散熱風扇
事業部

產品型錄

RST 汎武事業股份有限公司
RST ENTERPRISE CO., LTD.

ABOUT RST

1
GOAL

30多年來致力於工業/商辦/住宅的能源用電及安全節能之整體解決方案，提供客戶一次購足、全國營運、在地服務的完整售後服務。

2
PRODUCT

#國際知名品牌代理銷售
#電力配電系統 整體解決方案
#自動化工業控制系統/整體解決方案
#能源管理/機電整合/廠區自動監控系統整合客製化
#全方位散熱解決方案
#商辦及居家之空氣品質改善方案
#全球跨國貿易服務 採購策略夥伴商品

3
SERVICE

-規劃設計
-專業技術支援
-安裝前適用性建議
-具競爭力的報價
-在地的售後服務
-國際貿易服務
-備品完整服務

信賴 Reliability 服務 Service 技術 Technique 的保證

RST HISTORY

2019 榮獲 中華民國第42屆創業楷模暨相扶獎
榮獲 高雄典範企業領航獎

2018 榮獲 經濟部 第21屆小巨人獎
成立「瑞侃事業部」及
「消費性商品事業部」

2017 遷入建坪3000坪高雄新廠
將營運、工廠、倉庫合而為一

2016
總代理Airvida穿戴式
空氣清淨機
跨足消費電子產品

2015 榮獲阿里巴巴
台灣網商冠軍

2014
成立社團法人
高雄市汎武吉祥連心會

2012
成立系統整合事業部
及綠築智能事業部
設立昆山大武吉電機
成為SUNON中國經銷商

2011 成立富強電機 成為401配電盤原製造廠家

2009
與西班牙RTR及歐洲ETI
簽訂台灣區總代理

2006
成立台南營業所

2005
遷入建坪720坪新辦公大樓
與永彰電機HITACHI
簽訂經銷合約

2004
與ABB簽訂經銷合約

2003
設立散熱風扇事業部
與建準電機SUNON
簽訂經銷合約

2002
與義大利
VEI POWER DISTRIBUTION
簽訂台灣區總代理

2000
與法商施耐德電機
簽訂經銷合約
(跨入工業控制領域)

1999
成立台中營業所

1998
與美商3M簽訂
電力產品
台灣區總經銷

1997
成立台北營業所

1994
與士林電機
3M簽訂經銷合約

1988
創立，將電力高壓器材的
銷售型態帶入嶄新的紀元

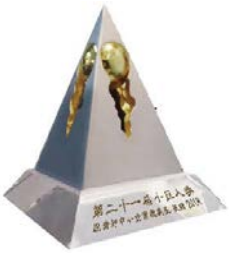
高雄鼓山區美術東五路66號
2005年遷入啟用
2017年再遷入建坪3000坪高雄新廠
將營運、工廠、倉庫合而為一

since
1988

RST HONOR

榮耀

2019 中華民國第42屆創業楷模暨相扶獎
2019 高雄典範企業領航獎
2019 台灣TOP 5000 批發零售業第74名
2018 經濟部 第21屆 小巨人獎
2018 第14屆中華民國年度十大企業金炬獎
2016 經理人雜誌 MVP經理人獎
2015 阿里巴巴 台灣網商冠軍



獲頒 經濟部
第21屆小巨人獎

榮獲 中華民國第42屆
創業楷模暨相扶獎

經濟部第21屆小巨人獎

中華民國第42屆創業楷模暨相扶獎

高雄典範企業領航獎

公益的汎武

Public elfare

汎武吉祥連心會
聖淵啟仁中心
南高雄家扶中心
真善美慈善饗宴
協力學甲鄉公所關懷弱勢
捐助燕巢區公所社會邊緣戶

散熱風扇事業部

產品型錄

www.rstpower.com.tw

RST

汎武事業股份有限公司

AC Axial Fan & Blower

www.rstpower.com.tw

RST

汎武事業股份有限公司

Table of Contents

Certification

* Note: For critical or extreme environments, including non stop operation, please contact SUNON and we will gladly provide assistance with your product selection to ensure an appropriate cooling product for your application.
* Note: The "Life Expectancy" of the fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Reports(L10 and MTTF Report) that relate to the fan are only for reference.

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汎武事業股份有限公司

ENGINEERING INFORMATION

Alveolate Motor AC fan series with automatic motor-wire wrapping technology ensures stable performance of high wind volume, low acoustic noise, also available with functions of dual spinning rate, and thermal cutout.

SUNON-Alveolate Motor VS. Traditional Shaded-pole Motor

SUNON-Alveolate Motor	Traditional Shaded-Pole Motor
1.The Alvolate Motor is equipped with starting stator coils and working ones. The starting coils form a low starting voltage with the capacitors. For example, an 115VAC (the fixed voltage) Alveolate Motor can be started with 60 VAC.	1.The Traditional Shaded-Pole Motor, designed with single-wire wrapping, is started by "the starting copper" and cannot be started with low voltage. An 115VAC Traditional Shaded-Pole motor will need more than 80VAC to run, 20VAC more than the Alveolate one.
2.The coils do not produce high temperature and consumes less electricity. The temperature is normally around 50℃. Therefore, the motor is always stable and reliable.	2.The Traditional Shaded-Pole Motor consumes electricity twice as much as the Alveolate Motor. It is not reliable because the temperature is usually higher than 70℃.
3.The Thermal Cutout can protect the motor.	3.The Thermal Cutout is an option.
4.The motor has a large torsion to produce high wind pressure and wind volume.	4.General wind pressure and wind volume.
5.The motor is equipped with the third wire, ready to comply with the customer's systems.	5.Without the third wire.

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■ AC Fan Model Numbering System

General AC Fan

Ex) **SF11580AT 1 08 2 H B L .GN**

MODEL SERIES
SFxxx
SPxxx
DPxxx

VOLTAGE
1 : 115 VAC
2 : 220 -240 VAC

FRAME SIZE
08 : 80 mm
09 : 92 mm
12 : 120 mm

FRAME THICKNESS
2 : 25 mm
3 : 38 mm

SPEED
X : Super
H : High
M : Middle
L : Low

BEARING SYSTEM
B : Ball
S : Sleeve

TERMINALS
T : Terminal
L : Lead wire

RoHS Compliance

New Type AC Fan

Ex) **A 1 17 5 — H B T**

MODEL SERIES
A : New AC fan series
AB : New AC blower series
MA : MagLev AC Fan series

VOLTAGE
1 : 115 VAC
2 : 220-240 VAC
3 : 380 VAC

FRAME SIZE
08 : 80 mm
09 : 92 mm
12 : 120 mm
17 : 172 mm
25 : 254 mm

FRAME THICKNESS
2 : 25 mm
3 : 31~38mm
5 : 50~51 mm
7 : 72 mm
9 : 89~90mm

SPEED
X : Super
H : High
M : Middle
L : Low

BEARING SYSTEM
V: MagLev
S : Sleeve
B : Ball

TERMINALS
T : Terminal
L : Lead wire

P/N

P/N Suffixes have the following significance :

T	: Thermal Cutout
TC	: Alveolate Motor with Thermal Cutout and Capacitor
TC.R	: Round Frame , Alveolate Motor with Thermal Cutout and Capacitor
N	: New frame
GN	: RoHS compliance

* Alveolate Motor only available in P/N : TC model

RST

汎武事業股份有限公司

80x80x25 mm

17~22 CFM

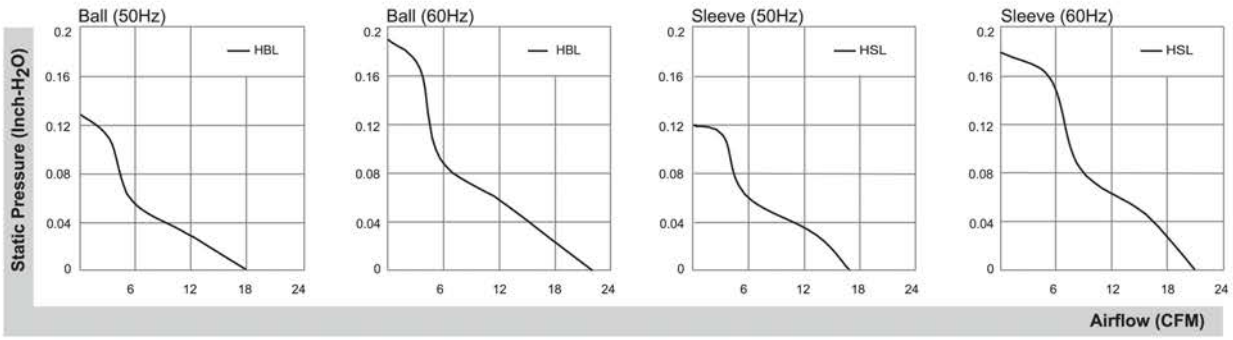
Specifications

Model	P/N	Bearing ● VAPO ○ BALL ⊙ Sleeve	Rating Voltage (VAC)	Freq. (Hz)	Power Current (AMP)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (Inch-H_2O)	Noise (dB(A))	Weight (g)
SF11580AT	1082HSL.GN	⊙	115	50/60	0.12/0.10	12/11	2300/2750	17/21	0.12/0.18	29/33	260
SF11580AT	1082HBL.GN	○	115	50/60	0.12/0.10	12/11	2450/2900	18/22	0.13/0.19	30/34.5	260
SF23080AT	2082HSL.GN	⊙	220-240	50/60	0.07/0.07	14/13.5	2300/2750	17/21	0.12/0.18	29/33	260
SF23080AT	2082HBL.GN	○	220-240	50/60	0.07/0.07	14/13.5	2450/2900	18/22	0.13/0.19	30/34.5	260

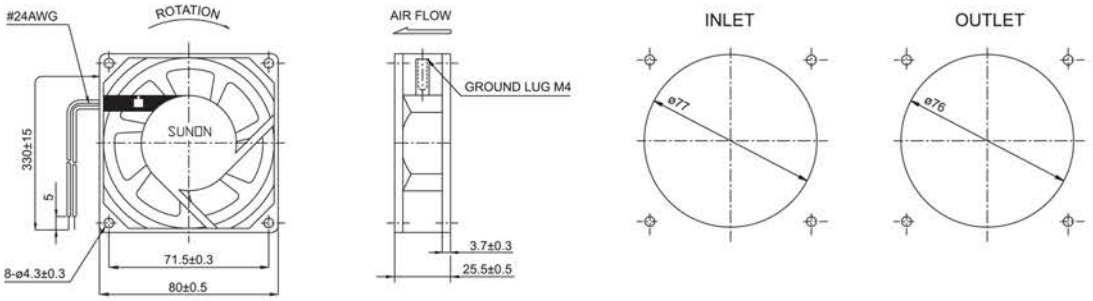
Frame : Aluminum alloy

Safety : UL-CUL/TUV NORD/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



*All model could be customized. Please contact with Sunon Sales.

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RST

汎武事業股份有限公司

80x80x38 mm

23~31 CFM

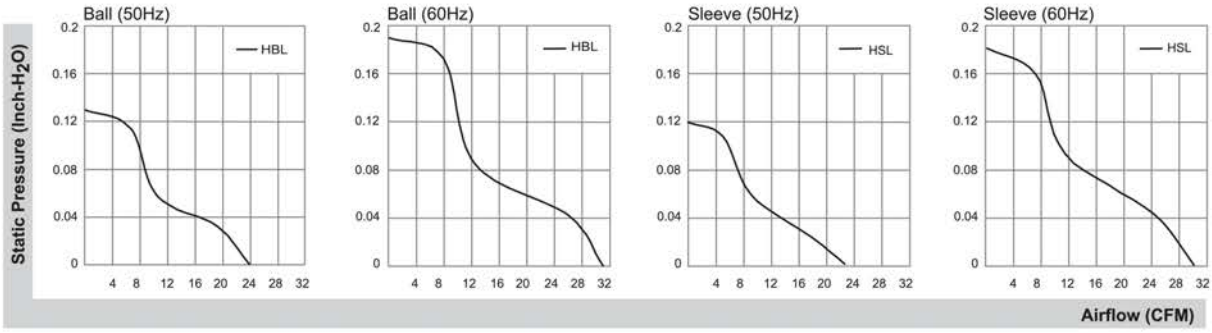
Specifications

Model	P/N	Bearing (● VAPO ○ BALL ◉ Sleeve)	Rating Voltage (VAC)	Freq. (Hz)	Power Current (AMP)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (Inch-H_2O)	Noise (dB(A))	Weight (g)
SF11580A	1083HSL.GN	◉	115	50/60	0.15/0.13	14/12	2300/2750	23/30	0.12/0.18	31/35	340
SF11580A	1083HBL.GN	○	115	50/60	0.15/0.13	14/12	2400/2850	24/31	0.13/0.19	32/36.5	340
SF23080A	2083HSL.GN	◉	220-240	50/60	0.09/0.08	18/16	2300/2750	23/30	0.12/0.18	31/35	340
SF23080A	2083HBL.GN	○	220-240	50/60	0.09/0.08	18/16	2400/2850	24/31	0.13/0.19	32/36.5	340

