/60	2800/3000	520/590	0.91/0.86	67
205x205x72	M205RAN22-1**	230	50/60	2800/3000	520/590	0.91/0.86	67
200x200x70	M200RAN11-1**	115	50/60	2800/3300	430/485	0.82/0.93	68
200x200x70	M200RAN22-1**	230	50/60	2800/3300	430/485	0.82/0.93	68
176x176x89	M180GAN11-1**	115	50/60	2750/3250	330/380	0.69/0.76	63
176x176x89	M180GAN22-1**	230	50/60	2750/3250	330/380	0.69/0.76	63
180x180x65	M180FAN11-1**	115	50/60	2750/3250	330/400	0.75/0.80	65
180x180x65	M180FAN22-1**	230	50/60	2750/3250	330/400	0.75/0.80	65

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

DC Plastic Fan (IP68, IP69K)

Dustproof & Waterproof Fan Series

Frame Size (mm)	Sinwan Model No.	Voltage (VDC)	Referenced Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (inch/H2O)	Noise Level db(A)
Dia.254x88.9	SD254GAN-12SH**	12	2400	830	0.78	60
Dia.254x88.9	SD254GAN-24SH**	24	2500	850	0.83	62
Dia.200x70	SD200RAP-12SH**	12	3050	495	1.26	65
Dia.200x70	SD200RAP-24SH**	24	3300	505	1.30	69
180x180x65	SD180FAP-12SH**	12	3700	490	1.25	68
180x180x65	SD180FAP-24SH**	24	3800	500	1.30	69
172x150x51	SD1755AP-12SH**	12	4100	315	1.02	59
172x150x51	SD1755AP-24SH**	24	4150	320	1.05	60
120x120x38	SD1238PT-12SH**	12	4000	118	0.52	48
120x120x38	SD1238PT-24SH**	24	4000	118	0.52	48
120x120x25	SD1225PT-12H**	12	2900	86	0.24	42
120x120x25	SD1225PT-24H**	24	2900	86	0.24	42
92x92x38	SD9238PT-24SHH**	24	8000	166.4	1.9	72
92x92x38	SD9238PT-48SHH**	48	8000	166.4	1.9	72
92x92x25	SD9225PT-12H**	12	2900	50	0.24	35
92x92x25	SD9225PT-24H**	24	2900	50	0.24	33
80x80x38	SD8038PT-12H**	12	5000	69.3	0.58	49
80x80x38	SD8038PT-24H**	24	5000	69.3	0.58	49
80x80x32	SD8032PT-12H**	12	6000	75.3	0.73	50
80x80x32	SD8032PT-24H**	24	6000	75.3	0.73	50
80x80x25	SD8025PT-12H**	12	3300	40	0.23	33
80x80x25	SD8025PT-24H**	24	3300	40	0.23	33
60x60x25	SD6025PT-12H**	12	4000	25	0.22	30
60x60x25	SD6025PT-24H**	24	4000	25	0.22	30

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

AC Metal Fan (IP55,IP56)

