



NIHON FUJIAIR (S) PTE LTD
Residential Air Conditioner Division
Official Website: WWW.FUJIAIR.COM

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T3 Tropical Climate

RESIDENTIAL
AIR CONDITIONER



Tropical DC Inverter Wall Mounted Split



LEADING TECHNOLOGY

65°C High Ambient Temperature Operation

The advanced Tropical Inverter Compressor is designed to deliver reliable, comfortable cooling air, even under extreme conditions, continuous operation and temperature as high as 65°C.

Advanced tropical inverter compressor can achieve high efficiency under high load condition

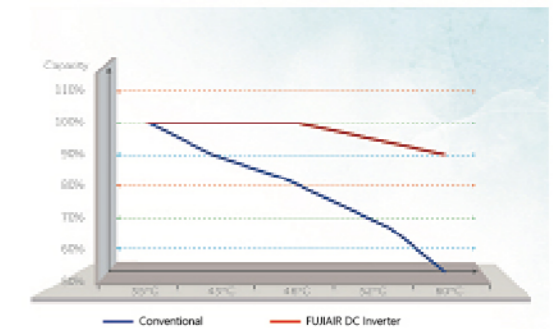


High Efficiency Motor for wide operating voltage

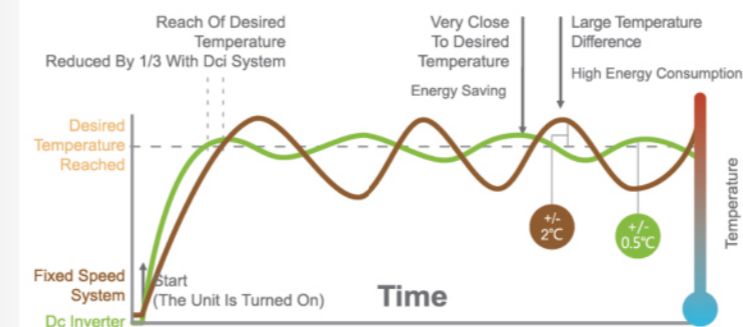
High Reliability Material to withstand high pressure

100% Full Cooling Capacity at 52°C

With T3 tropical climate, the cooling capacity still can catch up 100% to provide the best cooling experience to users.



DC Inverter Turbo Cooling



With specially designed control program, the motor runs at a higher frequency and FUJIAIR air conditioner can cool the whole room within much shorter time. It gives you ultimate fast cooling experience in hot summer.

Standard Features



Optional Features

- 3D Airflow
- Exquisite Dust Filter
- Consealed LED Display
- 3M Purify Filter
- Wi-Fi control
- Nano-aqua Ionizer

Energy Saving

FUJIAIR technology achieves high working efficiency in all frequency, energy saving, Up to 63%, making cooling/heating faster and more powerful.



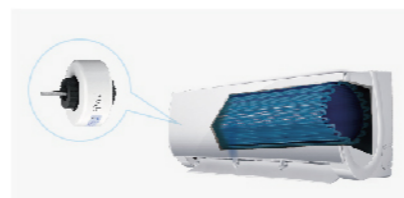
Long Distance Airflow and 3D Airflow

The Indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 20m+ maximum. The constant horizontal and vertical movements of airflow blades enable the air out flows to different directions of room. Users can enjoy comfortable airflow in every corner of the room.



Strong Air and Quiet Operation

- 1 Optimized Air Duct. Enlarged air inlet/outlet, larger space between evaporator and front panel, and optimized streamline spiral casing, help to increase the airflow volume and reduce operation sound.
- 2 Optimized Fan. The new cross flow fan is 7% longer than the conventional and the inclination angle of fan blade also gets improved. It increases the air circulation volume and minimize the operation sound.
- 3 Special Design Electronic Control System. FUJIAIR air conditioning supported by the special electronic control system with the A-PAM inverter technology and DC fan motor lower the sound level of motor and provide high static pressure capability, and also reduce the sound level of the indoor unit.



