



NANO SYSTEM AIR-CURTAIN www.yuhanhitec.com









YUHANHITEC Create a dynamic world

YUHANHITEC Co., Ltd. is a specialized manufacturer of air curtain, and expands the market share in export and domestic market with excellent function, high efficiency and diverse designs by introducing the best technology.

Our company always strives for the development of product features and upgrades, and promises to do our best to satisfy customers with the best technology and diversification of products.





Certification















Company History

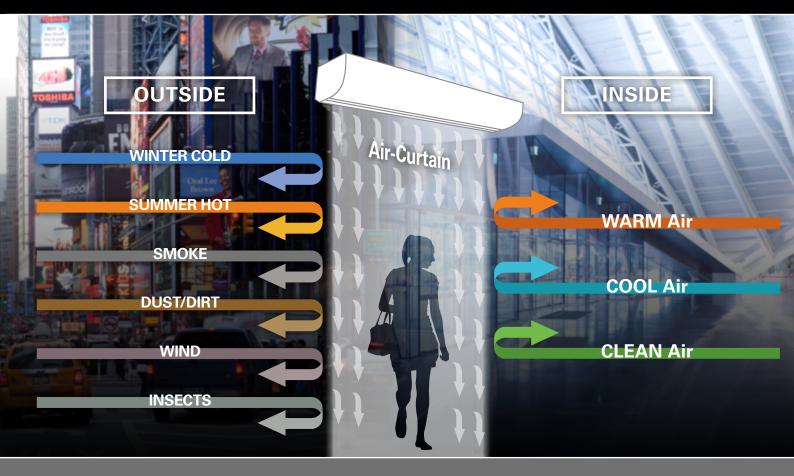
**Company Histo



What's the Air-Curtain?

Air curtains are installed to create strong airflow at the entrance to the interior space to prevent insects, dust, and outside air from penetrating into the interior space.

Air curtains are used to open doors in frequently accessed areas, such as shops and warehouses, and are effective in preventing temperature controlled air from being lost through doors.



Efficency of Air-Curtain

OPEN EFFECT

Opening the door makes it easier for customers to access and increase sales.



AIR CIRCULATION

It effectively circulates air in a large space by creating air flow.



BLOCKING EFFECT

It prevents smoke, dust, odor or insects from entering through the entrance.



INCREASE SAFETY

It helps prevent accidental finger-pinching that can occur when opening and closing the door.



INCREASE AIR-CON EFFICIENCY

It prevents hot air in summer and cold air in winter and protects indoor air.



ENERGY SAVING

It saves energy by preserving heating and cooling and blocking outside





Nano System Air-Curtain

"Nano System" is an air curtain brand owned by YUHANHITEC, a manufacturer specialized in air curtains, and supplies products to domestic and overseas market through its total lineup in Korea.

The company leads the market with the best quality and differentiated quality.



We pursue the differentiation from the mechanical design of the existing air curtain.



Lowest Noise

It is the product of the lowest noise among the same class, due to the use of the motor developed with special fan and low noise.



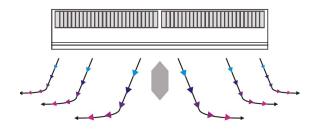
We make our utmost effort to reinforce durability through the localization of the core parts and to produce defect-free products through our thorough quality inspection.

Compare Cross Fans

Other products



Wind spread phenomenon exists. It is heavy and can give a lot of load to the motor as the material is plastic. It is hard to maintain of speed of fan.



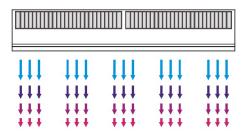
Twisted cross fan of nano system



Noise is greatly reduced as the wheel itself is twisted and constant air volume and wind speed can be maintained since

VS there is not wind spread phenomenon when the wheel rotates.

Besides, it is lightweight due to the material of aluminum, and power loss can be prevented due to the less load of the motor.