Signal output : R/D Alarm, F/G Tachometer



80x80x38mm
Max.33 CFM
M838AP series



92x92x38mm
Max.55 CFM
M938AP series



120x120x38mm
Max.105 CFM
M109AP series



127x127x38.5mm
Max.128 CFM
M127AN series



150x172x38.5mm
Max.240 CFM
M150AP (MS) series



150x172x55mm
Max.210 CFM
M172EAP series



150x172x55mm
Max.250 CFM
M172EAP (MS) series



150x172x55mm
Max.310 CFM
M172EAP (C7) series



Dia.172x51mm
Max.215 CFM
M172RAP series



Dia.172x51mm
Max.260 CFM
M172RAP (MS)series



Dia.172x51mm
Max.310 CFM
M172RAP (C7)series



172x150x51mm
Max.250 CFM
M172SAP series



172x150x51mm
Max.250 CFM
M172SAP (MS) series



172x150x51mm
Max.310 CFM
M172SAP (C7) series



180x180x65mm
Max.400 CFM
M180FAN series



176x176x89mm
Max.380 CFM
M180GAN series



200x200x70mm
Max.485 CFM
M200RAN series



205x205x72mm
Max.590 CFM
M205RAN series



225x225x80mm
Max.600CFM
M225GAN series



Dia.254x89mm
Max.930CFM
M254GAN(3) series



Dia.254x89mm
Max.1000 CFM
M254GAN series



280x280x89mm
Max.1300CFM
M280GAN series

Speciafication

Motor: Shaded pole or capacitor induction motor, external rotor

Motor Protection: Thermal protector or Impedance protected

Frame: Aluminum die-cast, black color or natural color

Impeller: Metal blades

IP Protection: IP55, IP56, IP68, IP69K optional request

Bearing: Two ball bearings

Rotation: CW or CCW view from label side

Operating Temp: -30°C~+80°C (non-condensing)

Storage Temp: -40°C~+100°C (at 65%RH)

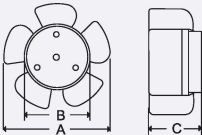
Life Expectancy: 50,000 hours at 55°C

Dielectric Strength: Over 1 min. at 1,500 VAC, 50/60Hz

Insulation Resistance: Over 100 MΩ at DC 500V

Connection: Wire leads or terminal type

AC Metal Skeleton Fan (IP56,IP68,IP69K)

 MK838 (Dia.75x35mm) Air Flow: 33~18 CFM	 MK938 (Dia.85x39mm) Air Flow: 55~27 CFM	 MK109 (Dia.113x35mm) Air Flow: 105~60 CFM	 MK127 (Dia.120x41mm) Air Flow: 128~65 CFM	 MK150 (MS) (Dia.145x38mm) Air Flow: 195~100 CFM																						
 MK172E (Dia.140x56mm) Air Flow: 210~95 CFM	 MK180F (Dia.160x80mm) Air Flow: 390~200 CFM	 MK200R (Dia.172x79mm) Air Flow: 485~160 CFM	 MK205R (Dia.197x79mm) Air Flow: 630~220 CFM	 MK254 (Dia.219x87mm) Air Flow: 1000~370 CFM																						
 MK280 (Dia.245x100mm) Air Flow: 1300~450 CFM	Information  <table border="1"> <thead> <tr> <th>Model No./Series</th> <th>Dimensions AxBxC mm (inch)</th> </tr> </thead> <tbody> <tr> <td>MK838</td> <td>75x59x35 (2.95x2.32x1.81)</td> </tr> <tr> <td>MK938</td> <td>85x59x39 (3.35x2.32x1.81)</td> </tr> <tr> <td>MK109</td> <td>113x59x35 (4.45x2.32x0.90)</td> </tr> <tr> <td>MK150 (MS)</td> <td>145x74.5x38 (5.51x2.93x1.20)</td> </tr> <tr> <td>MK172E</td> <td>140x74.5x56 (5.51x2.93x1.59)</td> </tr> <tr> <td>MK180F</td> <td>160x73x80 (6.30x2.87x1.93)</td> </tr> <tr> <td>MK200RAN</td> <td>172x88x79 (6.77x3.46x3.11)</td> </tr> <tr> <td>MK205</td> <td>197x88x79 (7.75x3.46x3.11)</td> </tr> <tr> <td>MK254GAN</td> <td>219x88x87 (8.62x3.46x3.43)</td> </tr> <tr> <td>MK280GAN</td> <td>245x88x100 (9.65x3.46x3.43)</td> </tr> </tbody> </table> • 100, 200, 240V or special voltages 12, 24, 28, 38, 42, 48, 380, 440, 480V... 50/60Hz, & any voltages available. • Dual speed High/Medium 1/2, Medium/Low 2/3 available on request. • Sinwan reserves the right to change data and improve electrical & mechanical design without notice.				Model No./Series	Dimensions AxBxC mm (inch)	MK838	75x59x35 (2.95x2.32x1.81)	MK938	85x59x39 (3.35x2.32x1.81)	MK109	113x59x35 (4.45x2.32x0.90)	MK150 (MS)	145x74.5x38 (5.51x2.93x1.20)	MK172E	140x74.5x56 (5.51x2.93x1.59)	MK180F	160x73x80 (6.30x2.87x1.93)	MK200RAN	172x88x79 (6.77x3.46x3.11)	MK205	197x88x79 (7.75x3.46x3.11)	MK254GAN	219x88x87 (8.62x3.46x3.43)	MK280GAN	245x88x100 (9.65x3.46x3.43)
Model No./Series	Dimensions AxBxC mm (inch)																									
MK838	75x59x35 (2.95x2.32x1.81)																									
MK938	85x59x39 (3.35x2.32x1.81)																									
MK109	113x59x35 (4.45x2.32x0.90)																									
MK150 (MS)	145x74.5x38 (5.51x2.93x1.20)																									
MK172E	140x74.5x56 (5.51x2.93x1.59)																									
MK180F	160x73x80 (6.30x2.87x1.93)																									
MK200RAN	172x88x79 (6.77x3.46x3.11)																									
MK205	197x88x79 (7.75x3.46x3.11)																									
MK254GAN	219x88x87 (8.62x3.46x3.43)																									
MK280GAN	245x88x100 (9.65x3.46x3.43)																									