TECHNICAL SPECIFICATION



Model			FRS12D-H19	FRS18D-H19	FRS24D-H19	FRS30D-H19
Performance						
Power Supply	V~,Hz, Ph		220~240,60,1	220~240,60,1	220~240,60,1	220~240,60,1
Cooling Capacity	T1/T3 Btu/h		12100(4100-14680)/11700	18000(4800-21100)/18000	22000(6700-28000)/21500	28000(8000-33500)/25200
Heating Capacity	Btu/h		13200(4500-19800)	18800(5600-22500)	22500(6700-30000)	28400(8700-37000)
EER	T1/T3 Btu/h/W		13.5/9.1	13.4/9.0	13.4/8.7	12.1/8.5
COP	W/W		3.97	3.99	3.90	3.5
Air Flow Volume	m3/h		700	1300	1400	1600
Refrigerant	/		R410a	R410a	R410a	R410a
Noise Level	Indoor d(B)A		46/42/38	47/44/41	47/44/41	50/47/44
	Outdoor d(B)A		54	56	60	62
Dimension & Weight						
Net Weight	Indoor Kg		10	16	17	21
	Outdoor Kg		31	45.5	54	60
Gross Weight	Indoor Kg		12	19	20	24.5
	Outdoor Kg		35	50.5	60	65
Net Dimension	Indoor mm		855/204/280	1115/248/336	1115/248/336	1316/275/365
	Outdoor mm		800/275/553	890/353/697	920/385/762	920/385/762
Packing Dimension	Indoor mm		954/279/355	1205/341/416	1205/341/416	1418/402/478
	Outdoor mm		954/409/625	1046/460/780	1085/487/843	1085/487/843
Piping Size	Liquid Side mm		6.35	6.35	6.35	6.35
	Gas Side mm		9.52	12.7	15.88	15.88

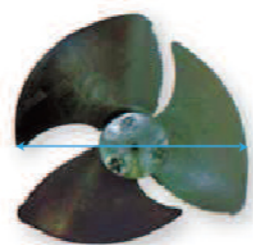
DC Inverter
Light Commercial
Outdoor Unit



HIGH EFFICIENCY

New Designed Fan

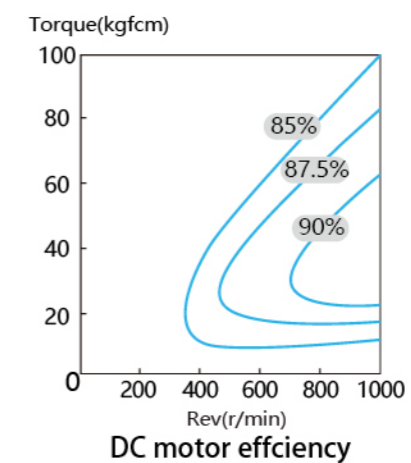
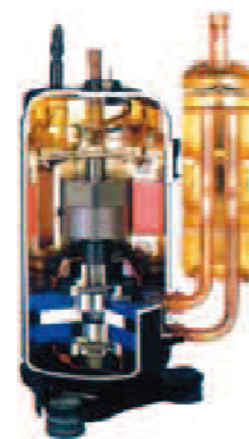
Based on aerodynamics theory, we create 550mm super big diameter helix fan, air flow increase 16.7%.



▶ 550mm

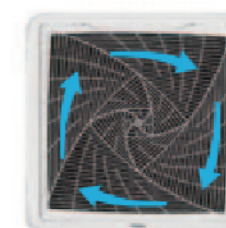
DC Inverter System

For the purpose of high seasonal performance, we take high discharge DC inverter compressor and DC fan motor with different running speed in different working conditions.



LOW SOUND LEVEL

Low sound level thanks to new airflow system which combined by new 550mm big diameter fan and air outlet grill, which reduce air resistance.



R410a INVERTER

EASY INSTALLATION

Double Side 4 Handles

Because of double side 4 handles design, it is very easy for 2 peoples carry it.

"888" Digital Test Panel

All running parameters & error code can be checked from "888" digital display, installer can make easy work.

Built-in Valve Design

The new built-in valve design, it can realize 4 way pipe connection(front, rear, right, down), it is more beautiful and easy installation.

