




DUCTED SPLIT




**Air
Conditioner
System**

Product Lineup

Inverter Series

Series	Appearance	Refrigerant	Type	18kBtu/h	24kBtu/h	30kBtu/h	36kBtu/h	48kBtu/h	60kBtu/h	Page
Outdoor Units		R410A	DC Inverter	●	●	●	●	●	●	6
Mid ESP Duct		R410A	DC Inverter	●	●	●	●	●	●	8

On/Off Series

Series	Appearance	Refrigerant	Type	12kBtu/h	18kBtu/h	24kBtu/h	36kBtu/h	48kBtu/h	60kBtu/h	Page
Outdoor Units		R410A	ON/OFF	●	●	●	●	●	●	12
Mid ESP Duct		R410A	ON/OFF	●	●	●	●	●	●	13

CERTIFICATION



Health



Fresh Air Intake

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



Long-term Filter

The latest long-term filter ensures better air quality. Meanwhile, the cleaning frequency has been decreased, and maintenance is also much easier.

Comfort



Anti-Cold-Air

When starting the heating operation, the fan speed is regulated automatically from the lowest speed to the preset level. This function can prevent cold air from blowing out at the beginning of the operation, which avoids the discomfort to the user.



Follow Me

Temperature sensor built in the remote control will sense its surrounding temperature, so the unit can achieve accurate and comfortable temperature control just like the air conditioner is following you.



Fast Cooling/Heating

Startup at high frequency increases cooling/heating capacity and reduces time to reach set temperature, thus you can enjoy cooling and heating in seconds.



Auto swing

Distributes cool/warm air to maximum area by moving horizontal and vertical fags automatically.



Independent Dehumidification

With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



3D Air Flow

Combine vertical and horizontal auto swing to ensure an even distribution of air flow throughout the room.



Dimmer

Press this button to shut off the display light on the front panel.



Silent

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.

Reliability



Self-diagnosis Function

Once abnormal operation or parts failure happen, the unit will monitor the failures, the microcomputer of air conditioner will switch off and protect the system automatically when it happens. Meanwhile, the error or protection code will be displayed on the indoor unit.



Low Ambient Cooling

With special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C .



Intelligent Defrosting

Normal defrost function can only be operated in certain time, but AUX commercial air conditioner's intelligent defrost can start automatically according to the surrounding condition.



Compressor Heating Belt

Auxiliary heating belt can increase compressor oil temperature in winter and prevent defrosting water accumulated, which improves heat transfer efficiency.



No Frosting Chassis

The unique pipeline design makes the temperature on chassis higher than normal units, and it prevents defrosting water accumulated, which improves heat transfer efficiency and solves the drainage problem.



Golden Fin

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anti-corrosive golden coating on the condenser can withstand the rain, salty air and other corrosive elements.



Fire-proof Electric Box

Electrical control box adopts new design, which can meet the higher fire safety requirement to prevent the internal fire due to the electric spark accident.

Energy Saving



180° Sine Wave Control

With considerable advantages, DC Inverter 180° sine wave driving technology has much wider range of frequency and voltage, higher energy efficiency, more smoothly running and lower noise.



Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first 2 hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



Hydrophilic aluminum fin

The louvered hydrophilic aluminum foil has improved by more than 10%. There refrigerant inlet and outlet are separated, to ensure the sub-cooling and enhance the cooling capacity.



Full Process By DC Drive

DC control, DC Compressor, DC indoor motor, DC outdoor motor, and DC Electronic expansion valve make low noise and high efficiency.

Convenience



24-hour Timer

Users can turn on or turn off the air conditioner at any time in 24 hours with remote controller or wireless controller.



Built-in Drain Pump

The built-in pump can lift the condensing water 1200 mm upmost from the drainage pan.



Dual side Drainage

Both left and right sides of the indoor unit are possible for drainage hose connection, and it's easy for installation with this function.



Digital Tube Display

Easily for the running parameters checking and more convenient for troubleshooting, digital tube displays work status such as indoor temperature, setting temperature, the mode of operation, etc.



Remote Control

Help users to control the air conditioner easily, you can design your most comfortable settings with this controller.



Wired Control

Help users to control the air conditioner easily, the wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



Central Control

With the control function of weekly timer, zone (or group) setting etc., the centralized controller can control 64 units with RS 485 wire connection and the central controller control more convenient.



