



SINCE 1909
JAPAN



AIR CURTAIN



Wide & Uniform Airflow



Low Power Consumption



Low Noise

Doors of a shop need to be opened frequently to let people pass through. However, opening door allows air leaks to outside that increases energy consumption of air conditioning. By using Air Curtain, an invisible air screen will build up to minimize air exchange between the air outdoor and indoor.

EFFECTS OF AIR CURTAIN

|| Heating / Cooling Retention



Retains heated or cooled air within the space which entrance is frequently opened such as restaurants, shopping malls, etc. It allows minimum temperature fluctuation in the space area (*1)

|| Deodorizing Effect



Prevents odors from special function rooms, such as vegetable preparation rooms and chemical labs, etc., and also the automobile exhaust fumes from outside street (*1)

|| Insect-proof Effect



Checks out annoying, harmful and germ-laden insects to maintain the required health and sanitation standards in the space area (*2)

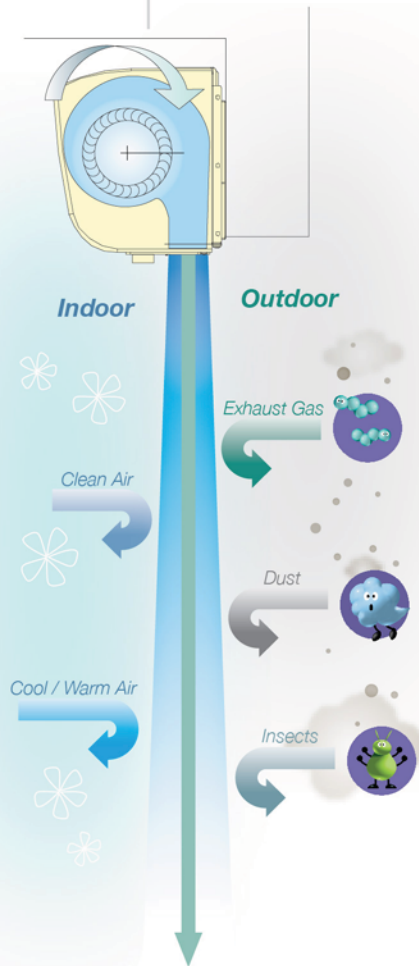
|| Dust-proof Effect



Screens out dirt and dust from outside street that maintains a clean environment for food or clothing stores (*1)

(*1) Outside wind, air flow from air conditioners, using ventilators, etc., may significantly lower the shielding effectiveness.

(*2) The effectiveness against insects depends largely on the kind of insect, surrounding environment, air velocity of the air curtain, etc. If more effective insect prevention is required, use the air curtain in combination with other methods.



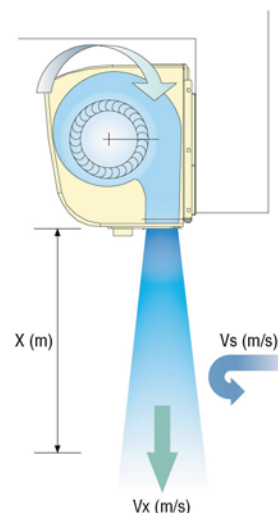
An air curtain's shut-out ability is determined by the air velocity at the center of its airflow. The powerful discharge of KDK Air Curtains enables them to maintain a high level of air velocity within the curtain's efficient distance, resulting in superior shut-out ability.

$$V_s = A \times V_x$$

Vs: Shut-out penetrating velocity (m/s)

Vx: Central air velocity (m/s) at distance X (m) from the air outlet

A: Constant



PRODUCT LINEUP

Remote Controlled Series

Efficient Distance - 3m

3009GA (900mm)
3012GA (1200mm)
3015GA (1500mm)

Efficient Distance - 4m

4009GA (900mm)
4012GA (1200mm)
4015GA (1500mm)



Sensor Series

3009DA (900mm)
3012DA (1200mm)
3015DA (1500mm)

4009DA (900 mm)
4012DA (1200 mm)
4015DA (1500 mm)



Standard Series

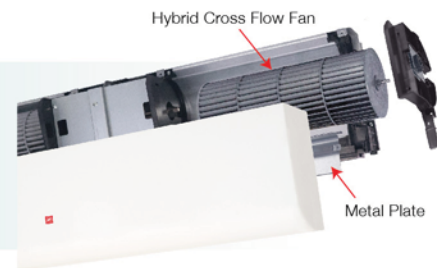
3009UA (900mm)
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FEATURES HIGHLIGHT

1) Efficient Barrier Effect

- Hybrid Cross Flow Fan is adopted that airflow distribution is wide and uniform within the air stream while the air volume output can be maintained with low noise level.
- Unique Auxiliary Air Inlet allows more air intake at lower front that enhances airflow output.