DC Fan Motor Medium Pressure

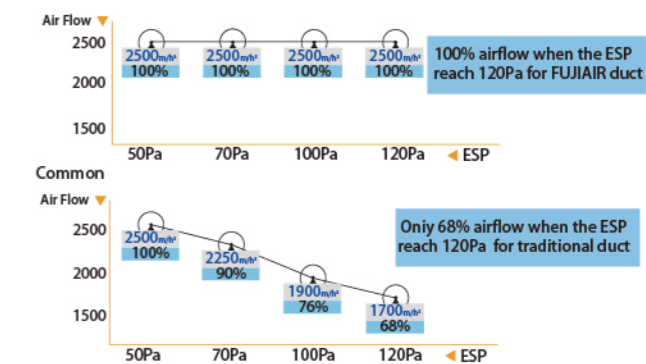
DUCT



COMFORTABLE

Consistent Airflow

The indoor units contain up to 3 fans which can provide consistent airflow in different pressure enhancing the comfort.



High Efficiency Filter(Optional)

Filter is with anti mould function, avoid the bad smell after long time operation.



FLEXIBLE DESIGN

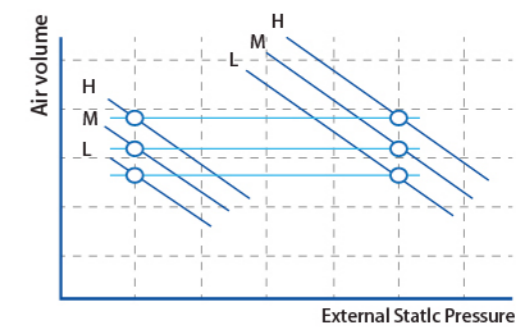
Super Slim

248mm of thickness for better installation application flexibility(for 5.0kW-10.0kW).



Adjusted Pressure By Wired Controller

We takes DC fan motor design , external static pressure can be adjusted by wired controller, so installer don't need to climb the ladders to adjust pressure.



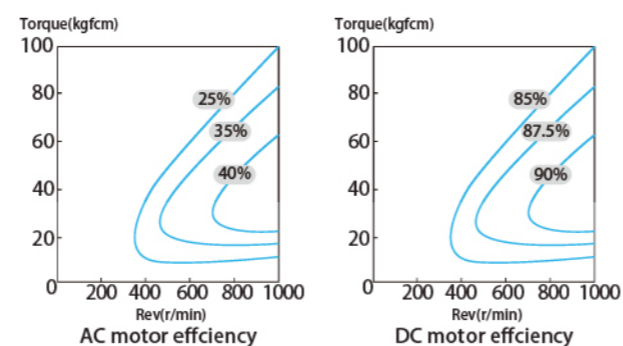
Flexible Air Intake Ways

Air inlet from back standard and from bottom optional. The size of the plate from bottom and flange from back is the same, It's easy for installer to change the air inlet from back to bottom.

HIGH EFFICIENCY

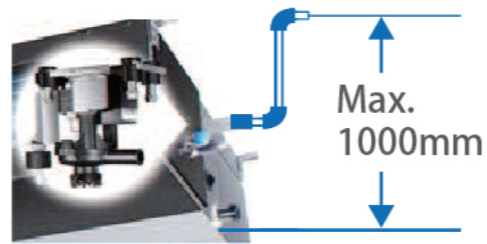
DC Fan Motor

FUJIAIR duct adopts DC fan motor, compared to conventional AC fan motor, DC fan motor is more efficiency.



High Lift-up Drain Pump

It can lift condensed water up to 1000mm, which make installation more flexible according to the layout.