WIFI Control

With the WIFI control, you can easily turn off the air conditioner outside your house via smart device. Furthermore, you can turn it on before you come back. The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



Washable Filter

The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



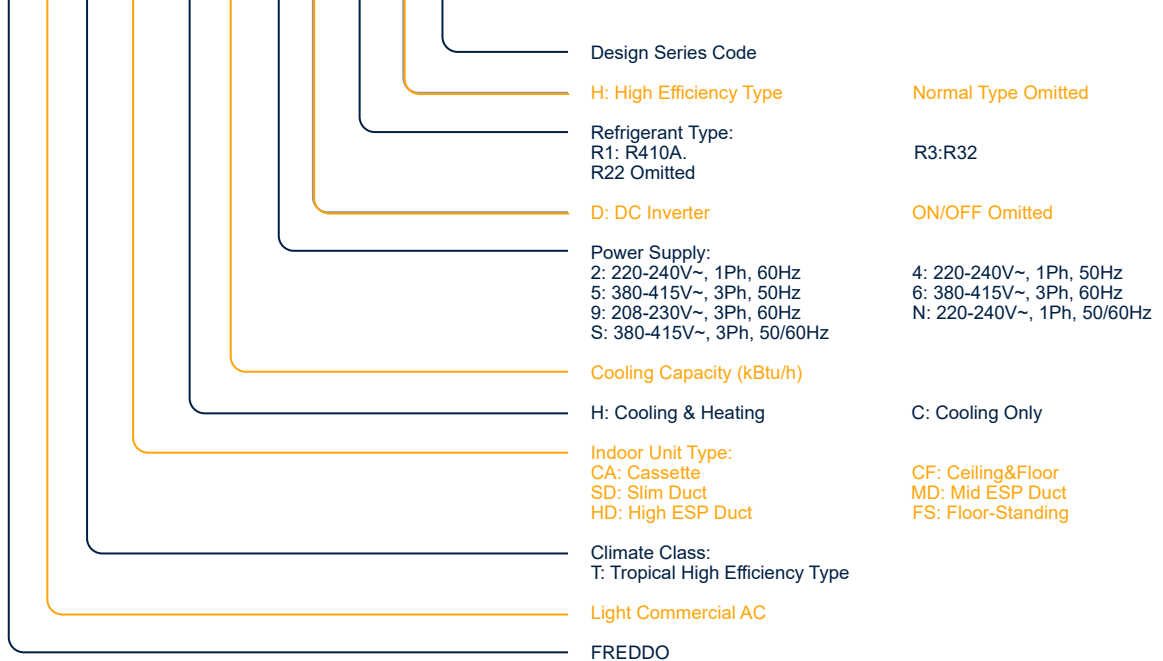
Auto Restart Function

If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.