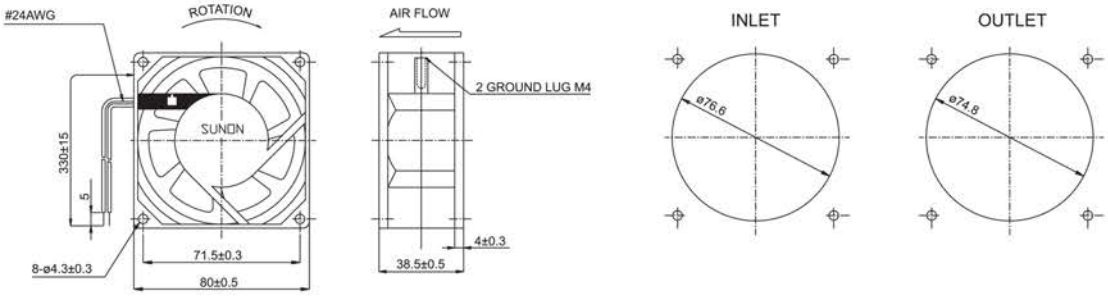
Frame : Aluminum alloy

Safety : UL-CUL/TUV NORD/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

92x92x25 mm

21~37 CFM

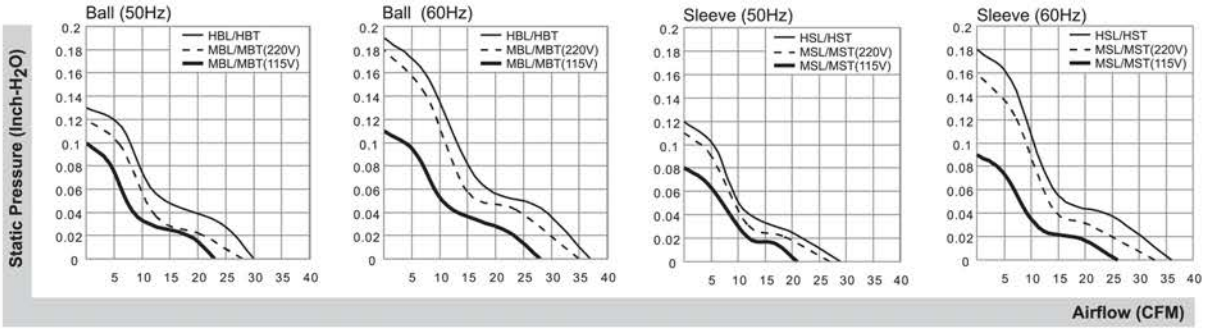
Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ⊙ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
SF11592A	1092HSL.GN	⊙	115	50/60	0.12/0.11	13/12	2250/2750	29/36	0.12/0.18	36/39	280
SF11592A	1092HST.GN	⊙	115	50/60	0.12/0.11	13/12	2250/2750	29/36	0.12/0.18	36/39	280
SF11592A	1092MSL.GN	⊙	115	50/60	0.06/0.06	7/6	1550/1700	21/26	0.08/0.09	28/30	280
SF11592A	1092MST.GN	⊙	115	50/60	0.06/0.06	7/6	1550/1700	21/26	0.08/0.09	28/30	280
SF11592A	1092HBL.GN	○	115	50/60	0.12/0.11	13/12	2350/2850	30/37	0.13/0.19	37/40	280
SF11592A	1092HBT.GN	○	115	50/60	0.12/0.11	13/12	2350/2850	30/37	0.13/0.19	37/40	280
SF11592A	1092MBL.GN	○	115	50/60	0.07/0.06	7/6	1800/2100	23/28	0.10/0.11	31/33	280
SF11592A	1092MBT.GN	○	115	50/60	0.07/0.06	7/6	1800/2100	23/28	0.10/0.11	31/33	280
SF23092A	2092HSL.GN	⊙	220-240	50/60	0.07/0.06	14.5/14	2250/2750	29/36	0.12/0.18	36/39	280
SF23092A	2092HST.GN	⊙	220-240	50/60	0.07/0.06	14.5/14	2250/2750	29/36	0.12/0.18	36/39	280
SF23092A	2092MSL.GN	⊙	220-240	50/60	0.07/0.07	15/14	2000/2500	27/33	0.11/0.16	32/37	280
SF23092A	2092MST.GN	⊙	220-240	50/60	0.07/0.07	15/14	2000/2500	27/33	0.11/0.16	32/37	280
SF23092A	2092HBL.GN	○	220-240	50/60	0.07/0.06	14.5/14	2350/2850	30/37	0.13/0.19	37/40	280
SF23092A	2092HBT.GN	○	220-240	50/60	0.07/0.06	14.5/14	2350/2850	30/37	0.13/0.19	37/40	280
SF23092A	2092MBL.GN	○	220-240	50/60	0.07/0.07	15/14	2200/2700	28/35	0.12/0.18	35/38	280
SF23092A	2092MBT.GN	○	220-240	50/60	0.07/0.07	15/14	2200/2700	28/35	0.12/0.18	35/38	280

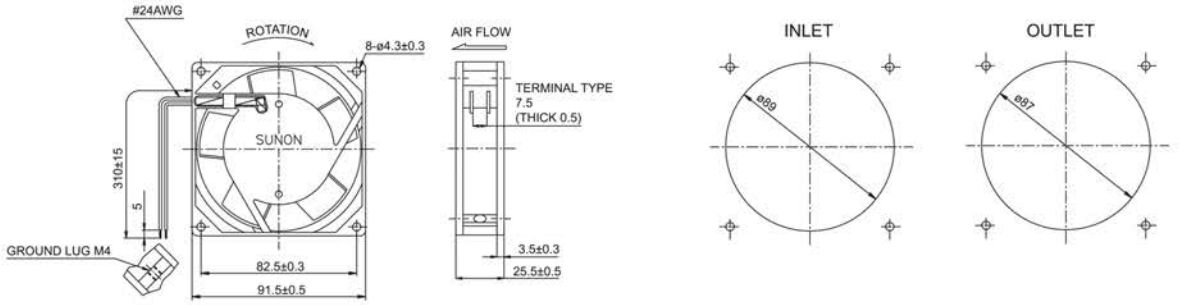
Frame : Aluminum alloy

Safety : UL-CUL/TUV NORD/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x25 mm

46~80 CFM

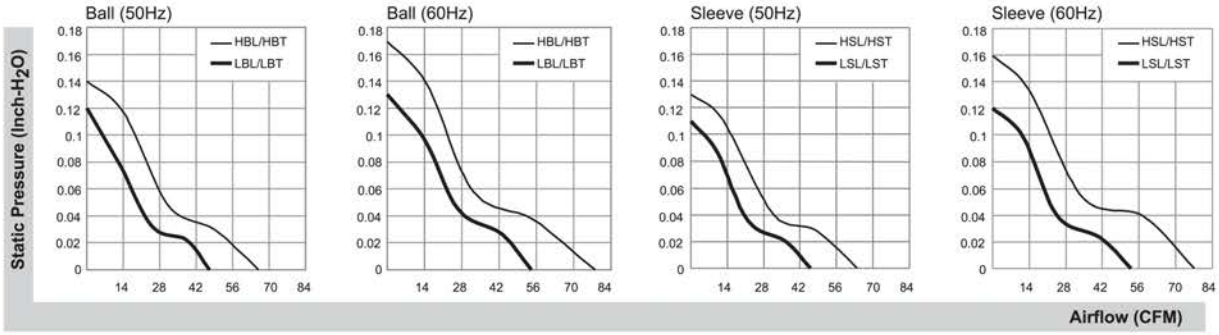
Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
SP101AT	1122HSL.GN	◉	115	50/60	0.21/0.19	19/18	2000/2300	64/78	0.13/0.16	43/46	330
SP101AT	1122HST.GN	◉	115	50/60	0.21/0.19	19/18	2000/2300	64/78	0.13/0.16	43/46	330
SP103AT	1122LSL.GN	◉	115	50/60	0.14/0.13	14/13	1600/1800	46/53	0.11/0.12	35/38	330
SP103AT	1122LST.GN	◉	115	50/60	0.14/0.13	14/13	1600/1800	46/53	0.11/0.12	35/38	330
SP101AT	1122HBL.GN	○	115	50/60	0.21/0.19	19/18	2150/2500	66/80	0.14/0.17	44/48	330
SP101AT	1122HBT.GN	○	115	50/60	0.21/0.19	19/18	2150/2500	66/80	0.14/0.17	44/48	330
SP103AT	1122LBL.GN	○	115	50/60	0.12/0.11	12.5/11.5	1700/1900	47/54	0.12/0.13	37/40	330
SP103AT	1122LBT.GN	○	115	50/60	0.12/0.11	12.5/11.5	1700/1900	47/54	0.12/0.13	37/40	330

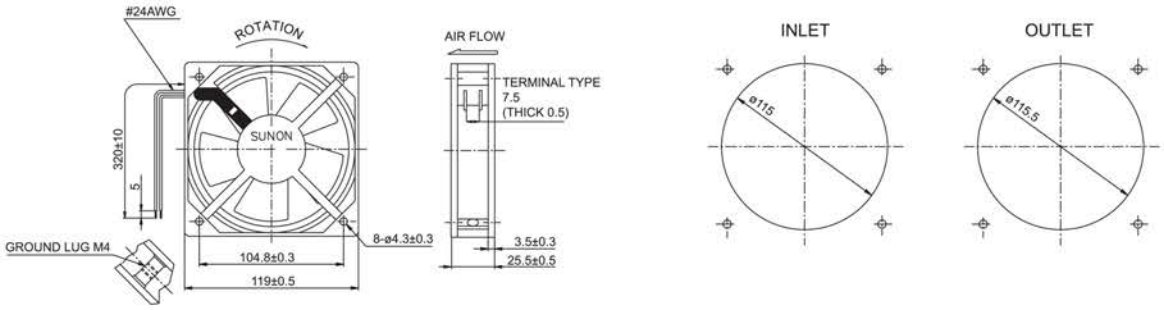
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x25 mm

46~80 CFM

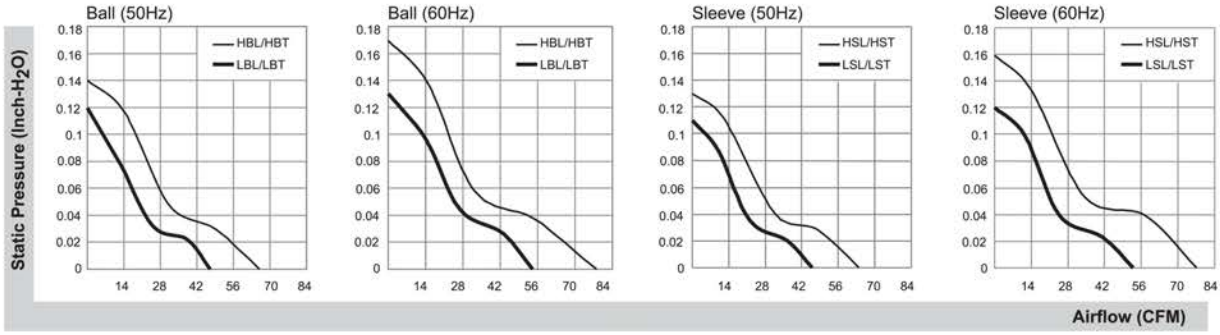
Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ⊙ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
DP201AT	2122HSL.GN	◉	220/240	50/60	0.09/0.09	19/19	2000/2300	64/78	0.13/0.16	43/46	295
DP201AT	2122HST.GN	◉	220/240	50/60	0.09/0.09	19/19	2000/2300	64/78	0.13/0.16	43/46	295
DP203AT	2122LSL.GN	◉	220/240	50/60	0.07/0.07	14/13	1600/1800	46/53	0.11/0.12	35/38	330
DP203AT	2122LST.GN	◉	220/240	50/60	0.07/0.07	14/13	1600/1800	46/53	0.11/0.12	35/38	330
DP201AT	2122HBL.GN	○	220/240	50/60	0.09/0.09	19/19	2150/2500	66/80	0.14/0.17	44/48	295
DP201AT	2122HBT.GN	○	220/240	50/60	0.09/0.09	19/19	2150/2500	66/80	0.14/0.17	44/48	295
DP203AT	2122LBL.GN	○	220/240	50/60	0.07/0.07	14/13	1700/1900	47/54	0.12/0.13	37/40	330
DP203AT	2122LBT.GN	○	220/240	50/60	0.07/0.07	14/13	1700/1900	47/54	0.12/0.13	37/40	330

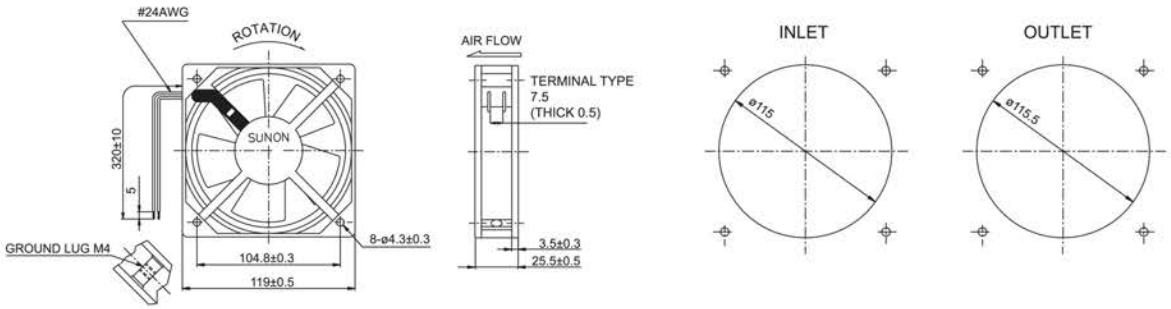
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x38 mm

70~117 CFM

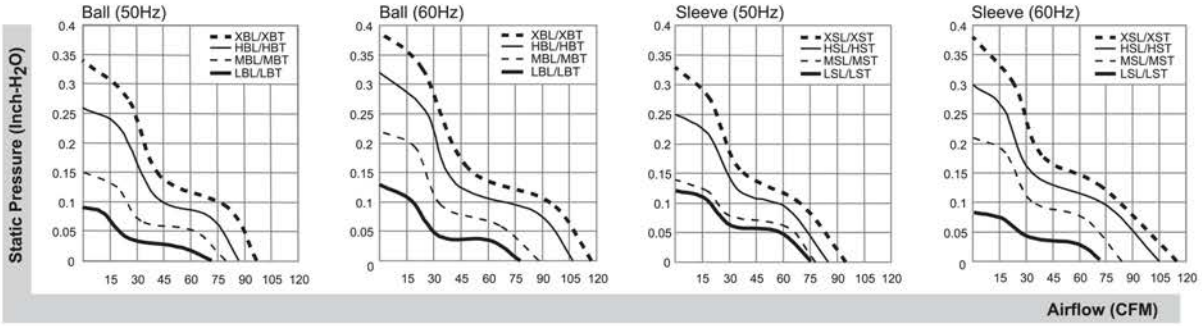
Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ⊙ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
SP100A	1123XSL.GN	⊙	115	50/60	0.26/0.24	22/20	2700/3100	95/115	0.33/0.38	44/49	550
SP100A	1123XST.GN	⊙	115	50/60	0.26/0.24	22/20	2700/3100	95/115	0.33/0.38	44/49	550
SP101A	1123HSL.GN	⊙	115	50/60	0.21/0.18	20/18	2550/2900	85/105	0.25/0.30	43/48	550
SP101A	1123HST.GN	⊙	115	50/60	0.21/0.18	20/18	2550/2900	85/105	0.25/0.30	43/48	550
SP102A	1123MSL.GN	⊙	115	50/60	0.17/0.16	15/15	2400/2600	78/84	0.14/0.21	33/38	550
SP102A	1123MST.GN	⊙	115	50/60	0.17/0.16	15/15	2400/2600	78/84	0.14/0.21	33/38	550
SP103A	1123LSL.GN	⊙	115	50/60	0.13/0.11	11/11	2200/2000	76/70	0.12/0.08	38/36	550
SP103A	1123LST.GN	⊙	115	50/60	0.13/0.11	11/11	2200/2000	76/70	0.12/0.08	38/36	550
SP100A	1123XBL.GN	○	115	50/60	0.26/0.24	22/20	2850/3150	97/117	0.34/0.39	45/50	550
SP100A	1123XBT.GN	○	115	50/60	0.26/0.24	22/20	2850/3150	97/117	0.34/0.39	45/50	550
SP101A	1123HBL.GN	○	115	50/60	0.21/0.18	20/18	2750/3050	87/107	0.26/0.32	45/50	550
SP101A	1123HBT.GN	○	115	50/60	0.21/0.18	20/18	2750/3050	87/107	0.26/0.32	45/50	550
SP102A	1123MBL.GN	○	115	50/60	0.17/0.16	16/15	2500/2700	80/88	0.15/0.22	35/40	550
SP102A	1123MBT.GN	○	115	50/60	0.17/0.16	16/15	2500/2700	80/88	0.15/0.22	35/40	550
SP103A	1123LBL.GN	○	115	50/60	0.13/0.11	11/11	2150/2300	72/78	0.09/0.13	37/39	550
SP103A	1123LBT.GN	○	115	50/60	0.13/0.11	11/11	2150/2300	72/78	0.09/0.13	37/39	550

