

THE PARTY OF

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KDK Ventilation Fans & Air Moving Equipment

Ventilation Fans & Air Moving Equipment Refined Air Quality Solutions



KDK Company, Division of PES 4017, Takaki-cho, Kasugsi, Aichi, Japan http://kdk.jp

Actual colors may vary slighty from those shown.
 Specifications are subject to change without prior notice.

CATALOG NO: K-AMCA011



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About KDK

KDK was founded in 1909, with more than a century old history. By making a commitment to our business philosophy, we strive toward contributing to society through our air and wind technologies.

With the aims of offering the premium product and solution through good distributions and services, we will continue to maintain a leading position in the industry by utilizing advantages of our core competencies. With innovative technology and value-added approach, we are committed to make a reliable and quality product with excellent design and high safety standard in meeting the expectations of our customers all over the world.



- IFCO was renamed as Matsushita Seiko Hong Kong International Manufacturing co., Ltd [HIMCO]
- Set up Shunde Matsushita Seiko Co., Ltd [SHUMCO] in China. It was renamed as Guangdong Matsushita Seiko Co., Ltd. [GDMESC] in 2003 and further changed to PESGD in 2006
- Established Beijing Great Wall Matsushita Seiko Air Conditioning Equipment Co., Ltd. [BGMAC]
- Matsushita Seiko Co. Ltd. was renamed as Matsushita Ecology Systems Co., Ltd.

• Further expanded a brand-new product line of water pump for better living environment

• PEWVN (Panasonic Electric Works Vietnam Co. Ltd.) was set up in Vietnam

Market Map

For a century, KDK has established its business in various countries, building its reputation and brand value in the minds of its customers. Moving forward, in addition to continuous development in existing markets, we will explore new business in potential markets throughout other fast-growing regions.



Distributor List

Country	Distributor
Iraq	Al Khait Alabydh Co
Jordan	Mohammad M Juma & Sons Co.
Kuwait	Salem M. Al-Nisf Electrical Co. W.L.L.
Oman	Mohsin Haider Darwish L.L.C.
Qatar	United Cooperation General Trading L.L.C.
Saudi Arabia	Abdulaziz & Sulaiman Saleh Al-Hakbany Sons Trading Co
	Haitham Est. for Trading
United Arab Emirates	Electra Abu Dhabi L.L.C.
	Electra Dubai
Yemen	Al Haj Mohamed Ali Sowaid & Sons
Nigeria	Polysonic Nigeria Ltd.
Sudan	Central Advanced Digitech Co.
Tanzania	Multi Cable Ltd.

Product Certification

To ensure safety, KDK products are designed and manufactured according to either the standards of JIS (Japan Industrial Standard) or IEC (International Electrotechnical Commission). Test certificates are awarded by recognized test laboratories that further prove the reliability of our products.



Beside the international standard of JIS and IEC, different safety certifications are also acquired to fulfill the requirement in different countries.



Certification Acquired

Furthermore, the performance of Panasonic products are qualified by external authority.

AMCA Mark, USA

AMCA (Air Movement And Control Association International. Inc.) of The United States for ventilation products

CB Test Certificate

CB Test Certificate is issued to products in compliance with the applicable requirement of IEC standard under CB Scheme (Certification Bodies' Scheme) set by IEC.

2024 Product Highlight

KDK Ventilation Fans

Empowering Every Moment Around the Clock. Bringing 24-Hour Comfort, 365 Days of Fresh Air Excellence.



Constant Performance by Intelligent Technology





Motor Type	DC Motor Model	AC Motor Mode
Model	24JRB	24CUH
Static Pressure [Pa]	0	0
Air Volume [m ³ /h]	160	140
Power Consumption at 0 Pa [W]	7	13.5
Energy Efficiency [m ³ /h / Watt]	22.9	10.3

Power consumption comparison between DC motor series and non-DC motor series Note: Values measured at 220V 60Hz.



High Air Volume Ceiling Mount Type Ventilation Fan





KDK Thermo Ventilator





Air Supply Air Exhaust

IAQ

INDOOR AIR QUALITY

Air Circulation 3 core KDK solutions to enhance indoor air quality



- Energy Recovery Ventilator



*1 "Air and Humans - From a Physiological Viewpoint" (1999) by UCHIYAMA Iwao (National Institute of Public Health of Japan)

*2 "Heat Stroke Environmental Health Manual (2009)" from the Ministry of the Environment, Government of Japan

*3 "Basic Data Sheet of Agriculture, Forestry, and Fisheries, Statistics Regarding The Food Self-Sufficiency Rate" from Ministry of Agriculture, Forestry and Fisheries of Japan

Redefining Your Indoor Environment

Installation Simulation (2-storey villa as example)



Product	Series		Model	DC Motor	Super Low Noise Level	Fire Resistant	Voltage/ Frequency	Air Volume [CFM]	Consumption [W]	RPM	Page
	D		04/22				220V/60Hz	88	10	853	022
	C Mot	$\langle \rangle$	24JRB	\checkmark	-	-	240V/50Hz	88	10	853	023
	or Ser						220V/60Hz	88	10	839	
	ies		24JAB	\checkmark	-	-	240V/50Hz	88	10	839	024
							220V/60Hz	44	10	664	
			17CUH	-	~	-	240V/50Hz	51	10	728	025
			0401111				220V/60Hz	83	13	585	
			24CUH	- 🗸		-	240V/50Hz	89	13	614	
			24CDH	-	~	-	240V/50Hz	106	17	782	026
	Super		240111				220V/60Hz	109	22	791	
	Quiet		24000	-	~	-	240V/50Hz	117	21	861	
	Series		240.24	_		_	220V/60Hz	150	29	950	027
Ceilii	0		240.70		•		240V/50Hz	147	29	940	027
ng Mount Tyj							220V/60Hz	182	33	570	000
			27000	-	~	-	240V/50Hz	198	37	609	028
			22004				220V/60Hz	226	48	580	029
pe V			320DH	-	~	-	240V/50Hz	257	56	675	020
entil			38000/				220V/60Hz	344	98	626	
latio			30000/	-	-	-	240V/50Hz	387	30	737	030
n Fa			38CDG 05	-	-	-	240V/50Hz	387	118	737	
5					-		220V/50H (Hi)	471	122	790	
	Stand						220V/50H (Lo)	309	89	540	
	lard S						220V/60Hz (Hi)	465	138	760	
	eries		200110			_	220V/60Hz (Lo)	294	90	509	021
			38CHG	-	-	-	230V/50Hz (Hi)	471	122	775	031
							230V/50Hz (Lo)	277	84	485	
							240V/50Hz (Hi)	491	132	807	
							240V/50Hz (Lo)	288	90	50	
			0.400.4144			1	220V/60Hz	55	13	495	
	_		24CMUA	-	-	~	240V/50Hz	55	14	562	020
	Vietal (04004114			1	220V/60Hz	94	25	681	032
	Series		24CMHA	-	-	~	240V/50Hz	108	27	753	
			0701414			1	220V/60Hz	208	46	615	000
			27CMHA	-	-	~	240V/50Hz	240	46	669	033

	Product	Series		Model	Silent Stream Fan	Auto Shutter	Louver	Voltage/ Frequency	Air Volume [CFM]	Consumption [W]	RPM	Page												
				20ASB	_		_	220V/60Hz	330	25.5	1,358													
				20,000		•		240V/50Hz	296	22.4	1,252													
				20ASB 05	-	\checkmark	-	240V/50Hz	296	22.4	1,252													
		Metall		25ASB	-	~	-	220V/60Hz	522	35.5	1,277													
		ic Serie	1			·		240V/50Hz	486	35.1	1,194	037												
		ŭ		25ASB 05	-	\checkmark	-	240V/50Hz	486	35.1	1,194													
				304SB	_			220V/60Hz	637	39.8	1,088													
						•		240V/50Hz	706	38.1	1,175													
				30ASB 05	-	~	-	240V/50Hz	706	38.1	1,175													
Wall Mour	R	154404	_			220V/60Hz	157	20.6	1,533	038														
		100	10/1/10/1		×		240V/50Hz	154	20.1	1,453	000													
	int Ty			204114				220V/60Hz	370	23.5	1,430													
	pe Ve				•	•		240V/50Hz	339	23	1,303													
	ntilati		3	254114				220V/60Hz	542	33.2	1,387	030												
	ion Fa			C I												20/10/1	•	•		240V/50Hz	542	31	1,262	000
	'n	A									30AUA			_	220V/60Hz	655	35.3	938						
		utomati		00/10/1	· ·	•		240V/50Hz	696	34.8	964													
		c Shutte		_										20AUH	-	\checkmark	-	220V/60Hz	355	32.4	1,410			
		r Series		25AUH	-	\checkmark	-	220V/60Hz	514	37.8	1,200	040												
				30AUH 11	-	\checkmark	-	220V/60Hz	572	37.0	866													
			20AI A				220V/60Hz	334	23.5	1,398														
			20/12/1	•	•	•	240V/50Hz	301	23	1,278														
				25ALA	1			220V/60Hz	471	33.2	1,224	041												
				25ALA	•	✓	•	240V/50Hz	482	32.1	1,217	••••												
				30ALA	\checkmark	~		220V/60Hz	510	35.3	876	-												
			30ALA		30ALA	30ALA	30ALA	30ALA	30ALA	30ALA	30ALA	30ALA	30ALA	30ALA	30ALA	Ť	Ť		240V/50Hz	572	35.3	896		

Product	Series		Model	Silent Stream Fan	Auto Shutter	Louver	Voltage/ Frequency	Air Volume [CFM]	Consumption [W]	Page		
							220V/50Hz	45	15			
	Plastic		10BAQ1	_	_	~	220V/60Hz	43	17	043		
	Series						230V/50Hz	47	16			
							240V/50Hz	50	17.5			
				-			220V/50Hz	45	4.3			
			10EGKB		-	~	230V/50Hz	45	4.6			
Wall	Wall Mo	§ 1					240V/50Hz	45	5.0	045		
Mount Ty				-			220V/50Hz	95	5.7	040		
ype Ven			15EGKB		-	~	230V/50Hz	97	6.1			
tilation	Bathroc						240V/50Hz	97	6.5			
Fan	om Series								220V/50Hz	45	4.3	
			10FGSB	_		~	220V/60Hz	51	4.7			
							230V/50Hz	45	4.6			
							240V/50Hz	45	5.0	046		
							220V/50Hz	91	5.7			
			15EGSB	-	-	~	220V/60Hz	106	6.1			
			15EGSB	3 -		*	230V/50Hz	94	6.1	_		
							240V/50Hz	97	6.5			

Product	Series		Model	Electrically Operated Shutter	Auto Shutter	Cord-operated Shutter	Voltage/ Frequency	Air Volume [CFM]	Consumption [W]	RPM	Page			
			15WHCT		_	_	220V/60Hz	127	14.6	2,440				
	Electric Shut		ISWHOT	•	-	-	240V/50Hz	127	16	2,537	050			
	ter Series		20/04/07	~	-		220V/60Hz	250	24.4	1,517				
			20001				240V/50Hz	230	23.4	1,333				
Window Mount Type V			15WAA/	-			220V/60Hz	124	19.6	2,021				
	Automatic Shutter Series		15WAAMN		*	-	240V/50Hz	127	18.2	2,062	050			
entilation F				20WAA/				220V/60Hz	250	18.4	1,385	052		
an			20WAAMN	-	~	-	240V/50Hz	230	18.6	1,375	•			
			15WUD/				220V/60Hz	105	9.7	1,425				
	Cord-operated S		15WUDMN	-	-	~	240V/50Hz	124	10.3	1,722	054			
	hutter Series		20WUD/			,	220V/60Hz	188	19.2	980	054			
			2	:	:	2	2		20WUD/ 20WUDMN	-	- 🗸 -	240V/50Hz	221	18.5

Product	Series		Model	Reversible	Durable Powder Coating	Shutter	Metal Large Blade Assembly	Voltage/ Frequency	Air Volume [CFM]	Consumption [W]	RPM	Page	
					J			220V/	1,105	47	1,230 - 1,370		
								50Hz					
	Shu							230V/	1,130	52	1,250 - 1,390		
	utter	24	40KAQA	_	1	1		50Hz				056	
	Ser		10101001		Ť	Ť	•	240V/	1,155	59	1.270 - 1.410		
	ies							50Hz	.,		.,		
								230V/	1.254	67	1.400 - 1.540		
								60Hz	.,		.,		
								220V/	788	61	1.570		
			25GSF		1	Optional	-	60Hz			,		
			20002	· ·	Ť	optional		240V/	701	48	1.400		
								50Hz		-	,		
								220V/	1.308	129	1.460		
		160	30GSE			Optional	-	60Hz	.,		.,	057	
			00002	•	Ť	optional		240V/	1.177	106	1.315		
								50Hz	.,		.,		
								220V/	1 850	178	1 640		
			35GSE			Ontional	_	60Hz	1,000		1,010		
=			OUCOL	•	•	optional		240V/	1 615	130	1 435		
ן שר								50Hz	1,010	100	1,100		
lst								220V/	2 677	294	1 550		
rial Venti		5-1	40GSE			Ontional	_	60Hz	2,011	204	1,000	058	
			TOOOL	•	•	optional		240V/	2 135	164	1 440		
								50Hz	_,		.,		
ati								220V/	3.278	346	1.563		
9	High	High Pre		45GSC			Optional	-	60Hz	0,210	0.0	.,	
Fa	Pre				45GSC	√	~	Optional	al –	240V/	2.854	277	1.430
5	SSU							50Hz	_,		.,		
	re s							220V/	3.884	347	1.080		
	eries	555	50GSC		1	Optional	-	60Hz	-,		.,	059	
		29		· ·	Ť	optional		240V/	3.354	293	968		
								50Hz	-,				
								220V/	5.038	384	1.088		
			60GSC		1	Optional	-	60Hz	-,		,		
				Ť	Ť	optional		240V/	4,402	289	980		
								50Hz					
								220V/	3,249	220	1,450		
			45GTC	1	~	Optional	-	50Hz					
								220V/	3,779	330	1,690		
								60Hz					
								220V/	4,097	320	1,400		
		5-2)	50GTC	\checkmark	\checkmark	Optional	-	50Hz				060	
								220V/	4,715	475	1,590		
								60Hz					
								220V/	5,544	310	940		
		60GT	60GTC	✓	✓ 0	Optional	onal -	50Hz			940	_	
			60GTC					220V/	6,427	450	1,070		
								60Hz					

Product	Series		Model	Twin Flow Fan	Noise Absorption Material	Single Phase	Three Phase	Voltage/ Frequency	Air Volume [CFM]	Consumption [W]	RPM	Page		
			401100		,			220V/ 60Hz	114	26	1,460			
			12NSB	~	~	~	-	240V/ 50Hz	102	27	1,342	065		
			45100					220V/ 60Hz	200	45	1,520			
			12M2R	~	~	~	-	240V/ 50Hz	193	47	1,373			
			40100		,			220V/ 60Hz	274	80	1,470			
			18028	~	~	~	-	240V/ 50Hz	281	84	1,342	066		
				/	,			220V/ 60Hz	417	128	1,420			
	Standa		18NFB	~	~	~	-	240V/ 50Hz	429	135	1,327			
Cabinet Fa	rd Series		00100		,			220V/ 60Hz	469	170	1,380			
			201028	~	~	~	-	240V/ 50Hz	517	175	1,328	067		
				/		/		220V/ 60Hz	655	350	1,400			
5			ZOINLD	~	*	*	-	240V/ 50Hz	688	347	1,342			
					25NOD					220V/ 60Hz	940	460	1,380	
			201100	~	~	1	-	240V/ 50Hz	963	481	1,305	068		
					1			220V/ 60Hz	1,016	680	1,420			
			ZOINED	~	~	*	-	240V/ 50Hz	1,057	537	1,330			
			258\MC		1			380V/ 50Hz	2,354	940	1,375			
	Ŧ		20000	v	*	-	v	380V/ 60Hz	2,648	1,450	1,530	069		
	ree Phas		25SMC					380V/ 50Hz	3,060	1,180	1,345			
	e Series		2001010	~	*	-	~	380V/ 60Hz	3,237	1,750	1,470			
			ő	۰۰ ۱		2011/0					380V/ 50Hz	1,530	600	1,295
			ZOIVAU	¥	*	-	¥	380V/ 60Hz	1,560	840	1,380	510		

Product	Model	Single Phase	Adjustable Outlet Direction	Page
	10CGB	~	~	
	12CGB	\checkmark	\checkmark	
Mini S	14CGB	~	~	070
sirocco Fan	16CGB	\checkmark	~	073
	17CGB	~	~	-
	19CGB	~	\checkmark	
	21CGB	✓	~	

Product		Model	Counter-flow Heat-exchange	Bypass Ventilation	Interlock with Air Conditioning	Voltage/ Frequenc	Direction	RPM	Page		
Ene			/	/		220\//60Ц-	OA-SA	1,448			
rgy Recovery Ventilator	0		•	v	*	2200/0002	RA-EA	1,378	085		
			~	~	~	220V/60Hz	OA-SA	1,425			
		E35DZUA					RA-EA	1,402	086		
			FEC	EEODZIIA	/			220\//60H-	OA-SA	1,501	
		E50DZUA	×	×	×	2200/0002	RA-EA	1,452	087		

Product	Model	Ventilation	Circulation	Heating	Clothes Drying	Voltage/	Air Volume		Page
Troduct	model	Ventilation	onculation	nearing	olotiles brying	Frequency	[CMH]	[CFM]	
Thermo Ventilator	30BUC	\checkmark	~	~	~	220V/60Hz	160	94	091

Product	Turin Mater Caries	Model	2-speed Selection	on Slim Design	Voltage/	Air Volume		DDM	Page
Froduct	I win wotor Series	Woder	2-speed Selection	Siini Design	Frequency	[CMH]	[CFM]	KFIVI	Fage
					220V/50Hz (Hi)	785	462	993	
Range		90HQUA	~	1	220V/50Hz (Lo)	484	285	570	
nge	tioner U				220V/60Hz (Hi)	779	459	905	005
Ноо					220V/60Hz (Lo)	464	273	594	095
0					240V/50Hz (Hi)	775	456	911	
					240V/50Hz (Lo)	523	308	-	

Product	Standard Series	Model	Quick Response Sensor	Lamp Super alleru-buster Filter	ON/OFF Switch for Heater	Safety Check Indicator	Voltage/ Frequency	Air Velocity [m/s]	Page
							220V/50Hz	90 - 110	
	-	TODAC	/		/		220V/60Hz	90 - 110	
		TUSAC	~	~	~	~	230V/50Hz	90 - 110	
and							230V/60Hz	90 - 110	000
Dry							220V/50Hz	90 - 110	099
Pr	Тоэвс	TOODO	,			,	220V/60Hz	90 - 110	
		109BC	~	~	~	~	230V/50Hz	90 - 110	
							230V/60Hz	90 - 110	

Product	Туре	Series	Model	Cross Flow Fan	Sirocco Fan	Meta Blade Bush	Air Deflection Plate	2-speed Selection	Remote Control	Door Contact Sensor	Push Button Switch	Page
			3009GA	\checkmark	-	~	\checkmark	\checkmark	\checkmark	-	-	
		_	4009GA	~	-	~	~	\checkmark	\checkmark	-	-	
		Remote	3012GA	~	-	~	~	~	\checkmark	-	-	103
		Control	4012GA	~	-	~	\checkmark	\checkmark	\checkmark	-	-	105
		Series	3015GA	~	-	~	~	~	\checkmark	-	-	
			4015GA	~	-	~	~	~	\checkmark	-	-	
			3009DA	~	-	~	~	~	-	\checkmark	-	
			4009DA	~	-	~	~	~	-	\checkmark	-	
	Cross	Sen	 3012DA	~	-	~	\checkmark	\checkmark	-	\checkmark	-	104
	S Flow T	sor Seri	4012DA	~	-	~	\checkmark	\checkmark	-	~	-	
	ype	es	3015DA	\checkmark	-	~	\checkmark	\checkmark	-	\checkmark	-	
<u>Þ</u> i			4015DA	~	-	~	\checkmark	\checkmark	-	\checkmark	-	
r Curt			3009UA	\checkmark	-	\checkmark	\checkmark	\checkmark	-	-	\checkmark	
aina		S	4009UA	\checkmark	-	~	\checkmark	\checkmark	-	-	\checkmark	
		tandard	3012UA	\checkmark	-	\checkmark	\checkmark	\checkmark	-	-	\checkmark	105
		I Series	4012UA	\checkmark	-	~	\checkmark	\checkmark	-	-	\checkmark	
			3015UA	~	-	~	\checkmark	\checkmark	-	-	\checkmark	
			4015UA	\checkmark	-	~	\checkmark	\checkmark	-	-	\checkmark	
			08ESK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	
		900 S	10ESK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	107
		eries	12ESK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	
	Sirocco		14ESK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	
	о Туре		08ELK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	
		1200 \$	10ELK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	108
		Series	 12ELK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	
			14ELK	-	\checkmark	-	\checkmark	\checkmark	-	-	\checkmark	

Product	Series		Model	Remote Control	Regulator Control	Pull Switch	3-speed Selection	5-speed Selection	OFF Timer	Metal Blades	360° Oscillation	Page
	Remote Control Seriesa	\times	U56PR	~	-	-	~	-	~	~	-	111
			T48XC	-	~	-	-	~	-	~	-	112
Cel			T56XC	-	~	-	-	~	-	~	-	112
ling Fan			T48XG	-	~	-	-	~	-	~	-	112
	Regulator Co	6	T56XG	-	~	-	-	~	-	~	-	113
	ontrol Series	,	X48XC	-	~	-	-	~	-	~	-	11/
		, a	X56XC	-	~	-	-	~	-	~	-	
			X48XG	-	~	-	-	~	-	~	-	115
			X56XG	-	~	-	-	~	-	~	-	113
	Orbital Fan		M40R	-	~	-	-	~	-	~	~	116
Ele			M30C	-	-	~	~	-	-	-	-	117
ctric Fan	Wall	a	M40C	-	-	~	~	-	-	~	-	
	Fan		M40M	~	-	-	~	-	~	-	-	118
			YU50X	-	-	\checkmark	~	-	~	~	-	119

Ceiling Mount Type Ventilation Fan

Frame Assembly Taper Blade Integrated Casing and Orifice Louver





DC Motor Series

Usage: Bathroom

24JRB





- DC (Direct Current) motor
- Auto operation by motion sensor
- Constant airflow
- Automated air volume adjustment
- Delay timer (15 minutes)
- Resonance-Noise-Absorption Structure
- Motor insulation Class E
- IP protection: IPX2

Specification





Living Room / Corridor / Office / Retail Store

KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan – DC Motor Series shown here in are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Dimension

Unit : mm

Madal	Voltage	Voltage F	Frequency	Frequency	Frequency	Frequency	Owend		CFM / S	SONE AT	STATIC I	Pressure	(ps-inche	es of H ₂ O)	DDM	Watts*	Watts**
wodei	[V]	[Hz]	Speed	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.625	RPM	FOR AMCA	FOR IEC				
	220	60	ы	CFM	88	88	88	88	63	34	5							
24 IRB	220	00		Sones	0.7	1.0	1.0	1.3	1.7	1.8	3.1	853	10	8				
ZHUILD	240	50	ш;	CFM	88	88	88	88	63	34	5	000	10	0				
	240	50		Sones	0.7	1.0	1.0	1.3	1.7	1.8	3.1							

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O.

** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Installation Example



Wiring Diagram



DC Motor Series

Usage	e: Ba	athroom		Toile	et		Li
24J	AB						
24-	Hour V	entilatio	n)			
Duct	Туре	Ø100mm					
		•					
DC (D	irect Cur	rent) moto	or				
 Autom 	nated air	volume ad	djustme	ent			
 Delay 	timer (15	5 minutes)	2				
Resor	ance-No	oise-Abso	rption	Structu	ire		
 Motor IP pro 	insulation: I	n Class E PX2					
Specifica	ation						
Model	Voltage	Frequency	Speed	Inches	CFM	/ SONE A	T ST
	[V]	[Hz]		of H ₂ O	0	0.1	0.12
	220	60	Hi	Sones	88 0.6	88 0.9	1.0
24 IAB							

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

88

1.0

88

0.9

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

88

0.6

CFM

Sones

Hi

Installation Example

240

50





ring Room / Corridor / Office / Retail Store





KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan – DC Motor Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 211 and Certified Ratings Program.



Dimension

Unit : mm

10	C Pressu	re (ps-inc	hes of H	₂ O)	DDM	Watts*	Watts**
	0.25	0.375	0.5	0.625	RPIN	FOR AMCA	FOR IEC
	88	63	34	5			
	1.4	1.6	1.9	3.2	830	10	0
	88	63	34	5	039	10	0
	1.4	1.6	1.9	3.2			

Wiring Diagram



Ceiling Mount Type Ventilation Fan

Super Quiet Series

Toilet

Usage: Bathroom

17CUH





Living Room / Corridor / Office / Retail Store

Dimension Linit . m

							Office . Initia
А	В	С	D	E	F	G	Duct Size
214	194	84	164	170	240	20	Ø100



- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Effective control of air turbulence with taper blade
- Curve-shaped backdraft shutter
- Super low noise
- Motor insulation Class B
- IP protection: IPX2

Panasonic Electric Works Vietnam Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan - Super Quiet Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures 回於為回 performed in accordance with M AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of 30 the AMCA Certified Ratings Program.



Specification

Model Voltage		Frequency		CFM / SONE AT ST	es of H ₂ O)	RPM	Watts*	Watts**	
woder	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	RPIN	FOR AMCA	FOR IEC
	220	60	CFM	44	32	29	664	10	10
17CUH	220	00	Sones	0.3	0.5	0.6	004	10	10
noon	240	50	CFM	51	43	40	729	10	0.5
	240	50	Sones	0.3	0.4	0.5	120	10	9.0

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels

* the Watts rating is for AMCA test method and it is at the static pressure of 0 inch of H₂O.

** the Watts rating is only for IEC test method and the AMCA Certified Rating Seal does not apply to IEC test method watts.

Installation Example



Wiring Diagram



Super Quiet Series

Usage: Bathroom Toilet

24CUH / 24CDH / 24CHH





- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Effective control of air turbulence with taper blade
- Curve-shaped backdraft shutter
- Super low noise
- Motor insulation Class B
- IP protection: IPX2

Specification

Madal	Voltage	Frequency	CFM / SONE AT STATIC Pr						
woder	[V]	[Hz]	Inches of H ₂ O	0	0.1				
	220	60	CFM	83	73				
0.401.01	220	00	Sones	0.4	0.5				
24CUH	240	50	CFM	89	77				
	240	50	Sones	0.5	0.7				
0.40 DU	240	50	CFM	106	93				
24CDH	240	50	Sones	0.9	0.9				
	220	60	CFM	109	99				
0.401.01	220	00	Sones	1.0	0.9				
24CHH	4CHH		CFM	117	109				
	240	50	Sones	1.2	1.2				

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is for AMCA test method and it is at the static pressure of 0 inch of H_2O . ** the Watts rating is only for IEC test method and the AMCA Certified Rating Seal does not apply to IEC test method watts.

Installation Example





Living Room / Corridor / Office / Retail Store

Dimension

Unit : mm

SOUND

All

А	В	С	D	E	F	G	Duct Size
278	255	140	175	233	300	13	Ø100



Panasonic Electric Works Vietnam Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan - Super Quiet Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based

on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



1

30



Super Quiet Series

Toilet

Usage: Bathroom

24CXH





Living Room / Corridor / Office / Retail Store

						Din	nension Unit : mm
А	В	С	D	E	F	G	Duct Size
278	255	140	175	233	300	13	Ø100



- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Effective control of air turbulence with taper blade
- Curve-shaped backdraft shutter
- Super low noise
- Motor insulation Class B
- IP protection: IPX2

Panasonic Electric Works Vietnam Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan - Super Quiet Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Specification

Madal	Voltage	Frequency	С	FM / SONE A	T STATIC Pr	essure (ps-ir	ches of H ₂ O)	DDM	Watts*	Watts**
wodei	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	RPM	FOR AMCA	FOR IEC
	220	60	CFM	140	128	125	106	78	988	31	29
24CXH	220	00	Sones	1.8	2.2	2.2	2.6	2.8	300	51	23
240/11	240	50	CFM	137	122	117	86	32	08/	31	20
	240	50	Sones	2.2	2.2	2.3	2.2	2.9	304	51	23

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is for AMCA test method and it is at the static pressure of 0 inch of H_2O .

** the Watts rating is only for IEC test method and the AMCA Certified Rating Seal does not apply to IEC test method watts.

Installation Example



Wiring Diagram



Super Quiet Series



- 2 speed selectable
- Motor insulation Class E
- IP protection: IPX2

Specification

Madal	Voltage	Frequency	Croad		CFM / S	SONE AT S	STATIC Pre	essure (ps	-inches of	H ₂ O)	DDM	Watts*	Watts**
WOUEI	[V]	[Hz]	Speed	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	RPIN	FOR AMCA	FOR IEC
	220	60	ш;	CFM	182	162	156	118	78	37	570	22	22
0701111	220	00	пі	Sones	1.1	1.2	1.3	1.7	2.2	2.5	570		- 33
27088	240	50	ш;	CFM	198	179	172	126	78	18	600	27	24
	240	50		Sones	1.4	1.5	1.6	1.8	2.3	2.5	009	57	54

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels

* the Watts rating is for AMCA test method and it is at the static pressure of 0 inch of H_2O . ** the Watts rating is only for IEC test method and the AMCA Certified Rating Seal does not apply to IEC test method watts.

Installation Example





Living Room / Corridor / Office / Retail Store





KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan – Super Quiet Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Dimension Unit : mm



Super Quiet Series

Toilet

Usage: Bathroom

32CDH





- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Effective control of air turbulence with taper blade
- Curve-shaped backdraft shutter
- Super low noise
- Motor insulation Class E
- IP protection: IPX2



Living Room / Corridor / Office / Retail Store

KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan – Super Quiet Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Specification

Medel	Voltage	Frequency			CFM / SC	ONE AT S	STATIC P	ressure	(ps-inche	es of H ₂ O)	DDM	Watts*	Watts**
woder	[V]	[Hz]	Speed	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.625	RPIN	FOR AMCA	FOR IEC
	220	60	ы	CFM	226	202	196	163	127	91	53	580	48	48
000011	220	00		Sones	1.2	1.3	1.4	1.7	2.2	2.7	3.3	500	40	40
32CDH	240	50	ш;	CFM	257	236	230	192	147	99	53	675	56	50
	240	50		Sones	1.6	1.7	1.8	1.9	2.5	3.0	3.6	075	50	50

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is for AMCA test method and it is at the static pressure of 0 inch of H₂O.

** the Watts rating is only for IEC test method and the AMCA Certified Rating Seal does not apply to IEC test method watts.

Installation Example



Wiring Diagram



Standard Series

Usage: Bathroom Toilet

38CDG / 38CDG 05





- High-Low speed selectable
- Condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- High performance sirocco fan
- Motor insulation Class E

Specification

	Voltage	Frequency	Created		CFM	/ SONE	AT ST	ATIC Pi	essure	(ps-ind	ches of	H ₂ O)			Watts*	Watts**
Model	[V]	[Hz]	Speed	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.625	0.75	0.875	RPM	FOR AMCA	FOR IEC
28000	220	60	ц;	CFM	344	323	317	290	261	230	197	163	126	626	08	0.9
30000	220	00		Sones	3.1	3.2	3.2	3.3	3.6	4.1	4.5	5.7	5.7	020	90	90
38CDG 05	240	50	ц;	CFM	387	367	362	336	305	259	212	165	108	727	110	104
38CDG	240	50		Sones	4.0	4.1	4.2	4.3	4.4	4.7	5.3	5.7	6.2	131	110	104

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H2O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Installation Example





Living Room / Corridor / Office / Retail Store



KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan – Standard Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.





Toilet

Usage: Bathroom

38CHG

24-Hour	Ventilation
Duct Type	Ø150mm



- Condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Effective control of air turbulence with taper blade
- Reverse flow prevention shutter
- 2 speed selectable
- Motor insulation Class E
- IP protection: IPX2

Specification

Medel	Voltage	Frequency		Air Vo	olume	Consumption	DDM	Noise	Weight	Installation Space	Duct Size
woder	[V]	[Hz]		[CMH]	[CFM]	[W]	RPIN	[dB(A)]	[kg]	[mm]	[mm]
			Hi	800	471	122	790	49.5			
	220	50	Lo	525	309	89	540	39.5			
	220	00	Hi	790	465	138	760	49			
28040		60	Lo	500	294	90	509	39	10.4	205 205	Ø150
300110			Hi	800	471	122	775	49	10.4	385 X 385	0150
	230	50	Lo	470	277	84	485	37			
		50	Hi	835	491	132	807	50			
	240	50	10	490	288	90	504	38			

Note: RPM data is for reference only, values may vary subject to different conditions

Test Condition - Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa

- The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 to -7 dB tolerance

- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side

- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Installation Example



Wiring Diagram



Living Room / Corridor / Office / Retail Store

INSTALLATION HOLE 7-5x9.5

CORD OUTLET

TT 450

255

Dimension

Unit : mm

Metal Series

Usage: Bathroom Toilet

24CMUA / 24CMHA





- All-metal structure design
- Well-lubricated ball bearing for long life operation
- Metallic components to improve fire resistance
- Reverse flow prevention shutter
- Motor insulation Class E
- IP protection: IPX2

Specification

Fire

	Voltage	Frequency	CFM /	SONE AT	STATIC I	Pressure (ps-inches	of H ₂ O)		Watts*	Watts**
Model	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	RPM	FOR AMCA	FOR IEC
	220	60	CFM	55	40	37	20	-	405	10	10
04004114	220	00	Sones	0.3	0.7	0.8	1.6		495	15	12
24CMUA	240	50	CFM	55	44	41	24	-	560	14	10
	240	50	Sones	0.3	0.8	1.0	1.4		202	14	13
	220	60	CFM	94	85	83	72	54	604	05	22
0.4014114	220	60	Sones	1.0	1.4	1.5	1.9	2.3	001	25	23
24CMHA	0.40	50	CFM	108	98	95	77	44	750	07	05
	240	50	Sones	1.4	1.8	1.9	2.1	2.2	/53	27	25

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Installation Example





Living Room / Corridor / Office / Retail Store

Dimension Unit : mm





KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan – Metal Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.





Metal Series

Usage: Bathroom

27CMHA





- All-metal structure design
- Well-lubricated ball bearing for long life operation
- Metallic components within air stream provides extra safety against fire
- Reverse flow prevention shutter
- Motor insulation Class E
- IP protection: IPX2

Specification





KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Ceiling Mount Type Ventilation Fan – Metal Series shown herein are licensed to bear the AMCA Seal. The retiance shown are beard on tests and ratings shown are based on tests and procedures performed in accordance procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Medel	Voltage	Frequency		CFM / SO	NE AT ST	ATIC Press	sure (ps-in	ches of H	, O)			
woder	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	RPM	Watts*	Watts**
	220	60	CFM	208	184	178	144	108	79	615	46	43
0701444	220	00	Sones	1.6	1.7	1.7	2.3	3.2	3.5	010	40	-10
27CMHA	240	50	CFM	219	194	188	150	110	70	669	46	43
	240	50	Sones	1.9	1.9	2.0	2.4	3.4	3.1	000	10	10

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O.
 ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Installation Example



Wiring Diagram





Living Room / Corridor / Office / Retail Store

Dimension Unit : mm

Wall Mount Type Ventilation Fan



Features

Smart Design

The new flat design creates a feeling of floating upon installation on wall. Meanwhile, slim louver is designed for the louver series. Such minimalistic elements integrate seamlessly with the interior space.

> Only applicable for model 20AUA/25AUA/30AUA 20ALA/25ALA/30ALA



Thermal Fuse Equipped

All motors are equipped with thermal fuses which would stop when they are overheated. It can prevent further temperature rise and minimize the risk of fire hazard.



Only applicable for model:

Silent Stream Fan

optimizes the blade shape.

20AUA/25AUA/30AUA 20ALA/25ALA/30ALA



New Blade design adopts an increased blade size and airfoil curve optimization. It can increase the air volume by the adjusted blade shape which can match the airflow. Furthermore, it can lower the noise by evening the airflow velocity with the silent wing.

*Features above are only applicable to some of the models

036



Half Pitch Motor & Bearing

All models adopt half pitch capacitor induction motor and long life bearing that prolongs the product durability, with average 30,000 hours life. They also enable energy saving by reducing power consumption down to average 13%.

New Blade design applies advanced aerodynamic principle that

3D Sickle Blade

Metallic Series

Usage: Bathroom

Office / Retail Store

Model

20ASB / 25ASB / 30ASB 20ASB 05 / 25ASB 05 / 30ASB 05

Toilet

Metallic Structure





В

С

D

50 D

Α

KDK Company, Division of PES and

ratings shown are based on tests and

procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the

Wall Mount Type Ventilation Fan -

Metallic Series shown herein are licensed to bear the AMCA Seal. The

procedures performed in accordance with AMCA Publication 211 and AMCA

Ratings Program.

Dimension

Unit : mm

SOUND

E F

- Condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- High performance propeller fan adopted
- Automatic shutter
- Powder painted metallic orifice, blade and oil cup
- Detachable oil cup
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Madal	Voltage	Frequency	CFM / SONE	AT STATIC Pre	ssure (ps-inche	es of H ₂ O)		Watts*	Watts**
wodei	[V]	[Hz]	Inches of H ₂ O	0	0.025	0.05	RPM	FOR AMCA	FOR IEC
204 68	220	60	CFM Sones	330 1.7	259 1.9	183 3.9	1,358	25.5	21.5
20456	240	50	CFM Sones	296 1.5	198 1.7	151 3.2	1,252	22.4	19.5
20ASB 05	240	50	CFM Sones	296 1.5	198 1.7	151 3.2	1,252	22.4	19.5
254 SB	220	60	CFM Sones	522 1.9	414 1.6	240 2.2	1,277	35.5	30.5
23436	240	50	CFM Sones	486 2.0	434 2.0	314 2.4	1,194	35.1	29.5
25ASB 05	240	50	CFM Sones	486 2.0	434 2.0	314 2.4	1,194	35.1	29.5
304 SB	220	60	CFM Sones	637 2.0	400 2.7	85 2.2	1,088	39.8	34.5
30700	240	50	CFM Sones	706 2.9	620 2.3	498 2.2	1,175	38.1	34
30ASB 05	240	50	CFM Sones	706 2.9	620 2.3	498 2.2	1,175	38.1	34

Performance certified is for installation type A: Free inlet, Free outlet with partition.Performance ratings include the effects of a backdraft damper. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H2O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.

*the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O.

**the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.



Automatic Shutter Series

Usage: Bathroom Toilet

15AAQ1





- · Condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- High performance propeller fan adopted
- Automatic shutter with plastic cushions
- Orifice equipped with oil cup
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	CFM/SONE AT	STATIC Pres	ssure (ps-incl	hes of H ₂ O)	PPM	Watts*	Watts**
model	[V]	[Hz]	inches of $H_2^{}O$	0	0.025	0.05		FOR AMCA	FOR IEC
154401	220	60	CFM Sones	157 2.5	122 1.9	65 2.3	1,533	20.6	19
10/1/10/1	240	50	CFM Sones	154 1.7	120 1.4	63 2.1	1,453	20.1	19

Performance certified is for installation type A: Free inlet, Free outlet with partition.Performance ratings include the effects of a backdraft damper. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H2O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels

*the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. **the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.



Office / Retail Store

Dimension Unit : mm



KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certifies that the Wall Mount Type Ventilation Fan -Automatic Shutter Series shown hereir are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.





Automatic Shutter Series

Usage: Bathroom

Office / Retail Store

Model

20AUA

25AUA

30AUA

А

223

20AUA

Panasonic Electric Works Vietnam Co.,

the AMCA Seal. The ratings shown are

performed in accordance with AMCA

Publication 211 and AMCA Publication

311 and comply with the requirements of

the AMCA Certified Ratings Program.

KDK Company, Division of PES and

Panasonic Electric Works Vietnam Co., Ltd. certify that the Wall Mount Type Ventilation Fan – Automatic Shutter Series shown herein are licensed to bear

the AMCA Seal. The ratings snown are based on tests and procedures

В

302

20AUA / 25AUA / 30AUA

Silent Stream Fan	
Flat Surface Design	
Automatic Shutter	



- Flat surface design
- Silent stream fan
- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Automatic shutter
- Motor insulation Class B
- IP protection: IPX4 (outside)

Specification

Madal	Voltage	Frequency	CFM / SOI	NE AT STAT	IC Pressure	(ps-inches	of H ₂ O)	Watts* FOR AMCA 1,430 23.5 1,303 23 1,387 33.2 1,252 31 938 35.3 964 34.8	Watts**	
woder	[V]	[Hz]	Inches of H ₂ O	0	0.02	0.04	0.06	RPM	FOR AMCA	FOR IEC
	220	60	CFM	370	328	274	227	1 / 30	23.5	22
204114	220	00	Sones	2.1	2.1	2.2	2.5	1,430	20.0	22
ZUAUA	240	50	CFM	339	295	257	200	1 303	23	21.5
	240	00	Sones	2.0	2.1	2.0	4.5	1,000	20	21.0
	220	60	CFM	542	504	460	361	1 387	33.2	31
25 4114	220	00	Sones	2.4	2.3	1.9	2.5	1,007	00.2	01
25AUA	240	50	CFM	542	493	443	394	1 252	31	29
	240	00	Sones	3.6	3.2	3.0	3.1	1,202	01	25
	220	60	CFM	655	567	456	242	038	35.3	33
004114	220	00	Sones	2.0	1.6	1.9	2.4	330	55.5	
JUAUA	240	50	CFM	696	580	491	340	964	3/1.8	32.5
	240	50	Sones	2.0	1.8	16	22	304	54.0	52.5

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of a backdraft shutter for Model AUA. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H₂O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.

*the Watts rating is only for AMCA test method and it is at the statistic pressure of 0 inch of H₂O.

**the Watts rating is only for IEC test method.

Wiring Diagram



Dimension

90

90

D E F G

30

С

302

273 352 352 290 32

317 402 402 340 32 90

240

辺口

Unit : mm

85

67

83

25AUA / 30AUA

SOUND

Automatic Shutter Series

Usage: Bathroom Toilet

20AUH / 25AUH / 30AUH 11





- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Propeller fan incorporated with advanced blade design (except 30AUH 11)
- Automatic shutter
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	CFM/SONE AT	STATIC Pres	ssure (ps-incl	RPM	Watts*	Watts**	
model	[V]	[Hz]	inches of H ₂ O	0	0.025	0.05		FOR AMCA	FOR IEC
20AUH	220	60	CFM Sones	355 2.5	314 2.5	196 1.7	1,410	32.4	28.5
25AUH	220	60	CFM Sones	514 1.8	426 1.5	290 1.8	1,200	37.8	33
30AUH 11	240	60	CFM Sones	572 1.0	453 1.7	235 2.6	856	37.0	33

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of a backdraft damper. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H_.O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.

*the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. **the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Office / Retail Store

Dimension

Unit : mm

Model	А	В	С	D	E	F	G	Н
20AUH	200	306	260	302	240	52	90	80
25AUH	250	356	310	352	290	38	90	63
30AUH 11	300	406	360	402	340	38	90	78



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Automatic Shutter Louver Series

Usage: Bathroom

Office / Retail Store

Model

20ALA

25ALA

30ALA

А

223

20ALA

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performed in accordance with AMCA

Publication 211 and AMCA Publication

311 and comply with the requirements of

the AMCA Certified Ratings Program.

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Panasonic Electric Works Vietnam Co., Ltd. certify that the Wall Mount Type Ventilation Fan – Automatic Shutter Series shown herein are licensed to bear

based on tests and procedures performed in accordance with AMCA

В

302

C

302

273 352 352 290 62

317 402 402 340 62 90

D

60

240

GFE

辺口

Dimension

E F G

90

90

Unit : mm

85

67

83

25ALA / 30ALA

SOUND

20ALA / 25ALA / 30ALA

Louver for Safety Protection
Silent Stream Fan
Automatic Shutter



- Slim louver design
- Silent stream fan
- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Automatic shutter
- Motor insulation Class B
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	CFM / SOM	NE AT STAT	IC Pressure	(ps-inches	of H ₂ O)	DDM	Watts*	Watts**
woder	[V]	[Hz]	Inches of H ₂ O	0	0.02	0.04	0.06	K PIVI	FOR AMCA	FOR IEC
	220	60	CFM	334	296	256	197	1 308	23.5	22
00414	220	00	Sones	2.8	2.7	3.1	3.9	1,550	20.0	22
ZUALA	20ALA 240	50	CFM	301	274	234	175	1 278	23	21.5
240	00	Sones	2.5	2.5	2.7	2.8	1,270	20	21.0	
	220	60	CFM	471	411	350	250	1 224	33.2	31
05414	220		Sones	3.4	3.2	2.9	3.0	1,224	00.2	01
ZSALA	240	50	CFM	482	438	389	328	1 217	32.1	30
	240	50	Sones	4.2	4.1	3.8	3.8	1,217	52.1	50
	220	60	CFM	510	446	372	219	867	35.3	33
30ALA -	220	00	Sones	2.5	2.0	3.0	2.1	007	55.5	
	240	0 50	CFM	571	494	411	263	806	35.3	32.5
	240		Sones	3.1	2.6	2.5	3.3	030	55.5	52.5

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of inlet grille and backdraft shutter for Model ALA. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H₂O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.

