

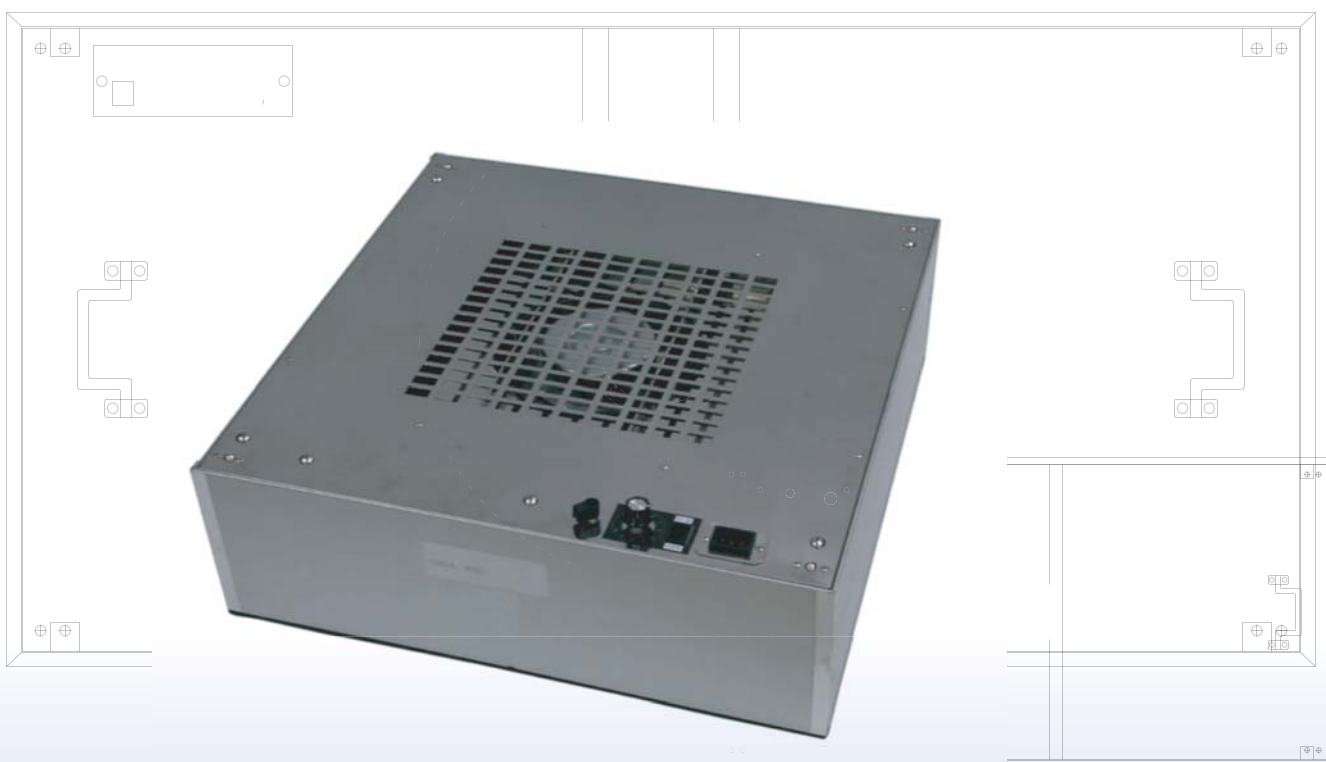
NEW GIGA PAC



NITTA

— Thin, energy-saving fan filter unit —

With the revolutionary NEW GIGA PAC, all functions for the supply of clean air have been integrated into a single, compact, lightweight module.



- Energy-saving: 35W~75W
- Continuously variable capacity
- Equipped with brushless DC motor
- Built-in control circuit and trouble alarm circuit
- Outgas-free: at or below detection limits for siloxane and organic phosphorus
- Thin: 150mm
- Lightweight: 15~20kg

TAIWAN NITTA FILTER CO.,LTD.
Perfect Quality

Applications

Thin and lightweight, this fan filter is easily installed in clean booths used in the production of semiconductors, liquid crystals, electronic components, and pharmaceuticals. It can also be directly installed in industrial equipment used to produce semiconductors, liquid crystals, electronic components, pharmaceuticals and other products.