Nano System Air-Curtain at a Glance



Plasma ion Air-Curtain

Air curtain with sterilization and deodorization functions equipped with the world's first plasma ion cluster

Luxury Type (dual-motor) Air-Curtain

Air curtain realizing the lowest noise with the refined design and sirocco fan





Slim Type (single-motor) Air-Curtain

The only product at the same level with the low power consumption and high efficiency by using one motor and cross fan together with the appearance that can stand comparison as an interior decoration design

Heater Type Air-Curtain

Air curtain that can be used in winter by installing the high efficiency heater rods with proven stability





Industrial Type Air-Curtain

Air curtain with strong air-flow suitable for large shops and construction sites

Air-Curtain for Vehicles

Air curtain that can be installed on vehicles by using DC motors





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Floor Type Air-Curtain

Air curtain, equipped with portable wheels, that maximizes cooling effect by blowing air to the floor

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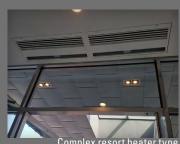
Effective Distance

Applicable places	General store, office, cafe, restaurant etc. up to 2.5m in height	Public buildings, large supermarkets, etc. Up to 3m in height	Department stores, theaters, terminals, museums, etc. Up to 4m	Places requiring strong winds of up to 4m in height, such as large stores, factories, warehouses, and frozen warehouses	Places requiring strong winds of up to 6m in height, such as sewage treatment plants and recycling centers	
4	7~9.5m/s 4~5.5m/s	8~11.5m/s 4~5m/s	9~12.5m/s 5~6m/s	11~15m/s 6~9m/s	22~25m/s 14~17m/s	
——1m	2.5 m 2~3m/s	>> 3~4.5m/s	4~5m/s	5~8m/s	12~15m/s	
2m	1.5~2m/s	3~4.5m/s 3.55 3 2~3.5m/s	<mark>ა</mark> აე ∃ 3~4m/s	4~6m/s	9~11m/s	
3m			2~3m/s	4.5 3~5m/s	6~8m/s	
4m				2~4m/s	4~5m/s	
——5m			1~2m/s	∞ ∃ 2~3m/s		
Suitable model	NA-35 series NA-12 series NA-35 heater series	NA-12 series	NA-15R series NA-15 heater series	NA-15B series	NA-15B 380V series	

Installation Cases



A large shopping mall gateway







Transverse type



Complex multiplex





Large tourist bus



Control panel production

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Ion-Plasma Air-Curtain

This product is equipped with a plasma ion cluster generator that has the outstanding sterilization and deodorization effects on our high-end model, and has a luxurious image from adding a delicate LED lamp. It removes odor and germs from entrance and shoe closets, and prevents various viruses.



WHAT IS AN ION CLUSTER?

Ion cluster is an aggregate of 10~60units that ionized oxygen molecules in the air.

In nature, after a lightning strike, many ion clusters are created in the air, which removes odor molecules, microorganisms, germs and fungus in the air and purifies the air.

H-ION CLUSTER reproduces this principle with plasma technology and creates lon cluster to create pleasant indoor air.

Plasma ion cluster sterilization method provides the fundamental sterilization and deodorization power, as it destroys cell activating substance by ion energy bond with gaseous pollutant.

Filtert	ype air pu	urifier		lon cluster method			
X X	₹	\bigstar	smell	★ ★ ☆ ☆			
X 7	₹	\Rightarrow	нсно	$\star \star \star \star$			
X I	₹	\bigstar	TVOC	$\star \star \star \star \star$			
X I	₹ ★	\bigstar	virus	$\star \star \star \star$			
X 7	₹ ★	\bigstar	Fungi	$\star \star \star \star$			
X 7	★	\bigstar	Fungus	$\star \star \star \star \star$			
X I	$\uparrow \uparrow$	\bigstar	Dust	$\star \star \star \star \star$			
Good	Under Average	Poor		Good Average Under Poor			



Air purifying effect

to remove various pollutants such as fine dust, yellow dust, etc.