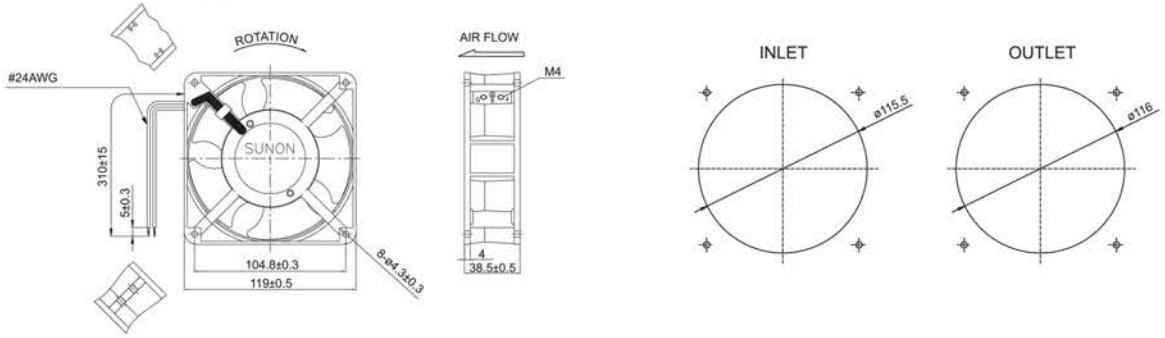
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x38 mm

70~117 CFM

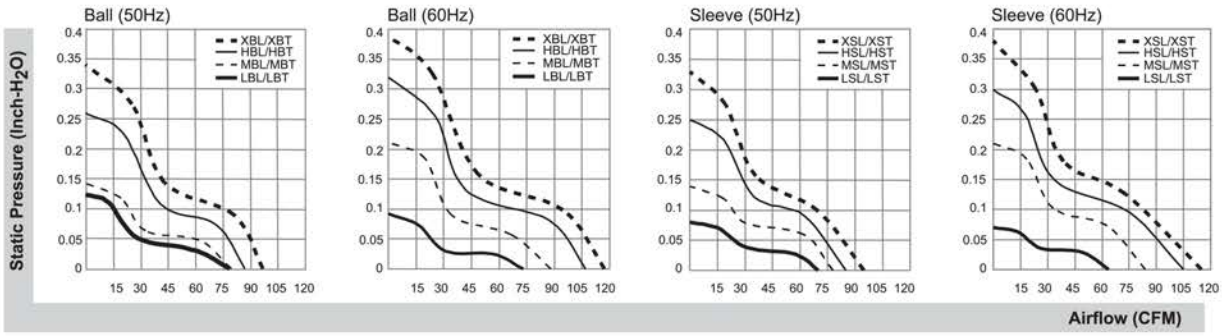
Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ⊙ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
DP200A	2123XSL.GN	⊙	220-240	50/60	0.14/0.12	22/21	2700/3100	95/115	0.33/0.38	44/49	550
DP200A	2123XST.GN	⊙	220-240	50/60	0.14/0.12	22/21	2700/3100	95/115	0.33/0.38	44/49	550
DP201A	2123HSL.GN	⊙	220-240	50/60	0.125/0.11	20/19	2550/2900	85/105	0.25/0.30	43/48	550
DP201A	2123HST.GN	⊙	220-240	50/60	0.125/0.11	20/19	2550/2900	85/105	0.25/0.30	43/48	550
DP202A	2123MSL.GN	⊙	220-240	50/60	0.09/0.08	16/15	2300/2500	78/84	0.14/0.21	33/38	550
DP202A	2123MST.GN	⊙	220-240	50/60	0.09/0.08	16/15	2300/2500	78/84	0.14/0.21	33/38	550
DP203A	2123LSL.GN	⊙	220-240	50/60	0.06/0.05	11/10	2000/1800	70/63	0.08/0.07	36/32	550
DP203A	2123LST.GN	⊙	220-240	50/60	0.06/0.05	11/10	2000/1800	70/63	0.08/0.07	36/32	550
DP200A	2123XBL.GN	○	220-240	50/60	0.14/0.12	22/21	2850/3150	97/117	0.34/0.39	45/50	550
DP200A	2123XBT.GN	○	220-240	50/60	0.14/0.12	22/21	2850/3150	97/117	0.34/0.39	45/50	550
DP201A	2123HBL.GN	○	220-240	50/60	0.125/0.11	20/19	2750/3050	87/107	0.26/0.32	45/50	550
DP201A	2123HBT.GN	○	220-240	50/60	0.125/0.11	20/19	2750/3050	87/107	0.26/0.32	45/50	550
DP202A	2123MBL.GN	○	220-240	50/60	0.09/0.08	16/15	2400/2600	78/84	0.14/0.21	34/39	550
DP202A	2123MBT.GN	○	220-240	50/60	0.09/0.08	16/15	2400/2600	78/84	0.14/0.21	34/39	550
DP203A	2123LBL.GN	○	220-240	50/60	0.05/0.06	10/10	2300/2150	78/72	0.13/0.09	39/37	550
DP203A	2123LBT.GN	○	220-240	50/60	0.05/0.06	10/10	2300/2150	78/72	0.13/0.09	39/37	550

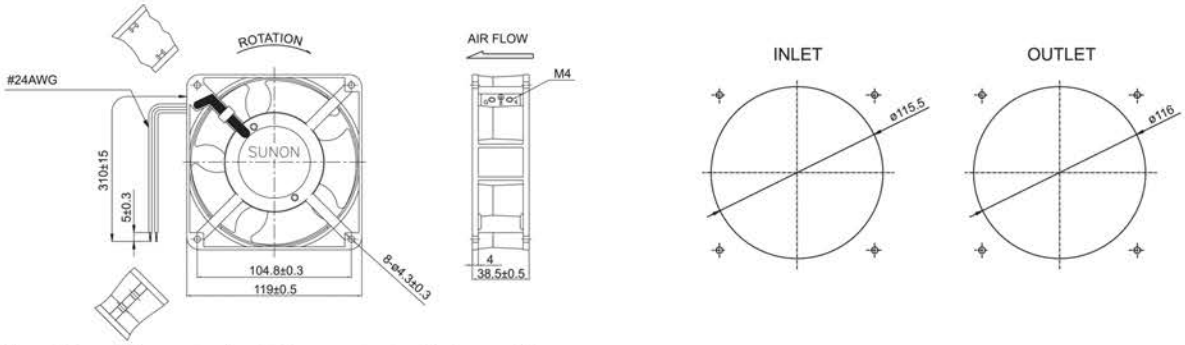
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x38 mm

Low Power Consumption

54~85 CFM

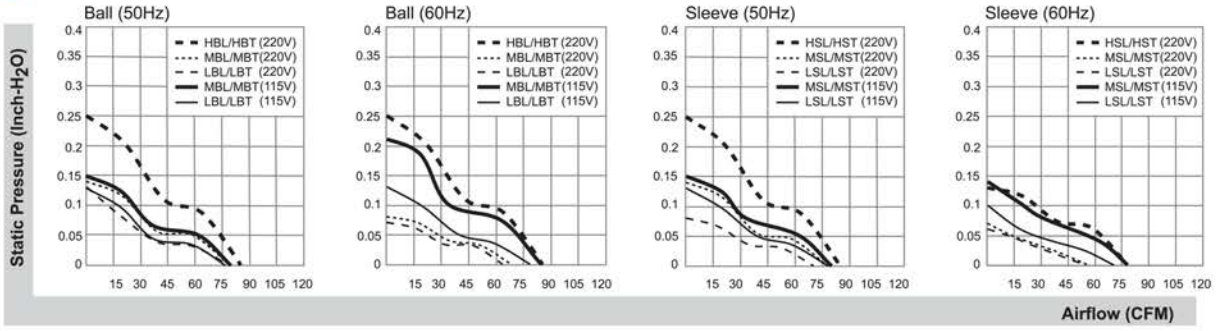
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
SP102A	1123MSL.S.GN	◉	115	50/60	0.150/0.140	12.2/11.6	2500/2400	80/78	0.15/0.14	42/41	460
SP102A	1123MST.S.GN	◉	115	50/60	0.150/0.140	12.2/11.6	2500/2400	80/78	0.15/0.14	42/41	460
SP103A	1123LSL.S.GN	◉	115	50/60	0.140/0.125	11.8/10.9	2250/2100	76/70	0.12/0.10	39/37	460
SP103A	1123LST.S.GN	◉	115	50/60	0.140/0.125	11.8/10.9	2250/2100	76/70	0.12/0.10	39/37	460
SP102A	1123MBL.S.GN	○	115	50/60	0.150/0.140	12.2/12.0	2500/2600	80/84	0.15/0.21	43/43	460
SP102A	1123MBT.S.GN	○	115	50/60	0.150/0.140	12.2/12.0	2500/2600	80/84	0.15/0.21	43/43	460
SP103A	1123LBL.S.GN	○	115	50/60	0.136/0.122	11.5/10.6	2300/2350	77/78	0.13/0.13	39/39	460
SP103A	1123LBT.S.GN	○	115	50/60	0.136/0.122	11.5/10.6	2300/2350	77/78	0.13/0.13	39/39	460
DP201A	2123HSL.S.GN	◉	220-240	50/60	0.069/0.070	10.8/10.4	2550/2300	85/78	0.25/0.13	43/42	480
DP201A	2123HST.S.GN	◉	220-240	50/60	0.069/0.070	10.8/10.4	2550/2300	85/78	0.25/0.13	43/42	480
DP202A	2123MSL.S.GN	◉	220-240	50/60	0.057/0.055	9.9/9.8	2300/1550	78/56	0.13/0.07	41/31	480
DP202A	2123MST.S.GN	◉	220-240	50/60	0.057/0.055	9.9/9.8	2300/1550	78/56	0.13/0.07	41/31	480
DP203A	2123LSL.S.GN	◉	220-240	50/60	0.055/0.047	8.3/7.9	2000/1500	70/54	0.08/0.06	36/31	480
DP203A	2123LST.S.GN	◉	220-240	50/60	0.055/0.047	8.3/7.9	2000/1500	70/54	0.08/0.06	36/31	480
DP201A	2123HBL.S.GN	○	220-240	50/60	0.069/0.065	10.8/10.4	2550/2550	85/85	0.25/0.25	44/45	480
DP201A	2123HBT.S.GN	○	220-240	50/60	0.069/0.065	10.8/10.4	2550/2550	85/85	0.25/0.25	44/45	480
DP202A	2123MBL.S.GN	○	220-240	50/60	0.057/0.056	9.9/9.6	2400/1950	79/68	0.14/0.08	42/38	480
DP202A	2123MBT.S.GN	○	220-240	50/60	0.057/0.056	9.9/9.6	2400/1950	79/68	0.14/0.08	42/38	480
DP203A	2123LBL.S.GN	○	220-240	50/60	0.048/0.045	8.2/7.6	2300/1850	78/63	0.13/0.07	39/35	480
DP203A	2123LBT.S.GN	○	220-240	50/60	0.048/0.045	8.2/7.6	2300/1850	78/63	0.13/0.07	39/35	480

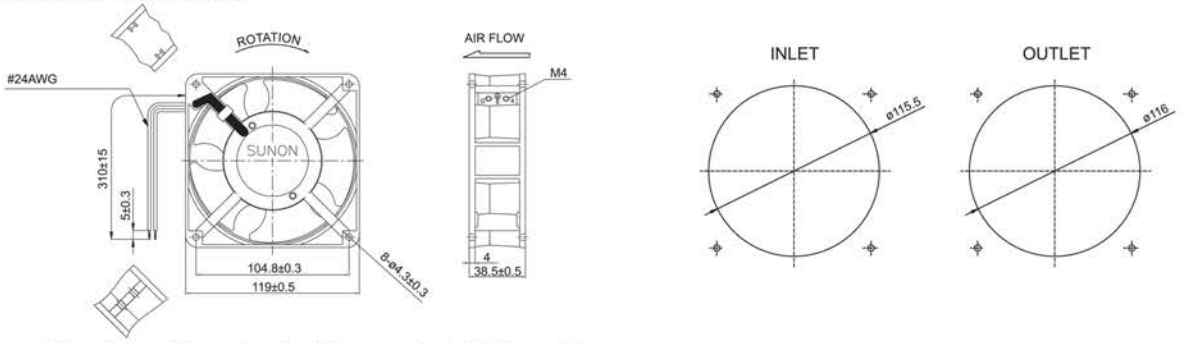
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x38 mm