Nomenclature-Light Commercial

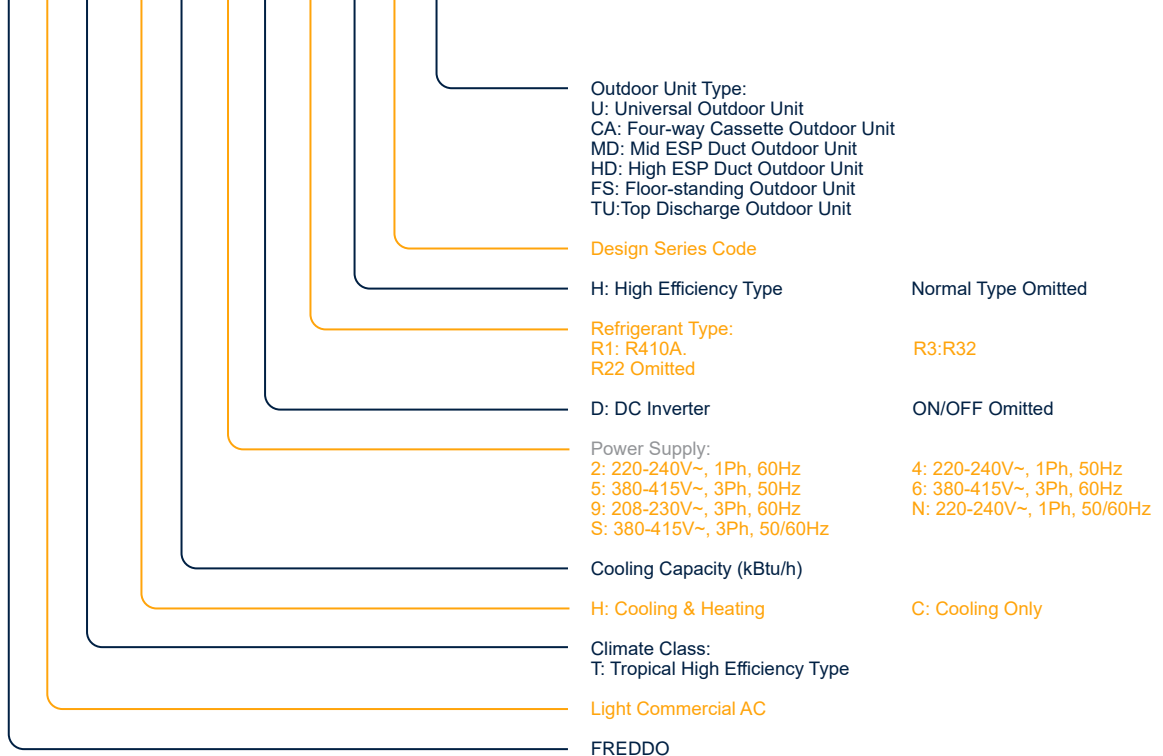
Indoor Unit

F L T - CA - H 24 / 4 D R1 H A



Outdoor Unit

F L T - H 24 / 4 D R1 H A (U)



*Inverter
series*



Inverter Series

Outdoor Unit

Specification-R410A 50Hz DC Inverter

Model	Outdoor		FL-H18/4DR1E	FL-H24/4DR1E	FL-H30/4DR1E
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Air Flow Volume	m ³ /h	2600	3000	4300
Performance	Sound Pressure Noise Level	dB(A)	54	58	58
	Sound Power Noise Level	dB(A)	64	70	70
Dimension (WxDxH)	Net	mm	785x300x555	825x310x655	900x350x700
	Packing	mm	888x367x590	945x435x725	1020x430x770
Weight	Net/Gross	kg	29/31	41/44	43/48
	Liquid Side	mm(inch)	6.35(1/4)	9.52(3/8)	9.52(3/8)
Piping size	Gas Side	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Max. Length	m	30	30	30
	Max. Height	m	15	15	15
	Ambient temperature	Cooling/Heating	°C	5-48/-15-24	5-48/-5-24
Stuffing Quantity	20/40/40H	unit	152/320/320	96/198/198	87/183/183

Specification-R410A 50Hz DC Inverter

Model	Outdoor		FL-H36/4DR1E	FLT-H48/NDR1B(U)	FL-H60/5DR1C
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50/60,1	380-415,50,3
	Air Flow Volume	m ³ /h	4300	6800	7000
Performance	Sound Pressure Noise Level	dB(A)	58	60	60
	Sound Power Noise Level	dB(A)	70	69	70
Dimension (WxDxH)	Net	mm	900x350x700	940x370x1325	940x370x1325
	Packing	mm	1020x430x770	1080x430x1440	1080x430x1440
Weight	Net/Gross	kg	50/54	94/104	90/100
	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping size	Gas Side	mm(inch)	15.88(5/8)	19.05(3/4)	19.05(3/4)
	Max. Length	m	30	50	50
	Max. Height	m	15	30	30
	Ambient temperature	Cooling/Heating	°C	5-48/-5-24	5-48/-15-24
Stuffing Quantity	20/40/40H	unit	87/183/183	27/55/55	27/55/55

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Inverter Series Mid ESP Duct