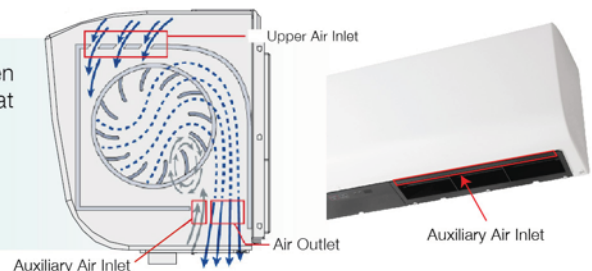
2) Highly Durable

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



3) Easy Maintenance

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



4) Contemporary Design

- Modern and streamline outlook fits the décor of interior perfectly. Also, the main air inlet locates at top of the product allowing a neat and clean image.

5) Convenient Control

- For remote controlled series, Stand-by and Hi/Lo speed can be simply switched by handheld remote control.
- Operation of sensor series can be activated when door is opened. It will stop automatically at 10 seconds delay after the door is closed.

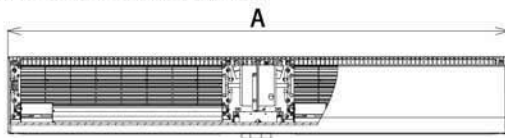
SPECIFICATION

Model No.	Voltage		Air Volume				Consumption [W]		Current [A]		Outlet Velocity [m/s]		Noise [dB(A)]		Weight [kg]	
	[V]	[Hz]	Hi		Lo		Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo		
			[m³/h]	[CFM]	[m³/h]	[CFM]										
900mm	220V	50	1,100	647	920	541	76	70	0.35	0.32	10.5	8.5	48.5	45	12.5	
		60	1,100	647	900	530	92	78	0.42	0.36	10.5	8.5	49.5	45		
		240V	50	1,150	677	960	565	86	80	0.37	0.35	10.5	9	50.5		47.5
	220V	50	1,340	789	1,190	700	110	94	0.50	0.43	12	10	54.5	51		13.5
		60	1,340	789	1,100	647	141	111	0.64	0.51	12	10	55.5	51		
		240V	50	1,360	800	1,200	706	122	100	0.51	0.43	12.5	10.5	56.5		
1200mm	220V	50	1,400	824	1,270	747	94	85	0.43	0.40	9.5	8	48.5	44.5	15	
		60	1,400	824	1,250	736	109	94	0.51	0.46	9.5	8	48.5	44.5		
		240V	50	1,500	883	1,320	777	107	95	0.46	0.43	10	8.5	50.5		47
	220V	50	1,700	1,001	1,530	901	126	105	0.59	0.49	12	10	52.5	48.5	16	
		60	1,700	1,001	1,450	853	153	118	0.70	0.55	12	10	52.5	48.5		
		240V	50	1,800	1,059	1,580	930	139	110	0.60	0.49	12.5	10.5	54.5		51
1500mm	220V	50	2,000	1,177	1,800	1,059	131	110	0.59	0.50	10.5	9.5	51.5	48	18.5	
		60	2,000	1,177	1,750	1,030	150	118	0.68	0.54	10.5	9.5	51.5	48		
		240V	50	2,100	1,236	1,850	1,089	145	115	0.60	0.50	11	10	53.5		50.5
	220V	50	2,450	1,442	2,000	1,177	177	147	0.81	0.68	13	10	56	52	18.5	
		60	2,300	1,354	1,780	1,048	220	160	1.01	0.74	13	9.5	56	52		
		240V	50	2,500	1,471	2,050	1,207	200	160	0.86	0.68	13.5	10.5	58		54.5

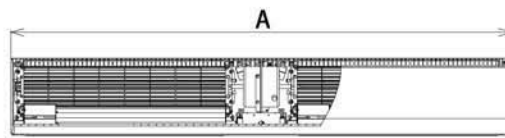
Note: 1. The parameters as shown in above table are measured at ambient temperature of 20°C.
 2. The noise value is measured 1.5m far from the product at angle of 45° below the air outlet.
 3. Because the above-mentioned velocity is measured in test laboratory where it's empty, without air flow and obstacle, after actual installation the velocity may vary depends on different service environment.

DIMENSION

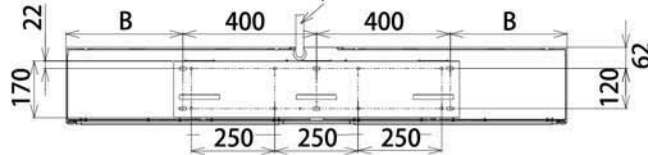
■ Front view of standard /sensor series



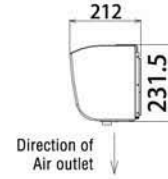
■ Front view of remote control series



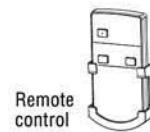
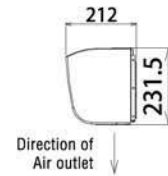
■ Back view of standard / sensor / remote control series power cord



■ Right view of standard / sensor series



■ Right view of remote control series



Unit: mm

Model	3009UA 3009GA 3009DA	4009UA 4009GA 4009DA	3012UA 3012GA 3012DA	4012UA 4012GA 4012DA	3015UA 3015GA 3015DA	4015UA 4015GA 4015DA
A	900	900	1200	1200	1500	1500
B	50	50	200	200	350	350



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

CATALOG NO:K-AC002

PRINTED IN HONG KONG (04.17)