*the Watts rating is only for AMCA test method and it is at the statistic pressure of 0 inch of H₂O.

**the Watts rating is only for IEC test method.

Wiring Diagram



Automatic Shutter Louver Series

Usage: Bathroom

20ALH / 25ALH / 30ALF 11



- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Propeller fan incorporated with advanced blade design (except 30ALF 11)
- Automatic shutter
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	CFM/SONE AT	STATIC Pres	ssure (ps-incl	RPM	Watts*	Watts**	
model	[V]	[Hz]	inches of $\rm H_{2}O$	0	0.025	0.05		FOR AMCA	FOR IEC
20ALH	220	60	CFM Sones	328 3.5	280 3.2	170 3.4	1,385	32.8	28.5
25ALH	220	60	CFM Sones	420 2.7	372 2.7	232 4.6	1,097	37.5	33
30ALF 11	220	60	CFM Sones	447 2.0	288 2.7	154 2.2	746	37.1	33

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of an inlet grill and backdraft damper. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H₂O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.

*the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. **the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Office / Retail Store

Dimension

Unit : mm

Model	А	В	С	D	E	F	G	Н
20ALH	200	306	260	302	240	68	90	80
25ALH	250	356	310	352	290	63	90	63
30ALF 11	300	406	360	402	340	63	90	78



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Automatic Shutter Louver Series

Toilet

Usage: Bathroom

Office / Retail Store

10BAQ1





- Condenser motor with thermal cut-off
- Lubricated sintered brush for long life operation
- Highly efficient sirocco fan
- Blind shutter louver to enhance privacy and safety
- Plastic frame, blade and louver
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	Air V	olume	Consumption	RPM	Noise	Weight	Installation Space	
modol	[V]	[Hz]	[CMH]	[CFM]	[W]		[dB(A)]	[kg]	[mm]	
	220	50	76.3	45	15	1,250	40.1			
10BAQ1	220	60	72.9	43	17	1,200	39.8	17	155 x 205	
	230	50	80.3	47	16	1,300	41.2	1.7	133 X 203	
	240	50	84.9	50	17.5	1,385	42			

Note: RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa

- The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 to -7 dB tolerance

- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side

- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Installation



Wiring Diagram



Dimension

Power cord

140

118

Exhaust port

Unit : mm

30

150 x 200

Feature of Bathroom Series

Easy Installation - Pipe Hood Series

With the supplied accessories, it only takes a few steps to complete the installation.



Back Draft Shutter Shutter Series (For Vertical Shaft) only

Wind from outside may come indoor through the duct when the fan is not operating. The back draft shutter is designed to cover the duct hole to block wind and water.





Bathroom

Toilet

All Accessories Included

The product comes bundled with all required accessories. It conveniently saves the hassle of seeking necessary accessories around.



Trace-Prevention Pipe Hood Series Only

When it rains, rainwater dripping along the side of pipe hood may cause trace marks on wall. The exclusively designed duct ring catches and drains the water away to avoid forming trace marks.



leaving trace mark on the wall.

Shower Room

Bathroom Series

Usage: Bathroom

10EGKB / 15EGKB

Advanced Blade Design **Easy Installation**

Pipe Hood Equipped



- Pipe hood series
- Powerful exhaust of excessive moisture and odour
- Prevent rain water trace by water-cut plate at duct ring
- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Medel	Voltage	Frequency	Air Volume	Consumption	DDM	Noise	Weight	Wall In	stallation	Ceiling Installation
woder	[V]	[Hz]	[CMH]	[W]	RPM	[dB(A)]	Weight [kg] Wall Installation C 1.0 Hole Size [mm] Wall Thickness [mm] Inickness [mm] 1.0 Ø130~140 100~150 1.3 Ø175~185 100~150	Hole Size [mm]		
	220	50	76	4.3	2,660	33				
10EGKB	230	50	77	4.6	2,675	33	1.0	Ø130~140	100~150	Ø130~140
	240	50	77	5.0	2,690	33				
	220	50	162	5.7	2,265	36				
15EGKB	230	50	165	6.1	2,330	37	1.3	Ø175~185	100~150	Ø175~185
	240	50	165	6.5	2,390	37				

Note: RPM data is for reference only, values may vary subject to different conditions

Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa - The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 to -7 dB tolerance

- The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side

- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Wiring Diagram



Dimension

Unit : mm







Bathroom Series

Usage: Bathroom

10EGSB / 15EGSB



- Shutter series (for vertical shaft)
- · Powerful exhaust of excessive moisture and odour
- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Madal	Voltage	Frequency	Air Volume	Consumption	DDM	Noise	Weight	Wall Ins	tallation	Ceiling Installation
woder	[V]	[Hz]	[CMH]	[W]	RPIN	[dB(A)]	[kg]	Hole Size [mm]	Duct Space [mm]	Hole Size [mm]
	220	50	76	4.3	2,665	35				
105000	220	60	87	4.7	3,140	37.5	0.0	Ø100 105	. 205	(120, 140
IVEGSB	230	50	77	4.6	2,670	35	0.8	0120-125	>205	Ø130~140
	240	50	77	5.0	2,685	35	1			
	220	50	155	5.7	2,130	36				
15EGSB	220	60	180	6.1	2,470	40	1.0	<i><i><i>α</i> ι σ ι σ</i></i>	. 240	0475 405
	230	50	160	6.1	2,230	37	1.0	Ø165-170	>240	0175~185
	240	50	165	6.5	2,240	37				

Note: RPM data is for reference only, values may vary subject to different conditions Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa

- The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 to -7 dB tolerance - The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side

- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Dimension

Unit : mm

Model	А	В	С	D	Е	F	G	Н
10EGSB	170	170	83	177	6	145	45	111
15EGSB	220	220	86	231	6	155	74	155









ole (Φ6) for plug bol

Duct Space
Duct Space



Window Mount Type Ventilation Fan





Window Mount Type Ventilation Fan

Features of Electric Shutter Series

Rain proof and wind resistible

Hood structure for prevention of rain water ingression

High static pressure blade can prevent ingression of rain and wind during operation

Easy installation



Mounting Bracket Unique design of mounting bracket can fix the fan on glass plate with simple process



The newly designed shutter

can keep out entry of rain

water effectively



Bent End Structure of the shutter can

block the backflow of outside wind

Packing · - - - - - - - -



e.q. 15WHCT Orifice is not necessary to detach for installation. Simply fix the fan on glass plate by screws at front.



Double glass Often called insulated

glass that consists of two panes of glass set

apart to allow airspace

in. This airspace acts as

a buffer which obstructs

the transfer of heat from

one side of the glass to

the other

Both gasket & silicon seal are not required for 15WHCT/20WHCT

High adaptability

New mounting design allows the fan to be fixed on glass plate of thickness from 3mm up to 25mm with ease



Applicable Glass Thickness 3mm-25mm . _ _ _ _ _ _ _









Bathroom

Toilet



Office

Electric Shutter Series

Usage: Batheroom

15WHCT / 20WHCT



- Electrically operated shutter
- Advanced design hood structure to prevent rain and wind
- Suitable for window glass with thickness from 3mm to 25mm
- Simple and easy installation, no need of any silicon seal or gasket
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	CFM/SONE AT	STATIC I	Pressure ((ps-inches	s of H ₂ O)	PPM	Watts*	Watts**
Woder	[V]	[Hz]	inches of H ₂ O	0	0.05	0.1	0.15		FOR AMCA	FOR IEC
	220	60	CFM	127	94	63	31	2 440	14.6	13
15WHCT 220	220	00	Sones	3.0	3.6	3.5	3.9	2,440	14.0	15
10001101	240	50	CFM	127	95	68	50	2 5 2 7	16	15
	240	50	Sones	2.3	2.7	3.5	2.8	2,007	10	15
	000		CFM	250	188	127	78	4 5 4 7		
2014/1107	220	60	Sones	3	3.9	4.5	4.2	1,517	24.4	22
20WHC1	0.40	50	CFM	230	147	103	53	4 000	00.4	00
	240	50	Sones	2.8	3.8	3.4	4	1,333	23.4	22

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of inlet grille and shutter The Speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H₂O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free Inlet hemispherical sone levels.

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Installation Example





049

Office / Retail Store

Dimension

Unit : mm

Model	А	В	С	C'	D
15WHCT	224	182	117	111	72
20WHCT	288	243	120	117	74





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Features of Automatic Shutter Series

Auto Shutter

The backdraft shutters will be opened by air pressure during operation and closed automatically for air-tightness when the fan is switched off.

Advanced Blade Design

Leading Edge





Leading Edge forms no obstacle to airflow that streamlines airflow from every direction

Air Foil Chip is to reduce turbulence at rear edge, and the curvature of front edge is improved for smooth airflow that minimizes fan noise as well.

Half pitch condenser motor with well-lubricated ball bearing

- Low power consumption (50% down VS previous model)
- Low noise level (6% down VS previous model)
- Long life up to 40,000 hours (1.5 time VS previous model)
- Comply with IPX4 (outside)



Easy Maintenance

The blade can be detached by simply loosening the spinner, that facilitates the periodical maintenance.









Toilet



Office

Automatic Shutter Series

Usage: Batheroom	Toilet Off	ice / Retail S	tore							
15WAA / 15WAAMN 20WAA / 20WAAMN								Din	nens Unit	ion : mm
Automatic Shutter		Model	А	В	С	D	E	F	G	H(MAX)
Advanced Blade Design		15WAA	150	212	100	47	53	38	175	(30)
Easy Maintenance		B LISWAA	Ain	C (H)		A	в () 20W/		Air I	(H)

- Automatic shutter
- Half pitch condenser motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Propeller fan incorporated with advanced blade design
- Removable blade for easy maintenance
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Model	Voltage Frequency		CFM/SONE AT	STATIC F	Pressure (of H ₂ O)	DDM	Watts*	Watts**	
WOUEI	[V]	[Hz]	inches of H ₂ O	0	0.02	0.04	0.06	INF WI	FOR AMCA	FOR IEC
15WAA	220	60	CFM Sones	124 3.6	109 4.5	91 4.1	79 4	2,021	19.6	18
15WAAMN	240	50	CFM Sones	127 2.3	109 4.5	93 4.1	78 3.8	2,062	18.2	16
20WAA	220	60	CFM Sones	250 3	147 3.8	124 3.5	94 3.3	1,385	18.4	17
20WAAMN	240	50	CFM Sones	230 2.8	153 3.3	141 3.4	131 3.4	1,375	18.6	17.5

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of backdraft shutter. The Speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H₂O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free Inlet hemispherical sone levels

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H2O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Installation Example







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Features of Cord-Operated Shutter Series





New

Leading Edge forms no obstacle to airflow that streamlines airflow from every direction

Air Foil Chip is to reduce turbulence at rear edge, and the curvature of front edge is improved for smooth airflow that minimizes fan noise as well.

Easy Maintenance

The blade can be detached by simply loosening the spinner, that facilitates the periodical maintenance.

Half pitch condenser motor with well-lubricated ball bearing

- Low power consumption (50% down VS previous model)
- Low noise level (6% down VS previous model)
- Long life up to 40,000 hours (1.5 time VS previous model)
- Comply with IPX4 (outside)





Bathroom

Toilet



Office

Cord-Operated Shutter Series

Usage: Batheroom Toilet Off	ice / Retail S	tore							
15WUD / 15WUDMN 20WUD / 20WUDMN							Din	nens Unit :	ion mm
Cord-operated Shutter	Model	А	В	С	D	E	F	G	Н
Advanced Blade Design	15WUD	150	210	97	43	54	37	177	149
Auvanced blade Design	20WUD	200	271	98	36	62	36	237	201
		ver cord							
 Half pitch condenser motor with thermal cut-off Well-lubricated ball bearing for long life operation Propeller fan incorporated with advanced blade design Shutter operated by pull cord Metallic shutter axis Motor insulation Class E IP protection: IPX4 (outside) 	KDK Company, D Panasonic Electric Ltd. certify that t Type Ventilation F Shutter Series s licensed to bear the ratings shown are procedures perform with AMCA Publica Publication 311 ai requirements of the Ratings Program.	ivision (Works \ he Win an – Co shown he AMC, based (med in ation 211 nd comp he AMC	of PES Vietnam I dow Mo ord-opera herein A Seal. on tests accorda and AN oly with CA Certi	and Co., bunt tated are The and MCA the ified		調査運行に	AIR movimum all movimum all contra all contra all contra all contra all contra all contra all contra contra all contra co	SOUT SOUT	
Specification									

Model	Voltage	Frequency	CFM/SONE AT	STATIC F	Pressure (of H ₂ O)	DDM	Watts*	Watts**	
woder	[V]	[Hz]	inches of $H_{_2}O$	0	0.01	0.02	0.03		FOR AMCA	FOR IEC
15WUD	220	60	CFM Sones	105 0.9	94 0.9	79 2.2	66 2.4	1,425	9.7	8.9
15WUDMN	240	50	CFM Sones	124 1.4	115 1.6	104 1.8	94 3.7	1,722	10.3	9.5
			inches of H_2O	0	0.02	0.03	0.04			
20WUD	220	60	CFM Sones	188 0.8	129 1.2	112 1.8	88 1.4	980	19.2	17.9
20WUDMN	240	50	CFM Sones	221 1.8	168 1.6	141 2.2	118 2.0	1,096	18.5	17.2

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of backdraft shutter. The Speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H_aO. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free Inlet hemispherical sone levels.

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H2O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

How to Turn On









How to Turn Off



Industrial Type Ventilation Fan



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Low-Noise



Durable



Fans with 3D Wave-shaped Cross Section Blade*

*The 3D wave-shaped blade only applicable to some of the models

055





- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Voltage	Frequency	Air Vo	olume	Current	Input	Noise	PPM	Weight	Installation
[V]	[Hz]	[CMH]	[CFM]	[A]	[W]	[dB(A)]	IXF M	[kg]	W x L [mm]
220		1,880	1,105	0.260	47.0	51.0	1,230 ~ 1,370		
230	50	1,920	1,130	0.270	52.0	51.0	1,250 ~ 1,390	64	444 × 444
240		1,960	1,155	0.290	59.0	51.0	1,270 ~ 1,410	0.4	444 X 444
230	60	2,130	1,254	0.310	67.0	52.5	1,400 ~ 1,540		

Performance Data



Installation





								Unit :	mm
Model	А	В	С	D	E	F	G	Н	Ι
40KAQA	510	480	215	40	55	434	10	126	130

Note: RPM data is for reference only. Values may vary depending on different onditions.

1. The value of power consumption, air volume and noise are specified at the static pressure of 0 Pa. 2. The value of air volume is the mean value which is measured by our company.

The value of noise level is measured at 1m apart from the left, the right and the front of product, then get the average of three values.
 The value of noise level is A weight average sound pressure level, the mean

value is measured by our company



High Pressure Series

Usage: Factory

Warehouse

Retail Store

Model

25GSE

30GSE

35GSE

A B

327 298

KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certify that the Industrial Ventilation Fan – High Pressure Series shown herein are licensed to bear the AMCA Seal. The

licensed to bear the AMCA Seal. The

ratings shown are based on tests and

procedures performed in accordance

with AMCA Publication 211 and AMCA

Publication 311 and comply with the

requirements of the AMCA Certified

Ratings Program.

165

378 349 210 - 200 10

467 434 250 - 235 12 - 350

Dimension

-

C D E F G H

- 171 10 -

Unit : mm

SOUND

250

300

25GSE / 30GSE / 35GSE

Single Phase Reversible **Optional Shutter**



- · Bell mouth construction with distinctive wave-shaped blade
- Durable powder coating
- Operable at an ambient temperature range from -10°C to +50°C
- · Possible to install horizontally or vertically
- Motor insulation Class E
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	CFM /	SONE A	T STAT	IC Press	sure (ps	-inches	of H ₂ O)		DDM	Watts*	Watts**
woder	[V]	[Hz]	Inches of $H_{_2}O$	0	0.05	0.075	0.1	0.125	0.25	0.375	INF IVI	FOR AMCA	FOR IEC
	220	60	CFM	788	742	715	686	647	-	-	1 570	61	57
25005	220	00	Sones	4.9	4.7	4.5	4.5	4.6	-	-	1,570	01	51
2003E	240	50	CFM	701	657	633	600	585	187	-	1 400	48	44
	210	00	Sones	3.8	3.6	3.6	3.5	3.6	8.6	-	1,100	10	
	220	60	CFM	1,308	1,247	1,217	1,184	1,153	772	-	1 460	129	119
20005	220	00	Sones	9.0	9.0	9.1	9.0	9.1	9.4	-	1,100	120	110
JUGSE	240	50	CFM	1,177	1,119	1,090	1,058	1,026	561	243	1 315	106	98
	210	00	Sones	5.5	5.5	5.6	5.6	5.8	11.1	12.0	1,010	100	00
	220	60	CFM	1,850	1,788	1,752	1,712	1,669	1,456	600	1 640	178	161
25005	220	00	Sones	11.9	11.6	12.0	12.4	13.6	14.6	13.4	1,040	170	101
30G3E	240	50	CFM	1,615	1,548	1,506	1,458	1,411	1,147	390	1 / 35	130	122
	240	50	Sones	8.6	8.2	8.2	8.0	8.0	12.6	13.4	1,400	150	122

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

*the Watts rating is only for AMCA test method and it is at the statistic pressure of 0 inch of H₂O. **the Watts rating is only for IEC test method.

Wiring Diagram



High Pressure Series

Usage: Factory Warehouse Retail Store

40GSE



- Bell mouth construction with distinctive wave-shaped blade
- Durable powder coating
- Operable at an ambient temperature range from -10°C to +50°C
- · Possible to install horizontally or vertically
- Motor insulation Class B
- IP protection: IPX4 (outside)

Specification

Model	Voltage	Frequency	CFM /	SONE A	T STAT	IC Press	sure (ps	-inches	of H ₂ O)		DDM	Watts*	Watts**
WOUGI	[V]	[Hz]	Inches of H ₂ O	0	0.05	0.075	0.1	0.125	0.25	0.375	KFW	FOR AMCA	FOR IEC
			CFM	2,677	2,581	2,535	2,488	2,440	2,170	2,050			
40005	220	60	Sones	20.0	20.0	19.7	19.4	19.3	18.9	19.9	1,550	294	270
40G3E			CFM	2,135	2,067	2,035	2,000	1,965	1,800	1,480			
	240	50	Sones	9.0	8.5	8.7	8.7	8.7	13.0	14.2	1,440	164	151

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

*the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. **the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Wiring Diagram



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Dimension

							Unit	: mm	
Model	А	В	С	D	E	F	G	Н	
40GSE	518	485	280	460	274	12	12	400	



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High Pressure Series

Usage: Factory

Warehouse

Retail Store

45GSC / 50GSC / 60GSC





- Bell mouth construction with distinctive wave-shaped blade
- Durable powder coating
- Operable at an ambient temperature range from -10°C to +50°C
- Possible to install horizontally or vertically
- Motor insulation Class E

Specification

F G Model С D Е В 45GSC 450 570 540 320 297 12 500 659 620 560 355 315 15 50GSC 720 650 400 320 15 60GSC 620 760



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Dimension

Unit : mm

Model	Voltage	Frequency	CFM /	SONE AT STA	ATIC Pressure	(ps-inches of	f H ₂ O)	DDM	Watts*	Watts**
WOUEI	[V]	[Hz]	Inches of H ₂ O	0	0.2	0.3	0.4	KFIW	FOR AMCA	FOR IEC
	220	60	CFM	3,278	3,131	3,001	2,795	1 563	346	325
45000	220	00	Sones	10	10.4	10.6	10.8	1,505	540	525
49630	240	50	CFM	2,854	2,648	2,454	2,030	1 4 3 0	277	241
	210	00	Sones	7.8	7.7	7.8	9.4	1,100	211	2
	220	60	CFM	3,884	3,443	3,090	2,501	1 080	347	326
50000	220	00	Sones	10.9	11.3	11.5	11.8	1,000	011	020
50GSC	240	50	CFM	3,354	2,854	2,266	912	968	293	271
	210	00	Sones	11.7	13.8	14.5	15.4	000	200	27.1
	220	60	CFM	5,038	4,349	3,943	3,560	1 088	384	361
60080	220	00	Sones	10.1	9.8	9.5	10.1	1,000	001	001
00030	240	50	CFM	4,402	3,855	3,366	2,972	980	289	263
	240	00	Sones	10.3	8.6	8.5a	11 5	500	200	200

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories). The Speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H₂O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.

*the Watts rating is only for AMCA test method and it is at the statistic pressure of 0 inch of H₂O. **the Watts rating is only for IEC test method.

Wiring Diagram



High Pressure Series

Usage: Factory Warehouse Retail Store

45GTC / 50GTC / 60GTC



- · Bell mouth construction with distinctive wave-shaped blade
- Durable powder coating
- Operable at an ambient temperature range from -10°C to +50°C
- Possible to install horizontally or vertically
- Motor insulation Class E

Specification

	Model	Vol	tage	Air Volume		Consumption	RPM Noise		Weight
	WOUEI	[V]	[Hz]	[CMH]	[CFM]	[W]	IXF WI	[dB(A)]	[kg]
	45GTC	380	50	5,520	3,249	220	1,450	52	19.5
	43010	300	60	6,420	3,779	330	1,690	56	10.5
ſ	FOCTO	200	50	6,960	4,097	320	1,400	54	20 E
	50010	300	60	8,010	4,715	475	1,590	58	20.0
ſ	SOCTO	200	50	9,420	5,544	310	940	49	24
l	60GTC 380	60	10,920	6,427	450	1,070	53	34	

Performance Data



Wiring Diagram





Dimension

	5	÷+ -	5	m
0		۰.		