FEATURES

■ optional ■ standard



Wired Control



Auto Restart
Function



Long-term Filter



Hydrophilic
Aluminum Fin



Intelligent
Defrosting



Fast Cooling/
Heating



Low Ambient
Cooling



Remote Control



Central Control



Golden Fin



WIFI Control

Inverter Series

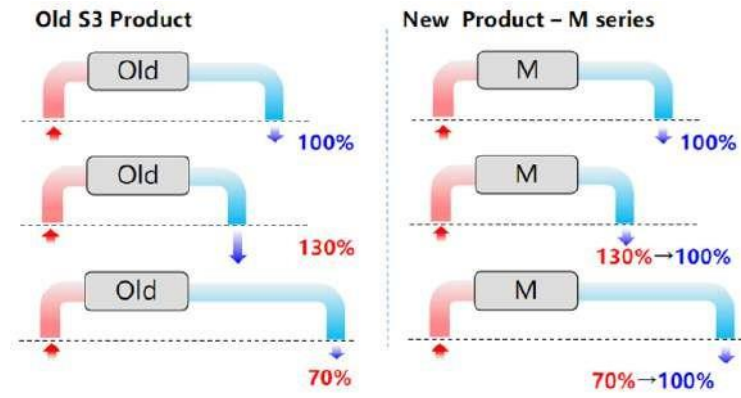
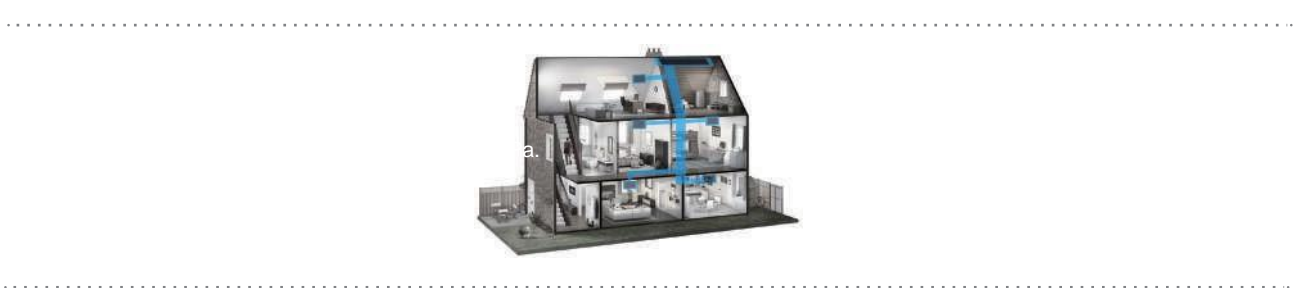
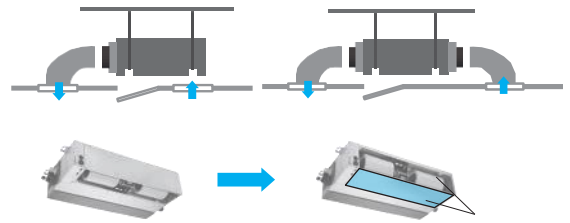
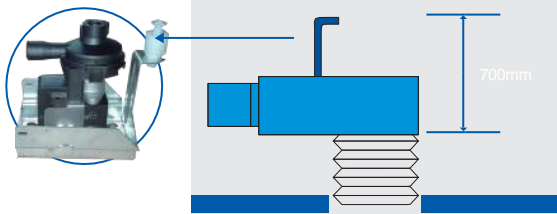
Mid ESP Duct



Standard



Standard



Mid ESP Duct



Specification-R410A 50Hz DC Inverter

Model	Indoor		FLMD-H18/4DR1E	FLMD-H24/4DR1E	FLMD-H30/4DR1E
	Outdoor		FL-H18/4DR1E	FL-H24/4DR1E	FL-H30/4DR1E
Capacity	Cooling/Heating	Btu/h	/19100 (4800~20300)	/25590 (6755~25930)	/32000 (9200~32750)
		kW	5.28 (1.53~5.61) /5.60 (1.40~5.94)	7.00 (2.16~7.50) /7.50 (1.98~7.60)	8.79 (3.30~9.00) /9.37 (2.70~9.60)
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling/Heating Power Input	kW	1.65 (0.47~2.05) /1.55 (0.46~2.01)	2.20 (0.67~2.70) /2.35 (0.65~2.65)	3.30 (0.82~3.60) /2.60 (0.72~2.90)
Performance	EER/COP	W/W	3.20/3.61	3.18/3.19	2.60/3.20
	Air Flow Volume	m3/h	1000/800/680	1500/1250/1050/950	1500/1250/1050/950
	Sound Pressure Noise Level	dB(A)	43/41/40	46/44/42/41	46/44/42/41
	Sound Power Noise Level	dB(A)	52/49/47	56/54/52/51	56/54/52/51
	ESP	Pa	0~160	0~160	0~160
Dimension (WxDxH)	Net	mm	1000X700X245	1000 × 700 × 245	1000 × 700 × 245
	Packing	mm	1230X830X300	1230 × 830 × 300	1230 × 830 × 300
Weight	Net/Gross	kg	29/34	32/36	32/36
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	21-35	28-47	32-55
Stuffing Quantity	20/40/40H	set	77/161/184	77/161/184	77/161/184