Sanitizing effect

to remove odor and viruses of causative bacteria and various diseases



Public health effects

that prevent hygienic environment and prevent group food poisoning

Model No.	Width(mm)	Height(mm)	Depth(mm)	Height of holder (mm)	Length of power Cord(M)	Weight(Kg)
NA-3509i1	900	220	225	170	1.5	16
NA-3510i1	1000	220	225	170	1.5	16.8
NA-3512i1	1200	220	225	170	2.0	18.5
NA-3515i1	1500	220	225	170	2.0	23

Model No.	Power	Motor Type	Fan Type	Output(W) speed-high	Wind Speed (m/s) H/M/L	Noise (dB) speed-high	Air-Volume (CMM)speed-H	lon module / coverage
NA-3509i1		1 Double/1 single Axis	3 Sirocco	340	15/13/11	56	21	1 pcs / 10~20 m²
NA-3510i1	220V	I Double/ I strigte Axis		340	15/13/11	56	21	1 pcs / 10~20 m²
NA-3512i1	2200	2 Double Axis	4 Sirocco	390	15/13/11	56	28	2 pcs/30~40 m ²
NA-3515i1		2 Double Axis/1 single Axis	5 Sirocco	510	15/13/11	56	36	2 pcs / 30~40 m²



Air-Curtain for Vehicles

It is developed to install on the rear door of the refrigerator and reefer car, taking advantage of the air curtain that blocks the outside air. It is a product that functions to prevent the outflow of cold air and the inflow of outside air.



WHAT IS AIR CURTAIN FOR VEHICLES?

When the door of a refrigerator truck is opened, the internal temperature rises, and a large amount of fuel is consumed to restart the cooler and maintain the proper temperature.

At this time, it is possible to save about 50% of fuel by installing an air curtain which blocks the outside air at the door of the loading box.

Air curtain for vehicles can have many effects such as saving fuel, preventing deterioration of food ingredients, and blocking foreign material for food hygiene.



Advantages Advantages

Reduce fuel consumption

Reduces the loss of cool air and thus reduces the fuel consumed in cooling.



Durability for application

Made of stainless steel, it is resistant to humidity and low temperature.



DC converter power

Use a DC converter that is suitable for installation in vehicles.



Food Corruption Prevention

Prevents corruption of food by maintaining proper temperature.



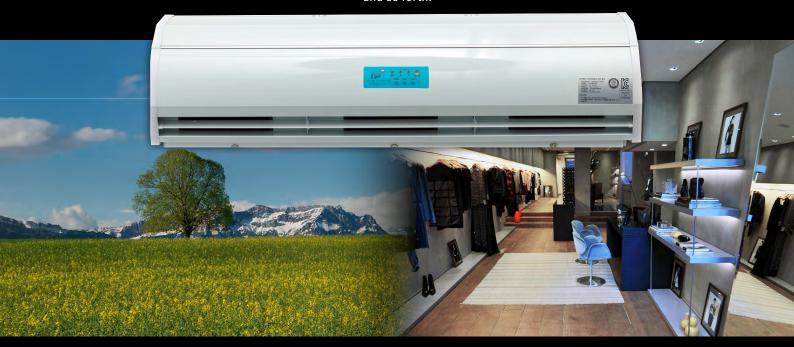
Model No.	Width(mm)	Height(mm)	Depth(mm)	Weight(Kg)
NA-0907CM	750			6.0kg
NA-0909CM	900	135	135	6.5kg
NA-0911CM	1100	133	133	7.0kg
NA-0912CM	1200			7.5kg

Model No.	Power	Motor Type	Fan Type	Wind Speed (m/s)	Noise (dB)	Air-Volume (CMM)	RPM
NA-0907CM	DC 12V/24V	1 Double Axis	2 Cross fan	15	58	19	2500
NA-0909CM				14	59	22	2400
NA-0911CM				13	60	24	2300
NA-0912CM				12	61	26	2250



Luxury Type Air-Curtain

As it has the refined design, minimal noise and strong blocking effect, the model is suitable for installing at general stores, offices and so forth.