Model	А	В	С	D	E	F	G
45GTC	450	570	540	-	320	297	12
50GTC	500	659	620	560	355	304	15
60GTC	620	760	720	650	400	320	15



Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of an inlet grill and backdraft damper. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H_2O . The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels. *the Watts rating is only for AMCA test method and it is at the static pressure of 0

inch of H_2O . **the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts

Optional Accessories

25GASC / 30GASC / 35GASC 40GASC / 45GASC / 50GASC / 55GASC





- Auto shutter for High Pressure Series
- Steel material
- Durable powder coating
- Available for wall mounting

Dimension Unit : mm

Model	Size	А	в	с	D	E	F	G	н	No. of Shutter	Applicable for
25GASC	25cm/10"	330	303	298	268	263	165	268	137	2	25GSE
30GASC	30cm/12"	381	354	349	319	314	210	319	122	3	30GSE
35GASC	35cm/14"	468	433	434	389	384	250	389	137	3	35GSE
40GASC	40cm/16"	519	484	485	440	435	280	440	122	4	40GSE
45GASC	45cm/18"	574	539	540	492	487	320	492	137	5	45GSC,45GTC
50GASC	50cm/20"	660	625	620	545	540	355	545	122	5	50GSC,50GTC
55GASC	60cm/24"	760	725	720	662	657	440	662	122	6	60GSC,60GTC

TEL FF FR



Cabinet Fan (In-line Fan)



Low-noise Design

The newly developed twin flow fan achieves a better airflow inside the fan casiang. It is divided into two portions which can generate large air volume and high static pressure respectively.



Wind velocity varies according to the shape of the casing. The tapered scroll at the casing minimizes turbulence induced by uneven wind velocity inside the casing.

Embedded Terminal Box

Terminal box is embedded into the product frame. The wiring to power supply is covered with metal enclosure that enhances the durability and safety level.

High Static Pressure

The distinctive design of twin flow fan and fan casing enable operation with high static pressure, which is approximate 10% average increased when compared with previous models. This increases the flexibility in your planning of ventilating system.

Energy Saving

The new structure design improves fan performance by increasing energy efficiency by 3%. In addition, energy saving is assured by reducing motor power consumption significantly.

Noise Reduction

With the twin flow fan and fan casing structure, the new models minimize the transmission of noise and reduce it by 6% while maintaining aair volume. This technology creates a more tranquil and pleasant environment.

Easy Installation

A slim, compact and light body allows easy installation in narrow ceiling space, when compared with previous models.

Compact Size

With the newly designed structure, the product size is reduced by 9%, which increases the flexibility in installation.







Internal Wind Velocity Distribution – Airflow Analysis







Usage: Living Room

Shopping Mall

12NSB / 15NSB



- Long life condenser motor with thermal cut-off
- Twin flow fan (sirocco fan)
- Fan casing with tapered scroll
- Embedded terminal box
- Noise absorption material adopted
- Motor insulation Class E
- IP protection: IPX2

Specification

Model	Voltage	Frequency	CFM/	SONE	AT S	TATIC	Pres	sure (ps-in	ches	of H ₂	0)		DDM	Watts*	Watts**
WOUEI	[V]	[Hz]	inches of H_2O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	KE WI	FOR AMCA	FOR IEC
	000	<u></u>	CFM	114	105	102	87	65	-	-	-	-	-	4 400	00	00
12NSB	220	60	Sones	1.5	1.4	1.4	1.3	1.4	-	-	-	-	-	1,460	26	23
121100	0.40	50	CFM	102	90	86	67	39	-	-	-	-	-	4 0 4 0	07	00
	240	50	Sones	2.0	1.7	1.6	1.4	1.5	-	-	-	-	-	1,342	27	22
	000		CFM	200	183	177	149	118	83	-	-	-	-	4 500	45	40
1ENCD	220	60	Sones	2.7	2.5	2.4	2.3	2.2	2.0	-	-	-	-	1,520	45	42
TONOD		= 0	CFM	193	177	172	139	94	20	-	-	-	-			
	240	50	Sones	3.7	3.4	3.2	2.6	2.5	2.8	-	-	-	-	1,373	47	37

Performance certified is for installation type D: Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal.

Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of HaO. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Wiring Diagram





Dimension







KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certify that the Cabinet Fan – Standard Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Restaurant



Standard Series

Usage: Living Room Shopping Mall

18NSB / 18NFB



- Long life condenser motor with thermal cut-off
- Twin flow fan (sirocco fan)
- Fan casing with tapered scroll
- Embedded terminal box
- Noise absorption material adopted
- Motor insulation Class E
- IP protection: IPX2

Specification

Model	Voltage	Frequency	CFM/	SONE	AT S	TATIC	Pres	sure (ps-in	ches	of H ₂	D)		DDM	Watts*	Watts**
WOUEI	[V]	[Hz]	inches of H_2O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5		FOR AMCA	FOR IEC
	000	<u> </u>	CFM	274	261	258	241	222	196	137	-	-	-	4 470	00	70
18NSB	220	60	Sones	3.3	3.1	3.0	2.9	2.7	2.6	2.7	-	-	-	1,470	80	73
TONOD	0.40	50	CFM	281	263	259	232	200	163	34	-	-	-	4 0 4 0	0.4	<u></u>
	240	50	Sones	4.8	4.4	4.4	3.8	3.4	3.0	2.9	-	-	-	1,342	84	68
	000	0.0	CFM	417	399	395	373	347	318	237	-	-	-	4 400	400	440
10NED	220	60	Sones	4.0	3.9	3.9	3.9	3.6	3.5	3.4	-	-	-	1,420	128	119
IONED		= 0	CFM	429	406	400	381	344	290	78	-	-	-			
	240	50	Sones	5.6	5.4	5.4	5.1	4.6	4.3	4.2	-	-	-	1,327	135	104

Performance certified is for installation type D: Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. * the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of HaO. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Wiring Diagram



Dimension

Unit : mm







KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certify that the Cabinet Fan – Standard Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.





Usage: Living Room

Shopping Mall

20NSB / 23NLB



- Long life condenser motor with thermal cut-off
- Twin flow fan (sirocco fan)
- Fan casing with tapered scroll
- Embedded terminal box
- Noise absorption material adopted
- Motor insulation Class E
- IP protection: IPX2

Specification

Model	Voltage	Frequency	CFM/	SONE	AT S	TATIC	Pres	sure (ps-in	ches	of H ₂ C))		PPM	Watts*	Watts**
Woder	[V]	[Hz]	inches of H_2O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5		FOR AMCA	FOR IEC
	000	<u></u>	CFM	469	459	456	444	433	413	354	275	-	-	4 000	470	450
20NSB	220	60	Sones	4.0	4.0	3.9	3.8	3.9	4.0	4.1	4.2	-	-	1,380	170	159
201100	0.40	50	CFM	517	500	495	464	424	382	265	110	-	-	4 000	475	405
	240	50	Sones	6.0	5.8	5.8	5.4	5.1	4.8	4.5	4.5	-	-	1,328	175	135
	000		CFM	655	642	640	625	611	597	555	505	440	-	4 400	050	040
22NIL D	220	60	Sones	6.0	6.0	5.9	5.9	5.7	5.7	5.8	5.8	5.8	-	1,400	350	310
ZUNLD	0.40	50	CFM	688	670	664	642	614	579	493	388	199	-	4 0 4 0	0.47	000
	240	50	Sones	8.8	8.6	8.4	8.1	8.0	7.6	7.2	6.7	6.6	-	1,342	347	260

Performance certified is for installation type D: Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal.

Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of HaO. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Wiring Diagram





Dimension







KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certify that the Cabinet Fan – Standard Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Restaurant



Standard Series

Usage: Living Room Shopping Mall

25NSB / 25NFB



- Long life condenser motor with thermal cut-off
- Twin flow fan (sirocco fan)
- Fan casing with tapered scroll
- Embedded terminal box
- Noise absorption material adopted
- Motor insulation Class E
- IP protection: IPX2

Specification

Model	Voltage	Frequency	CFM/	SONE	AT S	ΤΑΤΙΟ	Pres	sure (ps-ind	ches o	of H ₂ 0)		PPM	Watts*	Watts**
Woder	[V]	[Hz]	inches of $\rm H_{2}O$	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5		FOR AMCA	FOR IEC
DENCE	220	60	CFM Sones	940 7.1	924 7.1	919 7.1	899 7.0	877 6.8	857 6.8	790 6.7	710 6.7	610 6.7	502 6.9	1,380	460	425
ZJINOD	240	50	CFM Sones	963 10.1	938 9.8	935 9.7	906 9.3	868 9.2	822 8.8	719 8.0	567 7.5	395 8.2	-	1,305	481	370
	220	60	CFM Sones	1,016 8.2	1,000 8.2	995 8.2	975 8.2	954 7.9	933 7.9	875 7.8	803 7.6	710 7.5	590 7.5	1,420	680	520
25INFB	240	50	CFM Sones	1,057 12.1	1,048 11.9	1,040 11.5	1,010 11.1	972 10.6	922 9.8	811 8.7	660 8.7	473 10.3	-	1,330	537	430

Performance certified is for installation type D: Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. * the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of HaO. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Wiring Diagram



Restaurant

Dimension

Unit : mm





KDK Company, Division of PES and Panasonic Ecology Systems Guangdong Co., Ltd. certify that the Cabinet Fan -Standard Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.





Usage: Living Room

Shopping Mall Restaurant

25SWC / 25SMC



- Long life condenser motor with thermal cut-off
- Twin flow fan (sirocco fan)
- Fan casing with tapered scroll
- Embedded terminal box
- Noise absorption material adopted
- Motor insulation Class F
- IP protection: IPX2

Specification

Model	Phase	Voltage	Frequency	Consumption	RPM	Air V	olume	Noise	Weight	Duct Size	Impeller	
moder	i nase	[V]	[Hz]	[W]	iti m	[CMH]	[CFM]	[dB(A)]	[kg]	[mm]	Diameter [mm]	
050140	0	000	50	940	1,375	4,000	2,354	43	00	050 050	050	
255000	3	380	60	1,450	1,530	4,500	2,648	45	60	250 X 250	250	
25010	2	200	50	1,180	1,345	5,200	3,060	45	<u></u>	250 x 700	250	
2051010	3	360	60	1,750	1,470	5,500	3,237	46	60	250 X 700	250	

Note: The value in specification tables are representative characteristic value at 380V 50/60Hz. RPM data is for reference only. Values may vary subject to

RPM data is for reference only. Values may vary subject to different conditions.

Performance Data (380V 50/60Hz)



Wiring Diagram



Dimension







Standard Series

Usage: Living Room Shopping Mall

28NXC



- Long life condenser motor with thermal cut-off
- Twin flow fan (sirocco fan)
- Fan casing with tapered scroll
- Embedded terminal box
- Noise absorption material adopted
- Motor insulation Class F
- IP protection: IPX2

Specification

Model	Phase	Voltage	Frequency	Consumption	RPM	Air V	olume	Noise	Weight	Duct Size	Γ
model	i nuse	[V]	[Hz]	[W]	ixi m	[CMH]	[CFM]	[dB(A)]	[kg]	[mm]	1
0001/0	0	000	50	600	1,295	2,600	1,530	44	00	0050	Γ
ZSINXC	3	380	60	840	1,380	2,650	1,560	45	28	Ø250	

Performance Data (380V 50/60Hz)



Wiring Diagram



Restaurant

Dimension

								Unit :	mm
Model	А	В	С	D	E	F	G	Н	I
28NXC	554	510	557	601	342	171	240	255	85



Impeller ameter [mm] 280

The value in specification tables are representative characteristic value at 380V 50/60Hz.

 ${\sf RPM}$ data is for reference only. Values may vary subject to different conditions.
Mini Sirocco Fan





Mini Sirocco Fan

More Compact

With the optimal air passage design, the body size is compact. It enables easy installation in narrow and limited space environment.

Higher Duct Connectivity

After the improvement on the adapter design, the duct connectivity is enhanced with the extended adapter.



Easy Installation

The inlet and outlet of the sirocco fan are of the same size for easy connection to a ducted system. The fan can be mounted on the ceiling.

Adjustable Outlet Direction

With the mounting feet on the fan body, installation has become easier. Outlet direction is adjustable to fit vertical or horizontal position.



Various installing patterns satisfy different installation space



Simplified Maintenance

By unitizing the fan and motor as one single unit, the impeller can be replaced and cleaned without removing the duct. It facilitates more user-friendly maintenance.



Mini Sirocco Fan

Usage: Locations where high air volume is needed

10CGB / 12CGB / 14CGB 16CGB / 17CGB / 19CGB / 21CGB

Optimal Air Passage High Duct Connectivity **Easy Installation**



• Forward curve fan

- Galvanized steel
- Compact size for narrow space installation
- Extended adapter for higher connectivity
- Long life induction motor with thermal cut-off
- Well-lubricated ball bearing for long life operation
- Highly efficient sirocco fan designed for powerful airflow
- Outlet direction adjustable to vertical or horizontal position
- Motor IP rating: Class E for 10CGB, 12CGB, 14CGB, 16CGB, 17CGB & 19CGB Class F for 21CGB
- Insulation class: IPX2

Dimensions Unit: mm







Model	А	В	с	D	E	F	G	н	I	J	к	N	Connector Duct Dimension (mm)
10CGB	226	109	163	63	83	207	138	104	79	126	98	27	Ø100
12CGB	260	145	200	60	110	226	170	126	101	150	146	22	Ø150
14CGB	209	145	209	00	112	230	170	130	101	150	140	32	150
16CGB	330	196	270	60	170	264	189	155	117	177	146	37	Ø150
17CGB	400	222	220	71	200	333	262	202	142	220	105	55	Ø200
19CGB	400	222	330	71	200	552	203	203	142	235	195	55	0200
21CGB	400	222	330	71	200	403	263	203	142	239	195	55	Ø200

Wiring Diagram

• Wiring connection when not use speed switch.



• Wiring connection when use speed switch.



073

Mini Sirocco Fann

Specification

Model	Voltage [V]	Frequency	equency Speed Air Volume		Consumption	Noise Le	evel [dB]	Net Weight
Model	Voltage [4]	[Hz]	Opeed	[CMH]	[W]	Inlet	Side	[kg]
		50	Hi	154	15	41.0	28.0	
	220	50	Lo	115	12	35.5	24.0	
	220	60	Hi	133	12	36.5	24.0	
10CGB		00	Lo	93	9	28.5	20.0	19
10000	220	60	Hi	143	13	38.0	25.0	1.0
	200	00	Lo	100	10	30.5	20.0	
	220-240	50	Hi	134-143	10-11	37.0-39.0	23.0-25.0	
	220 240	50	Lo	110-125	9-10	32.0-35.0	20.0-23.0	
		50	Hi	250	22	44.0	29.0	
	220	50	Lo	175	16	32.0	19.0	
	220	60	Hi	225	25	42.5	29.0	
12CCB		60	Lo	145	18	32.0	21.0	25
12000	000	<u></u>	Hi	242	27	44.0	30.0	2.0
	230	60	Lo	153	19	34.0	21.5	
	220.240	50	Hi	233-262	23-28	44.5-46.5	29.0-32.0	
	220-240	220-240 50		156-175	19-23	33.0-36.0	18.0-20.0	
		50	Hi	332	35	50.0	34.0	
	220	50	Lo	226	28	40.0	26.0	
	220	60	Hi	260	30	43.0	30.0	
14CCB		00	Lo	200	25	35.5	25.0	29
14008	000	<u></u>	Hi	275	33	44.5	31.5	2.0
	230	60	Lo	212	28	37.5	26.0	
	220-240	50	Hi	280-315	28-32	44.5-46.5	31.0-33.0	
	220-240	50	Lo	227-265	26-30	40.0-44.0	27.0-31.0	
		50	Hi	509	50	49.0	35.0	
	220	50	Lo	405	43	43.5	30.0	
	220	<u> </u>	Hi	483	57	48.0	32.0	
160 C P		00	Lo	372	44	41.0	27.0	5.6
IUCGB			Hi	503	61	49.0	34.5	5.0
	230	60	Lo	393	48	42.5	29.0	
	220.240	50	Hi	509-542	50-56	49.0-51.5	35.0-38.0	
	220-240	50	Lo	405-450	43-48	43.5-46.0	30.0-32.0	

Specification

Medel	Valtara D/I	Voltage [V] Frequency Speed		Air Volume	Consumption	Noise L	evel [dB]	Net Weight
wodei	voltage [v]	[Hz]	Speed	[CMH]	[W]	Inlet	Side	[kg]
		50	Hi	791	86	50.0	36.0	
	220	50	Lo	640	70	44.0	31.0	
		<u></u>	Hi	752	95	49.0	34.0	
17CGB		60	Lo	612	73	43.5	29.0	10.1
	220	<u>co</u>	Hi	789	104	50.0	35.0	-
	230	60	Lo	641	80	44.0	31.0	
	220.240	50	Hi	791-875	86-101	50.0-52.5	36.0-39.0	
	220-240	50	Lo	640-705	70-83	44.0-47.0	31.0-32.0	
		50	Hi	947	121	55.0	41.0	
	220	50	Lo	857	105	51.5	37.0	
		60	Hi	885	127	52.0	39.0	
19CGB		00	Lo	760	107	48.0	37.0	10.2
10002	220	60	Hi	931	140	53.5	40.0	10.2
	230	60	Lo	791	117	49.5	36.5	
	220-240	50	Hi	919-997	113-130	52.0-54.0	40.0-42.0	
	220-240	50	Lo	804-880	99-115	50.0-52.0	38.0-40.0	
		FO	Hi	1420	238	67.0	54.0	
	220	50	Lo	1143	182	60.0	47.0	
	220	60	Hi	1500	328	68.0	57.0	
21CCP		60	Lo	1042	215	58.0	47.0	14.6
21008	000		Hi	1550	342	69.0	57.5	14.0
	230	60	Lo	1100	230	59.5	48.0	
	220.040	50	Hi	1420-1435	238-247	66.0-67.0	54.0-55.0	
	220-240	50	Lo	1143-1220	182-197	60.0-62.5	47.0-51.0	

Notes:

① The values of rated input, air volume and noise are specified at the static pressure of 0 Pa.

③ The values of noise level are measured at the 1.5m apart from the inspection panel of the fan body when ducts are connected on both inlet and outlet Side. It is based on the assumption that the noise of fan body propagates to room inside.
 The values of air volume are the mid-points of results measured by our company, with ±10% tolerance.

© The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 and -7 tolerance.

Mini Sirocco Fann

Accessories - Pipe Hood

MGX100K / MGX150K MCX100K / MCX150K



With Net (MGX)

Without	Net	(MCX







А

141

190

141

190

В

79

106

79

106

С

20

23

20

23

Model

MGX100K

MGX150K

MCX100K

MCX150K

- High strength adopt 0.5mm thickness SUS 304 Stainless steel
- Excellent anti-rust capability hood part coated with metallic silver paint prevents oxidation of material
- Easy installation 3pcs of spring clip facilitate duct/pipe connection
- 2.5x2.5mm net keep out ingress of small particles and insects from outside (MGX100K & MGX150K)
- It is recommended to use pipe hood with net at intake terminal while with-out net at exhaust

Performance Data









Dimension

D

97

147

97

147

Unit : mm

Е

48

53

48

53

Specification

Model	Diameter of Applicable Pipe [mm]	Material	Dimension of Net [mm]
MGX100K	100	Stainless Steel	2.5 x 2.5
MGX150K	150	Stainless Steel	2.5 x 2.5
MCX100K	100	Stainless Steel	-
MCX150K	150	Stainless Steel	-

Accessories - Vent Cap

VGX100K / VGX150K VCX100K / VCX150K



- High strength and excellent anti-rust capability adopt 0.5mm thickness SUS 304 Stainless steel
- Easy installation 3pcs of spring clip facilitate duct/pipe connection
- 2.5x2.5mm net keep out ingress of small particles and insects from outside (VGX100K & VGX150K)
- It is recommended to use pipe cap with net at intake terminal while with-out net at exhaust

Performance Data



Specification

Model	Diameter of Applicable Pipe [mm]	Material	Dimension of Net [mm]
VGX100K	100	Stainless Steel	2.5 x 2.5
VGX150K	150	Stainless Steel	2.5 x 2.5
VCX100K	100	Stainless Steel	-
VCX150K	150	Stainless Steel	-

Dimension Unit : mm

Model	А	В	С	D	E
VGX100K	120	97	145	13	47
VGX150K	169	149	195	18	52
VCX100K	120	97	145	13	47
VCX150K	169	147	195	18	52



Energy Recovery Ventilator



Energy Consumption Demand

There is a significant increase in the energy consumption demand globally, which is illustrated as in below charts.



Energy Saving Label Regulation

Significant energy saving could be achieved by using energy efficient appliances which help reducing the emission of greenhouse gases and other air pollutants from the power plants. To further facilitate the public in choosing energy efficient appliances and to raise public awareness on energy saving, Energy Labelling Schemes have been introduced.



Feature of Energy Recovery Ventilator

KDK Energy Recovery Ventilator is equipped with heat exchange core element. When outdoor fresh air and indoor foul air pass through the heat exchange core element, heat carried by the air is exchanged through air flow and heat conduction at the heat transfer sheets. Meanwhile, humidity exchange occurs from high humidity to low humidity as moisture is transferred due to the difference in pressure of water vapour.

Energy Saving





Summer

In summer, the indoor cool air discharged can be used to precool outdoor warm air before it gets delivered indoor and so reduces the cooling effort.



Whereas in winter, indoor warm air discharged can be used to preheat outdoor cool air before it is released indoor and so saves some energy of heating.



Cost Efficient

Highly efficient energy recovery reduces energy loss during ventilation, and hence achieves energy saving.

Long Term Energy Consumption Comparison

Comparison of the energy consumption over 180 days between using energy recovery ventilator and ventilating fan, in cooperation with air conditioning.



Energy saving while holding down the air-conditioning cost



ERV can pre-cool (in summer) or pre-heat (in winter) the incoming air through the heat exchange mechanism with the outgoing air. This can largely save the cost of indoor air conditioning.

Keeping comfortable indoor temperature regardless the condition outdoor



When it is cold outside, the incoming air is preheated by the outgoing warmed air before entering indoor.

Aiding effective soundproof



Energy recovery ventilator operates in an airtight indoor environment while keeping high performance of ventilation. As a result, indoor sound like night music and video can be enjoyed without worrying sound leakage to the outside.

Summer

By utilizing the returned indoor cool air to cool down the outdoor air before it enters indoor, the indoor cooling cost can be reduced.



When it is hot outside, the incoming air is pre-cooled by the outgoing cooled air before entering indoor.