DC Plastic Skeleton Fan (IP68,IP69K)



Sinwan Model Series	Impeller Size (Ax B) mm	Airflow Range CFM	m3/min	Maix. Static Inch/H2O	Air Pressure mm/H2O
SDK6025 -Plastic Impeller	Dia.56x25	38~12	1.1~0.34	0.22~0.09	5.6~2.3
SDK8025 -Plastic Impeller	Dia.72x25	48~22	1.36~0.62	0.23~0.10	5.8~2.5
SDK9225 -Plastic Impeller	Dia.82x25	57~25	1.6~0.71	0.24~0.15	6.1~3.8
SDK1225 -Plastic Impeller	Dia.108x30.5	86~45	2.44~1.27	0.24~0.13	6.1~3.3
SDK1238 -Plastic Impeller	Dia.108x36	105~65	2.83~1.84	0.28~0.15	7.1~3.8
SDK180 -Plastic Impeller	Dia.163x66	405~240	11.5~6.80	0.71~0.22	18.8~5.6
SDK254 -Plastic Impeller	Dia.215x68	830~340	23.5~9.63	0.78~0.23	19.8~5.8

Specification

- Motor: Microprocessor cpu control or standard brushless DC, auto cutoff/restart, locking & polarity protected
- Optional Functions: R/D Alarm, F/G Tachometer, Speed control NTC thermistor, PWM or control voltage speed setting
- Motor Case: Aluminum die cast, natural color treatment or black color cosmetics
- Impeller: Glass fiber reinforced PBT thermoplastic, UL94V-0 impeller
- Bearing System: Two high precision permanently lubricated ball bearings
- Operating Temp: Ambient non-condensing acceptable range 30C~+70C
- L10 Life: MTBF Formula L10 indoor life test 120K hours at 35C, 40K hours at 60C
- Dielectric Strength: 500VAC/sec., Max leakage 0.5mA

Sinwan EC Fan



80x80x25mm



120x120x25mm



171x151x51.5mm



206x206x72.5mm

EC Plastic Fan

Dustproof & Waterproof IP55, IP56, IP68 Optional request

Frame Size (mm)	Sinwan Model No.	Voltage (VAC)	Input Power (Watt)	Referenced Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (Inch/H ₂ O)	Noise Level db(A)
280x280x90	SE280GAP-22-HH**	220	110/110	2500	1150	0.81	69
Dia.254x89	SE254AP-22-HH**(H)	220	40/50(65)	2800	830	0.98	70
206x206x72.5	SE205AP-22-HH**	220	60/75(66)	3250	630	1.1	65
202x202x60.5	SE200AP-22-HH**	220	45/55(53)	3000	500	1.1	63
171x151x51.5	SE1725AP-22-HH**	220	26/35(56)	5000	360	1.62	68
171x151x51.5	SE1725AP-FR-H** (MS)	110/220	18/16(12.5)	3000	220	0.8	55
120x120x38	SE1238PT-FR-H**	110/220	10/8(6.5)	3000	133.8	0.42	47
120x120x25	SE1225PT-FR-H**	110/220	8/6(2.8)	3000	80	0.22	49
92x92x38	SE938PT-FR-HH**	110/220	11/9(7.9)	4200	85	0.51	52
92x92x38	SE938PT-FR-HH**	110/220	7/5(2.2)	3000	60	0.28	43
92x92x32	SE932PT-FR-H**	110/220	8/6(2.1)	3000	58	0.24	44
92x92x25	SE925PT-FR-H**	110/220	8/6(4)	2600	56	0.16	36
80x80x38	SE838PT-FR-HH**	110/220	11/9(6.3)	4500	60	0.49	50
80x80x25	SE825PT-FR-H**	110/220	6/4(2.2)	3000	42	0.21	38