Features

1. Low energy consumption

The use of a brushless DC motor results in power consumption of about 30% less than that of conventional induction motors.

2. Thin and lightweight

Use of an ultra-thin fan results in an overall weight of only 15 kg and height of 150mm (610x 610x 150mm).

3. Built-in controller

The control circuit has been miniaturized through the use of a driver circuit IC, and the controller section includes a trouble alarm circuit built into the main unit.

4. Capacity adjustment switch (can be set up externally)

Capacity can be smoothly and variably adjusted using the capacity adjustment switch.

5. Laminar flow

New unit construction reduces blow speed variation to $\pm 20\%$ or less.

6. CE (European safety standard) compatible

The standard unit employs an EMC (EMI EMS) noise filter.

7. Equipped with inlet cover

The standard unit employs this as a safety measure.

8. Options

Options consist of a prefilter (nonwoven cloth filter), trouble indicator lamp, and clean booth assembly kit.

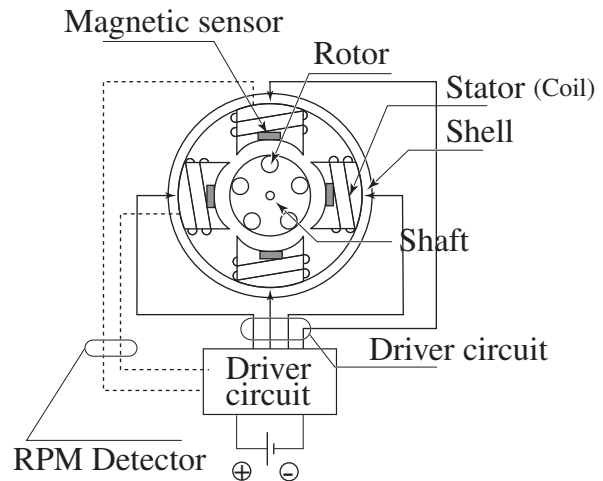
9. Outgas minimization

Exhaust gases are free of DOP and siloxane, with organic phosphorus at or below detection limits.

DC Brushless Motor

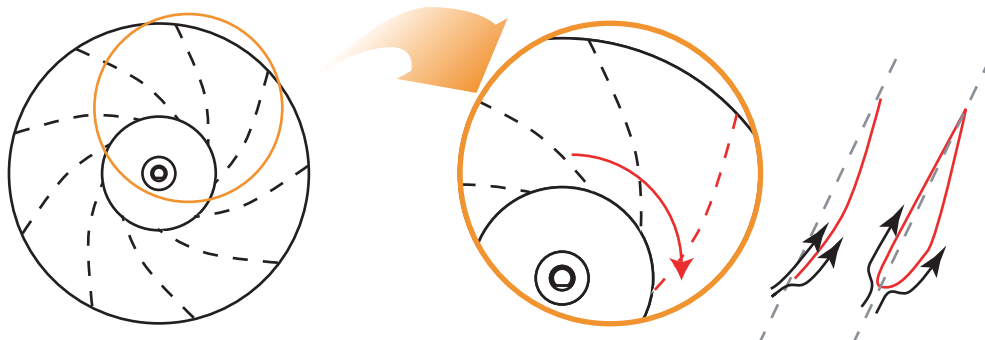
What is DC brushless Motor?

With this special characteristics, brush DC motor is widely adapted and used. However, as for its rectification mechanism, brush DC motor do reveal a draw back in the system. Thus, changing parts of electronics, the draw back can be fixed with brushless DC motor.