Likewise, airtight houses can effectively block the noise from outside entering indoor while energy recovery ventilator keeps up high performance of ventilation.

Filter Box Specially for Middle East Region to Bring You Clean Air

KDK filter box is part of the ERV designed to make the indoor spaces insect free, dustproof and pollen free, such that fresh air can be circulated.

There are two filters, Primary Filter and PM2.5 Filter in one box. Incoming air firstly passes through Primary Filter which filters large particles like sand and insect. Then the tiny and invisible particles are further trapped by PM2.5 Filter. The ERV can bring you clean, fresh and comfortable air with these two layers of filters.

Filter Box





Filter Efficiency - Effectively capture PM2.5 and PM10 particles to deliver clean air to indoor

Air Volume	PM 2.5	PM 10
250	98%	98.2%
350	99%	99.2%
500	98%	98.8%
	Air Volume 250 350 500	Air Volume PM 2.5 250 98% 350 99% 500 98%



Dust Polluted Air in Riyadh

Comparison of the particle size distribution of air dust (At a House in Riyadh)



Field test result in Saudi Arabia

Sand dust carries large number of 2-10 micrometre particles. KDK ERV is well equipped with filter box specially designed for Middle East environment.



Field Test Period: 4th Nov 2014 - 15th Dec 2014

Ignition Loss Test* result in Saudi Arabia

Large particle can be effectively trapped by the filter. There are many pollutants can be obtained by filters.



* Test Period: 2014/11/04~2014/12/15 Test Filter: FY-FBG25C



Dirty PM 2.5 Filter after 1 month field test

	Collection amount (g)	2.5	
M 2.5 ilter	Moisture (%)	3.0	
	Inorganic matter (%)	61.7	

Standard Series

Usage: Living Room Shopping Mall

E25DZUA





Office

- Counter-flow heat-exchange element adopted for compact size
- Ease of maintenance through a single inspection hole
- Equipped with Extra-High setting
- · Bypass ventilation for speedy exhaust
- · Interlocking with air conditioning
- Motor insulation Class E
- IP protection: IPX2



Specification

Model	Voltage	Frequency	CFM /	CFM / SONE AT STATIC Pressure (ps-inches of H ₂ O)												Watts*	Watts**
woder	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	1.75	KEWI	FOR AMCA	FOR IEC
FOFDZUA	000	<u> </u>	CFM (OA-SA)	183	172	168	155	143	131	108	77	14	-	-	1,448	197	474
E25DZUA	220	60	CFM (RA-EA)	130	118	115.5	104	91	77	44	0	-	-	-	1,387	187	171

Performance certified is for installation type D-Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).*

Air performance ratings for gross supply airflow are from port 2. Air performance ratings for gross exhaust airflow are to port 3.

* The Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. ** The Watts rating is only for IEC test method and AMCA Certified Rating Seal does not apply to IEC test method watts.

Part name

an Moto

leat Excl

ndoor Filter

Ceiling Susp Switch Box

Filter Box Unit

Dimension Unit : mm



Installation method for case 1



Wiring Diagram



Installation method for case 2

Qty



Galvanized Steel Shee

Galvanized Steel Sheet

Standard Series

Usage: Living Room Shopping Mall

E35DZUA



Specification

	Model	Voltage	Frequency	CFM /	CFM / SONE AT STATIC Pressure (ps-inches of H ₂ O)												Watts*	Watts**
woder	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	1.75		FOR AMCA	FOR IEC	
		000	00	CFM (OA-SA)	258	250	247	237	225	211	174	144	118	69	-	1,425	348	04.0
	E35DZUA	220	60	CFM (RA-EA)	192	183	180	169	157	144	116	84	49	0	-	1,402	342	310

Performance certified is for installation type D-Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).* Air performance ratings for gross supply airflow are from port 2. Air performance ratings for gross exhaust airflow are to port 3. * The Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of 4.0. ** The Watts rating is only for IEC test method and AMCA Certified Rating Seal does not apply to IEC test method watts.

Dimension Unit : mm

and heat exchange core as specified in instruction

Maintenance Dimension It must be set the maintenance door, and clean the filter







Office

- · Counter-flow heat-exchange element adopted for compact size
- Ease of maintenance through a single inspection hole
- Equipped with Extra-High setting
- Bypass ventilation for speedy exhaust
- Interlocking with air conditioning
- Motor insulation Class E
- IP protection: IPX2

KDK Company, Division of PES and Panasonic Ecology Systems Energy Recovery Ventilator shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in tests and procedures performed and accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Wiring Diagram





Energy Recovery Venntilator

Standard Series

Usage: Living Room

E50DZUA





Office

- Counter-flow heat-exchange element adopted for compact size
- Ease of maintenance through a single inspection hole
- Equipped with Extra-High setting
- Bypass ventilation for speedy exhaust
- Interlocking with air conditioning
- Motor insulation Class E
- IP protection: IPX2







Specification

Medal	Voltage	Frequency	CFM /	CFM / SONE AT STATIC Pressure (ps-inches of H ₂ O)													Watts**
woder	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	1.75	KEW	FOR AMCA	FOR IEC
E50DZUA	220	60	CFM (OA-SA)	339	330	326	314	303	290	261	230	188	134	80	1,501	470	406
LOODZON	220	00	CFM (RA-EA)	253	241	238	224	207	190	154	117	82	41	-	1,452	443	400

Performance certified is for installation type D-Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).*

Air performance ratings for gross supply airflow are from port 2. Air performance ratings for gross exhaust airflow are to port 3. * The Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. ** The Watts rating is only for IEC test method and AMCA Certified Rating Seal does not apply to IEC test method watts.

Shopping Mall

Part name

an Moto

leat Excl Indoor Filter

Ceiling Suspe Switch Box

Filter Box Unit

Dimension Unit : mm



Installation method for case 1







Installation method for case 2

4 Galvanized Steel Shee 1 Galvanized Steel Sheet

Qty



087



EB90SA (Applicable to series DZUA)

- Power : 220V / 60Hz
- Rate voltage : 3.6W
- Outter size : 86x86x40mm

Filter Box Unit



No.	Part name	Qty	Material	No.	Part name	Qty	Material
1	Frame	1	Galvanized Steel Sheet	1	Frame	1	Galvanized Steel Sheet
2	Adapter	2	ABS	2	Adapter	2	ABS
3	Outdoor filter	2	Nonwoven Fabric	3	Outdoor filter	2	Nonwoven Fabric
4	Ceiling Suspension	4	Galvanized Steel Sheet	4	Ceiling Suspension	4	Galvanized Steel Sheet

Replacement Filter

Product name	Filter Model	Filter(s) Included	Applicable Model	Service life of the filter	Remarks	
Replacement filter	FP25DZUA	2	BE25DZUA	2-4 months		
for Filter Box Unit	FP50DZUA	2	BE50DZUA	2 + months	Clean monthly	
	FB25DZUA	1	E25DZUA			
Replacement filter	FB35DZUA	1	E35DZUA	6 months		
	FB50DZUA	1	E50DZUA			

. The service life of the filters varys with service environment, and the filters should be replaced with the new one. • The air volume and filter efficiency will drop to different levels because of different service environments and service time. If the whole area indicated by the arrow turns black, please replace the filter.

088



BE50DZUA

For E50DZUA





Energy Recovery Venntilator

Thermo Ventilator



Feature of Thermo Ventilator

Multi-functional

Ventilation - Exhaust foul smell and excessive moisture Circulation - Provide circulation of air to avoid uncomfortable feeling due to stagnant air Heating - Warm up the room for pleasant bathing **Clothes Drying** - Enable to dry large sized garments and bedclothes.





Circulation

Remote Control

control. · Turn off all operations Heating function · 6 selections of pre-set

All functions can be operated through wireless remote

Heater will be turned off after continuous run for 3 hours
 Continuous running is only for ventilation & cool air



Safety Protection



Multi-level safety structure protects you and yout property from any accidents

090





Heating

Clothes Drying

Filter Equipped

Equipped with dust filter to trap the dust.



Easy Installation

Specially designed compact size allows easy installation on most households' ceilings.

Structure is improved for easy wiring as compared with previous model.





Ceiling Mount Series

Toilet

Usage: Bathroom

30BUC





- Multi-function: Ventilation, Circulation, Heating and Clothes Drying
- PTC heating element for effective heating
- Multi-level safety protection
- 5-step off timer
- Motor insulation Class E
- IP protection: IPX2



Dimension Unit : mm



Spe	cific	ation

	Model	Volt	age	Air V	olume		Consumption [W]				Noise [dB(A)]				Installation Space
	modor	[V]	[Hz]	[CMH]	[CFM]	Heat	Vent	Dry Cool	Dry Hot	Heat	Vent	Dry Cool	Dry Hot	[kg]	[mm]
	30BUC	220	60	160	95	1,650	24	33	1,550	46	39	46	46	5.0	300 x 300

Test Condition

Pest Condition
Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 to -7 dB tolerance
The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Performance Data







Range Hood



Feature of Range Hood

Sirocco Fan

The adopted sirocco fans can outperform the turbo fans while keeping the noise level low.





Example

		Air Volume [m ³ /h]									
	Comparison of Suction Power	without duct	5m	5m duct 10		duct	15m	15m duct		ct grille	
	KDK	720	650	89%	610	84%	560	77%	580 (C)	79%	
	Other Brand	720	610	85%	540	75%	480	67%	530 (D)	74%	
6											
							At				
N.						617					
T											
-						-	X				
		/		1-		1	1				

094

A typical range hood installation involves a long duct with at least one bending like the diagram below. Under a condition of adopting 1.5m long duct with a grille that results a static pressure of 80Pa, KDK range hood's air volume can reach 580 m³/h at Point C while some other brands can only reach 530 m³/h at Point D as illustrated in the graph on the left.



Range Hood

Ceiling Mount Series

Usage: Kitchen

90HQUA





- 2 motors with 2 sirocco fans adopted
- Individual control of motors with 2-speed selection
- Rocker switch
- Easy detachable for cleaning
- Slim designed main body with only 115mm thickness
- Colour option: silver / dark gray
- Motor insulation Class E



Dimension

				Rocker Switch
	LAMP	LEFT	RIGHT	POWER
(KUK)	ON-	HI-	HI-	ON-
	OFF-	LO	LO	OFF

Specification

Madal	Vol	Voltage		Air Volume		Consumption	DDM	Noise	Weight	Duct Size							
woder	[V]	[Hz]		[CMH]	[CFM]	[W]	KEWI	[dB(A)]	[kg]	[mm]							
		50	Hi	785	462	152	993	52									
	000	50	Lo	484	285	75	570	38									
00110114	220	220	220	.20	Hi	779	459	127	905	53	10.0	0150					
90HQUA												60	Lo	464	273	69	594
	240	50	Hi	775	456	136	911	52.7									
		240	240	50	Lo	523	308	80	653	43							

Test Condition

Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa
The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 to -7 dB tolerance
The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side
The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Performance Data







Hand Dryer





Feature of Hand Dryer





Super Alleru-buster Filter

The filter is equipped to ensure the air blow to your hand is clean

Anti-bacteria Material as it is installed

G

The product body is adopted with anti-bacteria material to prevent the growth of bacteria and germs in the warm and humid environment of washroom

(T D Dr or

What is Super alleru-buster?

Super alleru-buster can inhibit up to several types of allergen

Phenolic Polymer • Polyphenol



Testing Organization: The Osaka Municipal Technical Research Institute. Testing Method: To measure the level of reduction in cat's dandruff by Enzyme-linked Immuno Sorbent Assay.



Safe Operation

- Eco Dry will stop after 60 seconds of continuous operation
- "Check" indicator will light up when the unit detects overheated

Quick Response Sensor

Automatic sensor operation, no physical contact is required to activate the unit

Heater ON/OFF Switch

Heater can be switched off for energy saving in hot season

Quick Drying with 3-way Airflow



palm with wide airflow

Wide Nozzle

Spot Nozzle

Dry fine water droplets by rubbing hands with spot airflow

Blow off water droplets on the whole

2 kinds of nozzle, wide nozzle and spot nozzle, are equipped at front and rear of drying chamber respectively for efficient drying. The structure realizes quick drying in only 4~9 seconds

(T09AC only) Drain Pan

Drain pan can reduce water dripping on the floor to avoid slippery

Full Tank Indicator

Remind you for cleaning up



Absorb & inactivate allergens

Standard Series

Usage: Toilet

T09AC / T09BC





- Powerful air velocity
- Automatic operation by infra-red motion sensor
- Super alleru-buster filter equipped
- Anti-bacteria material used on product body
- ON/OFF switch for heater
- Safety check indicator
- Auto stop after 60 seconds of continuous operation
- Motor insulation Class E
- IP protection: IPX1
- T09AC only: Drain pan and water tank equipped with full tank indicator

Specification

Model	Volt	Voltage		ption [W]	Air Velocity	Noise	Weight
woder	[V]	[Hz]	Heater ON	Heater OFF	[m/s]	[dB(A)]	[kg]
T 0040	220	50/60	1,020	650	90-110		1.0
TU9AC	230		1,070	700		<u></u>	4.0
T09BC	220		1,020	650		62	2.5
	230		1,070	700			3.5

Wiring Diagram



Dimension Unit : mm



T09BC





Air Curtain





Feature of Cross Flow Type Air Curtain

Efficient Barrier Effect

- The Cross Flow Fan enables wide and uniform airflow distribution while keeping up the required air volume at a low noise level.
- Unique Auxiliary Air Inlet allows more air intake at lower front that enhances airflow output.

Highly Durable

- · Resin with glass fiber material is used in the Hybrid Cross Flow Fan.
- Incorporated with the metal bush, the durability is prolonged significantly.

Easy Maintenance

- The Cross Flow Fan can generate air current between the fan and front cover. It forms the movement of dust that reduces dust accumulation on the fan blade.
- Simple structure allows convenient cleaning of the fan – just detach the front cover and metal plate to clean product interior.

Contemporary Design

Its modern and sleek outlook with the air inlet on top well fits to the contemporary interior, delivering a clean and neat image.

Convenient Control

- For remote controlled series, Stand-by and Hi/Lo speed can be simply switched by handheld remote control.
- For sensor series, it operates when the door is sensed open. It then automatically stops after 10 seconds once the door is sensed closed.







Cross Flow Type - Remote Control Series





Wiring Diagram

- Cross flow fan adopted for side and uniform airflow
- Thick air stream to provide high airflow momentum
- Fan blade made of resin with glass fibre and metal bush
- Permanently-lubricated ball bearing equipped
- Air deflection plate for airflow direction adjustment
- Soft touch switch panel with 2-speed selection
- Motor insulation Class B (4015GA: F)



Specification

Medel	Vol	tage		Air V	olume	Consumption	Current	Outlet Velocity	Noise	Weight				
Model	[V]	[Hz]		[CMH]	[CFM]	[W]	[A]	[m/s]	[dB(A)]	[kg]				
		50	Hi	1,100	647	76	0.35	10.5	48.5					
	220	50	Lo	920	541	70	0.32	8.5	45.0					
200000	220	60	Hi	1,100	647	92	0.42	10.5	49.5	10.5				
3009GA		00	Lo	900	530	78	0.36	8.5	45.0	12.5				
	240	50	Hi	1,150	677	86	0.37	10.5	50.5					
	240	50	Lo	960	565	80	0.35	9.0	47.5					
		50	Hi	1,340	789	110	0.50	12.0	54.5					
	220	50	Lo	1,190	700	94	0.43	10.0	51.0					
100000	220	<u></u>	Hi	1,340	789	141	0.64	12.0	55.5	40.5				
4009GA		60	Lo	1,100	647	111	0.51	10.0	51.0	13.5				
	240	50	Hi	1,360	800	122	0.51	12.5	56.5	1				
	240	50	Lo	1,200	706	100	0.43	11.0	53.5	1				
		50	Hi	1,400	824	94	0.43	9.5	48.5					
	000	50	Lo	1.270	747	85	0.40	8.0	45.0	1				
004004	220		Hi	1,400	824	109	0.51	9.5	48.5	45.0				
3012GA		60	Lo	1.250	736	94	0.46	8.0	45.0	15.0				
	240	50	Hi	1.500	883	107	0.46	10.0	50.5	1				
		50	Lo	1.320	777	95	0.43	9.0	47.0	1				
	220	50	Hi	1,700	1.001	126	0.59	12.0	52.5					
		220	220	220	220	220	50	Lo	1.530	901	105	0.49	10.0	49.0
404004	220	220	220	220	220	20	Hi	1,700	1.001	153	0.70	12.0	52.5	
4012GA		60	Lo	1,450	853	118	0.55	10.0	49.0	16.0				
	0.40	= 0	Hi	1.800	1.059	139	0.60	12.5	54.5	1				
	240	50	Lo	1.580	930	110	0.49	11.0	51.0	1				
		= 0	Hi	2.000	1,177	131	0.59	10.5	51.5					
	000	50	10	1.800	1.059	110	0.50	9.5	48.0	1				
004504	220		Hi	2.000	1,177	150	0.68	10.5	51.5					
3015GA		60	10	1,750	1.030	118	0.54	9.5	48.0	18.5				
	0.40		Hi	2,100	1,236	145	0.60	11.0	53.5	1				
	240	50	10	1.850	1 089	115	0.50	10.0	50.5	1				
			Hi	2 450	1 442	177	0.81	13.0	56.0					
	000	50	Lo	2,000	1.177	147	0.68	10.0	52.0	1				
101501	220		Hi	2,300	1.354	220	1.01	13.0	56.0					
4015GA		60	10	1 780	1.048	160	0.74	9.5	52.0	18.5				
	0.40		Hi	2 500	1 471	200	0.86	13.5	58.0	1				
	240	50	10	2,050	1 207	160	0.68	11.0	54.5					

Test Condition

Note : The parameters shown above are measured at ambient temperature of 20°C

- The values of noise level are measured at 1.5 m apart from the product at angle of 45° below the air outlet at which is the maximum value

- The velocity is measured in test laboratory. It may vary depends on different environment in actual usage



- Fan blade made of resin with glass fibre and metal bush
- Permanently-lubricated ball bearing equipped
- Air deflection plate for airflow direction adjustment
- Soft touch switch panel with 2-speed selection
- Motor insulation Class B (4015DA: F)

Specification

Medel	Vol	tage		Air Vo	olume	Consumption	Current	Outlet Velocity	Noise	Weight		
woder	[V]	[Hz]		[CMH]	[CFM]	[W]	[A]	[m/s]	[dB(A)]	[kg]		
		50	Hi	1,100	647	76	0.35	10.5	48.5			
	220	50	Lo	920	541	70	0.32	8.5	45.0			
200000	220	60	Hi	1,100	647	92	0.42	10.5	49.5	10.5		
3009DA		60	Lo	900	530	78	0.36	8.5	45.0	12.5		
	240	50	Hi	1,150	677	86	0.37	10.5	50.5			
	240	50	Lo	960	565	80	0.35	9.0	47.5			
		50	Hi	1,340	789	110	0.50	12.0	54.5			
	220	50	Lo	1,190	700	94	0.43	10.0	51.0			
400004	220	60	Hi	1,340	789	141	0.64	12.0	55.5	10.5		
4009DA		00	Lo	1,100	647	111	0.51	10.0	51.0	13.5		
	240	50	Hi	1,360	800	122	0.51	12.5	56.5			
	240	50	Lo	1,200	706	100	0.43	11.0	53.5			
		50	Hi	1,400	824	94	0.43	9.5	48.5			
2	220	50	Lo	1,270	747	85	0.40	8.0	45.0			
201204	220	00	Hi	1,400	824	109	0.51	9.5	48.5	45.0		
JUIZDA		60	Lo	1,250	736	94	0.46	8.0	45.0	15.0		
	240	50	Hi	1,500	883	107	0.46	10.0	50.5			
	240	50	Lo	1.320	777	95	0.43	9.0	47.0			
		50	Hi	1,700	1.001	126	0.59	12.0	52.5			
	220	220	220	50	Lo	1.530	901	105	0.49	10.0	49.0	
404004	220	00	Hi	1,700	1.001	153	0.70	12.0	52.5	40.0		
4012DA		60	Lo	1,450	853	118	0.55	10.0	49.0	16.0		
	240	50	Hi	1.800	1.059	139	0.60	12.5	54.5			
	240	50	Lo	1.580	930	110	0.49	11.0	51.0			
		50	Hi	2,000	1,177	131	0.59	10.5	51.5			
	220	50	Lo	1.800	1.059	110	0.50	9.5	48.0			
204504	220		Hi	2.000	1,177	150	0.68	10.5	51.5	10 5		
3015DA		60	Lo	1,750	1.030	118	0.54	9.5	48.0	18.5		
	0.40	= 0	Hi	2,100	1,236	145	0.60	11.0	53.5			
	240	50	Lo	1.850	1.089	115	0.50	10.0	50.5			
		50	Hi	2.450	1,442	177	0.81	13.0	56.0			
	220	50	Lo	2.000	1,177	147	0.68	10.0	52.0			
404504	220		Hi	2,300	1.354	220	1.01	13.0	56.0			
4015DA		60	Lo	1.780	1.048	160	0.74	9.5	52.0	18.5		
	0.40	= 0	Hi	2,500	1.471	200	0.86	13.5	58.0			
	240	50	Lo	2.050	1.207	160	0.68	11.0	54.5			

Test Condition

Note : The parameters shown above are measured at ambient temperature of 20°C

- The values of noise level are measured at 1.5 m apart from the product at angle of 45° below the air outlet at which is the maximum value - The velocity is measured in test laboratory. It may vary depends on different environment in actual usage

	Init	mm
0	/I II U	



Air Curtain

Cross Flow Type - Standard Series





Wiring Diagram

- Cross flow fan adopted for side and uniform airflow
- Thick air stream to provide high airflow momentum
- Fan blade made of resin with glass fibre and metal bush
- Permanently-lubricated ball bearing equipped
- Air deflection plate for airflow direction adjustment
- Soft touch switch panel with 2-speed selection
- Motor insulation Class B (4015UA: F)

Red ____Capacitor _____Orange Motor ireen/Yellov Black Black Switch White(H) White Yellow(L) Yellow **Double Pole Switch** Customer Provide (Contact Point Separate Distance Over 3mm)