** = "WB" for wire lead type Ball bearing, or "TB" for terminal type Ball bearing.

EC Centrifugal Fan



Dia.400x201.5mm
Max.1645 CFM
MFE400WAN



Dia.355x195mm
Max.2120 CFM
MFE355WAN



Dia.310x189mm
Max.1700 CFM
MFE310VAN (189)



Dia.280x131mm
Max.810 CFM
MFE280KAN



Dia.250x131mm
Max.660 CFM
SFE250KAN



Dia.225x125mm
Max.590 CFM
SFE225KAN



Dia.220x97mm
Max.340 CFM
SFE220HAN



Dia.190x95mm
Max.360 CFM
SFE190HAN

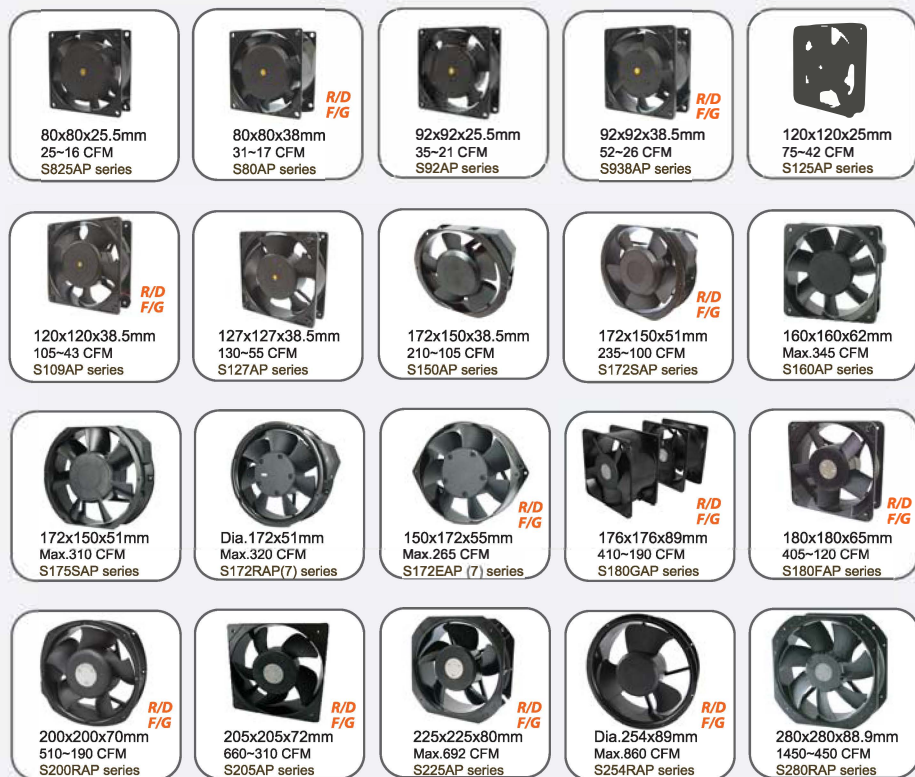


Dia.175x96.5mm
Max.350 CFM
SFE175HAN



Dia.133x110mm
Max.180 CFM
SFE133JAN

AC Plastic Fan



AC Centrifugal Fan

AC Centrifugal Fans Sizes : Ø133~355mm

Max Airflow : 165~1,300CFM



PFA13RAN series



PFA17RAN series



PFA225JAN series



MFA355KAN series

DC Metal Fan (IP55,IP56,IP68)