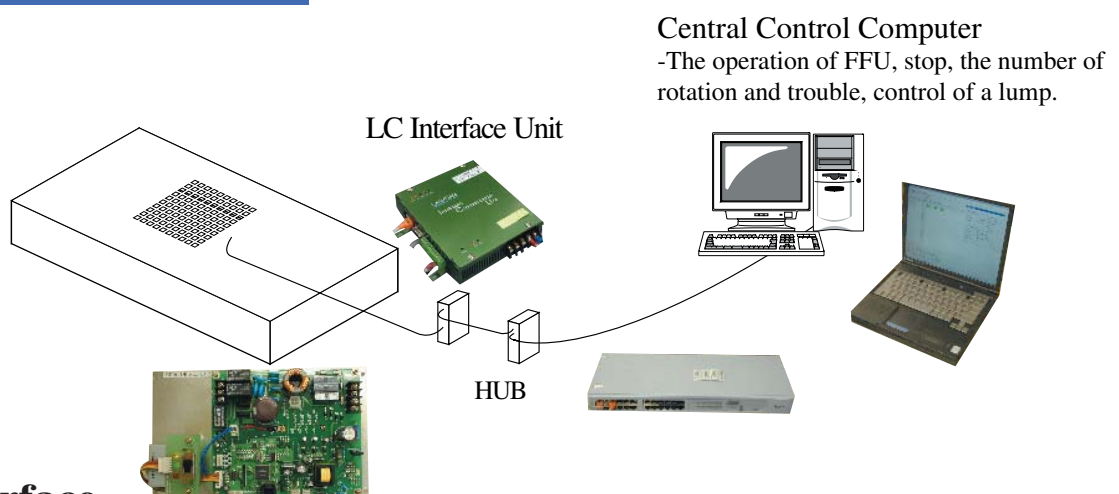


What is turbo fan?

Centrifugal fan is designed with backward curved impeller. This design is for higher pressure lost environments and advantages on higher air volume with higher efficiency!! Our NEW GIGA PAC also applied with this turbo fan design structure. Please see the graph at below:



Structure of FFU system

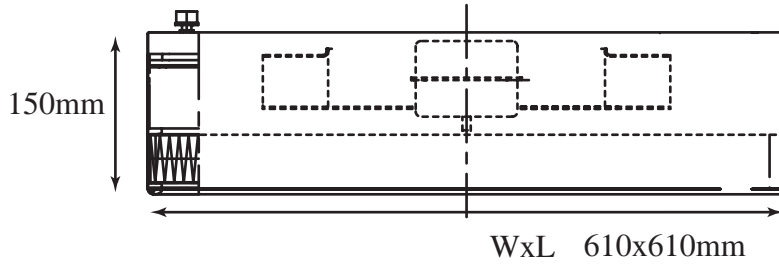


CAN Interface

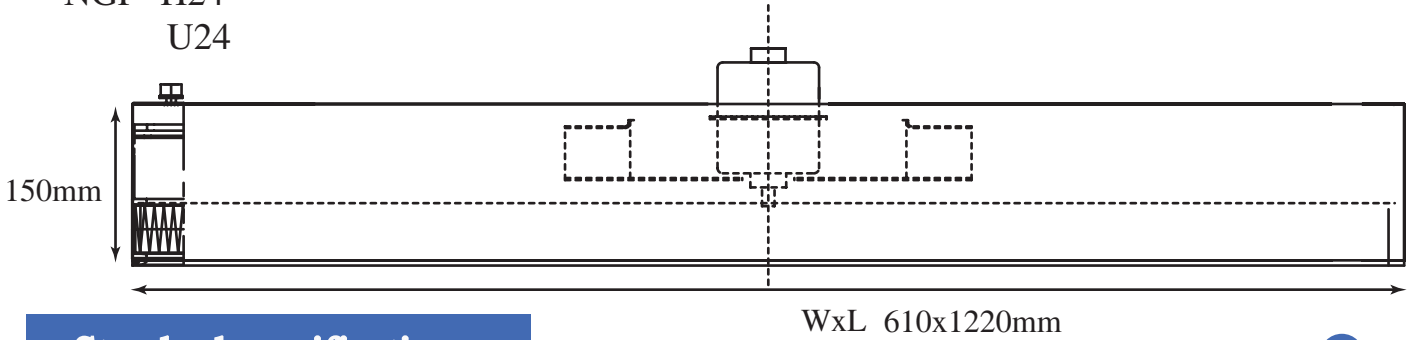
Specification	CAN highspeed
	Based on ISO 11891
Maximum communication Speed	1Mbit/s
ID Set-up	Setup of ID is carried out with handyterminal