85~100 CFM

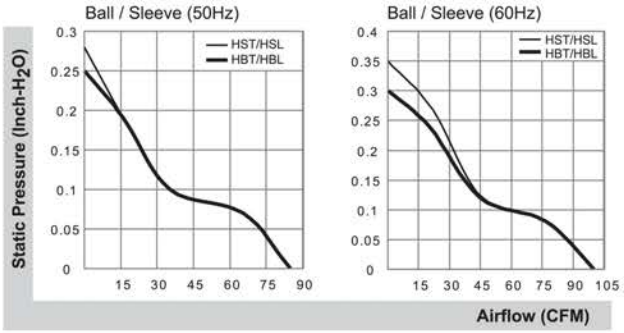
Specifications

Model	P/N	Bearing (● VAPO ○ BALL ◉ Sleeve)	Rating Voltage (VAC)	Freq. (Hz)	Power Current (AMP)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (inch-H_2O)	Noise (dB(A))	Weight (g)
SP109WR	1123HST.GN	◉	115	50/60	0.25/0.22	22/20	2500/2900	85/100	0.28/0.35	41/47	465
SP109WR	1123HSL.GN	◉	115	50/60	0.25/0.22	22/20	2500/2900	85/100	0.28/0.35	41/47	465
SP109WR	1123HBT.GN	○	115	50/60	0.25/0.22	22/20	2500/2900	85/100	0.25/0.30	42/48	465
SP109WR	1123HBL.GN	○	115	50/60	0.25/0.22	22/20	2500/2900	85/100	0.25/0.30	42/48	465
DP209WR	2123HST.GN	◉	220-240	50/60	0.13/0.12	22/21	2500/2900	85/100	0.28/0.35	41/47	465
DP209WR	2123HSL.GN	◉	220-240	50/60	0.13/0.12	22/21	2500/2900	85/100	0.28/0.35	41/47	465
DP209WR	2123HBT.GN	○	220-240	50/60	0.13/0.12	22/21	2500/2900	85/100	0.25/0.30	42/48	465
DP209WR	2123HBL.GN	○	220-240	50/60	0.13/0.12	22/21	2500/2900	85/100	0.25/0.30	42/48	465

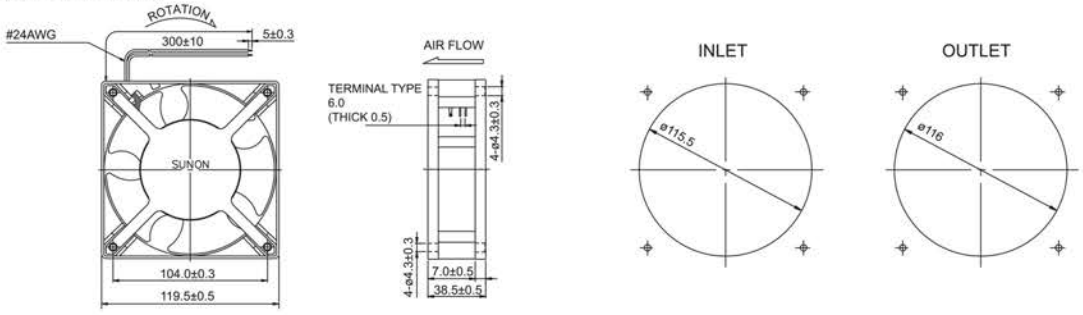
Frame : PBT Plastic

Safety : UL-CUL/TUV/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x38 mm

95~117 CFM

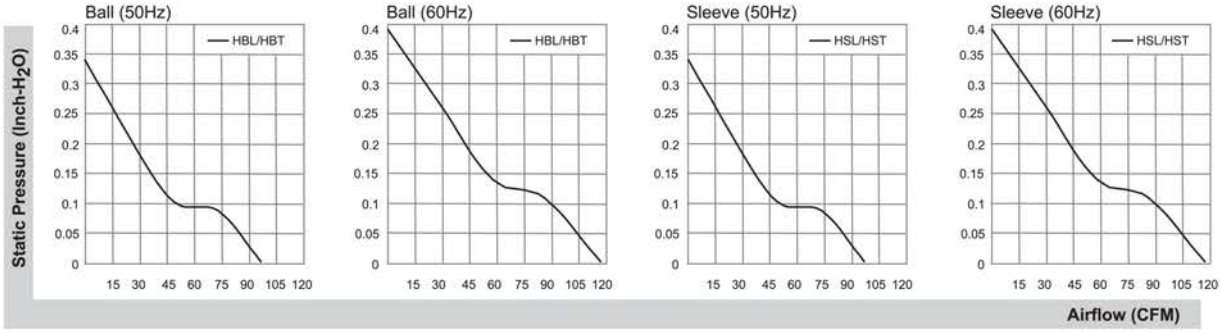
Specifications

Model	P/N	Bearing (● VAPO ○ BALL ◉ Sleeve)	Rating Voltage (VAC)	Freq. (Hz)	Power Current (AMP)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (Inch-H_2O)	Noise (dB(A))	Weight (g)
A1123-HST	GN	◉	115	50/60	0.28/0.25	23/20	2700/3100	95/115	0.33/0.38	44/49	525
A1123-HSL	GN	◉	115	50/60	0.28/0.25	23/20	2700/3100	95/115	0.33/0.38	44/49	525
A1123-HBT	GN	○	115	50/60	0.28/0.25	23/20	2700/3100	97/117	0.34/0.39	45/50	525
A1123-HBL	GN	○	115	50/60	0.28/0.25	23/20	2700/3100	97/117	0.34/0.39	45/50	525
A2123-HST	GN	◉	220-240	50/60	0.14/0.12	23/20	2700/3100	95/115	0.33/0.38	44/49	525
A2123-HSL	GN	◉	220-240	50/60	0.14/0.12	23/20	2700/3100	95/115	0.33/0.38	44/49	525
A2123-HBT	GN	○	220-240	50/60	0.14/0.12	23/20	2700/3100	97/117	0.34/0.39	45/50	525
A2123-HBL	GN	○	220-240	50/60	0.14/0.12	23/20	2700/3100	97/117	0.34/0.39	45/50	525

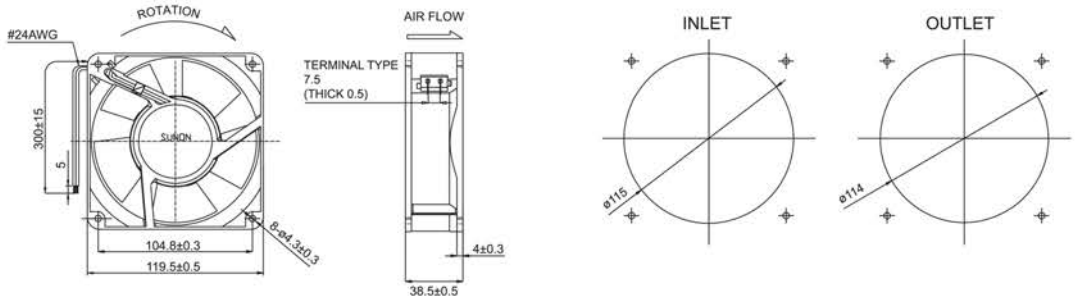
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

Air Flow-Static Pressure Characteristics



External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x38 mm

High Air Flow

112~124 CFM

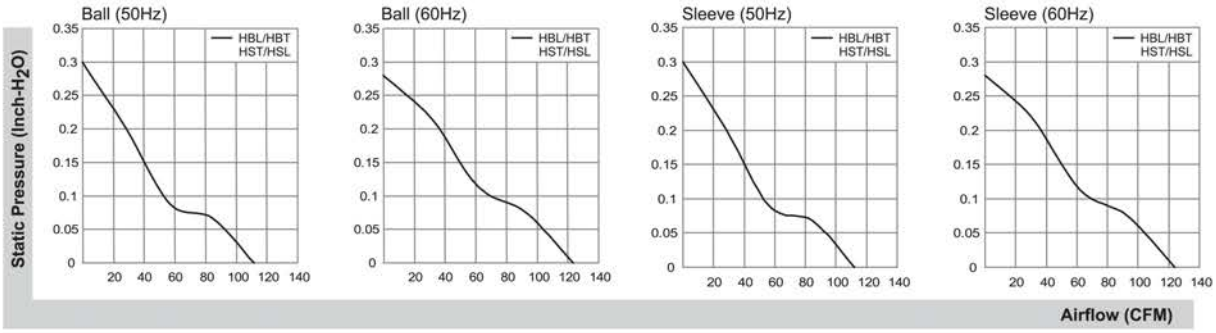
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
A1123-HST	(7).GN	◉	115	50/60	0.28/0.25	23/21	2500/2750	112/124	0.30/0.28	43/46	525
A1123-HSL	(7).GN	◉	115	50/60	0.28/0.25	23/21	2500/2750	112/124	0.30/0.28	43/46	525
A1123-HBT	(7).GN	○	115	50/60	0.28/0.25	23/21	2500/2750	112/124	0.30/0.28	44/47	525
A1123-HBL	(7).GN	○	115	50/60	0.28/0.25	23/21	2500/2750	112/124	0.30/0.28	44/47	525
A2123-HST	(7).GN	◉	220-240	50/60	0.14/0.12	24/22	2500/2750	112/124	0.30/0.28	43/46	525
A2123-HSL	(7).GN	◉	220-240	50/60	0.14/0.12	24/22	2500/2750	112/124	0.30/0.28	43/46	525
A2123-HBT	(7).GN	○	220-240	50/60	0.14/0.12	24/22	2500/2750	112/124	0.30/0.28	44/47	525
A2123-HBL	(7).GN	○	220-240	50/60	0.14/0.12	24/22	2500/2750	112/124	0.30/0.28	44/47	525

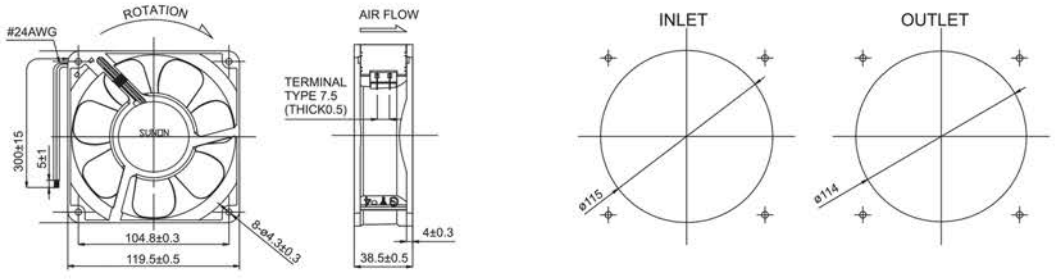
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)



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RST

汎武事業股份有限公司

120x120x38 mm

Dual AC Voltage

95~115 CFM

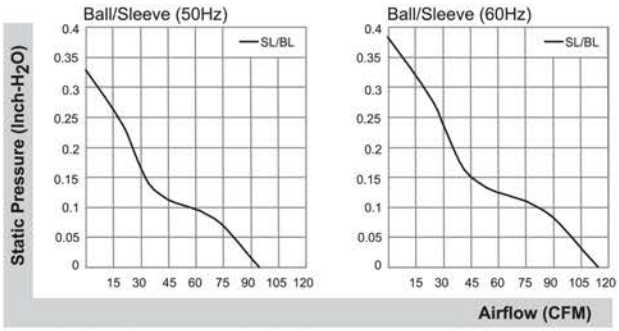
■ Specifications

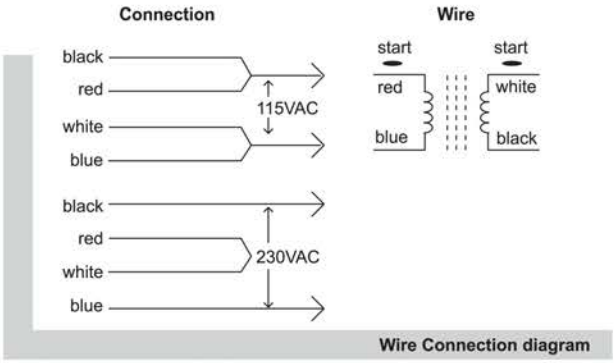
Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
SF1212AD	SL.GN	◉	115	50/60	0.27/0.24	21.5/19	2700/3100	95/115	0.33/0.38	44/49	550
			220-240	50/60	0.13/0.12	19.5/19	2700/3100	95/115	0.33/0.38	44/49	550
SF1212AD	BL.GN	○	115	50/60	0.27/0.24	21.5/19	2700/3100	95/115	0.33/0.38	44/49	550
			220-240	50/60	0.13/0.12	19.5/19	2700/3100	95/115	0.33/0.38	44/49	550

Frame : Aluminum alloy

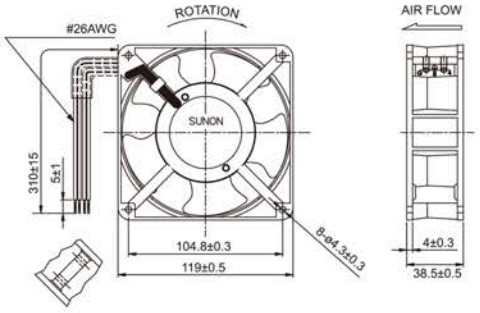
Safety : UL-CUL/TUV/CE/CCC

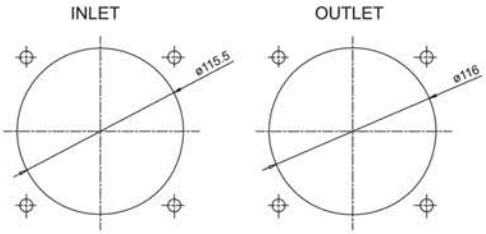
■ Air Flow-Static Pressure Characteristics





■ External dimensions(mm)





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RST

汎武事業股份有限公司

120x120x38 mm

Low Power Consumption

49~50 CFM

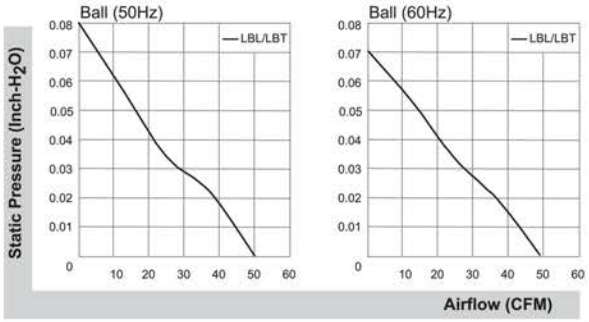
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ⊙ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
DP203A	2123LBL.(5).GN	○	220-240	50/60	0.04/0.04	8/8	1650/1600	50/49	0.08/0.07	26/25	550
DP203A	2123LBT.(5).GN	○	220-240	50/60	0.04/0.04	8/8	1650/1600	50/49	0.08/0.07	26/25	550

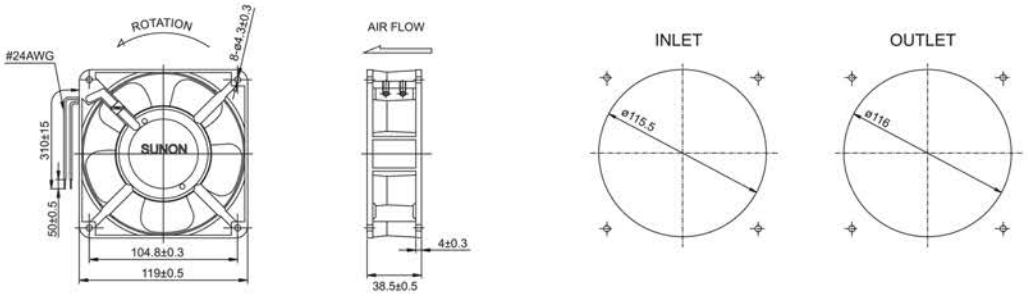
Frame : Aluminum alloy

Safety : TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)



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*Specifications are subject to change without notice. Please Visit SUNON website at http://www.sunon.com for update information.