TECHNICAL SPECIFICATION



Model			FLCS18D-H19	FLCS24D-H19	FLCS36D-H19
Performance					
Power Supply	V~,Hz, Ph		220~240,60,1	220~240,60,1	220~240,60,1
Cooling Capacity	T1/T3	Btu/h	17401(4800-21100)/16378	21496(8000-27000)/18766	32755(10000-40000)/29002
Heating Capacity		Btu/h	18084	24225	35826
EER	T1/T3	Btu/h/W	11.8/8.53	11.8/8.53	11.8/8.53
COP		W/W	3.4	3.11	3.37
Air Flow Volume		m3/h	1020/900/780/550	1440/1260/1100/900	1600/1480/1360/1240
ESP		Pa	37(0-150)	37(0-150)	37(0-150)
Refrigerant		Kg	R410a/1.65	R410a/2	R410a/2.5
Noise Level	Indoor	d(B)A	45/42/40/36	45/42/40/36	48/45/42/39
	Outdoor	d(B)A	52	52	52
Dimension & Weight					
Net Weight	Indoor	Kg	32	32	42
	Outdoor	Kg	46.5	54	105
Gross Weight	Indoor	Kg	35	35	52
	Outdoor	Kg	51.5	60	118
Net Dimension	Indoor	mm	1100/700/248	1100/700/248	1500/700/248
	Outdoor	mm	890/353/697	920/385/762	1350/950/370
Packing Dimension	Indoor	mm	1270/860/340	1270/860/340	1710/870/330
	Outdoor	mm	1046/460/780	1085/487/843	1500/1090/480
Piping Size	Liquid Side	mm	6.35	6.35	9.52
	Gas Side	mm	12.7	12.7	15.88
Max Pipe Length		m	25	30	50
Max Drop between IDU&ODU		m	15	15	30

DC Fan Motor High Pressure

DUCT



ENERGY EFFICIENCY

High Efficiency Design

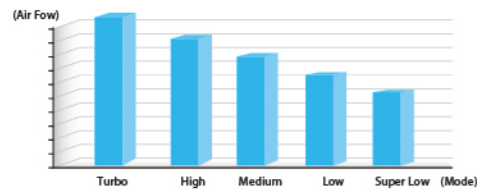
We use DC fan motor and wide fin more rows heat exchanger, which can provide EER >3.5 for all high-pressure duct combinations.

COMFORT&CONVENIENCE

Multi Air Speed For Comfort

There are 4 speed airflow : super low/low/medium/high to choose for comfort.

There are also turbo mode with super high speed for quick cooling/heating.



Wifi Control (Optional)

Besides normal wired/wireless control , FUJIAIR supply wifi control solution.



DESIGN FLEXIBILITY

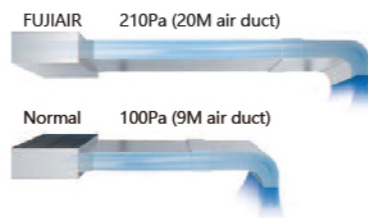
Super High Airflow

New DC fan motor and large length & diameter fan design ,provide the 2880 m³/h (800l/s) above air flow with 250m³/h/kW (70L/s/kW) ,which is 44% more than medium pressure duct unit

Capacity	Medium pressure duct airflow(m³/h)	High pressure duct airflow(m³/h)	Promotion
48k	2250	3250	44%
60k	2500	3600	44%

210Pa Pressure Setting

210Pa pressure give the design flexibility totally , it can meet different duct requirement



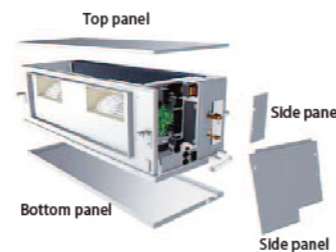
EASY INSTALLATION

Three Side Open The Panel

There are three side panel which can be opened for easy maintenance Top panel and bottom panel can be opened to maintain the fan and motor;

Electrical panel can be opened to maintain the electrical parts;

Side panel can be opened to maintain the pipe sensor.



10 Step Adjusted Pressure

Pressure can be adjusted by wired controller
Installer don't need to install the static box, save installation time.