Model names & Views

NGP- H22
U22



NGP- H24
U24



Standard specifications

Standard specification

model explanation

NGP-□ □

	Filter
H	HEPA
U	ULPA

X1	240x240x150
X2	350x350x150
X3	450x450x150
X4	500x500x150
22	610x610x150
24	610x1220x150

Specification

model		NGP-□X1	NGP-□X2	NGP-□X3	NGP-□X4	NGP-□22	NGP-□24
item		HEPA/ULPA					
Filter		HEPA/ULPA					
Efficiency		≥99.99%(0.3 μm) / ≥99.999%(0.15 μm)					
Dimensions (mm)	D	240	350	450	500	610	610
	W	240	350	450	500	610	1220
	H	150	150	150	150	150	150
PowerSupply		1 φ AC100V~110V 50/60Hz					
Motor		Induction motor50W	DCbrushless motor40W	DCbrushless motor50W		DCbrushless motor75W	
Capacity (m3/min)		1.3	1.3~3.1	2.0~5.5	2.3~6.0	5.0~10.7	8.2~14.5
BlowVelocity (m/sec)		0.5	0.2~0.5	0.2~0.5	0.2~0.5	0.25~0.5	0.2~0.35
Power Consumption (W)		40	15~65	15~68	15~68	39~105	35~67
Noise db(A)		55	57~65	52~65	52~63	53~62	52~67
Main Unit		SidePanel:Aluminum/Top Plate:SUS430BA					
Weight		3.5	7.0	9.0	10.0	13.0	20.0

*NGP-□X1 is not speed control

OPTION AC200V

model		NGP-H22	NGP-H24	NGP-U22	NGP-U24
item		HEPA		ULPA	
Filter		HEPA		ULPA	
Efficiency		≥99.99%(0.3 μm)		≥99.999%(0.15 μm)	
Dimensions (mm)	D	610	610	610	610
	W	610	1220	610	1220
	H	150	150	150	150
PowerSupply		3 φ AC200V~220V 50/60Hz			
Motor		DCbrushless motor80W		DCbrushless motor80W	
Capacity (m3/min)		5.0~10.7	7.0~14.5	5.0~10.7	7.0~14.5
BlowVelocity (m/sec)		0.25~0.5	0.17~0.35	0.25~0.5	0.17~0.35
Power Consumption (W)		26~64	20~70	26~64	39~74
Noise db(A)		52~60	50~61	52~60	50~61
Main Unit		SidePanel:Aluminum/Top Plate:SUS430BA			
Weight		15	20	15	20

OPTION DC24V

model		NGP-H22	NGP-U24
item		HEPA/ULPA	
Filter		HEPA/ULPA	
Efficiency		HEPA/ULPA	
Dimensions (mm)	D	610	610
	W	610	1220
	H	150	150
PowerSupply		DC24V	
Motor		DC24V	
Capacity (m3/min)		5.0~9.0	7.0~14.5
BlowVelocity (m/sec)		0.25~0.35	0.17~0.35
Power Consumption (W)		25~62	20~70
Noise db(A)		52~60	50~61
Main Unit		SidePanel:Aluminum/Top Plate:SUS430BA	
Weight		15	20

OPTION Parts

*Trouble indicator lam *Prefilter *Fixed metal fittings

* Specification to subject to be changed without notice.

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