Dustproof & Waterproof Fan Series

Frame Size (mm)	Sinwan Model Series	Voltage (VDC)	Referenced Max. Speed (RPM)	Max. Airflow (CFM)	Max. Static Pressure (inch/H ₂ O)	Noise Level db(A)
280x280x88.9	MD280GAN -Metal Impeller	12V,24V,48V	Max.2550 RPM	Max.1200 CFM	0.90~0.51	72~48
Dia.254x88.9	MD254GAN -Metal Impeller	12V,24V,48V	Max.3000 RPM	Max.980 CFM	1.1~0.42	72~40
Dia.254x88.9	MD254AP -Metal Impeller	12V,24V,48V	Max.3000 RPM	Max.820 CFM	0.59~0.25	66~36
225x225x80	MD200AN -Metal Impeller	12V,24V,48V	Max.3900 RPM	Max.815 CFM	1.15~0.58	68~41
200x200x70	MD200 RAP -Metal Impeller	12V,24V,48V	Max.3900 RPM	Max.510 CFM	1.25~0.65	68~43
180x180x65	MD180FAP -Metal Impeller	12V,24V,48V	Max.3800 RPM	Max.480 CFM	0.88~0.38	66~38
172x150x55	MD175EAP -Metal Impeller	12V,24V,48V	Max.4400 RPM	Max.335 CFM	1.15~0.49	66~37
Dia.172x51	MD175 RAP -Metal Impeller	12V,24V,48V	Max.4350 RPM	Max.325 CFM	1.25~0.56	66~36
172x150x51	MD1755AP -Metal Impeller	12V,24V,48V	Max.4350 RPM	Max.325 CFM	1.25~0.58	66~37
172x150x38.5	MD173AP -Metal Impeller	12V,24V,48V	Max.4300 RPM	Max.270 CFM	1.03~0.5	64~39
120x120x38	MD1238AP -Metal Impeller	05V,12V,24V,48V	Max.3800 RPM	Max.140 CFM	0.45~0.35	47~35

Speciafication

Motor: Microprocessor brushless DC Motor, auto cutoff, auto restart

Motor Protection: Electronically protected, polarity protected

Frame: Aluminum die-cast, black color or natural color

Impeller: Metal blades

IP Protection: IP55, IP56, IP68 optional request

Bearing: Two ball bearings

Rotation: CW or CCW view from label side

Operating Temp: -20°C~+65°C (non-condensing)

Storage Temp: -40°C~+80°C (at 65%RH)

Life Expectancy: L10 50K hours at 50°C



172x150x51mm



280x280x89mm

DC Centrifugal Fan

DC Centrifugal Fans Sizes : Ø133~250mm

Max Airflow : 257~920CFM



PFD133RAN series



PFD175RAN series



PFD225HAN series



PFD250JAN series

Motor Functions : Tacho F/G, Alarm R/D.

Speed control : Thermal NTC-S/C, PWM, External voltage control speed- S/V.