TECHNICAL SPECIFICATION



Model			FLCS48D-H191	FLCS48D-H193	FLCS60D-H191	FLCS60D-H193
Performance						
Power Supply for ODU	V~,Hz, Ph		220~240,60,1	380~415,60,3	220~240,60,1	380~415,60,3
Power Supply for IDU	V~,Hz, Ph		220~240,60,1	220~240,60,1	220~240,60,1	220~240,60,1
Cooling Capacity	T1/T3 Btu/h		40944(14000-53000)/37532	40944(14000-53000)/37532	47768(18000-62000)/44356	47768(18000-62000)/44356
Heating Capacity	Btu/h		47768	47768	54592	54592
EER	T1/T3 Btu/h/W		11.8/8.53	11.8/8.53	11.8/8.53	11.8/8.53
COP	W/W		3.71	3.71	3.52	3.71
Air Flow Volume	m³/h		2970/2510/2130/1860	2970/2510/2130/1860	3360/2940/2740	3360/2940/2740
ESP	Pa		50(0-210)	50(0-210)	50(0-210)	50(0-210)
Refrigerant	Kg		R410a/3.7	R410a/3.7	R410a/4	R410a/4
Noise Level	Indoor d(B)A		50/47/45/42	50/47/45/42	50/47/45	50/47/45
	Outdoor d(B)A		52	53	57	57
Dimension & Weight						
Net Weight	Indoor Kg		52	52	61	42
	Outdoor Kg		105	108	105	108
Gross Weight	Indoor Kg		62	62	72	52
	Outdoor Kg		118	121	118	121
Net Dimension	Indoor mm		1350/490/425	1350/490/425	1350/490/425	1350/490/425
	Outdoor mm		1350/950/370	1350/950/370	1350/950/370	1350/950/370
Packing Dimension	Indoor mm		1565/724/510	1565/724/510	1565/724/510	1565/724/510
	Outdoor mm		1500/1090/480	1500/1090/480	1500/1090/480	1500/1090/480
Piping Size	Liquid Side mm		9.52	9.52	9.52	9.52
	Gas Side mm		15.88	15.88	15.88	15.88
Max Pipe Length	m		50	50	75	75
Max Drop between IDU&ODU	m		30	30	30	30

R410a Non-Inverter
Light Commercial

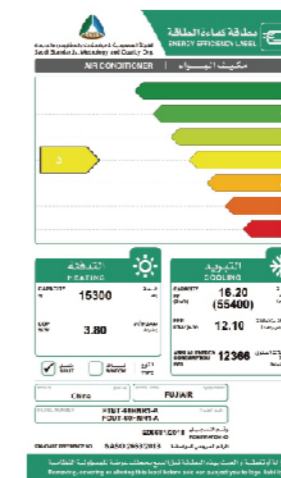
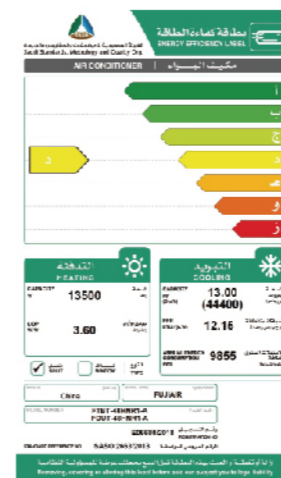
Outdoor Unit



FEATURES

Certificate

SASO certificate for 60Hz product, 7.5 star, EER up to 12. G-mark certificate, safety and reliability



Tropical Compressor

Advanced tropical scroll compressor, achieve high efficiency. The unit operating temperature up to 55°C



• Scroll Comp

Convenient Installation

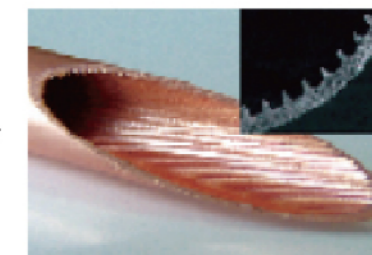
Multi-direction piping connection meets different requirement, convenient installation

Multi Protection

High/low pressure protection High temperature protection Over heat protection, etc

High Efficiency Heat Exchange

Inner-grooved tube and hydrophilic aluminum, enhance the heat exchanger efficiency.

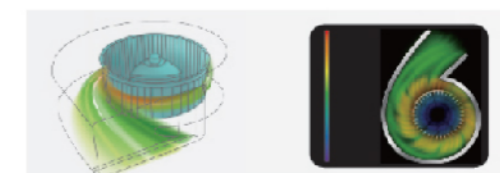
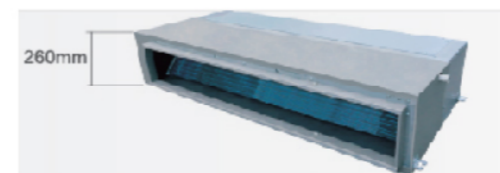