Advantages of Luxury Type Air-Curtain



Lowest Noise

The adoption of the Sirocco fan is pleasant without noise.



Advanced design

There is no grill on the front, so the appearance is luxurious.



Remote control

Easy operation with remote control method.



Waterproof PCB

It is resistant to breakdown by waterproof processing circuit board.



Efficient air circulation

Effective air circulation is more effective in blocking.











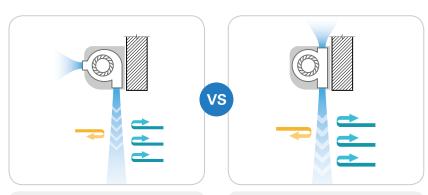
Efficient air flow

The upper air intake grille makes air flow efficient, and it has excellent effect of blocking outside air.



Clean design

The air inlet grille was installed on the top of the product to provide a cleaner design.



Airflow of other products

Loop-type circulation results in blocking losses and durability

Airflow of the nanosystem

Linear type circulation provides thorough air circulation and effective

Remote control method

It is easy to use remote control method and can adjust wind speed according to user's environment.



Lowest Noise Implementation

Using a Sirocco fan and a low-noise type motor, the noise level is the lowest in same class products.



Waterproof circuit board

Defect of PCB caused by vapor is minimized by waterproofing treatment to the power PCB and controller PCB.



Model No.	Width(mm)	Height(mm)	Depth(mm)	Height of holder (mm)	Length of power Cord(M)	Weight(Kg)
NA-3509DF	900	220	225 170		1 5	16
NA-3510DF	1000			170	1.5	16.8
NA-3512DF	1200				2.0	18.5
NA-3515DF	1500					23

Model No.	Power	Motor Type	Fan Type	Output(W) speed-high	Wind Speed (m/s) H/M/L	Noise (dB) speed-high	Air-Volume (CMM)speed-H	Blocking Height(m)
NA-3509DF		1 Double/1 single Axis	3 Sirocco fan	340	15/13/11	56	- 21	- 2.5
NA-3510DF	220V					56		
NA-3512DF	220 V	2 Double Axis	4 Sirocco fan	390		56	28	
NA-3515DF		2 Double /1 single Axis	5 Sirocco fan	510		56	36	



Slim Type Air-Curtain

This air-curtain is designed with a slim looks that harmonizes curves and straight lines unlike conventional mechanical design, giving a decorative effect.



Advantages



Lightweight

Lightweight special aluminum material, 2/3 weight of the same class.



Easy A / S

The structure of simple design makes maintenance and repair even easier.



Low power consumption

We have developed energy-saving motors to reduce power consumption by half.





Good Costeffectiveness

A single motor achieves two motorclass wind speeds, resulting in excellent cost-to-benefit ratios.



Remote control method

It is easy to use remote control method and can adjust wind speed according to user's environment.



Beautiful design

The slim design adds an interior effect.



Lightweight product

Unlike other products in the same class as those of other companies (about 15kg), the chassis is made of ultra lightweight special aluminum. It is easy and safe to install with a weight of about 2/3 of 9.2kg (900 size standard) of the same air curtain.

Low power consumption



The nano system slim type air curtain which focuses on energy conservation in motor development is only about 175W which is 1/2 of the power of other companies' products in operation with wind speed steel.



It is easy to use remote control method and can adjust wind speed according to user's environment.

Remote control method



Outstanding cost-to-benefit ratios

Easy A / S and management

Nano System The slim type air curtain realized the wind speed which was possible only with 2 motor sirocco fan in the existing product as one motor cross fan, and the quality and performance of the product were raised at economical price of Chinese product level.