RST

汎武事業股份有限公司

171x151x51 mm

180~200 CFM

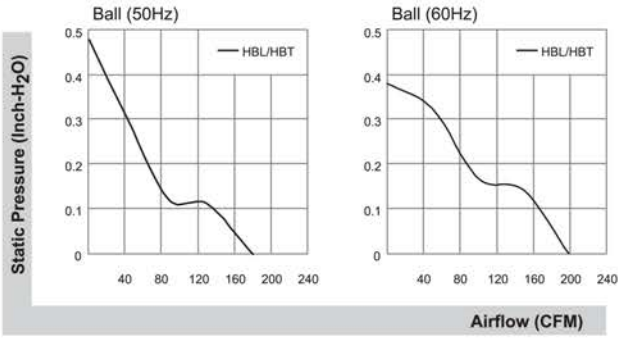
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ⊙ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
A1175-HBL	T.GN	○	115	50/60	0.59/0.48	39/36	2650/2950	180/200	0.48/0.38	52/55	957
A1175-HBT	T.GN	○	115	50/60	0.59/0.48	39/36	2650/2950	180/200	0.48/0.38	52/55	957
A2175-HBL	T.GN	○	220-240	50/60	0.28/0.24	39/36	2650/2950	180/200	0.48/0.38	52/55	957
A2175-HBT	T.GN	○	220-240	50/60	0.28/0.24	39/36	2650/2950	180/200	0.48/0.38	52/55	957

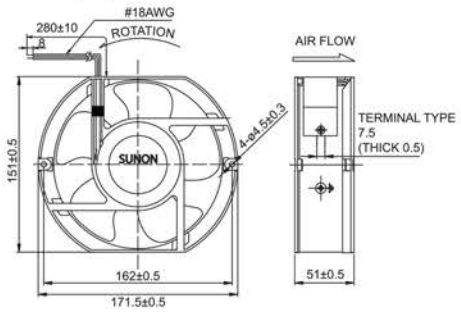
Frame : Aluminum alloy

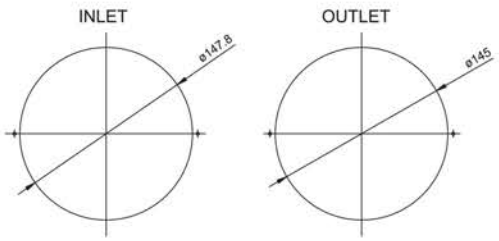
Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)





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RST

汎武事業股份有限公司

171x151x51 mm

Alveolate Motor

203~239 CFM

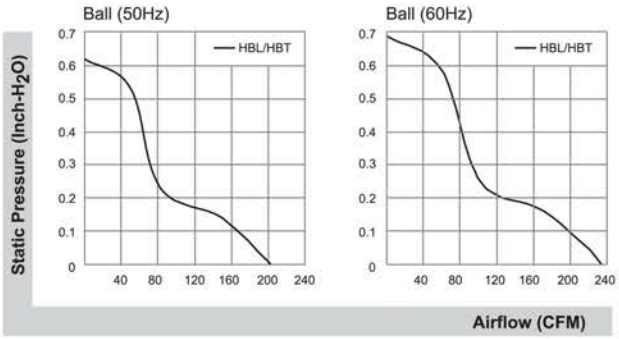
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
A1175-HBL	TC.GN	○	115	50/60	0.22/0.23	25/27	2800/3200	203/239	0.62/0.69	51/58	908
A1175-HBT	TC.GN	○	115	50/60	0.22/0.23	25/27	2800/3200	203/239	0.62/0.69	51/58	908
A2175-HBL	TC.GN	○	220-240	50/60	0.11/0.11	25/26	2800/3200	203/239	0.62/0.69	51/58	908
A2175-HBT	TC.GN	○	220-240	50/60	0.11/0.11	25/26	2800/3200	203/239	0.62/0.69	51/58	908

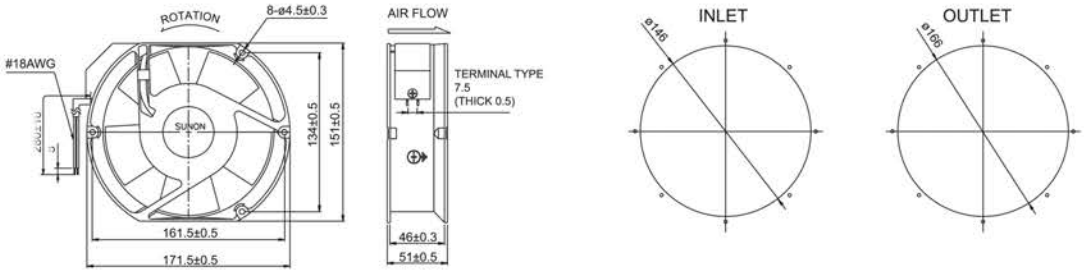
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)



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RST

汎武事業股份有限公司

ø171x51 mm

Alveolate Motor

203~239 CFM

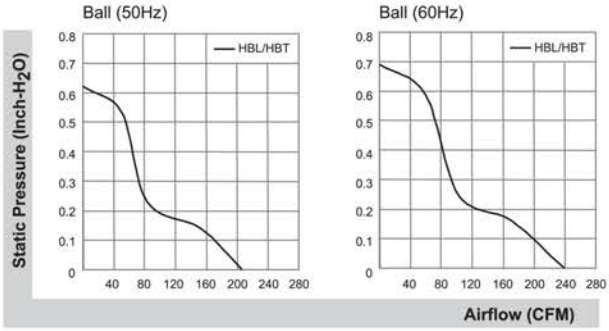
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
A1175-HBL	TC.R.GN	○	115	50/60	0.22/0.23	25/27	2800/3200	203/239	0.62/0.69	51/58	908
A1175-HBT	TC.R.GN	○	115	50/60	0.22/0.23	25/27	2800/3200	203/239	0.62/0.69	51/58	908
A2175-HBL	TC.R.GN	○	220-240	50/60	0.11/0.11	25/26	2800/3200	203/239	0.62/0.69	51/58	908
A2175-HBT	TC.R.GN	○	220-240	50/60	0.11/0.11	25/26	2800/3200	203/239	0.62/0.69	51/58	908

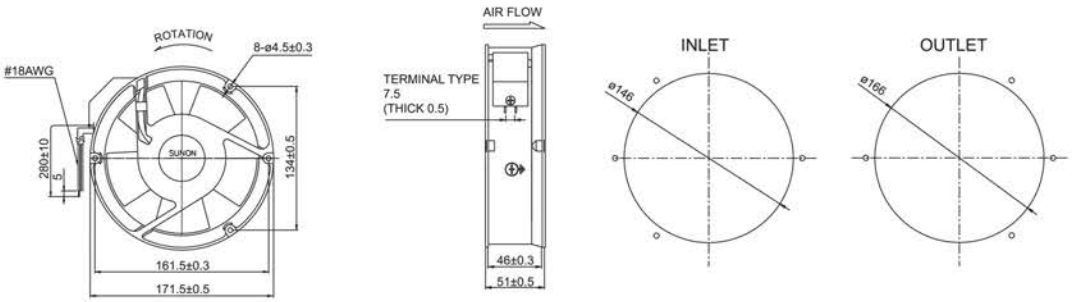
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)



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RST

汎武事業股份有限公司

176x176x89 mm

Alveolate Motor

315~335 CFM

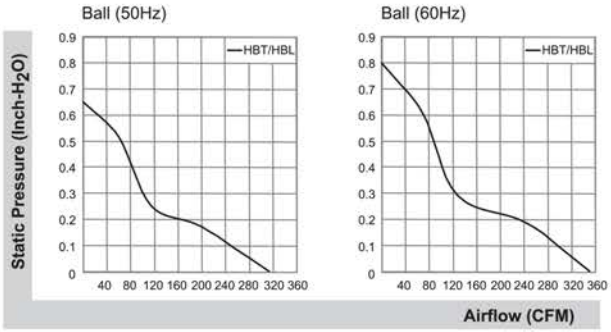
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
A1179-HBT	TC.GN	○	115	50/60	0.25/0.27	24/30	2800/3250	315/335	0.65/0.8	62/66	1960
A1179-HBL	TC.GN	○	115	50/60	0.25/0.27	24/30	2800/3250	315/335	0.65/0.8	62/66	1960
A2179-HBT	TC.GN	○	220-240	50/60	0.11/0.15	23/30	2800/3250	315/335	0.65/0.8	62/66	1960
A2179-HBL	TC.GN	○	220-240	50/60	0.11/0.15	23/30	2800/3250	315/335	0.65/0.8	62/66	1960

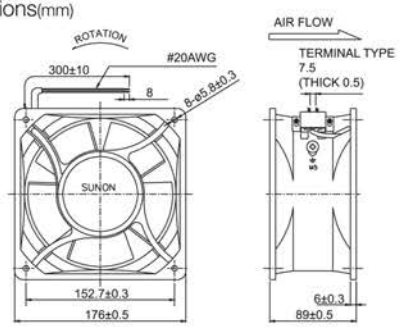
Frame : Aluminum alloy

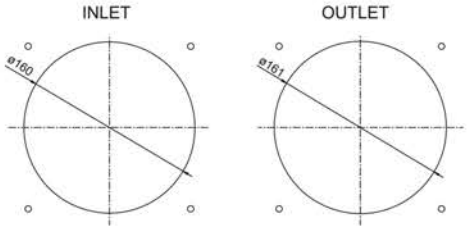
Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)





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ø254x89 mm

Alveolate Motor

425~870 CFM

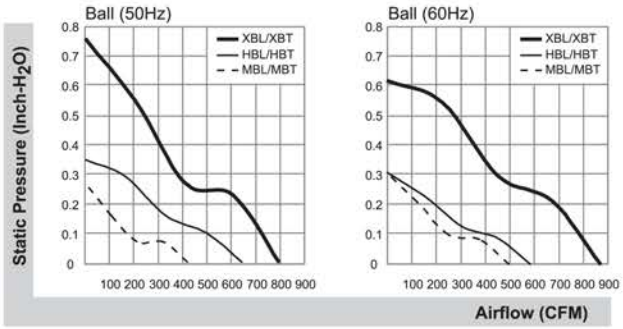
■ Specifications

Model	P/N	Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise	Weight
		● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch-H_2O)	(dB(A))	(g)
A1259-MBL	TC.N.GN	○	115	50/60	0.23/0.23	20/23	1400/1600	425/500	0.27/0.31	54/57	2300
A1259-MBT	TC.N.GN	○	115	50/60	0.23/0.23	20/23	1400/1600	425/500	0.27/0.31	54/57	2300
A1259-HBL	TC.N.GN	○	115	50/60	0.60/0.65	63/72	2100/1900	650/585	0.35/0.31	62/60	2300
A1259-HBT	TC.N.GN	○	115	50/60	0.60/0.65	63/72	2100/1900	650/585	0.35/0.31	62/60	2300
A1259-XBL	TC.N.GN	○	115	50/60	0.83/1.10	88/120	2600/2900	800/870	0.76/0.62	68/70	2400
A1259-XBT	TC.N.GN	○	115	50/60	0.83/1.10	88/120	2600/2900	800/870	0.76/0.62	68/70	2400
A2259-MBL	TC.N.GN	○	220-240	50/60	0.15/0.13	23/30	1400/1600	425/500	0.27/0.31	54/57	2300
A2259-MBT	TC.N.GN	○	220-240	50/60	0.15/0.13	23/30	1400/1600	425/500	0.27/0.31	54/57	2300
A2259-HBL	TC.N.GN	○	220-240	50/60	0.24/0.27	56/60	2100/1900	650/585	0.35/0.31	62/60	2300
A2259-HBT	TC.N.GN	○	220-240	50/60	0.24/0.27	56/60	2100/1900	650/585	0.35/0.31	62/60	2300

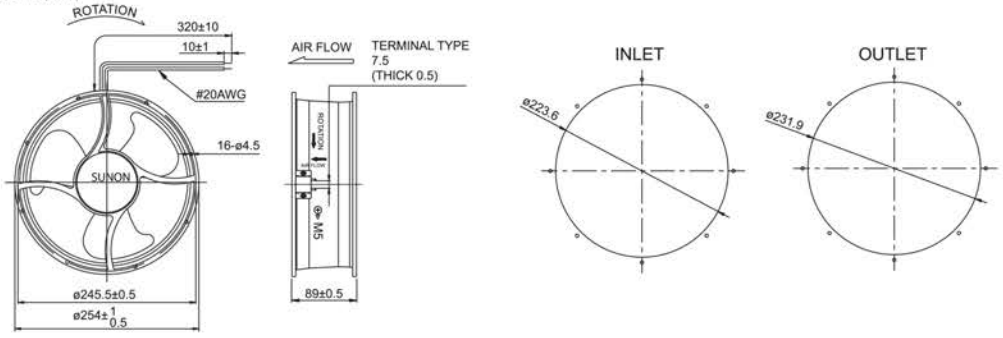
Frame : Aluminum alloy

Safety : UL-CUL/TUV/CE/CCC

■ Air Flow-Static Pressure Characteristics



■ External dimensions(mm)



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DC Brushless Fan & Blower

*All products are RoHS compliant.