DUCT



FEATURES

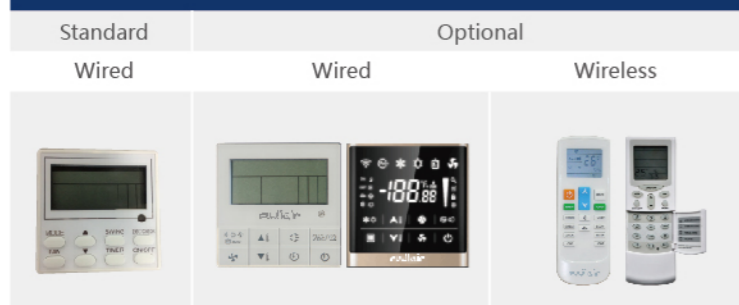
- Ultra-thin design, save installation space.
- Centrifugal fan blade, increasing air flow and decreasing the noise.
- Fitter can be taken out easily, convenient to clean and maintain.
- The air inlet can be positioned on the bottom or the rear of the unit.
- Flexibe installation, suits for different room structure.



TECHNICAL SPECIFICATION

Model			FTAT-18HNR1-A	FTAT-24HNR1-A	FTBT-30HNR1-A	FTBT-36HNR1-A	FTBT-48HNR1-A	FTBT-60HNR1-A
Power Supply	V~,Hz, Ph		220~240,60,1	220~240,60,1	220~240,60,1	220~240,60,1	220~240,60,1	220~240,60,1
Cooling Capacity	T1/T3 Btu/h		T1:17800/T3:15600	T1:24000/T3:20000	T1:30000/T3:25200	T1:35000/T3:29500	T1:44400/T3:39000	T1:55400/T3:48000
Heating Capacity	W		5100	7320	8500	9650	13500	15300
EER	T1/T3 (Btu/h)/W		T1:12.1/T3:8.9	T1:12.4/T3:8.8	T1:12.2/T3:8.8	T1:12.05/T3:8.55	T1:12.2/T3:8.65	T1:12.1/T3:8.6
COP	W/W		3.72	3.70	3.90	3.57	3.60	3.80
Air Flow Volume	m ³ /h		1000/850/700	1300/1100/850	2000/1800/1600	2000/1800/1600	2000/1800/1600	3000/2700/2400
ESP	Pa		25	25	37	37	50	50
Refrigerant	Kg		R410A/2	R410A/2.65	R410A/2.85	R410A/2.9	R410A/3.85	R410A/5.6
Noise Level	Indoor d(B)A		36~42	40~46	38~45	38~45	42~47	46~54
	Outdoor d(B)A		56	58	58	60	60	58
Dimension & Weight								
Net Weight	Indoor Kg		32	32	47	47	49	76
	Outdoor Kg		51	67	69	72	108	117
Gross Weight	Indoor Kg		36	36	54	54	56	87
	Outdoor Kg		57	72	75	77	117	128
Net Dimension	Indoor mm		1190×643×260	1190×643×260	1279×830×307	1279×830×307	1279×830×307	1536×867×441
	Outdoor mm		1040×790×432	1040×790×432	1040×790×432	1040×790×432	911×1330×400	940×1430×450
Packing Dimension	Indoor mm		1255×720×325	1255×720×325	1395×920×380	1395×920×380	1395×920×380	1615×920×515
	Outdoor mm		1120×900×485	1120×900×485	1120×900×485	1120×900×485	964×1445×402	1095×1545×485
Piping Size	Liquid Side mm		6.35	9.52	9.52	9.52	9.52	9.52
	Gas Side mm		12.7	15.88	19.05	19.05	19.05	19.05
Max Pipe Length	m		25	25	25	30	50	50
Max Drop between IDU&ODU	m		15	15	15	20	30	30

CONTROLLER

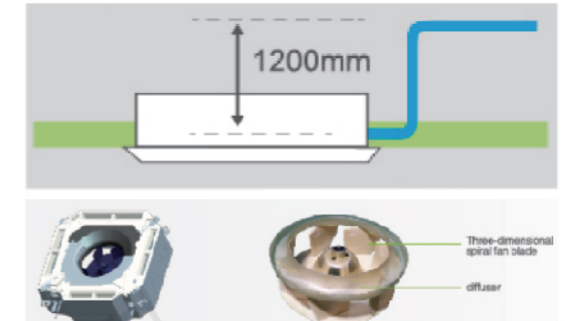


4-way Cassette



FEATURES

- Four interfaces to connect with duct to another room. Fresh air intake, more healthy and comfortable.
- Ultra-thin body design, the min. height is only 230mm, save installation space.
Streamlined design and 3D spiral fan blade, reduces air resistance and operation noise.
- Built-in water pump, pump head up to 1200mm.
- Integrated E-box, fire-proof design, built-in body.
- Washable filter. convenient installation and maintenance.
- Cold catalyst filter for optional to absorb small particles to adjust Atmospheric Particulate Matter lower than PM2.5