Specification-R410A 50Hz DC Inverter

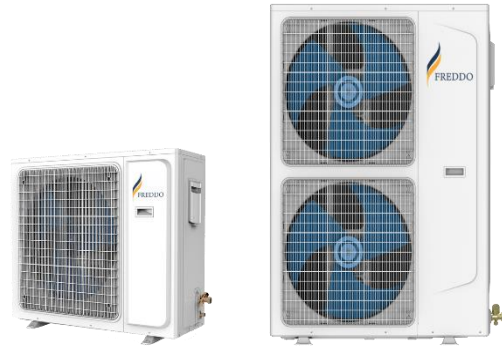
Model	Indoor		FLMD-H36/4DR1E	FLMD-H48/5DR1E	FLMD-H60/5DR1C
	Outdoor		FL-H36/4DR1E	FL-H48/5DR1E	FL-H60/5DR1C
Capacity	Cooling/Heating	Btu/h	36000(12280~37530)	48000 (14330~51250)	55000 (16380~59030)
		kW	/39880(9210~40940) 10.55(3.60~11.00) /11.69(2.70~12.00)	/52000 (15700~58000) 14.07(4.20~15.02) /15.24(4.60~17.00)	/63500 (16720~67560) 16.12 (4.80~17.30) /18.61 (4.90~19.80)
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling/Heating Power Input	kW	3.50 (0.93~3.80) /3.14 (0.95~3.56)	5.02 (1.29~7.50) /4.76(0.92~7.00)	5.97 (1.49~7.80) /6.08 (1.49~7.20)
Performance	EER/COP	W/W	3.01/3.72	2.80/3.20	2.70/3.06
	Air Flow Volume	m3/h	1500/1250/1050/950	2200/2000/1800/1600	2030/1880/1670
	Sound Pressure Noise Level	dB(A)	46/44/42/41	50/45/44/41	53/50/44
	Sound Power Noise Level	dB(A)	56/54/52/51	62/57/56/53	65/60/53
	ESP	Pa	0~160	0~120	0~120
Dimension (WxDxH)	Net	mm	1000 × 700 × 245	1400X700X245	1400X700X245
	Packing	mm	1230 × 830 × 300	1630X830X300	1630X830X300
Weight	Net/Gross	kg	32/36	47/54	47/54
Piping size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Applicable Area		m ²	40-65	50-93	64-107
Stuffing Quantity	20/40/40H	set	77/161/184	49/98/112	49/98/112

*on/off
series*

On/Off Series



Outdoor Unit



Specification-R410A 50Hz ON/OFF

Model	Outdoor		FL-H12/4R1F-R(U)	FL-H18/4R1F2-R(U)	FL-H24/4R1F3-R(U)	FL-H36/4R1F3-R(U)
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Air Flow Volume	m ³ /h	1700	2600	3000	3850
Performance	Noise Level	dB(A)	53	55	57	57
	Net	mm	730x285x545	800x315x545	825x310x655	970x395x805
Dimension (WxDxH)	Packing	mm	850x370x620	920x400x620	945x435x725	1105x495x895
	Compressor	Type	Rotary			
Weight	Net/Gross	kg	28/32	36/39	46/49	64/68
	Liquid Side	mm(inch)	6.35	6.35	9.52	9.52
Piping size	Gas Side	mm(inch)	12.7	12.7	15.88	15.88
	Max. Length	m	20	20	20	30
	Max. Height	m	15	15	15	20
	Ambient temperature	Cooling/Heating	°C	-5~49/-15~24	-5~49/-15~24	-5~49/-15~24
Stuffing Quantity	20/40/40H	unit	119/261/348	101/215/291	93/198/198	40/96/144

Specification-R410A 50Hz ON/OFF

Model	Outdoor		FL-H36/5R1F2-R(U)	FL-H48/5R1F3-R(U)	FL-H60/5R1F3-R(U)
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3
	Air Flow Volume	m ³ /h	3850	5800	5800
Performance	Noise Level	dB(A)	58	58	60
	Net	mm	970x395x805	940x340x1320	940x340x1320
Dimension (WxDxH)	Packing	mm	1105x495x890	1080x430x1440	1080x430x1440
	Compressor	Type	Rotary		
Weight	Net/Gross	kg	64/68	85/94	91/100
	Liquid Side	mm(inch)	9.52	9.52	9.52
Piping size	Gas Side	mm(inch)	15.88	19.05	19.05
	Max. Length	m	30	50	50
	Max. Height	m	20	30	30
	Ambient temperature	Cooling/Heating	°C	-5~49/-15~24	-5~49/-15~24
Stuffing Quantity	20/40/40H	unit	40/96/144	27/55/55	27/55/55