Specification

Medel	Vol	tage		Air V	olume	Consumption	Current	Outlet Velocity	Noise	Weight					
woder	[V]	[Hz]	-	[CMH]	[CFM]	[W]	[A]	[m/s]	[dB(A)]	[kg]					
		50	Hi	1,100	647	76	0.35	10.5	48.5						
	220	50	Lo	920	541	70	0.32	8.5	45.0						
2000114	220	60	Hi	1,100	647	92	0.42	10.5	49.5	40.5					
30090A		60	Lo	900	530	78	0.36	8.5	45.0	12.5					
	240	50	Hi	1,150	677	86	0.37	10.5	50.5						
	240	50	Lo	960	565	80	0.35	9.0	47.5						
		50	Hi	1,340	789	110	0.50	12.0	54.5						
	220	50	Lo	1,190	700	94	0.43	10.0	51.0						
4000114	220	60	Hi	1,340	789	141	0.64	12.0	55.5	10.5					
40090A		60	Lo	1,100	647	111	0.51	10.0	51.0	13.5					
	240	50	Hi	1,360	800	122	0.51	12.5	56.5						
	240	50	Lo	1,200	706	100	0.43	11.0	53.5						
		50	Hi	1,400	824	94	0.43	9.5	48.5						
3012UA	220	50	Lo	1,270	747	85	0.40	8.0	45.0						
	220	0.0	Hi	1,400	824	109	0.51	9.5	48.5	45.0					
		60	Lo	1,250	736	94	0.46	8.0	45.0	15.0					
	240	50	Hi	1,500	883	107	0.46	10.0	50.5						
	240	50	Lo	1,320	777	95	0.43	9.0	47.0						
							50	Hi	1,700	1,001	126	0.59	12.0	52.5	
	220	50	Lo	1,530	901	105	0.49	10.0	49.0	40.0					
4042114	220	60	Hi	1,700	1,001	153	0.70	12.0	52.5						
40120A		60	Lo	1,450	853	118	0.55	10.0	49.0	16.0					
	240	50	Hi	1,800	1,059	139	0.60	12.5	54.5						
	240	50	Lo	1,580	930	110	0.49	11.0	51.0						
		50	Hi	2,000	1,177	131	0.59	10.5	51.5						
	220	50	Lo	1,800	1,059	110	0.50	9.5	48.0						
2015114	220	60	Hi	2,000	1,177	150	0.68	10.5	51.5	40.5					
30130A		60	Lo	1,750	1,030	118	0.54	9.5	48.0	10.0					
	240	50	Hi	2,100	1,236	145	0.60	11.0	53.5						
	240	50	Lo	1,850	1,089	115	0.50	10.0	50.5						
		50	Hi	2,450	1,442	177	0.81	13.0	56.0						
	220	50	Lo	2,000	1,177	147	0.68	10.0	52.0						
4015114	220	60	Hi	2,300	1,354	220	1.01	13.0	56.0	10.5					
40150A		00	Lo	1,780	1,048	160	0.74	9.5	52.0	18.5					
	240	50	Hi	2,500	1,471	200	0.86	13.5	58.0						
	240	240	50	Lo	2,050	1,207	160	0.68	11.0	54.5					

Test Condition

Note : The parameters shown above are measured at ambient temperature of 20°C

- The values of noise level are measured at 1.5 m apart from the product at angle of 45° below the air outlet at which is the maximum value

- The velocity is measured in test laboratory. It may vary depends on different environment in actual usage

Feature of Sirocco Type Air Curtain



Air Curtain

Sirocco Type - 900 Series





Wiring Diagram

- Sirocco fan adopted for long reach and narrow diffusion of airflow
- ABS resin casing to provide better weather resistance
- Permanently-lubricated ball bearing equipped
- Air deflection plate for airflow direction adjustment
- Push button switch
- 2-speed selection
- Motor insulation Class E

Specification

Medel	Vol	tage		Air Vo	olume	Consumption	Current	Outlet Velocity	Noise	Weight
woder	[V]	[Hz]		[CMH]	[CFM]	[W]	[A]	[m/s]	[dB(A)]	[kg]
		50	Hi	650	383	46	0.23	11.5	42	
	220	50	Lo	580	341	42	0.21	10.3	39	
08ESK	220	00	Hi	690	406	57	0.28	12.1	43	12.0
		60	Lo	560	330	49	0.25	9.9	38	
	240	50	Hi	680	400	51	0.24	11.9	43	
	240	50	Lo	620	365	47	0.23	10.9	41	
		50	Hi	750	441	72	0.40	13.0	46	
	220	50	Lo	630	371	62	0.29	11.1	42	
10ESK	220	00	Hi	860	506	88	0.42	14.9	50	12.0
		60	Lo	600	353	72	0.33	10.9	40	
	240	50	Hi	750	441	84	0.46	13.2	46	
	240	50	Lo	630	371	66	0.30	11.7	43	
		50	Hi	1,050	618	176	0.82	16.9	55	
	220	50	Lo	960	565	155	0.69	15.8	50	
12ESK	220	60	Hi	990	583	202	0.94	16.1	54	13.0
		00	Lo	940	553	170	0.75	15.3	49	
	0.40	50	Hi	1,120	659	200	0.86	17.9	57	
	240	50	Lo	1,040	612	169	0.75	16.8	54	
		50	Hi	1,340	789	257	1.14	21.9	62	
	220	50	Lo	1,168	687	218	0.99	19.1	59	
14ESK	220	60	Hi	1,303	767	312	1.43	21.3	61	13.0
		00	Lo	1,083	637	255	1.16	17.7	57	
	240	50	Hi	1,395	821	281	1.18	22.8	63	
	240	50	Lo	1,272	749	238	1.00	20.8	60	

Test Condition

Note : The parameters shown above are measured at ambient temperature of 20°C

- The velocity is measured in test laboratory. It may vary depends on different environment in actual usage



Sirocco Type - 1200 Series

Usage	Sho	opping	Mall	Reta	il Store					
08ELK 12ELK	(/ 10 (/ 14	ELK ELK					Front V	iew 1,200	Intake inlet	205 Mou
Pu	ush But	tton Sv	vitch							
ŀ	ABS Re	sin Cas	ing							SUL.
2	-speed	l Select	tion			Boor	low	Power supply 8 mo	unting holes	Exhaust outlet
						200 Control switch		400 400 400 400 400 400 400 400	im wood screw sed) ng holes are used)	5
				Doc Ser	or Contact Isor				Wiring I	Diagram
 Push bit 2-speed Motor in 	utton sw d selecti nsulation	vitch ion n Class	E			Ν	Black Black Black Red Capacitor		Air curtain unit	<u>-</u>
Madal	Vol	tage		Air V	olume	Consumption	Current	Outlet Velocity	Noise	Weight
WOUEI	[V]	[Hz]	1.15	[CMH]	[CFM]	[W]	[A]	[m/s]	[dB(A)]	[kg]
08ELK	220	50 60	Lo	800 940	471 553	53 74	0.27	10.6 12.4	41 45	. 14.0
	240	50	Hi	920	465 541	65	0.32	10.5	40	-
			Hi	1,000	589	96	0.28	13.1	42	
	220	50	Lo	830	489	74	0.35	11.0	42	
10ELK		60	Hi	1,150 790	677 465	116 85	0.56	15.1	50 41	14.0
	0.40	50	Hi	1,010	594	116	0.66	13.2	47	-
	240	50	Lo	880	518	86	0.38	11.6	43	
		50	Hi	1,420	836	224	1.04	17.0	56	-
12ELK	220		Hi	1,340	789	258	1.21	16.2	55	15.0
		60	Lo	1,290	759	220	1.04	15.4	50	10.0
	240	50	Hi	1,510	889	252	1.10	17.9	58	-
			Hi	1,410	1.099	333	1.52	22.5	63	
	220	50	Lo	1,668	982	290	1.32	20.1	61	
14ELK	220	60	Hi	1,826	1,075	423	1.93	22.0	63	15.0
			Lo Li;	1,552	913	339	1.55	18.7	59	-
	240	50		1,942	1,143	320	1.03	23.4	62	

Test Condition

Note : The parameters shown above are measured at ambient temperature of 20°C

- The values of noise level are measured at 1.5 m apart from the product at angle of 45° below the air outlet at which is the maximum value - The velocity is measured in test laboratory. It may vary depends on different environment in actual usage





Air Curtain

Ceiling Fan / Electric Fan



Safety Feature of Ceiling Fan

In pursuit of high quality of life, ceiling fans are expected with multiple functions and more value-added features. Safety and reliability have become the major concerns when selecting a ceiling fan.

Safety Shaft Cap



Stopping

Problem

Improper movement causes friction between bolt, motor shaft and pipe that increases wear and tear and cause fracture.

Our solution

Safety Shaft Cap can reduce movement between bolt, motor shaft and pipe. This minimizes wearing of motor shaft and bolt, thus prevent falling of fan.

Safety Blade Plate / Hanger

For Regulator Control Series



The plate hooks the blade as it detaches from the screws

Problem

Blade may break and fall off from fan motor in case fatigue failure of material occurs.

Safety Wire



Problem

Fan motor may fall from the pipe rod accidently due to factors such as wearing of shaft, bolt etc.

Our solution

Safety wire helps to secure fan motor with ceiling hook. This prevents falling of motor in case it detaches from the pipe rod.



Our solution

An exclusively designed fall prevention plate / hanger is equipped to hold blade to the motor in case of breakage. This mechanism secures against falling of blade.

Remote Control Series



U56PR





Lobby

- 3-speed selection
- Off Timer with LED indicator (1, 3, 6 hours)
- Sleep mode
- Thermal fuse to prevent overheating
- Current fuse to secure against power surge
- Safety wire provided
- Safety shaft cap to prevent fan falling
- Permanently lubricated ball bearing equipped
- Motor insulation Class E
- Colour: White body with golden ring



Wiring Diagram

Dimension

Unit : mm



Specification

Voltage		Frequency		Consumption	DDM	Air Ve	locity	Air Volume		Weight								
Model	[V]	[Hz]		[W] (() ()	KEWI	[m/min]	[ft/min]	[m³/min]	[ft ³ /min]	[kg]								
	50	50	Hi	62	175	137	449	181	6,392									
		Lo	20	87	-	-	-	-										
220	60	Hi	74	182	146	479	194	6,851										
LIEGDD		60	Lo	21	89	-	-	-	-	6.7								
USOFK	220	50	Hi	66	182	146	479	194	6,851	0.7								
	230 50	230 50	50	50	50	50	50	50	50	30 50	Lo	19	89	-	-	-	-	
040	50	Hi	73	188	153	502	204	7,204										
	240	50	50	Lo	20	94	-	-	-	-								

*Hi - Notch 3 / Lo - Notch 1

Regulator Control Series

Usage: Living Room Be	edroom Restaura	ant Lok	oby				
T48XC / T56XC						Dime	ension Jnit : mm
Clim Danal Bagulator		Model	9 inch	12 inch	16 inch	18 inch	22 inch
Silm Panel Regulator		Pipe Length	229	305	406	457	559
Metal Blades			Measure Center c	ement from of Pulley	F		7
	Sill Agnel Requise	F				Ø 240 C	
White	Gray				Mode	:	С
 5-speed selection Thermal fuse to prevent overheating 	ia.		85		T48XG T48XG	MN Ø	1,200

- I nermal fuse to prevent overneating
- Safety wire provided
- Safety shaft cap to prevent fan falling
- Permanently lubricated ball bearing equipped
- Motor insulation Class E
- Colour option: Gray body with silver ring White body with golden ring

Specification

Medel	Voltage	Frequency		Consumption	DDM	Air Ve	elocity	Air V	olume	Weight
woder	[V]	[Hz]	×	[W]	RPIN	[m/min]	[ft/min]	[m³/min]	[ft ³ /min]	[kg]
		50	Hi	45	285	160	525	155	5,474	
	220	50	Lo	15	137	-	-	-	-	
	220		Hi	55	311	175	574	170	6,003	
TARYC		60	Lo	15	129	-	-	-	-	53
140/0	220	50	Hi	49	296	165	541	170	6,003	5.5
	230	50	Lo	16	146	-	-	-	-	
	240	50	Hi	51	303	170	558	165	5,827	
	240	50	Lo	18	154	-	-	-	-	
		50	Hi	70	268	165	541	220	7,769	
	000	50	Lo	14	103	-	-	-	-	
	220		Hi	76	268	170	558	225	7,946	
TEGYC		60	Lo	17	106	-	-	-	-	
130/0	220	50	Hi	75	275	170	558	225	7,946	FG
	230	50	Lo	15	109	-	-	-	-	5.0
	240	50	Hi	76	273	165	541	220	7,769	
	240	50	Lo	17	115	-	-	-	-	

*Hi - Notch 5 / Lo - Notch 1



	Init	m	n
- U	יוו וי	 	







Regulator Control Series



Madal	Voltage	Frequency		Consumption	DDM	Air Ve	elocity	Air V	olume	Weight
Model	[V]	[Hz]	Î	[W]	KEWI	[m/min]	[ft/min]	[m³/min]	[ft ³ /min]	[kg]
		50	Hi	45	285	160	525	155	5,474	
	000	50	Lo	15	137	-	-	-	-]
	220	60	Hi	55	311	175	574	170	6,003	
T48XG		60	Lo	15	129	-	-	-	-	5.3
140/0	000	50	Hi	49	296	165	541	170	6,003	0.0
	230	50	Lo	16	146	-	-	-	-	1
	0.40	50	Hi	51	303	170	558	165	5,827	1
	240	50	Lo	18	154	-	-	-	-	1
		50	Hi	70	268	165	541	220	7,769	
	000	50	Lo	14	103	-	-	-	-	1
	220		Hi	76	268	170	558	225	7,946]
T56XG		60	Lo	17	106	-	-	-	-]
100/10	220	50	Hi	75	275	170	558	225	7,946	5.6
	230	50	Lo	15	109	-	-	-	-	5.0
	0.40	50	Hi	76	273	165	541	220	7,769	1
	240	50	Lo	17	115	-	-	-	-	1

*Hi - Notch 5 / Lo - Notch 1

Regulator Control Series

Usage: Living Room Bedroom Restaurant

X48XC / X56XC

Dimension

457

665

Unit : mm 18 inch 22 inch

559

764

С

Ø1,200

Ø1,400

Capacito

Live in

erminal

Source → Live in → (N) Neutral

- Earth

Speed Regulator



- 5-speed selection
- Thermal fuse to prevent overheating
- Safety wire provided
- Safety shaft cap to prevent fan falling
- Permanently lubricated ball bearing equipped
- Motor insulation Class E
- · Colour: White body with silver ring

Specification

Medel	Voltage	Frequency		Consumption	DDM	Air Ve	elocity	Air V	Air Volume [m³/min] [ft³/min] 155 5,474 - - 170 6,003 - - 170 6,003 - - 170 5,827 - - 165 5,827 - - 220 7,769 - -	
woder	[V]	[Hz]	*	[W]	[m/min]		[ft/min]	[m³/min]	[ft ³ /min]	[kg]
		50	Hi	45	285	160	525	155	5,474	
	220	50	Lo	15	137	-	-	-	-	1
	220	60	Hi	55	311	175	574	170	6,003]
X48XC		60	Lo	15	129	-	-	-	-	5.3
7,407,0	220	50	Hi	49	296	165	541	170	6,003	
	230	50	Lo	16	146	-	-	-	-]
	240	50	Hi	51	303	170	558	165	5,827]
	240	50	Lo	18	154	-	-	-	-	
		50	Hi	70	268	165	541	220	7,769	
	000	50	Lo	14	103	-	-	-	-]
	220	60	Hi	76	268	170	558	225	7,946]
X56XC		60	Lo	17	106	-	-	-	-	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000	50	Hi	75	275	170	558	225	7,946	5.6
	230	50	Lo	15	109	-	-	-	-] 0.0
	240	50	Hi	76	273	165	541	220	7,769	
	240	50	Lo	17	115	-	-	-	-	

*Hi - Notch 5 / Lo - Notch 1



Dimension

- 11	n	it.	mn	ŕ
- U	11	IU.		

Model	9 inch	12 inch	16 inch	18 inch	22 inch
Pipe Length	229	305	406	457	559
F	437	513	614	665	764







Regulator Control Series



X48XG / X56XG





• Thermal fuse to prevent overheating

• Safety shaft cap to prevent fan falling

• Colour: White body with silver ring

• Permanently lubricated ball bearing equipped

F 437 513 614 665 764

Lobby





Wiring Diagram



Specification

• 5-speed selection

• Safety wire provided

• Motor insulation Class E

Madal	Voltage	Frequency		Consumption	DDM	Air Ve	elocity	Air V	olume	Weight
Woder	[V]	[Hz]		[W]	KEW	[m/min]	[ft/min]	[m³/min]	[ft³/min]	[kg]
		50	Hi	45	285	160	525	155	5,474	
	000	50	Lo	15	137	-	-	-	-	
	220		Hi	55	311	175	574	170	6,003	
X48XG		60	Lo	15	129	-	-	-	-	53
74070	000	50	Hi	49	296	165	541	170	6,003	0.0
	230	50	Lo	16	146	-	-	-	-	
	0.40	50	Hi	51	303	170	558	165	5,827	
	240	50	Lo	18	154	-	-	-	-	
		50	Hi	70	268	165	541	220	7,769	
		50	Lo	14	103	-	-	-	-	
	220		Hi	76	268	170	558	225	7,946	
X56XG		60	Lo	17	106	-	-	-	-	5.6
100/10	000	50	Hi	75	275	170	558	225	7,946	0.0
	230	50	Lo	15	109	-	-	-	-	
	0.40	50	Hi	76	273	165	541	220	7,769	
	240	50	Lo	17	115	-	-	-	-	

*Hi - Notch 5 / Lo - Notch 1

Dimension

				C C	JUIT : UUU
Model	9 inch	12 inch	16 inch	18 inch	22 inch
Pipe Length	229	305	406	457	559
F	437	513	614	665	764



Cycle Fan

M40R

Usage: Living Room

360° Oscillation

Regulator

Metal Blades

Bedroom

- 5-speed selection
- Oscillation over 360°
- Speed and ON/OFF controlled by regulator
- Easy adjustment for circulating angle (15°, 30°, 50°)
- Thermal fuse to prevent overheating
- Safety wire provided
- Permanently lubricated ball bearing equipped
- Painted metal blades
- Colour option: Blue

Gray

Specification

Model	Voltage	Frequency	*	Consumption	PPM	Air Ve	locity	Air Vo	olume	Weight
Woder	[V]	[Hz]		[W]		[m/min]	[ft/min]	[m³/min]	[ft³/min]	[kg]
		50	Hi	46.8 - 57.2	1,080 - 1,320	256	840	79	2,790	
MAOD	000	50	Lo	22.5 - 27.5	690 - 850	-	-	-	-	13
IVI40K	220	00	Hi	57.7 - 70.5	1,160 - 1,410	277	909	86	3,037	4.5
		60	Lo	26.6 - 32.5	710 - 860	-	-	-	-	

*Hi - Notch 5 / Lo - Notch 1



Adjustment of Circulating Angle

The oscillation angle can be adjusted to 15, 30, 50 degrees.





Wall Fan - Cord-Operated Series

Usage: Living Room

Bedroom Restaurant

M30C / M40C



- 3-speed selection
- Speed and ON/OFF controlled by pull switch
- Speed and Oscillation change by pull cord
- Easy adjustment for tilt angle and oscillation angle
- Thermal fuse to prevent overheating
- Safety shaft cap to prevent fan falling
- Permanently lubricated ball bearing equipped
- Colour option: Blue (M30C and M40C) Gold (M40C only)

Installation



Specification

Madal	Voltage	Frequency	+	Consumption	DDM	Air Ve	elocity	Air Vo	olume	Weight
Woder	[V]	[Hz]		[W]	K F IVI	[m/min]	[ft/min]	[m³/min]	[ft ³ /min]	[kg]
		50	Hi	34.0 - 41.6	1,124 - 1,374	215	705	45	1,589	
14000	220	50	Lo	26.3 - 32.1	779 - 952	-	-	-	-	2.4
M30C	220	60	Hi	39.5 - 48.3	1,244 - 1,520	237	778	50	1,766	3.4
		00	Lo	27.3 - 33.3	714 - 872	-	-	-	-	
		50	Hi	42.5 - 51.9	1,097 - 1,341	226	741	63	2,225	
MAOC	220	50	Lo	33.5 - 40.9	744 - 910	-	-	-	-	
101400	220	60	Hi	52.8 - 64.6	1,166 - 1,425	241	791	67	2,366	4.4
		00	Lo	34.7 - 42.5	676 - 826	-	-	-	-	

*Hi - Notch 3 / Lo - Notch 1

Adjustment of Tilt Angle and **Oscillation Angle**

"One-touch" adjustment of tilt

School

The airflow can be adjusted upward or downward by simply moving the guard up or down as shown in the figure. Adjust the angle of the fan only after first confirming that it has stopped rotating.



Double oscillation

2 Install the fan stand

Back of the fan stan

To change the direction of the air flow, simply push the fan guard to the desired position.



Wall Fan - Remote Control Series

Usage: Living Room Bedroom Restaurant

M40M



Gray

- 3-speed selection
- Remote control for speed, oscillation and off timer
- · Soft touch switch panel with LED indicator
- Off timer (1, 3, 6 hours)
- Easy adjustment for tilt angle and oscillation angle
- Thermal fuse to prevent overheating
- Safety shaft cap to prevent fan falling
- Permanently lubricated ball bearing equipped
- Transparent plastic blade
- Colour option: Gray or Black

Installation



Specification

Model	Voltage	Frequency	*	Consumption	RDM	Air Ve	elocity	Air V	olume	Weight
Woder	[V]	[Hz]		[W]	IXI MI	[m/min]	[ft/min]	[m³/min]	[ft³/min]	[kg]
		50	Hi	46.8 - 57.2	1,055 - 1,289	228	748	63	2,225	
	000	50	Lo	37.9 - 46.3	688 - 840	-	-	-	-	
M40M	220	60	Hi	56.1 - 68.5	1,094 - 1,337	237	778	65	2,295	4.4
		60	Lo	37.9 - 46.3	625 - 763	-	-	-	-	

*Hi - Notch 3 / Lo - Notch 1

position.



Adjustment of Tilt Angle and **Oscillation Angle**

"One-touch" adjustment of tilt

The airflow can be adjusted upward or downward by simply moving the guard up or down as shown in the figure. Adjust the angle of the fan only after first confirming that it has stopped rotating.

Double oscillation

To change the direction of the air flow, simply push the fan guard to the desired





Wall Fan - Big Wall Fan

Usage: Restaurant School

Wet Market

YU50X





- Guide Vane design generates strong and focus air flow up to 10 m distance
- Aluminum blades for stronger air flow and durability
- Added angle adjust bolt for extra stability on the fan's knee joint
- Full automatic oscillation
- 3-speed ON/OFF pull switch
- New and modern Front Guard Design

New Guide Vane

Guide Vane shape is matched to intake flow, minimizing pressure loss.