TECHNICAL SPECIFICATION

Model			FCRT-18HNR1-A	FCRT-24HNR1-A	FCRT-30HNR1-A	FCRT-36HNR1-A	FCRT-48HNR1-A
Power Supply	V-, Hz, Ph		220~240, 60, 1	220~240, 60, 1	220~240, 60, 1	220~240, 60, 1	220~240, 60, 1
Cooling Capacity	T1/T3 Btu/h		T1:17800/T3:15600	T1:24000/T3:20000	T1:29600/T3:25200	T1:34000/T3:28500	T1:44000/T3:38000
Heating Capacity	W		5100	7320	8500	9500	13500
EER	T1/T3 Btu/h/W		T1:12/T3:8.9	T1:12.1/T3:8.6	T1:12.1/T3:8.8	T1:12.15/T3:8.5	T1:12.05/T3:8.45
COP	W/W		3.92	3.70	3.90	3.65	3.60
Air Flow Volume	m³/h		900/750/600	1300/1100/850	1700/1500/1300	1700/1500/1300	2000/1800/1600
Refrigerant	Kg		R410a	R410a	R410a	R410a	R410a
Noise Level	Indoor d(B)A		38~46	44~51	46~52	46~52	46~52
	Outdoor d(B)A		56	58	58	60	60
Dimension & Weight							
Net Weight	Indoor - Body	Kg	25	25	29	29	29
	Indoor - Panel	Kg	6.5	6.5	6.5	6.5	6.5
	Outdoor	Kg	51	67	69	72	108
Gross Weight	Indoor - Body	Kg	29	29	35	35	35
	Indoor - Panel	Kg	9.5	9.5	9.5	9.5	9.5
	Outdoor	Kg	57	72	75	77	117
Net Dimension	Indoor - Body	mm	840×230×840	840×230×840	840×285×840	840×285×840	840×285×840
	Indoor - Panel	mm	950×40×950	950×40×950	950×40×950	950×40×950	950×40×950
	Outdoor	mm	1040×790×432	1040×790×432	1040×790×432	1040×790×432	911×1330×400
Piping	Indoor - Body	mm	920×265×920	920×265×920	920×310×920	920×310×920	920×310×920
	Indoor - Panel	mm	1030×100×1030	1030×100×1030	1030×100×1030	1030×100×1030	1030×100×1030
	Outdoor	mm	1120×900×485	1120×900×485	1120×900×485	1120×900×485	964×1445×402
Piping Size	Liquid Side	mm	6.35	9.52	9.52	9.52	9.52
	Gas Side	mm	12.7	15.88	19.05	19.05	19.05

CONTROLLER

Standard		Optional
Wireless	Wireless	Wired

Floor & Ceiling Unit



FEATURES

- ⊙ Flexible installation, ceiling suspended and floor standing
- ⊙ Washable filter, easy to take out and convenient to clear
- ⊙ Built-in two stepper motor, adjusting the vertical and horizontal air flow, providing wide-angle swing
- ⊙ Built-in water pump, pump head is up to 700 mm(Optional)
- ⊙ Digital display is optional, in the middle or on the right side. It is more intuitive and simple, and error code can be shown in the display.