Designed with a simple structure from the design

stage, the nano-system slim type air curtain is easy

to disassemble and assemble, making A / S and easy

Simple design



Nano System The slim air curtains are simple and slim, helping to enhance the interior of stores and offices.



Model No.	Width(mm)	Height(mm)	Depth(mm)	Height of holder (mm)	Length of power Cord(M)	Weight(Kg)
NA-1209DF	900				1.5	9.2
NA-1210DF	1000			0 105	1.5	9.7
NA-1212DF	1200	215	210		2.0	12.8
NA-1215DF	1500	213	210	103		15.5
NA-1218DF	1800					18.0
NA-1220DF	2000					19.2

Model No.	Power	Motor Type	Fan Type	Output(W) speed-high	Wind Speed (m/s) H/M/L	Noise (dB) speed-high	Air-Volume (CMM)speed-H	Blocking Height(m)
NA-1209DF		1 single Axis	745mm 1pcs	175W	14/11/8.5	59	27	
NA-1210DF		I Sillyle Axis	845mm 1pcs	180W	13.5/10.5/7.5	59	29	
NA-1212DF	220V	1 Double Axis	489mm 2pcs	205W	13.5/11.5/9	61	37	2.0
NA-1215DF	2200	I Double Axis	646mm 2pcs	260W	13/10/6.5	61	45	2.8
NA-1218DF	1	2 single Axis	745mm 2pcs	350W	14/11/8.5	62	54	
NA-1220DF	1		845mm 2pcs	360W	13.5/10.5/7.5	62	58	

Heater Type Air-Curtain

This air curtain is designed to produce warm air in winter by incorporating a high-heat-generating heater rod into the air blowing air curtain.



Advantage



High-end design

Added the heater function to the design of the high-grade air curtain.



Achieve low noise

The use of a rod heater reduces the disadvantages of conventional heaters.



High efficiency heater rods

Aluminum heater rods enhance durability and efficiency.



Excellent corrosion resistance

It is made of stainless steel which is resistant to corrosion inside and outside, making it suitable for high humidity environments.



Simple remote control

There is no unnecessary control panel installation because the remote control can be controlled.

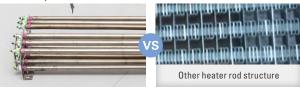


Customized control panel

When customer needs, various control panels are produced and installed.

High-efficiency heater rods used

In the case of other company's heater rods, the honeycomb heatsink is used and the durability is weak and the life is short due to dust. However, the heater rods of finite high-tech nano system use aluminum heater rods wrapped with heat coil in 8ϕ 12 rows structure, Increased efficiency and minimized noise caused by wind strikes



Remote control method

Third-party heater-type products require a control panel, which adds extra costs such as panel production and secondary electrical work. However, finite-tech remote control type air curtains can be controlled by remote control only when the control panel is not needed.

Various forms of control panels

When installing as a control panel type, you can manufacture and install various types of enclosure (ABS box, general steel box, stainless steel box, double door structure) and internal configuration to suit your needs.







Product Features



Air curtains combined with common fan heater



Air curtains for industrial ventilation heaters

Conventional air curtains for both heaters have not been out of shape, but air curtains for both nanosystem air-blowing heaters have been added to the design of high-grade air curtains to meet the needs of both quality and design.



Stainless steel heater combined air curtain

Unlike other products that are made of stainless steel and are resistant to corrosion of internal parts, Nano system stainless steel air curtain is made of stainless steel not only for appearance but also for many internal parts. It is used for aquariums and refrigerated warehouses It is suitable and offers a luxurious feeling.