Guide Vane

Change swirling flow to straight restrain flow spreading

New Metal Blade Design





New Guide Vane and metal blade design bring larger air volume and higher air velocity to reach further distance.

YU50X(NEW) Blade size: 50cm

5m

Deliver air efficiently to reach further distance especially in wide spaces of commercial area.



Specification

Mod		Voltage	Frequency		Consumption	DDM	Air Ve	elocity	Air V	olume	Weight
INIOC	Jei	[V]	[Hz]		[W]	IX F MI	[m/min]	[ft/min]	[m³/min]	[ft³/min]	[kg]
		000		Hi	63	1,230	280	919	100	3,531	
		220		Lo	53	850	-	-	-	-	1
		000		Hi	67	1,260	290	951	105	3,708]
		230	50	Lo	56	880	-	-	-	-]
VIIIE	21	0.40		Hi	70	1,280	300	984	110	3,885	
YU5	0X	240		Lo	60	940	-	-	-	-	4.4
		220	50	Hi	60	1,200	290	951	115	4,061]
		220	50	Lo	51	920	-	-	-	-]
		000		Hi	76	1,220	295	968	120	4,238]
		220	00	Lo	53	800	-	-	-	-]

*Hi - Notch 3 / Lo - Notch 1









Ceiling Fan / Electric Fan

Ceiling Mount Type Ventilation Fan (AMCA Certified)

		Voltage	Frequency			C	CFM / SC	ONE AT S	STATIC F	ressure	(ps-incl	nes of H ₂	0)			Watts*	Watts**
Series	Model	[V]	[Hz]	Speed	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.625	0.75	0.875	RPM	For AMCA	For ICE
		220	60	-	CFM	44	32	29	-	-	-	-	-	-	664	10	10
	4701111	220	00		Sones	0.3	0.5	0.6	-	-	-	-	-	-	001	10	10
	17CUH	0.40	50		CFM	51	43	40	-	-	-	-	-	-	700	10	0.5
		240	50	-	Sones	0.3	0.4	0.5	-	-	-	-	-	-	120	10	9.5
					CFM	83	73	68	46	-	-	-	-	-	505	40	10.5
		220	60	-	Sones	0.4	0.5	0.6	1.3	-	-	-	-	-	585	13	13.5
	24CUH				CFM	89	77	75	51	-	-	-	-	-	04.4	40	40
		240	50	-	Sones	0.5	0.7	0.7	1.4	-	-	-	-	-	614	13	12
		0.40	50		CFM	106	93	89	65	-	-	-	-	-	700	47	40.5
	24CDH	240	50	-	Sones	0.9	0.9	0.9	1.6	-	-	-	-	-	782	17	16.5
Sup					CFM	109	99	96	75	48	-	-	-	-	704	00	00.5
er Q		220	60	-	Sones	1.0	0.9	1.0	1.3	2.2	-	-	-	-	791	22	20.5
24CHH 24CHH 24CHH 24	0.40	50		CFM	117	109	96	73	33	-	-	-	-	004	04	40.5	
Seri		240	50	-	Sones	1.2	1.2	1.2	1.3	1.8	-	-	-	-	801	21	19.5
Se					CFM	140	128	125	106	78	-	-	-	-	000		
2 2	220	60	-	Sones	1.8	2.2	2.2	2.6	2.8	-	-	-	-	988	31	29	
	24CXH	0.40	50		CFM	137	122	117	86	32	-	-	-	-	004	04	00
		240	50	-	Sones	2.2	2.2	2.3	2.2	2.9	-	-	-	-	984	31	29
					CFM	182	162	156	118	78	37	-	-	-	570		
		220	60	Hi	Sones	1.1	1.2	1.3	1.7	2.2	2.5	-	-	-	570	33	33
	27CHH				CFM	198	179	172	126	78	18	-	-	-	000	07	0.4
		240	50	Hi	Sones	1.4	1.5	1.6	1.8	2.3	2.5	-	-	-	609	31	34
					CFM	226	202	196	163	127	91	53	-	-	500	40	40
		220	60	Hi	Sones	1.2	1.3	1.4	1.7	2.2	2.7	3.3	-	-	580	48	48
	32CDH				CFM	257	236	230	192	147	99	53	-	-	075	= 0	
		240	50	Hi	Sones	1.6	1.7	1.8	1.9	2.5	3.0	3.6	-	-	675	56	50
					55.100												

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is for AMCA test method and it is at the static pressure of 0 inch of H₂O.

** the Watts rating is only for IEC test method and the AMCA Certified Rating Seal does not apply to IEC test method watts.

Ceiling Mount Type Ventilation Fan (AMCA Certified)

		Voltage	Frequency			CFN	I/SON	E AT ST	ATIC P	ressure	(ps-inc	hes of I	H₂O)			Watts*	Watts**
Series	Model	[V]	[Hz]	Speed	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.625	0.75	0.875	RPM	For AMCA	For ICE
					CFM	88	88	88	88	63	34	5	-	-			
		220	60	Hi	Sones	0.7	1.0	1.0	1.3	1.7	1.8	3.1	-	-	853	10	8
R	Z4JKD		50		CFM	88	88	88	88	63	34	5	-	-	000	10	0
Mot		240	50	Hi	Sones	0.7	1.0	1.0	1.3	1.7	1.8	3.1	-	-			
or Se		000	60		CFM	88	88	88	88	63	34	5	-	-			
pries	24 14 0	220	60	HI	Sones	0.6	0.9	1.0	1.4	1.6	1.9	3.2	-	-	830	10	8
	Z4JAB	0.40	50		CFM	88	88	88	88	63	34	5	-	-	000	10	0
		240	50	Hi	Sones	0.6	0.9	1.0	1.4	1.6	1.9	3.2	-	-			
		000	<u></u>		CFM	55	40	37	20	-	-	-	-	-	495	13	12
	24004114	220	60	-	Sones	0.3	0.7	0.8	1.6	-	-	-	-	-	100	10	12
	24CIVIUA	0.40	50		CFM	55	44	41	24	-	-	-	-	-	562	14	13
		240	50	-	Sones	0.3	0.8	1.0	1.4	-	-	-	-	-	002		10
Me		000	60		CFM	94	85	83	72	54	-	-	-	-	681	25	23
tal		220	60	-	Sones	1.0	1.4	1.5	1.9	2.3	-	-	-	-			
Serie	240IVINA	240	50		CFM	108	98	95	77	44	-	-	-	-	753	27	25
N		240	50	-	Sones	1.4	1.8	1.9	2.1	2.2	-	-	-	-			
		220	60		CFM	208	184	178	144	108	79	-	-	-	615	46	43
	27CMHA	220	00		Sones	1.6	1.7	1.7	2.3	3.2	3.5	-	-	-			-
	27 0101171	240	50		CFM	219	194	188	150	110	70	-	-	-	669	46	43
		240	50		Sones	1.9	1.9	2.0	2.4	3.4	3.1	-	-	-			
Star	38CDG	220	60	ы	CFM	344	323	317	290	261	230	197	163	126	626	98	98
Idar	00020	220	00		Sones	3.1	3.2	3.2	3.3	3.6	4.1	4.5	5.7	5.7			
d Se	38CDG 05	240	50	ц;	CFM	387	367	362	336	305	259	212	165	108	737	118	107
ries	38CDG	240	50	п	Sones	4.0	4.1	4.2	4.3	4.4	4.7	5.3	5.7	6.2			

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft shutter. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: Free inlet hemispherical sone levels.

* the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H2O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Cabinet Fan (In-line Fan) (AMCA Certified)

			L	ow N	loise	Туре	Cabi	net F	an Mo	odel (Comp	ariso	n				
	Voltage	Frequency				CFM /	SONE A	T STAT	IC Press	sure (ps	-inches	of H ₂ O)				Watts*	Watts**
Model	[V]	[Hz]	Speed	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	RPM	For AMCA	For ICE
				CFM	114	105	102	87	65	-	-	-	-	-	4 400	20	22
12NICE	220	60	Hi	Sones	1.5	1.4	1.4	1.3	1.4	-	-	-	-	-	1,460	20	23
121100				CFM	102	90	86	67	39	-	-	-	-	-	1 2 1 2	27	22
	240	50	Hi	Sones	2.0	1.7	1.6	1.4	1.5	-	-	-	-	-	1,342	21	22
				CFM	200	183	177	149	118	83	-	-	-	-	1 5 2 0	45	42
15NSB	220	60	Hi	Sones	2.7	2.5	2.4	2.3	2.2	2.0	-	-	-	-	1,520	40	42
ISINOD				CFM	193	177	172	139	94	20	-	-	-	-	1 272	17	37
	240	50	Hi	Sones	3.7	3.4	3.2	2.6	2.5	2.8	-	-	-	-	1,373	47	57
				CFM	274	261	258	241	222	196	137	-	-	-	1 /70	80	73
18NSB	220	60	Hi	Sones	3.3	3.1	3.0	2.9	2.7	2.6	2.7	-	-	-	1,470	00	15
TONOD				CFM	281	263	259	232	200	163	34	-	-	-	1 2/12	8/	68
	240	50	Hi	Sones	4.8	4.4	4.4	3.8	3.4	3.0	2.9	-	-	-	1,042	04	00
				CFM	417	399	395	373	347	318	237	-	-	-	1 /20	128	110
18NFB	220	60	Hi	Sones	4.0	3.9	3.9	3.9	3.6	3.5	3.4	-	-	-	1,420	120	113
TOTAL D				CFM	429	406	400	381	344	290	78	-	-	-	1 3 2 7	135	104
	240	50	Hi	Sones	5.6	5.4	5.4	5.1	4.6	4.3	4.2	-	-	-	1,021	100	104
				CFM	469	459	456	444	433	413	354	275	-	-	1 380	170	159
20NSB	220	60	Hi	Sones	4.0	4.0	3.9	3.8	3.9	4.0	4.1	4.2	-	-	1,000	110	100
				CFM	517	500	495	464	424	382	265	110	-	-	1 328	175	135
	240	50	Hi	Sones	6.0	5.8	5.8	5.4	5.1	4.8	4.5	4.5	-	-	1,020		100
				CFM	655	642	640	625	611	597	555	505	440	-	1 400	350	310
23NLB	220	60	Hi	Sones	6.0	6.0	5.9	5.9	5.7	5.7	5.8	5.8	5.8	-	1,400		0.0
	0.40			CFM	688	670	664	642	614	579	493	388	199	-	1 342	347	260
	240	50	Hi	Sones	8.8	8.6	8.4	8.1	8.0	7.6	7.2	6.7	6.6	-	1,012	0.11	
				CFM	940	924	919	899	877	857	790	710	610	5.2	1 380	460	425
25NSB	220	60	Hi	Sones	7.1	7.1	7.1	7.0	6.8	6.8	6.7	6.7	6.7	6.9	1,000		
				CFM	963	938	935	906	868	822	719	567	395	-	1 305	481	370
	240	50	Hi	Sones	10.1	9.8	9.7	9.3	9.2	8.8	8.0	7.5	8.2	-	1,000		0.0
	000			CFM	1,016	1,000	995	975	954	933	875	803	710	590	1 420	680	520
25NFB	220	60	Hi	Sones	8.2	8.2	8.2	8.2	7.9	7.9	7.8	7.6	7.5	7.5	1,120		
	0.40			CFM	1,057	1,048	1,040	1,010	972	922	811	660	473	-	1 330	537	430
	240	50	Hi	Sones	12.1	11.9	11.5	11.1	10.6	9.8	8.7	8.7	10.3	-	1,000	001	

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

* the Watts rating is for AMCA test method and it is at the static pressure of 0 inch of H_O.

** the Watts rating is only for IEC test method and the AMCA Certified Rating Seal does not apply to IEC test method watts.

	Lo	w Nois	е Туре Са	abinet Fan ແ	Three Phas	e Series) 🖡	lodel	Compa	arison (Non-AMCA Certifie	d)
Model	Phase	Voltage	Frequency	Consumption	RPM	Air V	olume	Noise	Weight	Duct Size	Impeller Diameter [mm]
		[v]	[HZ]	[vv]		[CIVIE]		[UB(A)]	[Kg]	fuuul	Diameter [mm]
255\MC	2	200	50	940	1,375	4,000	2,354	43	60	250 y 250	250
203000		300	60	1,450	1,530	4,500	2,648	45	00	200 X 200	250
25 SMC	2	200	50	1,180	1,345	5,200	3,060	45	60	250 y 700	250
20010	3	300	60	1,750	1,470	5,500	3,237	46	00	250 X 700	250
20NIVO	2	200	50	600	1,295	2,600	1,560	44	20	Ø250	280
28NXC 3	3	360	60	840	1,380	2,650	1,560	45	28	w250	200

Note

The value in specification tables are representative characteristic value at 380V 50/60Hz.

RPM data is for reference only. Values may vary subject to different conditions.

The above Low Noise Type Cabinet Fan (Three Phase Series) Model are not licensed to bear the AMCA Certified Rating Seal

Industrial Type Ventilation Fan (AMCA Certified)

Marial	Voltage	Frequency			CFM /	SONE A	AT STAT	IC Press	ure (ps-	inches o	f H₂O)			Watts*	Watts**
Model	[V]	[Hz]	Inches of H ₂ O	0	0.05	0.075	0.1	0.125	0.25	0.375	0.5	0.375	RPM	FOR AMCA	FOR IEC
	220	60	CFM	788	742	715	686	647	-	-	-	-	1 570	61	57
25005	220	00	Sones	4.9	4.7	4.5	4.5	4.6	-	-	-	-	1,570	01	57
2003E	240	50	CFM	701	657	633	600	585	187	-	-	-	1 400	10	4.4
	240	50	Sones	3.8	3.6	3.6	3.5	3.6	8.6	-	-	-	1,400	40	44
	220	60	CFM	1,308	1,247	1,217	1,184	1,153	772	-	-	-	1 /60	120	110
20005	220	00	Sones	9.0	9.0	9.1	9.0	9.1	9.4	-	-	-	1,400	129	115
30GSE	240	50	CFM	1,177	1,119	1,090	1,058	1,026	561	243	-	-	1 3 1 5	106	08
	240	50	Sones	5.5	5.5	5.6	5.6	5.8	11.1	12.0	-	-	1,515	100	30
	220	60	CFM	1,850	1,788	1,752	1,712	1,669	1,456	600	-	-	1 6/0	179	161
25005	220	00	Sones	11.9	11.6	12.0	12.4	13.6	14.6	13.4	-	-	1,040	170	101
JOGSE	240	50	CFM	1,615	1,548	1,506	1,458	1,411	1,147	390	-	-	1 /25	120	100
	240	50	Sones	8.6	8.2	8.2	8.0	8.0	12.6	13.4	-	-	1,433	130	122
	220	60	CFM	2,677	2,581	2,535	2,488	2,440	2,170	2,050	-	-	1 550	204	270
4000E	220	00	Sones	20.0	20.0	19.7	19.4	19.3	18.9	19.9	-	-	1,550	294	270
40GSE	240	50	CFM	2,135	2,067	2,035	2,000	1,965	1,800	1,480	-	-	1 4 4 0	164	151
	240	50	Sones	9.0	8.5	8.7	8.7	8.7	13.0	14.2	-	-	1,440	104	131

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels. Speed (RPM) shown is nominal. Performance is based on actual speed of test. It the Watts rating is only for AMCA test method and it is at the statistic pressure of 0 inch of H.O. **the Watts rating is only for IEC test method.

Madal	Voltage	Frequency	CFM	/ SONE AT ST	ATIC Pressure	(ps-inches of	H ₂ O)		Watts*	Watts**
Model	[V]	[Hz]	Inches of H ₂ O	0	0.2	0.3	0.4	RPM	FOR AMCA	FOR IEC
	220	60	CFM	3,278	3,131	3,001	2,795	1 563	346	325
45000	220	00	Sones	10	10.4	10.6	10.8	1,505	340	525
45650	240	50	CFM	2,854	2,648	2,454	2,030	1 120	277	244
	240	50	Sones	7.8	7.7	7.8	9.4	1,430	211	241
	220	60	CFM	3,884	3,443	3,090	2,501	1 000	247	226
50000	220	00	Sones	10.9	<u>3,443</u> <u>3,090</u> <u>2,501</u> <u>1,080</u> <u>11.3</u> <u>11.5</u> <u>11.8</u> <u>1,080</u> <u>2,854</u> <u>2,266</u> <u>912</u>	347	320			
50GSC	240	50	CFM	3,354	2,854	2,266	912	11.8 912 968	202	271
	240	50	Sones	11.7	13.8	14.5	15.4	900	293	2/1
	220	60	CFM	5,038	4,349	3,943	3,560	1 000	204	264
	220	00	Sones	ones 10.1 9.8 9	9.5	10.1	1,000	304	301	
60GSC	240	50	CFM	4,402	10.1 9.8 9.5 10.1 4,402 3,855 3,366 2,972 9(000	200	262		
	240	- 50	Sones	10.3	8.6	8.5a	11.5	900	209	203

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings do not include the effects of appurtenances (accessories). The Speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H_O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.□*the Watts rating is only for AMCA test method and it is at the statistic pressure of 0 inch of H₂O. **the Watts rating is only for IEC test method.

Industrial Type Ventilation Fan (Non-AMCA Certified)

Model	Phase	Voltage	Frequency	Consumption	PPM	Air Vo	olume	Noise	Weight
Model	Thase	[V]	[Hz]	[W]		[CMH]	[CFM]	[dB(A)]	[kg]
45GTC	3	380	50	220	1,450	5,520	3,249	52	18.5
43010	5	500	60	330	1,690	6,420	3,779	56	10.5
50GTC	3	380	50	320	1,400	6,960	4,097	54	28.5
30010	5	500	60	475	1,590	8,010	4,715	58	20.5
ENCTO	2	380	50	310	940	9,420	5,544	49	34
00010	5	300	60	450	1,070	10,920	6,427	53	54

	Model	Voltage	Frequency	Air Vo	olume	Current	Input	Noise	DDM	Weight	Installation
	woder	[V]	[Hz]	m³/h	ft³/min	[A]	[W]	[dB(A)]	INF IVI	[kg]	W x L [mm]
		220		1,880	1,105	0.260	47.0	51.0	1,230 ~ 1,370		
	401/ 40 4	230	50	1,920	1,130	0.270	52.0	51.0	1,250 ~ 1,390	6.4	444 2 444
1	40KAQA	240		1,960	1,155	0.290	59.0	51.0	1,270 ~ 1,410	0.4	444 X 444
		230	60	2,130	1,254	0.310	67.0	52.5	1,400 ~ 1,540		

Note:

The value in specification tables are representative characteristic value at 220V, 50/60Hz. RPM data is for reference only. Values may vary subject to different conditions. The above Industrial Ventilating Fan Model are not licensed to bear the AMCA Certified Rating Seal.

Wall Mount Type Ventilation Fan (AMCA Certified)

Sorios	Model	Voltage	Frequency	CFM/SONE AT	STATIC Pres	sure (ps-inch	es of H ₂ O)	DDM	Watts**	
Series	Model	[V]	[Hz]	inches of H ₂ O	0	0.025	0.05	- RPIVI	FOR AMCA	FOR IEC
	204SB	220	60	CFM Sones	330 1.7	259 1.9	183 3.9	1,358	25.5	21.5
	ZUAGB	240	50	CFM Sones	296 1.5	198 1.7	151 3.2	1,252	22.4	19.5
	20ASB 05	240	50	CFM Sones	296 1.5	198 1.7	151 3.2	1,252	22.4	19.5
Me	254SB	220	60	CFM Sones	522 1.9	414 1.6	240 2.2	1,277	35.5	30.5
talli	20//00	240	50	CFM Sones	486 2.0	434 2.0	314 2.4	1,194	35.1	29.5
C	25ASB 05	240	50	CFM Sones	486 2.0	434 2.0	314 2.4	1,194	35.1	29.5
	304 SB	220	60	CFM Sones	637 2.0	400 2.7	85 2.2	1,088	39.8	34.5
	30400	240	50	CFM Sones	706 2.9	620 2.3	498 2.2	1,175	38.1	34
	30ASB 05	240	50	CFM Sones	706 2.9	620 2.3	498 2.2	1,175	38.1	34
	154401	220	60	CFM Sones	157 2.5	122 1.9	65 2.3	1,533	20.6	19
s A	IJAAQI	240	50	CFM Sones	154 1.7	120 1.4	63 2.1	1,453	20.1	19
tom	20AUH	220	60	CFM Sones	355 2.5	314 2.5	196 1.7	1,410	32.4	28.5
atic er	25AUH	220	60	CFM Sones	514 1.8	426 1.5	290 1.8	1,200	37.8	33
	30AUH 11	220	60	CFM Sones	572 1.0	453 1.7	235 2.6	856	37.0	33
L Su	20ALH	220	60	CFM Sones	328 3.5	280 3.2	170 3.4	1,385	32.8	28.5
hutte	25ALH	220	60	CFM Sones	420 2.7	372 2.7	232 4.6	1,097	37.5	33
er er	30ALH 11	220	60	CFM Sones	447 2.0	288 2.7	154 2.2	756	37.1	33

Sorios	Model	Voltage	Frequency	CFM/SONE	AT STATIC	Pressure (p	os-inches of	f H ₂ O)	DDM	Watts*	Watts**
Genes	Woder	[V]	[Hz]	inches of H ₂ O	0	0.02	0.04	0.06	INFIVI	FOR AMCA	FOR IEC
	204114	220	60	CFM Sones	370 2.1	328 2.1	274 2.2	227 2.5	1,430	23.5	22
	20/10/1	240	50	CFM Sones	339 2.0	295 2.1	257 2.0	200 2.7	1,303	23	21.5
Shu 25	254114	220	60	CFM Sones	542 2.4	504 2.3	460 1.9	361 2.5	1,387	33.2	31
matii Itter	25/10/1	240	50	CFM Sones	542 3.6	493 3.2	443 3.0	394 3.1	1,252	31	29
C	0	220	60	CFM Sones	655 2.0	567 1.6	456 1.6	242 2.4	938	35.3	33
	JUNUN	240	50	CFM Sones	696 2.0	580 1.8	491 1.6	340 2.2	964	34.8	32.5
	2041.4	220	60	CFM Sones	334 2.8	296 2.7	256 3.1	197 3.9	1,398	23.5	22
	ZUALA	240	50	CFM Sones	301 2.5	274 2.5	234 2.7	175 2.8	1,278	23	21.5
Auto	25 41 4	220	60	CFM Sones	471 3.4	411 3.2	350 2.9	250 3.0	1,224	33.2	31
 utter uver	25ALA	240	50	CFM Sones	482 4.2	438 4.1	389 3.8	328 3.8	1,217	32.1	30
	30ALA -	220	60	CFM Sones	510 2.5	446 1.9	372 2.0	219 2.1	876	35.3	33
		240	50	CFM Sones	571 3.1	494 2.6	411 2.5	263 3.3	896	35.3	32.5

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of backdraft shutter for all models and inlet grill for Model ALA, ALH, ALF 11. Performance ratings include the effects of inlet grille and backdraft shutter for Model ALA. The speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H.O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels. *the Watts rating only for AMCA test method and it is at the static pressure of 0 inch of H₂O.