DC Plastic Fan



25x25x10mm
2.8~1.5 CFM
SD2510PT series



30x30x10mm
5.1~2.5 CFM
SD3010PT series



40x40x10mm
5~2.5 CFM
SD4010PT series



40x40x20mm
9.7~4.8 CFM
SD4020PT series



50x50x9mm
12~8 CFM
SD5009PT series



50x50x12mm
14~7 CFM
SD5012PT series



50x50x15mm
15~11 CFM
SD5015PT series



60x60x11mm
15~10 CFM
SD6010PT series



60x60x15mm
26~14 CFM
SD6015PT series



60x60x20mm
23~10 CFM
SD6020PT series



IP68
IP69K

60x60x25mm
38~12 CFM
SD6025PT series



80x80x15mm
39~28 CFM
SD8015PT series



80x80x20mm
40~27 CFM
SD8020PT series



IP68
IP69K

80x80x25mm
64~22 CFM
SD8025PT series



IP68
IP69K

92x92x25mm
66~25 CFM
SD9225PT series



92x92x38.5mm
75~58 CFM
SD933AN series



120x120x25mm
86~45 CFM
SD1225PT series



IP68
IP69K

120x120x25mm
120~70 CFM
SD1225PT (MS) series



120x120x32mm
112~62 CFM
SD1232AN series



IP68
IP69K

120x120x38mm
180~103 CFM
SD1238PT (MS) series



120x120x38.5mm
135~70 CFM
SD1238AP(7) series



127x127x38.5mm
145~86 CFM
SD127AN series



172x150x38.5mm
255~280 CFM
SD173AP series



IP68
IP69K

172x150x51mm
320~125 CFM
SD175SAP series



Dia.172x51mm
320~130 CFM
SD175RAP series



150x172x55mm
300~150 CFM
SD175EAP series



IP68

180x180x65mm
500~215 CFM
SD180FAP series



200x200x70mm
505~280 CFM
SD200RAP series



IP68

Dia.254x88.9mm
850~350 CFM
SD254AP series



280x280x88.9mm
1200~780 CFM
SD280GAN series

AC & DC & EC & 3P Fan Motors / Ventilator

SINWAN OEM/ODM/OBM Manufacturing, Engineering & Marketing Services

AC & Brushless DC Motors 馬達

Input available 3~600Watts



Skeleton Axial Fans 無框扇

Dia.2.4~12" / 60~305mm

Airflow 20~1,500CFM / 0.6~42 M³/Min.



Ribbing Axial Fans 網架扇

Dia.3~12" / 80~305mm

Airflow 30~1,500CFM / 0.8~43 M³/Min.



Box Axial Fans 軸流扇

Dia.1~13" / 20~335mm

Airflow 3~1,450CFM / 0.1~41 M³/Min.



Blowers & Cross Fans 鼓風機 & 橫流扇

Blowers Sizes : 2.5~13" / 60~330mm

Airflow 6~380CFM / 0.17~10.8 M³/Min.



Cross Fans Sizes : Fan blades ϕ 1.2~3.5" / ϕ 30~90mm

Airflow available : 7~730CFM / 0.2~21 M³/Min.



Fan Accessories

Metal Fan Guards 鐵網 Sizes : 1~11" / 25~280mm

Steel wires, electroplated finish cosmetics, nickel chrome plated, bright color.
Black color electro deposit available on request.
Welding joints strength to meet UL Standards minimum 100kgs (220 lbs) separation force.
Patterned push-on type wire form metal guards are available on request.
Customer's design is acceptable & welcome!



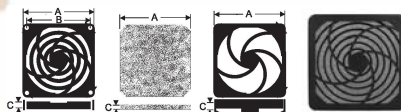
Plastic Fan Guards 塑膠網 Sizes : 1.57~6" / 40~172mm

Glass fiber reinforced ABS UL94V-0 for thru hole types (GxxxP & GxxxP4 series)
Reinforced thermoplastic Nylon UL94-HB for push-on types (GxxxP2 series)
Quality and safety guards full range from 25-300mm (1-11 inch).
Customers' designs and special specifications are welcome!



Plastic Filter Kits 塑膠濾網 Sizes : 1.57~6" / 40~172mm

Guard
Retainer
Media 30 or 45 PPI
Guard + Retainer + Media 30 PPI
Guard + Retainer + Media 45 PPI



Metal Fan Screens 金屬濾網 Sizes : 2.36~6" / 60~172mm

General Description

- Tightly woven steel corrugated mesh screen encased in a formed aluminum frame (*Woven aluminum corrugated mesh screen on request)
- Screen hole mesh 30 PPI normally
- Built for ruggedness and durability, cleanable and easy for service
- Decreasing noise level while creating low air restriction
- To provide maximum airflow with effective filtering
- Different finishes are available for cosmetic purposes



Ventilator Filter Kits 風機濾網組 For Fan Sizes : 3.1~11" / 80~280mm

RFG (Retainer+Filter+Grille=Prown RFG)

Specifications:

- Grille & Retainer (G & R): Made of thermoplastic ABS resin, rated UL94V-0, UV resistance.
- Filter Media (F): Made of polyester fiber. Thickness 10mm.



A Type (hinged type)



B Type (slide type)

