



Eco Fresh Air Unit Fan Coil Unit (FHI)



FHI Series

DFHI Series

- Helps reduce carbon dioxide levels in the building through indoor air circulation
- Supports filtration of dust particles ranging from 0.3 to 1.0 microns with an average efficiency of up to 98%
- Saves energy with an Inverter system

Eco Fresh Air Unit



Designed for installation in indoor areas only (for outdoor installation, please consult the manufacturer).

1. Fresh air is supplied into the room by installing an OAU (Outdoor Air Unit) system equipped with a filter to remove dust.
2. The fresh air increases the room pressure, creating a positive pressure that pushes dust particles out of the room.
3. Reduces the amount of carbon dioxide inside the building.

Fan coil unit model FHH & DFHH



Single Skin
(FHI Series)



Casing (available in both options)
-Single Skin chassis for model FHH only.

Centrifugal Blower



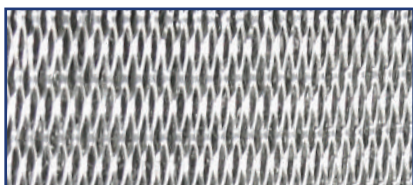
Forward
(12,000-36,000 BTU/Hr)
quiet



Backward
(48,000-60,000 BTU/Hr)
Suitable for medium dust work

- Can withstand high pressure (External Static value 0.5 in.Wg)
- Can deliver air through ducts over long distances (depending on duct design)

Filter



Aluminium Filter
for basic dust filtration, easy to clean



Pre-Filter (Class G4)
Effective in filtering dust particles sized from 3.0 to 10 microns, with an average efficiency of up to 90%



Medium-Filter (Class F8)
Effective in filtering dust particles sized from 0.3 to 1.0 microns, with an average efficiency of up to 98%

Remote Control

wired digital remote control

Displays temperature in glowing digital numbers, featuring a modern and attractive design that is easy to use, and can receive signals from a wireless remote



The digital remote control cable can be up to 4 meters long



Power ON/OFF

The POWER button is used to turn the air-conditioner on and off



Speed Fan

The Speed Fan button controls a high-capacity blower motor with three speed settings (for models 13,000-36,000 BTU/Hr).
(Speed adjustment is not available for models 48,000-60,000 BTU/Hr.)




Temp

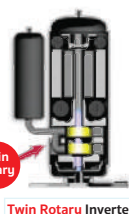
The Temp button allows you to increase or decrease the temperature and displays the set temperature on the remote control screen

Condenser unit Model : AFIX

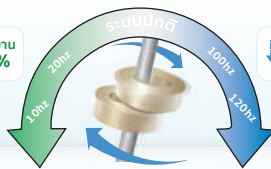
Twin Rotary Inverter (13,000-36,000 BTU/Hr)



Conventional



Twin Rotary Inverter



ประหยัดพลังงาน มากถึง 70 %
ค่าการประหยัด

เร็วขึ้นถึง 40 %
ค่าค่าความเย็น

Scroll Inverter (48,000-60,000 BTU/Hr)



- The twin rotary compressor technology allows for faster suction and compression operation up to 120Hz, resulting in cooling that is 40% faster of refrigerant.
- It has a wider frequency range of 10Hz - 120Hz, allowing operation up to 120Hz, resulting in cooling that is 40% faster compared to the traditional frequency range of 20Hz-100Hz

- Has a longer lifespan due to the scroll compressor design, resulting in less movement.
- Operates more quietly with an inverter system that allows for independent speed adjustments.
- Maintains a stable indoor temperature



Refrigerant R32 (Fully Charge)

- Contributes to a lower greenhouse effect (GWP value of 675).
- Low boiling point enhances cooling efficiency (-52°C).
- Has an ozone depletion potential of 0, making it environmentally friendly (ODP value of 0)



Hi-low Pressure Switch

- Helps prevent damage to the compressor by measuring the refrigerant pressure to stay within set limits.
- Provides good and accurate responsiveness to the operating system with an automatic valve opening and closing mechanism



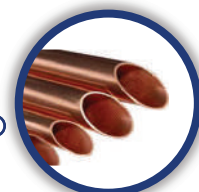
DC Fan Motor

- Affects responsiveness for quicker operation.
- Operates more quietly compared to AC motors.
- Offers higher efficiency compared to AC motors



Electronic Expansion Valve

- Provides excellent and precise responsiveness to the system operation with an automatic valve opening and closing mechanism.



Inner groove Copper Tube

- The copper pipes are designed with an internal spiral structure to enhance heat exchange efficiency

Casing made from high-quality sheet metal, coated with anti-oxidation white color. Durable with great heat rejection performance from advanced aerodynamic fan design, Compact size for easy installation in small spaces.



SPECIFICATION MODEL : FHI,DFHI / AFIX							
Nominal Cooling Capacity	(BTU/Hr)		12,000	24,000	36,000	48,000	60,000
Power Consumption	(kW)		1.12	2.24	3.04	4.41	5.59
Power Supply	(Volt/Phase/Hz)		220 / 1 / 50			380 / 3 / 50	
Air Flow	(CFM)		150	300	450	600	750
External Static Pressure (ESP.)	(In.Wg.)		0.5				
Fan Coil Unit	Model	Single Skin Panel	FHI-12-DX	FHI-24-DX	FHI-361-DX	FHI-483-DX	FHI-603-DX
		Double Skin Panel	DFHI-12-DX	DFHI-24-DX	DFHI-361-DX	DFHI-483-DX	DFHI-603-DX
		Type	Duct Type				
Fan Type			Centrifugal Forward Curve (Direct Drive)			Centrifugal Backward Curve (Belt Drive)	
Motor Power Output			250 Watt			1/2 HP	
Evaporator Coil Type			Aluminium Louver Fin With Inner Groover Copper Tube				
Expansion Device			Electronic Expansion Valve (EEV.)				
Control Type			Digital Wired Remote Control				
Air Filter			Aluminium Filter				
			Pre Filter "G4" (Media : Synthetic)				
			Medium Filter "F8" (Media : Fiberglass)				
Dimension MODEL : FHI	Width	(mm.)	684	803			985
	Length	(mm.)	1,058				1,380
	Height	(mm.)	359	449			525
Weight : FHI		(Kgs.)	48	55	60	72	75
Dimension MODEL : DFHI	Width	(mm.)	708	850			1,000
	Length	(mm.)	1,267	1,254			1,420
	Height	(mm.)	444	538			618
Weight : DFHI		(Kgs.)	53	61	66	79	83
Condensing Unit	Model		AFIX-13FL	AFIX-25FL	AFIX-361FL	AFIX-503FB	AFIX-603FB
	Type		Horizontal Air Flow				
Fan Type			Propeller Fan				
Condenser Coil Type			Aluminium Louver Fin With Inner Groover Copper Tube				
Compressor Type			Twin Rotary "Inverter"			Scroll "Inverter"	
Refrigerant Type			R-32 (Fully Charge)				
Pipe Connection	Suction Line	(Inch)(OD)	1/2	5/8	3/4		
	Liquid Line	(Inch)(OD)	3/8			1/2	
Dimension	Width	(mm.)	944				
	Depth	(mm.)	380				
	Height	(mm.)	632	784	936	1,140	
Weight		(Kgs.)	40	61	72	91	96

Based on : Outdoor temp. 35 °CDB / 28.3 °CWB Supply air temp. 12 °CDB (Leaving Coil)



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