Product Type	Model No.	Width(mm)	Height(mm)	Depth(mm)	Height of holder (mm)	Length of power Cord(M)	Weight(Kg)
	NA-3509H	900					17
GENERNAL TYPE	NA-3510H	1000	220	225	170	1.0	17.8
(control panel)	NA-3512H	1200	220		170	1.0	19.8
	NA-3515H	1500					25
	NA-3509HR	900	220	225	170	1.0	17
GENERNAL TYPE	NA-3510HR	1000					17.8
(remote control)	NA-3512HR	1200			170	1.0	19.8
	NA-3515HR	1500	-				25
Industrial	NA-1509H	900			205		26
Heater Type	NA-1510H	1000	265	265		1.0	28
(control panel)	NA-1512H	1200	-				31
Industrial	NA-1509HR	900					26
Heater Type	NA-1510HR	1000	265	265	205	1.0	28
(remote control)	NA-1512HR	1200					31

Product Type	Model No.	Power	Heater rod capacity(KW)	Output(kW) speed-high	Wind Speed (m/s) H/M/L	Noise (dB) speed-high	Air-Volume (CMM)speed-H	Blocking Height(m)
GENERNAL TYPE (control panel)	NA-3509H	Motor 220V	6	6.2	10	65	21	2.0
	NA-3510H		7	7.2	9.5	66	22	
	NA-3512H	Heater 380V (R,S,T)	8	8.2	9	68	24	
	NA-3515H		10	10.2	8	69	26	
GENERNAL TYPE (remote control)	NA-3509HR	380V 4 line (R,S,T,N)	6	6.2	10/9/8	65	21	2.0
	NA-3510HR		7	7.2	9.5/9/7.5	66	22	
	NA-3512HR		8	8.2	9/8/7	68	24	
	NA-3515HR		10	10.2	8/7.5/7	69	26	
Industrial	NA-1509H	Motor 220V / 380V Heater 380V (R,S,T)	6	6.6	10.5	68	28	
Heater Type (control panel)	NA-1510H		7	7.6	10	69	29	3.0
	NA-1512H		8	8.6	9	69	31	
Industrial Heater Type (remote control)	NA-1509HR	380V 4 line (R,S,T,N)	6	6.6	17/13/10.5	68	45	
	NA-1510HR		7	7.6	16/12/10	69	47	4.0
	NA-1512HR	(11,0,1,14)	8	8.6	15/11/9.0	69	50	



Industrial Air-Curtain

It is a product of air curtain which is suitable for medium and large space requiring strong blocking effect such as exit of large store, shopping mall, sewage terminal treatment plant with strong air volume.





Strong wind volume

We have implemented strong blocking effect for medium and large space.



Wind without spread

Designed with a twisted fan, it blocks the outside air without the phenomenon of wind spreading.



Excellent corrosion resistance

It is made of high-grade stainless steel which is resistant to corrosion inside and outside, and is suitable for high humidity environment.



Simple remote control

Remote control can be controlled without installing the control panels that require secondary electrical



Customized control panel

If you need centralized control, you can create and install various control panels.

Stainless steel air curtain

Unlike other products which are made only of stainless steel and are resistant to corrosion of inner parts, finite hi-tech nano system stainless steel type air curtain is made of stainless steel not only for appearance but also for many internal parts. It is used in aquariums and refrigerated warehouses It is suitable and offers a luxurious feeling.









Industrial air curtains with remote control

Third-party products require panels, but there are additional costs such as panel manufacturing and secondary electrical construction. However, finite hi-tech remote control type industrial air curtains can be controlled by remote control only where control panel is not needed. We will produce it.











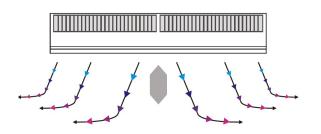
Features of twisted cross fan

Other products



Conventional wheels are noisy, cause wind scattering, and can not stabilize airflow and wind speed.

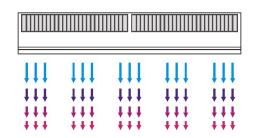
The material is heavy plastic, which increases motor load and power loss.