**the Watts rating only for ICE test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts

Wall Mount Type Ventilation Fan (Non-AMCA Certified)

Model	Volt [V]	age [Hz]	Air Volume	Consumption	RPM	Noise [dB(A)]	Weight [ka]	Installation Space	Wall Thickness [mm]	
	220	50	76	4.3	2,660	33	[9]	[]	[]	
10EGKB	230	50	77	4.6	2,675	33	1.0	Ø130~140	100-150	
	240	50	77	5.0	2,690	33				
	220	50	162	5.7	2,265	36				
15EGKB	230	50	165	6.1	2,330	37	1.3	Ø175~185	100-150	
	240	50	165	6.5	2,390	37				
	220	50	76	4.3	2,665	35				
405000	220	60	87	4.7	3,140	37.5	0.0	Ø100 105	>205	
IVEGSD	230	50	77	4.6	2,670	35	0.0	0120~125		
	240	50	77	5.0	2,685	35				
	220	50	155	5.7	2,130	36				
15E00P	220	60	180	6.1	2,470	40	1.0	Ø165 170	. 240	
IJEGSD	230	50	160	6.1	2,230	37	1.0	0105~170	>240	
	240	50	165	6.5	2,240	37				
	220	50	76.3	15	1,250	40.1				
108401	220	60	72.9	17	1,200	39.8		155 x 205		
IVDAQT	230	50	80.3	16	1,300	41.2	1.7	100 X 200	-	
	240	50	84.9	17.5	1,385	42				

Note: RPM data is for reference only, values may vary subject to different conditions Test Condition

- Air volume, electric characteristic and noise are specified at the static pressure of 0 Pa

The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 to -7 dB tolerance
The values of noise level are measured at 1 m apart from the side of fan body when ducts are connected on outlet side

- The values of air volume are the mid-points of results measured by our company, within ±10% tolerance

Window Mount Type Ventilation Fan (AMCA Certified)

Model	Voltage	Frequency	CFM/SONE AT	STATIC I	Pressure (ps-inches	s of H ₂ O)	RPM	Watts*	Watts**
inouor	[V]	[Hz]	inches of $H_{_2}O$	0	0.05	0.1	0.15		FOR AMCA	FOR IEC
	220	60	CFM	127	94	63	31	2 4 4 0	116	12
15W/HCT	60	Sones	3.0	3.6	3.5	3.9	2,440	14.0	15	
13001101	240	50	CFM	127	95	68	50	2 5 2 7	16	15
		50	Sones	2.3	2.7	3.5	2.8	2,557	10	15
	220	60	CFM	250	188	127	78	1 5 1 7	24.4	22
20WHCT	220	60	Sones	3	3.9	4.5	4.2	1,517	24.4	22
	240	50	CFM	230	147	103	53	1 222	22.4	22
		50	Sones	2.8	3.8	3.4	4	1,333	23.4	22

Model	Voltage	Frequency	CFM/SONE AT	STATIC I	Pressure (s of H ₂ O)	RPM	Watts*	Watts**	
inicati	[V]	[Hz]	inches of $H_{_2}O$	0	0.02	0.04	0.06		FOR AMCA	FOR IEC
	220	60	CFM	124	109	91	79	2 021	10.6	18
15WAA 220	00	Sones	3.6	4.5	4.1	4	2,021	10.0	10	
15WAAMN	240	50	CFM	127	109	93	78	2.062	18.2	16
		50	Sones	2.3	4.5	4.1	3.8	2,002	10.2	10
	220	<u> </u>	CFM	250	147	124	94	1 395	19.4	17
20WAA 20WAAMN	220	60	Sones	3	3.8	3.5	3.3	1,505	10.4	17
	240	240 50	CFM	230	153	141	131	1 375	19.6	17.5
	240	50	Sones	2.8	3.3	3.4	3.4	1,375	10.0	17.5

Model	Voltage	Frequency	CFM/SONE AT	STATIC F	Pressure (of H ₂ O)	RPM	Watts*	Watts**	
	[V]	[Hz]	inches of H ₂ O	0	0.01	0.02	0.03		FOR AMCA	FOR IEC
	220	60	CFM	105	94	79	66	1.425	9.7	8.9
15WUD	220	00	Sones	0.9	0.9	2.2	2.4	.,.=0	0.11	0.0
15WUDMN	240	50	CFM	124	115	104	94	1.722	10.3	9.5
	240	50	Sones	1.4	1.6	1.8	3.7	.,		010
			inches of $\rm H_{2}O$	0	0.02	0.03	0.04			
	220	60	CFM	188	129	112	88	980	19.2	17 9
20WUD	220	00	Sones	0.8	1.2	1.8	1.4	000	10.2	11.0
20WUDMN	240	50	CFM	221	168	141	118	1.096	18.5	17.2
	240	00	Sones	1.8	1.6	2.2	2.0	.,		

Performance certified is for installation type A: Free inlet, Free outlet with partition. Performance ratings include the effects of backdraft shutter for all models and inlet grill for Model 15WHCT and 20WHCT. The Speed (RPM) and Watts rating shown are at the static pressure of 0 inch of H₂O. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: Free Inlet hemispherical sone levels. * the Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H₂O. ** the Watts rating is only for IEC test method and the AMCA Certified Ratings Seal does not apply to IEC test method watts.

Energy Recovery Ventilator (AMCA Certified)

Medal	Voltage	Frequency	CFM /	SONE	AT S	TATIC	Pres	sure (ps-inc	hes o	f H ₂ O))			DDM	Watts*	Watts**
woder	[V]	[Hz]	Inches of H ₂ O	0	0.1	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	1.75	RPM	FOR AMCA	FOR IEC
	60	CFM (OA-SA)	183	172	168	155	143	131	108	77	14	-	-	1,448	197	171	
LZODZON	220	00	CFM (RA-EA)	130	118	115.5	5104	91	77	44	0	-	-	-	1,387	187	17.1
	220	60	CFM (OA-SA)	258	250	247	237	225	211	174	144	118	69	-	1,425	348	310
LUUDZON	220	00	CFM (RA-EA)	192	183	180	169	157	144	116	84	49	0	-	1,402	342	010
EFODZIJA	220	60	CFM (OA-SA)	339	330	326	314	303	290	261	230	188	134	80	1,501	470	406
E50DZUA	220	220 60	CFM (RA-EA)	253	241	238	224	207	190	154	117	82	41	-	1,452	443	400

Performance certified is for installation type D-Ducted inlet, Ducted outlet.Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).* Air performance ratings for gross supply airflow are from port 2. Air performance ratings for gross exhaust airflow are to port 3. * The Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H_2O .

** The Watts rating is only for IEC test method and AMCA Certified Rating Seal does not apply to IEC test method watts.

	Size (mm)	650 x 750 x 220	680 x 920 x 230	680 x 1090 x 240
Main	Weight	30	39	45
Body	OA Side Duct Diameter			
-	Duct Diameter RA/SA/EA	Ø1		

Up-Side	Down Installation	Up-Side Down Installation					
Filter	Duct Diameter	Ø200					
Box	Size (mm)	600 x 385 x 240 600 x 385 x 350					
			1				

Mini Sirocco Fan (Non-AMCA Certified)

Medal	Veltere IVI	Frequency	Speed	Air Volume	Consumption	Noise Le	evel [dB]	Net Weight
Model	voltage [v]	[Hz]	Speed	[CMH]	[W]	Inlet	Side	[kg]
		50	Hi	154	15	41.0	28.0	
	000	50	Lo	115	12	35.5	24.0	
	220	<u></u>	Hi	133	12	36.5	24.0	
10CCR		60	Lo	93	9	28.5	20.0	1.0
IUCOB	000	<u></u>	Hi	143	13	38.0	25.0	1.5
	230	60	Lo	100	10	30.5	20.0	
	220.240	50	Hi	134-143	10-11	37.0-39.0	23.0-25.0	
	220-240	50	Lo	110-125	9-10	32.0-35.0	20.0-23.0	
		50	Hi	250	22	44.0	29.0	
	000	50	Lo	175	16	32.0	19.0	
	220	<u></u>	Hi	225	25	42.5	29.0	
1200B		60	Lo	145	18	32.0	21.0	2.5
IZCGB			Hi	242	27	44.0	30.0	2.5
	230	60	Lo	153	19	34.0	21.5	
	220.240	50	Hi	233-262	23-28	44.5-46.5	29.0-32.0	
	220-240	50	Lo	156-175	19-23	33.0-36.0	18.0-20.0	
		50	Hi	332	35	50.0	34.0	
	220	50	Lo	226	28	40.0	26.0	
	220	<u></u>	Hi	260	30	43.0	30.0	
14CCP		60	Lo	200	25	35.5	25.0	20
14008			Hi	275	33	44.5	31.5	2.0
	230	60	Lo	212	28	37.5	26.0	
	220.240	50	Hi	280-315	28-32	44.5-46.5	31.0-33.0	
	220-240	50	Lo	227-265	26-30	40.0-44.0	27.0-31.0	
		50	Hi	509	50	49.0	35.0	
	000	50	Lo	405	43	43.5	30.0	
	220		Hi	483	57	48.0	32.0	
10000		60	Lo	372	44	41.0	27.0	5.0
IOCOB			Hi	503	61	49.0	34.5	5.0
	230	60	Lo	393	48	42.5	29.0	
	220-240	50	Hi	509-542	50-56	49.0-51.5	35.0-38.0	
		220-240	50	Lo	405-450	43-48	43.5-46.0	30.0-32.0

Mini Sirocco Fan (Non-AMCA Certified)

Medel	Valtara IVI	Frequency	Grood	Air Volume	Consumption	Noise L	evel [dB]	Net Weight
woder	voitage [v]	[Hz]	Speed	[CMH]	[W]	Inlet	Side	[kg]
		50	Hi	791	86	50.0	36.0	
	220	50	Lo	640	70	44.0	31.0	
		<u>co</u>	Hi	752	95	49.0	34.0	
17CGB		00	Lo	612	73	43.5	29.0	10.1
	220	60	Hi	789	104	50.0	35.0	
	230	00	Lo	641	80	44.0	31.0	
	220-240	50	Hi	791-875	86-101	50.0-52.5	36.0-39.0	
	220-240	50	Lo	640-705	70-83	44.0-47.0	31.0-32.0	
		50	Hi	947	121	55.0	41.0	
	220	50	Lo	857	105	51.5	37.0	
	220	60	Hi	885	127	52.0	39.0	
19CGB		00	Lo	760	107	48.0	37.0	10.2
	220	60	Hi	931	140	53.5	40.0	
	230	00	Lo	791	117	49.5	36.5	
	220-240	50	Hi	919-997	113-130	52.0-54.0	40.0-42.0	
	220-240	50	Lo	804-880	99-115	50.0-52.0	38.0-40.0	
		50	Hi	1420	238	67.0	54.0	
	220	50	Lo	1143	182	60.0	47.0	
	220	<u>co</u>	Hi	1500	328	68.0	57.0	
210CP		60	Lo	1042	215	58.0	47.0	14.6
21008	000		Hi	1550	342	69.0	57.5	14.0
	230	60	Lo	1100	230	59.5	48.0	
	220.040	50	Hi	1420-1435	238-247	66.0-67.0	54.0-55.0	
	220-240	UC	Lo	1143-1220	182-197	60.0-62.5	47.0-51.0	

Notes:

① The values of rated input, air volume and noise are specified at the static pressure of 0 Pa. © The values of noise level is A weighted average sound pressure level, the mean values are measured by our company, within +3 and -7 tolerance. ③ The values of noise level are measured at the 1.5m apart from the inspection panel of the fan body when ducts are connected on both inlet and outlet

side. It is based on the assumption that the noise of fan body propagates to room inside. (1) The values of air volume are the mid-points of results measured by our company, with ±10% tolerance.

Reference Project



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Ducted Ventilation Products

Window Mount Type Ventilation Fan

Residential Building Labor Camps Comples Ceiling Fan, Window Mount & Industrial Type Ventilation Fan

Reference Project

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Installation Method



Ceiling Mount Type Ventilation Fan

Applicable Model:

24JRB / 24JAB / 17CUH / 24CUH / 24CDH / 24CHH / 24CXH / 27CHH / 32CDH 24CMUA/ 24CMHA/ 27CMHA/ 38CDG/ 38CDG 05/ 38CHG

1A Installation with anchor bolts



1B Installation with wooden joist

 First remove the hexagon screw attaching the adapter assembly to the fan body. 	 Build a wooden frame horizontally from the body and the ceiling should be at least 20r 	keel. Note that the dis nm.	stance between	the top of the fan
		Model No.	F	В
Remove the bexagon screw	G F Square	17CUH	177	25-30
	Wooden keel	24CUH / 24CDH / 24CHH / 24CXH 24CMUA/24CMHA/ 27CMHA	240	25-30
		24JRB / 24JAB	240	30-40
T	*Calling laist must be subjected to static load more than	27CHH	270	25-30
	5 times of the product weight.	32CDH	320	25-30
		38CDG/38CDG05/ 38CHG	380	30
		Unit : mm		
3. Attach the adapter assembly to the wooden frame as shown in the figure.	4. Insert the fan body in the wooden fra connect it to the adapter assembly. Hook securely Adapter assembly Wooden Frame Power cord Flange Fan body	ame and 5.	Firmly secure a with four tapping hexagon screw.	the fan body g screws and a

Ceiling Mount Type Ventilation Fan

2 Power Cord Connection



3 Duct Connection and Ceiling Plate Installation



4 Louver Installation



Slope the duct downward and guide it through the wall to the outside. Be sure to prevent rainwater from falling in the duct from its outlet. (The minimum size of the hole opening on the wall is: Ø116mm for 17/24 model, Ø168mm for 27/32/38 model)



 Install the pipe hood or vent cap (optional accessories) on the outer wall.

Model No.	Pipe Hood	Vent Cap
24JRB / 24JAB / 17CUH / 24CUH / 24CDH / 24CHH / 24CXH	MCX100K	VCX100K
27CHH / 32CDH / 38CDG / 38CDG 05 / 38CHG	MCX150K	VCX150K

Wall Mount Type Ventilation Fan





- · Connet the power cord to the power supply line according to the wiring diagram and the local electrical wiring rules of fixed wiring.
- · Make sure all connections are fastened firmly after wiring is finished.
- It is required to use terminal (not supplied) that complies IEC 60998.
- · The all connections should be accommodated in a suitable compartment.



Wall Mount Type Ventilation Fan





Window Mount Type Ventilation Fan

Applicable Model: 15WHCT/20WHCT

- 1. Make an installation hole on the window glass according to the dimensions shown in the table. (Applicable to single-glass or double-glass, and the single block thickness of double-glass must be not less than 3mm.) Model No. С А B 100 Min 15WHCT 186~188 390 Min 20WHCT 247~250 450 Min. 100 Min. 3-25mm Unit : mm
- 2. Remove the screw of louver and retain it, then pull the louver out of the lower-right corner.

Machine Screw(M3)

- Louver can be pulled out only from the lowerright corner or it may be damaged.
- position as shown below. Positioning Rib Installation Plates

3. Before installation, please ensure every installation plate is at the

As shown in the diagram. the installation plates must be positioned in the slot between the frame and the hood. Its front edge should not exceed the positioning rib, or installation may fail.

4. Keep the "UP" mark on the orifice on the top position. Insert the ventilation fan body into the installation hole completely. Be sure to keep the back of the body closed to the glass evenly, then twist each installation screw clockwise until the installation plates slightly compress the glass.



5. Rotate the body to adjust its horizontal and vertical direction. Then tighten each installation screw completely.



To ensure the installation strength, please make sure the tighten torque must be in the range of 90cN-m to 180cN-m. If the tighten torque is not large enough, it may result in rain water ingression through the gap; If the tighten torque is too large, it may damage the glass.

6. Hang the louver on the hook of orifice, rotate downward and insert it into the orifice. Fix the louver with the screw which was removed at installation step 2.





Must use the above specified screw to fix. Otherwise it may damage the product or lead to



installation failure.



1. Make an installation hole on the window glass.



3. Loose the orifice screws (2 pcs) and remove the orifice.



4. While installing the fan, align the fan to top of the hole of window glass and push the buttom of the fan into the hole. Then push the fan downward and tighten the safety screw afterward.





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Window Mount Type Ventilation Fan

Applicable Model: 15WUD/20WUD/15WAA/20WAA

2. Set the plastic gasket on the hole that the seam is at upper half (either left or right side).

Seal the gap between the glass and gasket with silicon sealant to ensure airtightness.



15WAA / 20WAA



Industrial Type Ventilation Fan

Applicable Model:







Setting of Reverse Airflow

For 25GSE, 30GSE and 35GSE

1) Loosen the blade setscrew to remove the blade 2) Set the wiring according to wiring diagrams in operation instruction 3) Mount the blade in reverse position and fix with the blade set screw



For 40GSE, 45GSC, 50GSC, 60GSC, 45GTC, 50GTC & 60GTC

1) Loosen the blade setscrew (*1) or snap pin / hexagonal nut (*2) to remove the blade



* Air volume of reverse airflow (intake) would vary subject to different models

Low Noise Type Cabinet Fan (In-line Fan)



Note: To install the fan with the inspection panel facing down, remove the attached four hanger fittings and re-attach them in the holes on the top and bottom surfaces (Use the screws you just removed). The former holes for installing the hanger fitting need be sealed.

Model No.	А	В	С	D
12NSB	250	335	291	184
15NSB	250	346	302	206
18NSB	276	382	338	232
18NFB	336	441	397	254
20NSB	376	485	441	272
23NLB	424	513	469	298
25NSB	450	549	505	334
25NFB	450	549	505	334

Unit : mm
Low Noise Type Cabinet Fan (In-line Fan)

Applicable Model: 25SWC/25SMC



Wiring Connection



Mini Sirocco Fan



olt, nuts, plain washers No provide)	Dimension L
M5	Bolt should reach 2-3
M10	threads through the nut

Energy Recovery Ventilator



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Thermo Ventilator



Range Hood

Applicable Model: 90HQUA



Hand Dryer



Lift it up slightly, and then pull it out. Water Main unit fixing tray unit screw hole



Air Curtain

Applicable Model:

Cross Flow Type

1. Install mounting plate on the wall

I. Remove the mounting plate from rear of the product



II. Set the bolts on the wall

III. Fix the mounting plate with washers and nuts



Mounting plate

2. Wiring



3. Install air curtain

I. Hook the air curtain on the mounting plate and tighten the screws (x3)



II. Fix the contact sensor (for Sensor Series only)



Ceiling Fan

Applicable Model: Regulator Control Series

(1) Assemble Pipe to Motor Assembly

1. Pull power cord (from power supply) and insert into the Pipe hole.





 Fix the Pipe and Motor Assembly with a) Ellipse Bolt, b) P-R Washer, c) Spring Washer, d) Hexa Nut and e) Cotter Pin.



5. Fix Safety Wire to the Motor Shaft with Safety Wire Screw



(2) Install Blade Assembly

 Remove Blade Screws from Motor Assembly. Set the Blade towards the Cover Hook and ensure the Blade Safety Plate is in proper position.



2. Ensure the Shaft Cap is set on the Motor Shaft and tighten with the Stopping Screw. Fit the Pipe to the Shaft Cap that the Pipe hole and the Motor Shaft hole are aligned.

4. Bend the Cotter Pin.

6. Connect the power cord to 3-pin Terminal.



2. Tighten the Blade Screw firmly (2 screws per blade)



Ceiling Fan

(3) Install to the ceiling

1. Cross the C Hook of the Pulley Set to the Pipe and Place the Pulley on Ceiling Hook









2. Pull down the Lower Canopy until it stop and fix to the Pipe with screw.

2. Set the Regulator to the wall regulator casing and fix with screws.

(4) Fix the Canopy

1. Adjust Upper Canopy position and fix to the Pipe with screw.



(5a) Install Speed Regulator (Slim Panel Regulator)

1. Insert the Live Wires (from supply source and Motor) into the 2 pin terminal of the regulator and tighten the terminal screw.



(5b) Install Speed Regulator (Box Regulator)

1. Insert the Live Wires through the hole of Regulator Base and fix the base with the screws.



2. Insert the Live Wire (from supply source and Motor) into the 2 pin terminal of the regulator and tighten the terminal screw



3. Set the Regulator cover by inserting the protruding parts of the Regulator Base into the holes of Regulator Cover and fix with the screw



Orbital Fan

1. Install fan stand on the ceiling

I. Install mounting plate on the ceiling with the bolts (x2)







- 2. Assemble the fan
- I. Set rear guard on the stand by aligning the projection part to the hole
- II. Fit rear guard on the stand with wing bolt (2 pcs)





blade

IV. Set the blade to the blade boss and align the projection part to the hole of blade





3. Install Regulator and Wiring

I. Open the regulator cover and mount the regulator base on the wall

Regulato





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Safety Wir



III. Set the stand to the mounting plate. Align the screw hole and tighten the set screw





III. Insert blade boss to the shaft. Ensure the groove is correctly fit to the shaft pin Blade B



V. Tighten the spinner to fix the

VI. Set front guard to the rear guard and clip.





Wall Fan

Notes

1. Install wall bracket on the wall



2. Install fan stand



Remote Control Series Cord-operated Series Back of fan stand

3-b. Install safety screw For Cord-operated Series



Safety Screw Hole

Marking Pen

II. Take out the stand from wall bracket. Drill hole and insert wall plug

Wall Bracket



Safety Screw



3-a. Install safety wire For Remote Control Series

Metal caulking

III. Tighten safety screw to fix the stand

Screw Driver

ii. Drill hole and insert wall

on the wall

plug. Fix the safety wire

i. Fix safety wire on the

bottom plate of the

stand

Bottom plate

4. Assemble the fan