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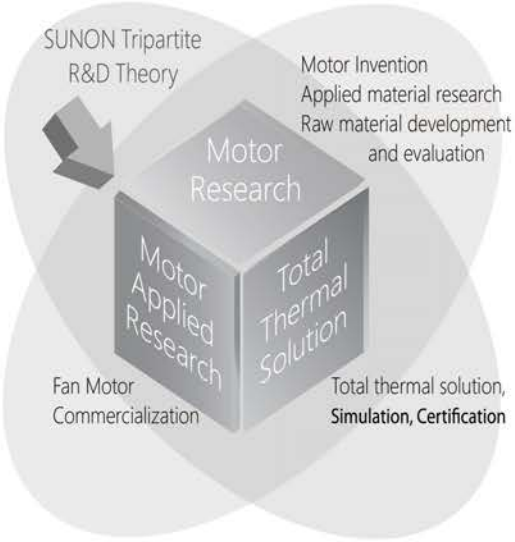
SUNON RESEARCH CENTER

about SUNON

SUNON was founded in 1980 and has always upheld the philosophy of "Brand, Innovation, and Value" for their business operations. From the start, the SUNON name has become an international trademark that is well recognized and featured on products sold worldwide. Over the years, SUNON has continuously focused on developing and making innovations for their core motor technology, leading the industry in product trends for motors, cooling fans, and cooling modules. SUNON is one of the few operations in the world with a motor R&D team and is fully capable of developing innovative new motor designs. Examples for the R&D efforts are the world's first MagLev design and SUNON Mighty Mini series, featuring a compact sub-centimeter size that is the world's smallest and thinnest fan. Today, SUNON is the worldwide leader in precision motors and micro miniature fans, and is widely recognized by the industry as the designated partner for various multinational corporations. SUNON products are widely used in various applications and industries such as information technology, network communications, optoelectronics, and automobile electronics industries, as well as in industrial production equipment, medical equipment, home applications, OA machines, and others.

SUNON Research Center the Driving Engine for Inventions and Innovations

SUNON established the "SUNON Research Center" in Kaohsiung in 2002 to promote and execute the innovation blueprint for SUNON Group. Research labs and engineers from Europe, America, Japan, and China are centralized to form a worldwide technological service network for quick and efficient services.



Key Modules for Innovating Core Motor Technology

SUNON has been researching their motor technology for over 30 years and adhering to the SUNON R&D Trinity as their innovation roadmap, focusing on the three major technology fields of "Motor Research," "Motor Applied Research," and "Total Thermal Solution." SUNON strives to expand the endless possibilities and optimization of motor applications and will continue to make breakthroughs and product innovations. The efforts will push SUNON to the front of the technology curve and clients will be able to realize their future dream products with the three key SUNON products of motors, cooling fans, and cooling modules.

SUNON has the capacity to design and implement the complete magnetic, mechanical, and driving circuit of a motor to conform to client design specifications. With the efforts of the mechanism and electrical circuit engineering teams, SUNON recognizes the needs of their clients regarding cooling modules and can provide flexible designs for high performance and high quality cooling fans. SUNON utilizes advanced simulation systems and analysis projects that result in an even more accurate heat analysis and heat dissipation design for the system. Subsequently the most efficient total thermal solution can be provided to the client.

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DR MagLev

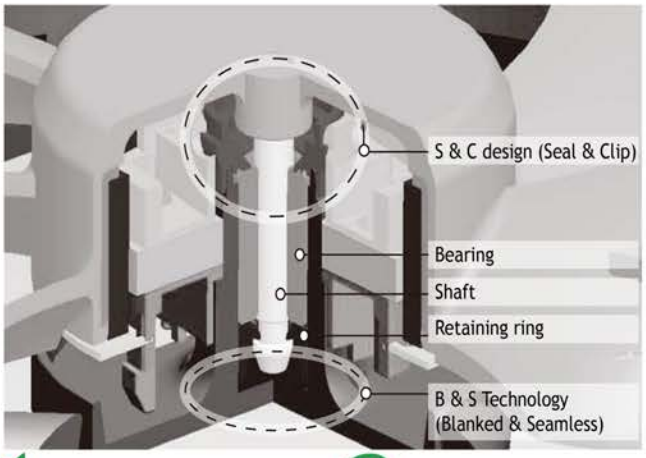
【DR MagLev = Dust-Resistance MagLev】

Key Feature

SUNON DR Maglev (Dust-Resistance MagLev) Motor Fan uses the Mag Lev technology with new design features of S&C design and B & S Technology.

After 8 years of development and testing, SUNON 's DR MagLev Motor Fan is being introduced with the advantages o f prevents the stator and impeller from moving, better dust-resis tance, higher reliability, and longer life expectancy.

Design Concepts and Characteristics of DR MagLev



The two innovative design concepts of DR MagLev development are B&S (Blanked & Seamless) Technology and S&C (Seal & Clip) Design.
These innovative designs bring dual excellent efficiencies to extend fan life:
1.To avoid dust invasion and extend motor life.
2.To prevent the motor components from falling off.

(Note: The design concepts of DR MagLev Motor are suitable for every kind of motor and product size. The structures are different from the above picture, which was made when the DR MagLev design was applied to different motors.)

1 Characteristic

The innovative S&C Design provides the best resistance to dust invasion.

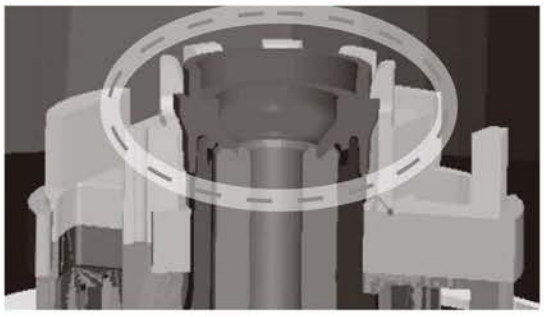
2 Characteristic

DR MagLev 's one-piece structure with the B&S Technology and S&C Design provides the better sealed bearing system.

3 Characteristic

The S&C Design strengthens the locked position of both motor and stator to avoid stator and impellor from moving due to temperature changes. This allows the product to be more stable and run longer.

SUNON Innovative S&C Design



This design concept can solve the moving problem of the motor 's components, provide better dust-resistance.

It can avoid the impeller from moving and better sealed bearing system.

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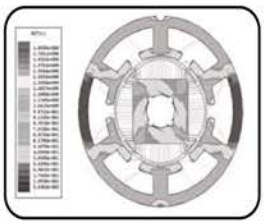
SUNON TOTAL THERMAL SOLUTION

SUNON introduced its first chip cooling module in 1993, it has continued to rely on its impressive R&D team to also succeed in the laptop computer cooling module market. SUNON's innovative technology and superior design talent have consistently won customers' trust. In addition to SUNON's cutting-edge cooling fan products, it also offers laptop, VGA card, Desk Top, and server product designs. SUNON's cooling module product line ranges from low-end to high-end, enabling it the ability to provide customers with "Total Thermal Solutions."

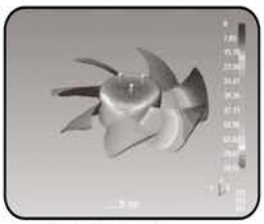
Sophisticated Tools Strengthen Design and Quality

Apart from optimized design and superior R&D, we use infrared (IR) thermal imagers in module design work to make precise measurements of module temperatures, thereby avoiding the use of conventional thermocouples to measure temperatures. Our R&D personnel can instead rely on IR images to get a clear understanding of system temperature distribution. The data from our thermal imaging reports allow us to provide a clear system-wide thermal and cooling design analysis. In order to give customers the best quality guarantee, we go well beyond industry standards in production, assembly, inspection equipment design and deployment. We have also committed large amounts of manpower and material resources, and adopted the newest hardware and software equipment in our quest for quality. For instance, our thermal inspection systems can fully simulate thermal resistance measurements and pressure settings within systems and measure thermal resistance simultaneously at six different points. Precise measurements of pressure settings enable simulation of pressure within the system, making measurements even more accurate and protecting product quality by ensuring that excessive pressure doesn't cause product deformation. Furthermore, independent bar codes on each product ensure effective product tracking and improve the quality of after-sales service. We can satisfy our customers' needs for various types of customized cooling modules while meeting the highest quality requirements.

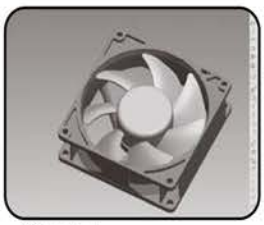
Structural Simulation analysis



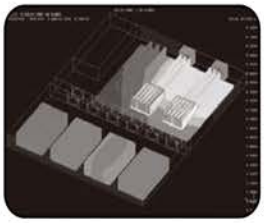
Magnetization Simulation analysis



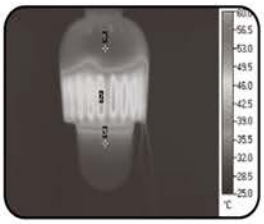
Fluid dynamic analysis



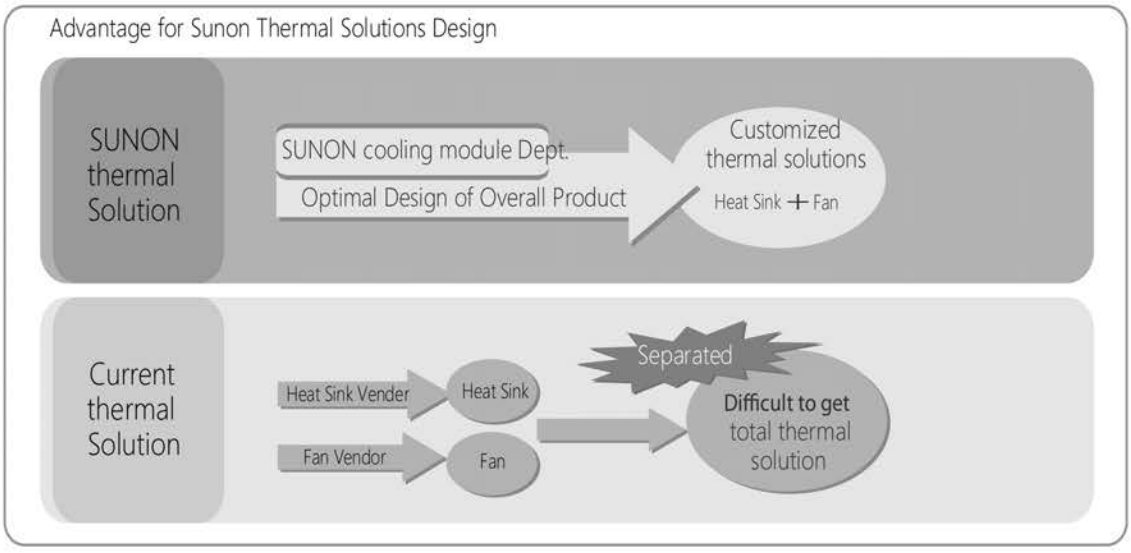
3D model



Thermal analysis



IR thermograph inspect



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SUNON PRODUCTION NETWORK

SUNON Reliability Verification System

SUNON has 5 reliability testing labs worldwide equipped with th e topmost precision verification instruments for testing from the design phase, through pre-production, and into mass pr oduction. The complete verification system is computerized and fully automated for precise analysis of produc t reliability and quality satisfaction to meet the market requirements.

SUNON Production Network

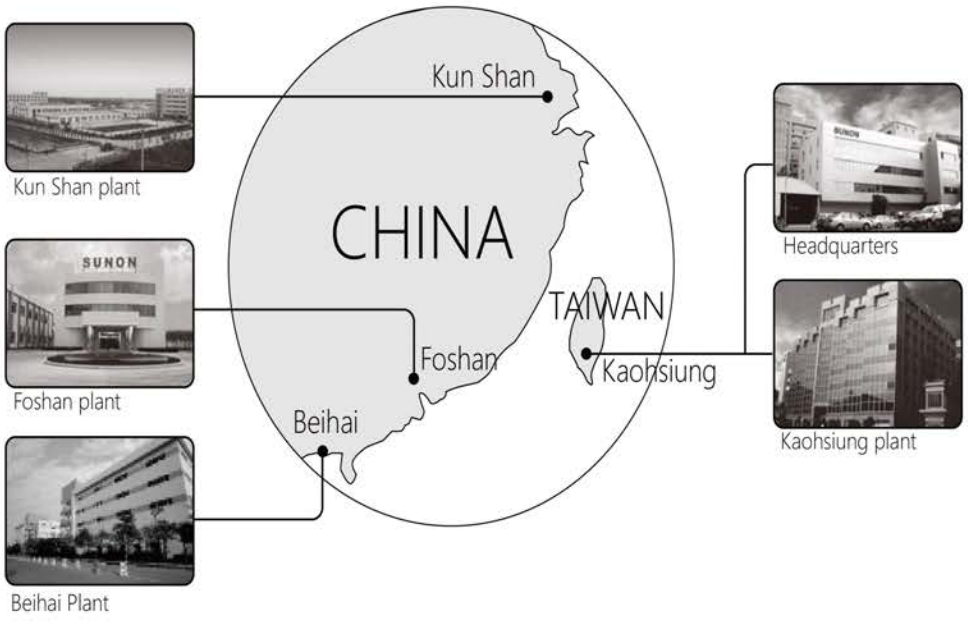
SUNON Group has a total of four manufacturing plants located in both China and Taiwan for production of 8mm~250mm series of fan products, 0.1Watt~60Watt of motor products, and various cooling module products. The overall monthly production output capacity is 20 million units.

In addition to the MES system that provides clients with the best manufacturing quality, SUNON goes well beyond industry standards in production, assembly, inspection equipment design and deployment. SUNON has also committed large amounts of manpower and material resources, and adopted the newest hardware and software equipment, in our quest for quality. For example, an automated production line for cooling products, the self-developed automated inspection machine for the production line, a heat inspection system capable of six simultaneous measurements, and an independent barcode with each cooling product indicate SUNON 's commitment.