Twisted cross fan of nano system



The twisted wheel reduces noise, does not cause wind scattering, and maintains constant airflow and wind speed. The material is lightweight aluminium, so the motor load is low and power loss can be prevented.



Product Type	Model No.	Width(mm)	Height(mm)	Depth(mm)	Height of holder (mm)	Length of power Cord(M)	Weight(Kg)
GENERNAL	NA-1509B	900		265	205	1.5	24
TYPE	NA-1510B	1000	265				26
(control panel)	NA-1512B	1200					29
GENERNAL	NA-1509R	900	265	265	205	1.5	24
TYPE	NA-1510R	1000					26
(remote control)	NA-1509R	1200					29
SPECIAL TYPE (control panel)	NA-1509S	900			205	1.5	25
	NA-1510S	1000	265	265			27
	NA-1512S	1200					30

Product Type	Model No.	Power	Fan	Output(W) speed-high	Wind Speed (m/s) H/M/L	Noise (dB) speed-high	Air-Volume (CMM)speed-H	Blocking Height(m)
GENERNAL TYPE (control panel)	NA-1509B	220V single	150¢ specific aluminum fan x 2	600	19	72	55	4
	NA-1510B	phase or 380V three		620	18	74	58	
	NA-1512B	phase		650	17	76	62	
GENERNAL TYPE (remote control)	NA-1509R	220V single phase	150¢ specific aluminum fan×2	600	11~19	72	55	4
	NA-1510R			620	10.5~18	74	58	
	NA-1509R	pridoo		650	10~17	76	62	
	NA-1509S	000144	150¢ specific aluminum fan x 2	800	23	76	62	
SPECIAL TYPE (control panel)	NA-1510S	380V three phase		810	22	77	70	6
	NA-1512S	pridoo		820	20	79	77	

Floor Type Air-Curtain (Air-Shot)

Air curtain features 360 $^{\circ}$ rotating wheels at the bottom to blow air to the floor



Advantag



MADE in KOREA

Parts are manufactured in domestic, Unlike Chinese lowpriced products, quality and A / S are guaranteed.



SEDENTARY CULTURE SUITABLE

The wind blows to the floor, so it does not affect food and flame above.



LOW NOISE IMPLEMENTATION

Using a Sirocco fan, both the strong airflow and low noise are realized.



SIMPLE REMOTE CONTROL

You can conveniently control it with the remote control.



SPIN WHEEL MOUNTING

You can easily move to the desired place by attaching the 360 ° swivel wheel.



INCREASE COOLING EFFICIENCY

Due to the air circulation effect, it is more than twice as efficient when used with an air conditioner.



Model No.	Width(mm)	Height(mm)	Depth(mm)	Height of holder (mm)	Length of power Cord(M)	Weight(Kg)	
NA-3509DF	900	220	225	170	1.5	16kg	

Model No.	Power	Motor Type	Fan Type	Output(W) speed-high	Wind Speed (m/s) H/M/L		Air-Volume (CMM)speed-H	Coverage(M)
NA-3509DF	220V	1 Double/1 single Axis	3 Sirocco fan	340	15/13/11	56	21	6.0



Air-Curtain Cleaning

The appearance of the air curtain can be easily cleaned, but there is no filter, so the dust inside the air blowing fan will accumulate.

If dust accumulates in the fan, the dust will leak into the room air, and the load on the part will increase, which may cause a fire.

Also, if noise or burning odor occurs during use, it is necessary to replace the fan and special cleaning using chemicals.

Cleaning effect



Improve air quality

Improves indoor air quality by cleaning the dust-filled blower.



Increased energy efficiency

Energy efficiency is improved by reducing the load on parts.



Noise reduction

Smooth internal air flow reduces noise.



Extended usage

Cleaning management extends the life of the machine and parts.

Before







Cleaning process

Remove & Transport Dismantled & Sorted

Professional cleaning

Professional performance testing

Re-Attach Product

Clean the product with eco-friendly cleaner and dedicated tool

After