TECHNICAL SPECIFICATION

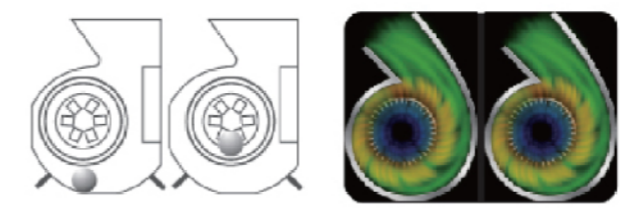
Model			FUAT-18HNR1	FUAT-24HNR1-A	FUAT-30HNR1-A	FUAT-36HNR1-A	FUAT-48HNR1-A
Performance							
Power Supply	V~,Hz, Ph		220~240,60,1	220~240,60,1	220~240,60,1	220~240,60,1	220~240,60,1
Cooling Capacity	T1/T3	Btu/h	T1:17700/T3:15200	T1:24000/T3:20000	T1:29600/T3:25200	T1:33500/T3:28500	T1:44500/T3:39000
Heating Capacity		W	5300	7180	8500	9650	13500
EER	T1/T3	Btu/h/W	T1:11.8/T3:8.5	T1:12.1/T3:8.6	T1:12.1/T3:8.8	T1:12/T3:8.5	T1:12.2/T3:8.65
COP		W/W	3.79	3.60	3.93	3.71	3.60
Air Flow Volume		m ³ /h	900/750/600	1300/1100/850	1700/1500/1300	1700/1500/1300	2000/1800/1600
Refrigerant		Kg	R410A/2	R410A/2.65	R410A/2.85	R410A/2.9	R410A/3.85
Noise Level	Indoor	d(B)A	44~52	44~52	48~56	48~56	42~47
	Outdoor	d(B)A	56	58	58	60	60
Dimension & Weight							
Net Weight	Indoor	Kg	37	37	49	49	49
	Outdoor	Kg	51	67	69	72	108
Gross Weight	Indoor	Kg	43	43	56	56	56
	Outdoor	Kg	57	72	75	77	117
Net Dimension	Indoor	mm	1245×680×244	1245×680×244	1670×680×244	1670×680×244	1279×830×307
	Outdoor	mm	1040×790×432	1040×790×432	1040×790×432	1040×790×432	911×1330×400
Packing Dimension	Indoor	mm	1325×770×325	1325×770×325	1750×780×335	1750×780×335	1395×920×380
	Outdoor	mm	1120×900×485	1120×900×485	1120×900×485	1120×900×485	964×1445×402
Piping Size	Liquid Side	mm	6.35	9.52	9.52	9.52	9.52
	Gas Side	mm	12.7	15.88	19.05	19.05	19.05

Floor Standing Unit



Centrifugal Fan Blade

Double Cfd technology design, increasing air flow and decreasing noise level.



3D Air Flow

The combination of vertical and horizontal auto swing function ensures an even distribution of air throughout the room.



TECHNICAL SPECIFICATION

Model		FAT-48HNR1	FAT-60HNR1
Powersupply	V/Ph/Hz	230/1/60	230/1/60
Cooling Capacity	Btu/h	T1:45000/T3:40200	T1:52900/T3:47400
Cooling Power Input	KW	T1:3.70/T3:4.72	T1:4.30/T3:5.65
EER	Btu/W	T1:12.16/T3:8.52	T1:12.30/T3:8.39
Heating Capacity	Btu/h	46000	52900
Heating Power Input	KW	3.50	4.10
COP	W/W	3.85	3.80
Indoor air flow	m3/h	2000	2300
Indoor noise level	dB(A)	42	44
Dimension(W*H*D)	mm	742*450*1802	742*450*1802
Packing dimension(W*H*D)	mm	762*470*1822	762*470*1822
Liquid side/Gas side	mm	Φ9.52/19.05	Φ9.52/19.05
Drainage pipe	mm	25	25

Auto-Restart

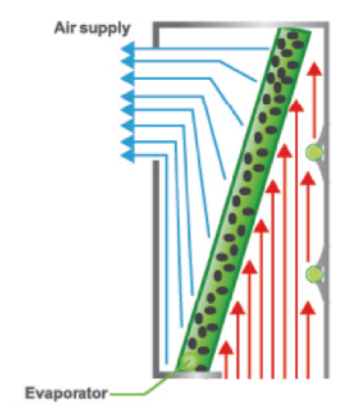
If the air conditioner stops running unexpectedly due to the power off, it will restart with the previous function setting automatically when the power resumes.

Self-Diagnosis And Auto-Protection

Once abnormal operation or parts failure happens, the unit will shut down automatically to protect the system. Meanwhile it will indicate protection or error code for fast servicing.

New Air Flow System

New air flow design, larger heat-exchanging area, high cooling and heating efficiency.



CONTROLLER		
Standard		Optional
Wireless	Wireless	Wired