Our products have passed UL, TUV, VDE, CCC, CSA certifications base on requirements from different regions.

All SUNON products are RoHS compliant from design phase to mass production.
SUNON is the long-term green partner for SONY, CANON, SAMSUNG and various other multinational companies

SUNON deeply recognizes its corporate duty to protect our earth and the ecosystem and to reduce the use of materials that impact the environment. In light of this, SUNON has been actively promoting green product design, green purchasing, and green manufacturing reforms. All current product series conform to EU RoHS and China RoHS, and SUNON has been selected as the green environment partner for multinational corporations such as SONY, CANON, and SAMSUNG. All of the aforementioned efforts will result in greener products that have the least impact on the worldwide environment.



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SUPER SILENCE FAN

Silence

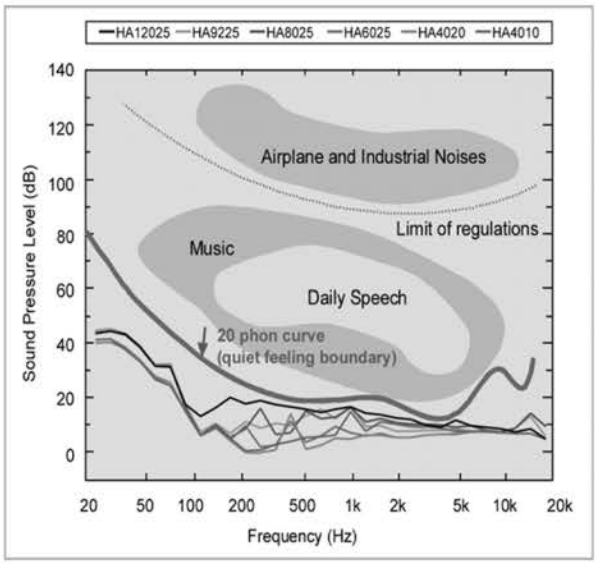
Superior Sound Quality System

Low Starting Voltage

Incorporating highly ergonomic technology with the lifestyles o f the future, SUNON has developed the "Super Silence" fan series, which is characterized by our insistence o n maintaining the best environmental quality and paying attention to minute detail. This series is designed and enginee red to ensure the best sound quality. Using multidimensional noise analysis, the sound quality has been imp roved from traditional acoustic norms to psychoacoustic levels. Micro-motor technology has allowed us to create the maximum possible space between fan blades and air channels. With its low rotating speed, the fan p erforms silently while still maximizing cooling efficiency. "Super Silence" fan series have low voltage characteristic and are designed for a wide range of uses.

These fans have medical, household, commercial, and many other applications. They also will create a soothing and ergonomic user environment and carry on the "Cool" and "Quiet" traditions typical of SUNON products.

SUNON's "Super Silence" fan series was tested with standard digital home equipment located one meter away from the user. Based upon "ISO 532B hearing sensation" and charts on human auditory reactions that were plotted for different decibel and frequency levels, the threshold noise level for SUNON's Super Silence series' is below 20 phon, the minimum level that is discernible in daily living.



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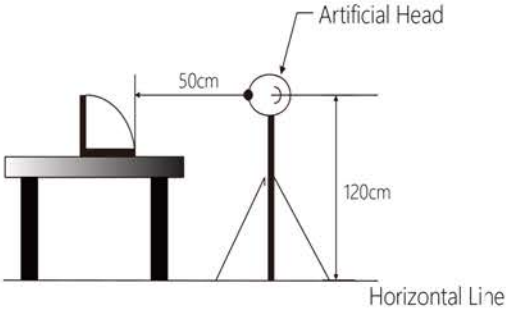
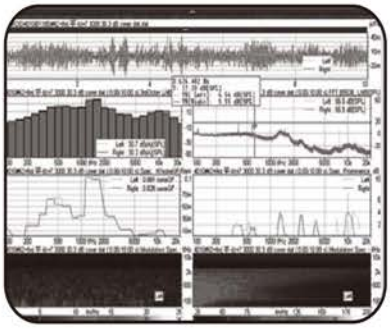
SOUND QUALITY ANALYSIS AND RESEARCH

SUNON introduced acoustics engineering in the year 2000 to tran sform the traditional school of Sound Pressure and Sound Power into the more advanced theory of Sound Quality. SU NON's Sound Quality analysis and research is performed by Head Measurement System (HMS) . The HMS system rec ords and simulates the auditory senses of the human ears, where the sounds, vibration, rotation speed, and el ectrical signals are measured. The software subsequently performs time domain and sound quality parameter analysis to as sist the acoustics engineers in allowing SUNON products to feature a more favorable sound quality. The experti se and experience of the acoustics engineer combined with the software analysis will result in an even more user-fri endly environment that is rivaled by none.

Sound Quality Testing

Sound quality is measured in an semi anechoic chamber by means of Head Measurement System (HMS) .
The Sound quality of fans can be described according to the obj ective parameter of sound (Loudness, Tonality, Roughness/Fluctuation, Sharpness).
After the recording of acoustic signals,the data is performed t he FFT, order Psycho acoustic And modulation analyses and playback diagnosis in order to improve the sound quality of fans.





The mobile Sound Quality Laboratory SQlab II

SQlab II is a compact, mobile multi-channel measurement system for acoustic analysis, vibration investigation and sound design. It is used wherever investigation of sound quality should be combined with vibrational measurements.

The comparison of vibrational measurements with acoustic signals enables the user to draw direct conclusions from sound sources and their sound quality. For this purpose, SQlab II is able to measure aurally-accurate recordings of sound events using an Artificial Head and vibration data with accelerometers, etc. at the same time. Thus, correlations between the subjective aural impressions of sound events (airborne sound) and the related sources (vibration, solid-borne sound) as well as transfer mechanisms become apparent. This is the basis for sound optimization. Moreover, SQlab II can be used as a "stethoscope" for error analysis.

The Analysis Software

It can analyze, filter, display and document acoustic and vibration measurement data in a wide range of modes. Yet an outstanding feature of this software is the possibility of including the aural sense of the human user in signal analysis.

HEADphone Playback System

The digital 24 bit HEADphone Playback System HPS IV is complementary to the Head Measuring System HMS III. Conditioning of audio data for aurally-accurate playback is via equalization of the acoustic signal in the programmable Equalizer PEQ IV, with subsequent amplification via the Power Amplifier PVA IV.2. Two electrostatic headphones can be connected to the playback system, which are individually calibrated and correspondingly driven.

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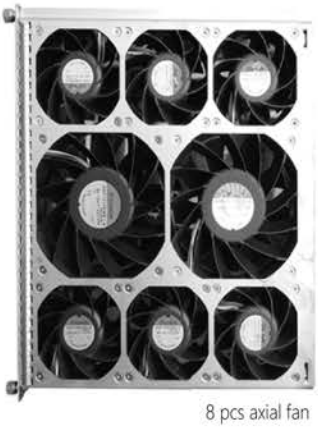
FAN TRAY



8 pcs axial fan

12 pcs axial fan

9 pcs axial fan

Fan Tray Features

- Communication : I ²C interface
- EMC
- Advantage :
  - · Soft Start.
  - · Hot Swappable Function.
  - · Reverse Polarity Protection.
  - · Over Voltage Protection.
  - · Inrush Current Protection.
  - · Over Current Protection.
  - · Linear or Step Speed Change.
  - · Control Fan Speed with Ambient Temperature.
  - · PWM or Voltage Speed Control.
  - · Redundancy Function.
  - · LED Display Fan Tray Health Status.
  - · EEPROM for e-ID.
  - · Thermal Sensor Fail and Fan Fail Alarm Signal Output.

Sunon Fan Tray Capability

- ODM & OEM Design
- Industry/ Telecom (Indoor & outdoor) & Networking and other application
- CAE Capability to Optimal System Cooling Design
- Widely Applicative Fan : 12V / 24V / 48V / 72V
- 100% Burn In Testing & Monitor Equipment
- Flexible Manufacture
- Communication : I ²C interface
- Traceability
- 100% Auto Function Testing
- Safety Compliance : UL/CUL/TUV/VDE/CE

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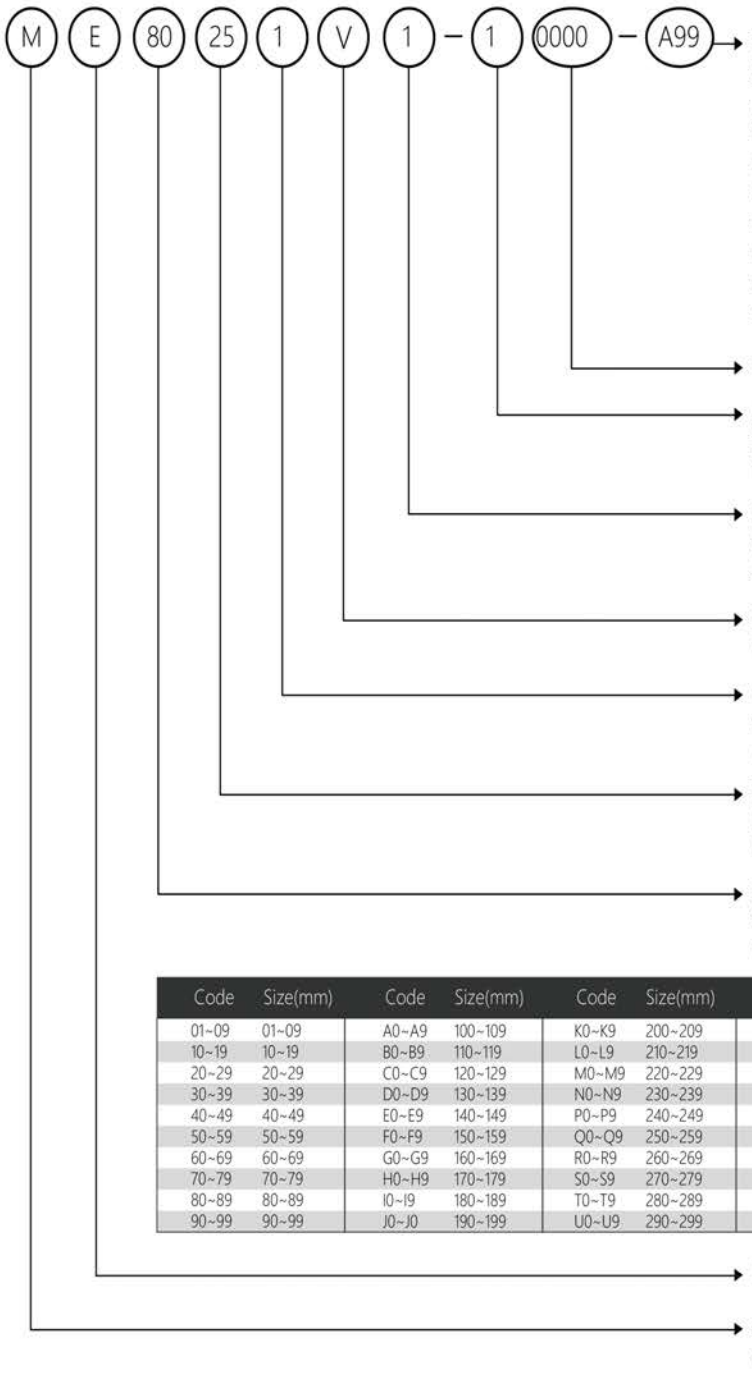
DC Fan New Model Numbering System



Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
01~09	01~09	A0~A9	100~109	K0~K9	200~209	V0~V9	300~309
10~19	10~19	B0~B9	110~119	L0~L9	210~219	W0~W9	310~319
20~29	20~29	C0~C9	120~129	M0~M9	220~229	X0~X9	320~329
30~39	30~39	D0~D9	130~139	N0~N9	230~239	Y0~Y9	330~339
40~49	40~49	E0~E9	140~149	P0~P9	240~249	Z0~Z9	340~349
50~59	50~59	F0~F9	150~159	Q0~Q9	250~259		
60~69	60~69	G0~G9	160~169	R0~R9	260~269		
70~79	70~79	H0~H9	170~179	S0~S9	270~279		
80~89	80~89	I0~I9	180~189	T0~T9	280~289		
90~99	90~99	J0~J0	190~199	U0~U9	290~299		

Certification

Safety

* Note: For critical or extreme environments, including non sto p operation, please contact SUNON and we will gladly provide assistance with your product selection to ensure an appropriate cooling product for your application.
* Note: The "Life Expectancy" of the fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Reports(L10 and MTTF Report) that rela te to the fan are only for reference.

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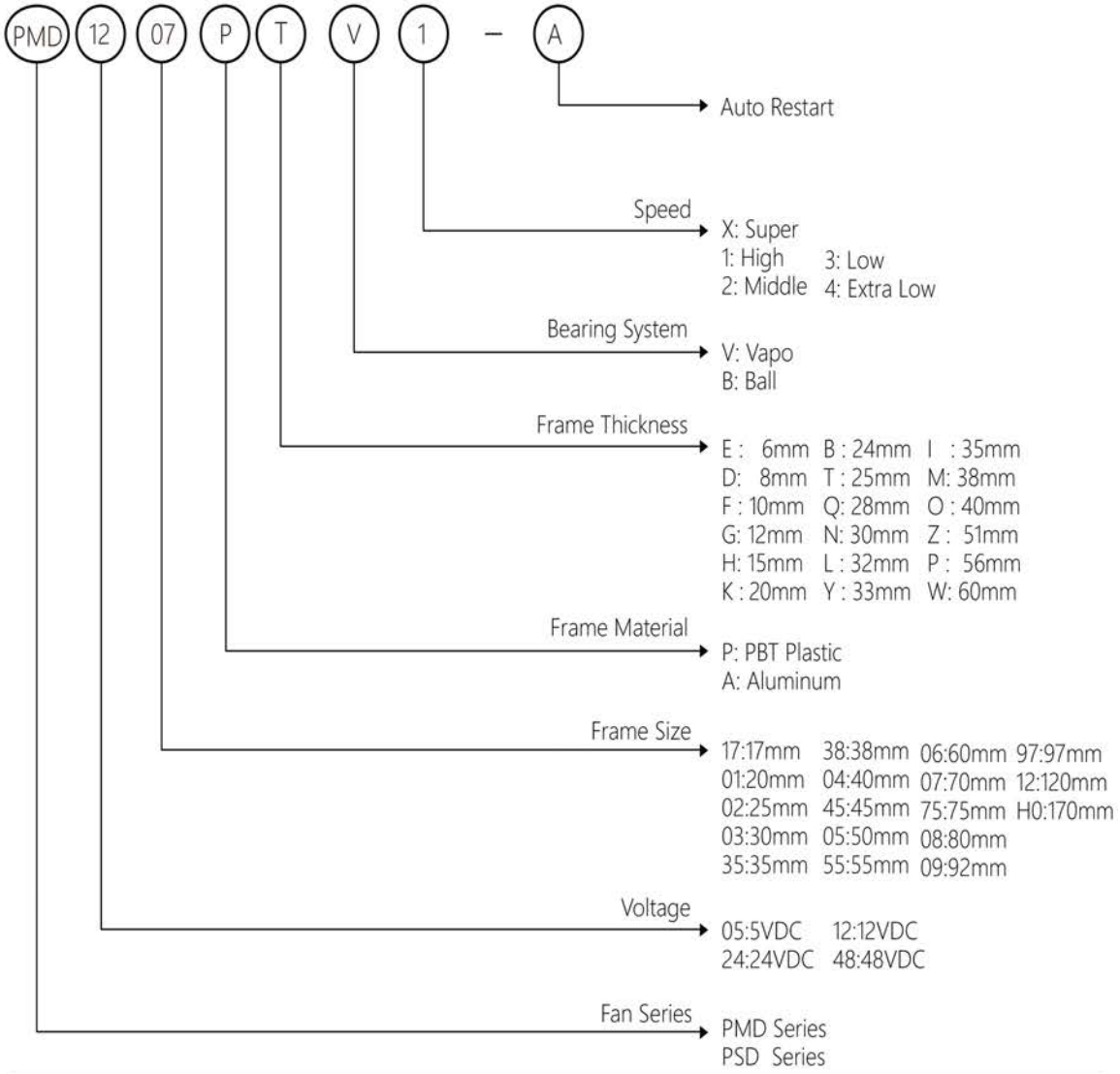
■ DC Fan Old Model Numbering System



P/N

Example: KDE1208PTV1 P/N:13.MS.A.GN

- (2) Two ball bearing
- A Auto restart
- F 3rd wire with frequency generation waveform
- R 3rd wire with rotation detector waveform
- GN RoHS compliance
- Z Specific RPM
- PWM with PWM function

Certification

Safety

* Note: For critical or extreme environments, including non sto p operation, please contact SUNON and we will gladly provide assistance with your product selection to ensure an appropriate cooling product for your application.
* Note: The "Life Expectancy" of the fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Reports(L10 and MTTF Report) that rela te to the fan are only for reference.

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高效節能商用冷藏 EC風扇

EC風扇是將DC直流電機及轉速控制功能，直接應用於交流電源輸入環境，採用高效率節能的DC直流電機，耗電量相較於一般AC電機減少80%以上，並可依客戶需求提供IP56、IP68 與 ATEX 防爆防護設計，保障產品長效使用與安全。

超節能 80%　超防水 IP68　防爆 Ex ATEX

■ EC風扇產品規格

Size (mm)	Model	Ingress Protection	Rated Voltage (VAC)	Operating Voltage (VAC)	Power (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (inch-H_2O)	Noise (dB(A))	Operation Temperature (℃)
120x120x38 ●1	CF4113HBL-0000-A99	-	110-230	90~265	5.1	3500	109	0.37	44.9	-25℃~+70℃
	CF4113HBL-0000-AA9	IP21								
	CF4113HBL-0000-AB9	IP55								
	CF4113HBL-0000-AE9	IP68								
	CF4113HBL-0000-ABD	IP55, ATEX Ex	100-240							
	CF4113HBL-0000-AED	IP68, ATEX Ex								
	CF4113MBL-0000-A99	-	110-230	90~265	3.4	3000	90.1	0.31	40.2	-25℃~+70℃
	CF4113MBL-0000-AA9	IP21								
	CF4113MBL-0000-AB9	IP55								
	CF4113MBL-0000-AE9	IP68								
	CF4113MBL-0000-ABD	IP55, ATEX Ex	100-240							
	CF4113MBL-0000-AED	IP68, ATEX Ex								
	CF4113LBL-0000-A99	-	110-230	90~265	1.8	2000	64.3	0.17	31.4	-25℃~+70℃
	CF4113LBL-0000-AA9	IP21								
	CF4113LBL-0000-AB9	IP55								
	CF4113LBL-0000-AE9	IP68								
	CF4113LBL-0000-ABD	IP55, ATEX Ex	100-240							
	CF4113LBL-0000-AED	IP68, ATEX Ex								
Ø250x77.4	CF2207LBL-0000-HB9	IP55	220-240	180~250	(H) 6.6 (L) 3.2	(H) 1400 (L) 950	(H) 278.8 (L) 186.0	(H) 0.30 (L) 0.16	(H) 41.2 (L) 29.9	-40℃~+50℃
	CF2207LBL-0000-HE9	IP68								

●1 -40℃ 和轉速可客製化，請進一步與業務人員聯絡。

●安規認證：UL/CUR/TUV/CE

※ 如有特殊規格需求，請與SUNON業務人員連絡。
※ 此產品目錄之規格僅供參考，如有變更無法預先通知，請以業務提供的產品規格書為準。
※ 更多SUNON產品資訊請至SUNON網站 www.sunon.com 瀏覽。

SUNON®

SUNON®

IRIS 輕奢慢活 吊扇系列

Downshifting, Enjoy your slow movement

地球因為地軸傾斜23.5度創造了四季的風景，SUNON IRIS吊扇以31 度大曲面雙扭轉設計，創造極慢極靜的超大流場，六段速仿生自然的風流，優雅飛翔姿態在自然光線下，讓空間裡的空氣吹起反璞歸真的自然風氣息。

■ 專利扇葉 涼爽舒適

大曲面雙扭翼型具有空氣動力學輪廓，在極低轉速下仍可創造平滑無聲的擴散氣流，創造出仿真的自然微風。

■ 安靜無聲 極致享受

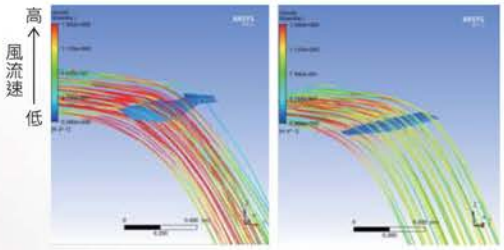
相較於一般AC或DC馬達更加的靜音，加上扇葉採流體力學設計，讓運轉時流道更順暢，有效降低風阻與風切噪音，讓商業空間像是咖啡廳、展示廳、辦公室等場所體驗到靜謐享受而不受干擾。

■ 高效馬達 節能省電

採用直驅電機的多槽極馬達結構可以產生雙倍扭力，馬達效率超過90%以上，可取代輕商空間需長期使用的高能耗空調成本。

※ 與業界頂級EC馬達吊扇比較

競爭者　IRIS



IRIS 大角度扇葉流場模擬　一般吊扇扇葉流場模擬

規格

尺寸	60吋(150公分)
馬達	直流無刷馬達
材質	ABS
功耗	4.5W~50W
轉速	50~120RPM
風量	18,615 m^3/h (最大風量) 10,950 CFM
控制	6段變速 (正轉/反轉)

www.sunon.com

適用場所：展覽、展場、書店、咖啡廳、圖書館、辦公室、會議室、大廳、飯店、住家、醫院、健身中心

RST 汎武事業股份有限公司

www.rstpower.com.tw

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HVLS 節能大吊扇

節能 | 降溫 | 防潮 | 通風最佳方案

台灣精品

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HVLS 吊扇系列 | UFO 1

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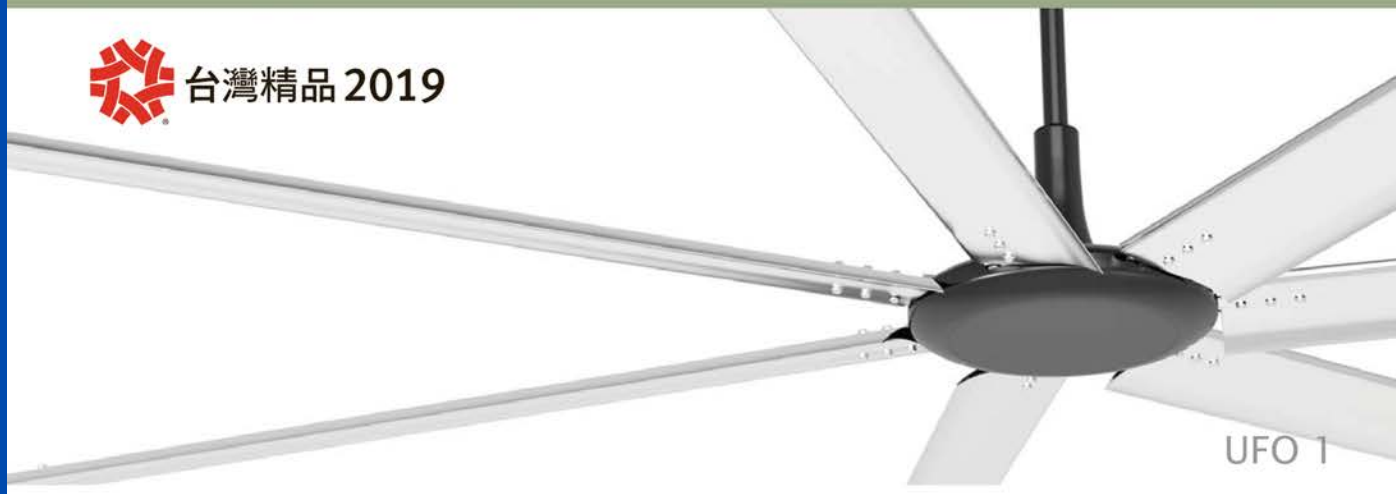
台灣精品 2019



省電※	覆蓋面積※	空調成本	降溫
90%	+20%	-30%	3-8℃

※與傳統AC工業扇比較

吊架安全	質量輕巧	均勻氣流	靜音尾翼
100%	無壓迫感	風力平穩	消弭亂流

吊扇應用

商業空間：大型零售店、高檔餐廳、咖啡廳、辦公室、飯店、醫院、健身中心
公共空間：機場、體育館、大眾運輸轉運站、博物館、圖書館、醫院
工業空間：自動化工廠、物流倉庫

HVLS 吊扇系列 | UFO 3

100% 自主研發、設計、製造40年專注節能馬達技術的開發經驗，全系列HVLS 節能大吊扇採用無齒輪直驅高效電機，葉片導入空氣力學優化流場設計讓吊扇風流覆蓋面積擴增20%以上，並為每支吊扇量身打造更穩定的控制器只為給你更好的工業大吊扇選擇，提供最佳節能、降溫、防潮、通風解決方案。

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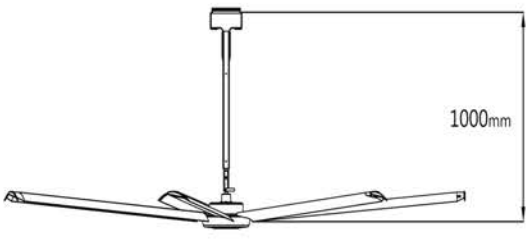
UFO 1 系列	直徑	最大轉速	功率	噪音	覆蓋面積
220-240 VAC, 1Φ, 50/60 Hz	1.5 m (5 ft)	180 RPM	54 W	<35 dBA	80 m² (861 ft²)
	2 m (6.5 ft)	130 RPM	72 W	<35 dBA	120 m² (1,292 ft²)
	2.5 m (8 ft)	95 RPM	84 W	<35 dBA	160 m² (1,722 ft²)
	3 m (10 ft)	70 RPM	84 W	<35 dBA	200 m² (2,153 ft²)

UFO 3 系列	直徑	最大轉速	功率	噪音	覆蓋面積
200-240 VAC, 1Φ, 50/60 Hz	2.5 m (8 ft)	150 RPM	335 W	<40 dBA	256 m² (2,760 ft²)
	3 m (10 ft)	100 RPM	232 W	<40 dBA	314 m² (3,380 ft²)
	3.6 m (12 ft)	70 RPM	176 W	<40 dBA	407 m² (4,380 ft²)
	4.2 m (14 ft)	56 RPM	171 W	<40 dBA	496 m² (5,340 ft²)



台灣精品 2019

RST 汎武

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台中營業所
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台北營業所
237新北市三峽區中山路184巷9號
TEL(02)86717471 FAX(02)86717427

電力配電事業部

電力配電產品代理 及 配電盤製造

VCB・GCB・RMU・LBS・ACB・DS・LA・APR・APFR・PM・UPS
3CO+LCO・3OV+3UV・ATS・CT・PT・KWH・NFB・MC・PF・SC
電纜處理頭・變壓器・ 避雷針 ・肘型端頭測量儀器・突波吸收器
全二線照明系統・防火阻燃材料・電機電子維修材料... 等

瑞侃事業部

中高壓絕緣防護 整體解決方案

代理美商泰科Raychem，包含：熱縮電纜處理頭、中間接續、
絕緣套管/封套/接頭、T型接頭系列

綠築智能事業部

商辦及居家之空氣品質改善

SUNON直流換氣扇系列產品・新風機系統（過濾PM2.5）
Procozy吊曬式智能除濕機（全曬式/格柵式）・智慧管家系統
Humidry六合一智慧除濕暖風機

消費性商品事業部

代理ible Airvida
頸掛式負離子空氣清淨機

好空氣戴著走 隨時隨地遠離PM2.5、甲醛、花粉的危害

散熱風扇事業部

經銷建準產品 提供全方位散熱解決方案

毫米風扇・超小直流鼓風扇・直流無刷散熱風扇（DC）
交流散熱風扇（AC）・磁浮馬達風扇（MagLev）
EC節能風扇・IP68防塵防水風扇・LED照明散熱模組

工業控制暨自動化事業部

自動控制元件代理 及 整體解決方案

PLC・INV・HMI・SERVO・SENSOR・施耐德電機產品
低壓斷路器・控制元件及電源供應器...等

國際貿易事業部

經銷代理國際知名品牌
全球通路運營商

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RST ENTERPRISE CO., LTD.