Mid ESP Duct



Standard

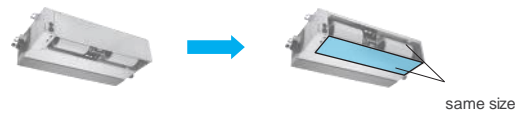


Standard



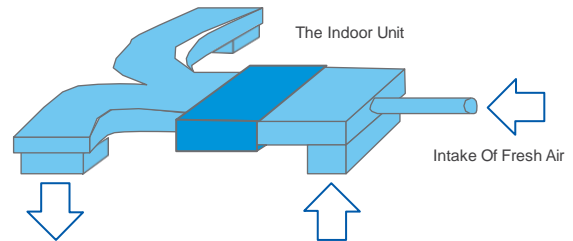
Flexible Installation

Air intake from rear as standard, from bottom is optional. The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirements.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Outlet

Reversing Intake

FEATURES

optional standard



Auto Restart Function



Hydrophilic Aluminum Fin



Fast Cooling/ Heating



Low Ambient Cooling



Intelligent Defrosting



Long-term Filter



Wired Control



Remote Control



Central Control



Golden Fin



WIFI Control



BMS

Mid ESP Duct



Specification-R410A 50Hz ON/OFF

Model	Indoor		FLLD-H12/4R1F-R	FLMD-H18/4R1YA-R	FLMD-H24/4R1MA-R	FLMD-H36/4R1MA-R
	Outdoor		FL-H12/4R1F-R(U)	FL-H18/4R1F2-R(U)	FL-H24/4R1F3-R(U)	FL-H36/4R1F3-R(U)
Capacity	Cooling/Heating	Btu/h	12000/12750	18000/19100	24000/25250	36000/39920
		kW	3.52/3.73	5.28/5.60	7.03/7.40	10.55/11.70
Electric Data	Cooling/Heating Power Input	kW	1.30/1.28	1.73/1.55	2.15/1.88	3.40/3.17
		Cooling/Heating Current	A	6.60/5.80	8.00/7.50	9.35/8.20
Performance	EER/COP	W/W	2.71/2.91	3.05/3.61	3.27/3.95	3.10/3.69
		Air Flow Volume	m ³ /h	613/513/433/388	950/800/590/520	1400/1300/1000/900
	Noise Level	dB(A)	39/37/33/29	39/35/31/28	44/39/37/36	47/43/40/37
		ESP	Pa	0-60	0-60	0-120
Dimension (WxDxH)	Net	mm	700x450x200	1000x450x200	1000x700x245	1000x700x245
	Packing	mm	1005x560x275	1300x555x275	1230x830x300	1230x830x300
Weight	Net/Gross	kg	18/21	20/24	32/37	32/37
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	176/368/414	136/288/324	77/161/184	77/161/184

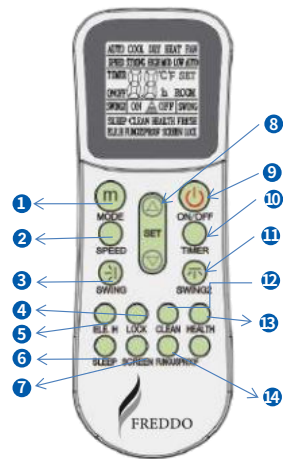
Specification-R410A 50Hz ON/OFF

Model	Indoor		FLMD-H36/5R1MA-R	FLMD-H48/5R1MA-R	FLMD-H60/5R1MA-R
	Outdoor		FL-H36/5R1F2-R(U)	FL-H48/5R1F3-R(U)	FL-H60/5R1F3-R(U)
Capacity	Cooling/Heating	Btu/h	36000/39920	48000/52000	55000/60000
		kW	10.55/11.70	14.07/15.24	16.12/17.60
Electric Data	Cooling/Heating Power Input	kW	3.50/3.43	4.68/4.42	5.55/5.01
		Cooling/Heating Current	A	7.20/7.00	8.10/8.00
Performance	EER/COP	W/W	3.01/3.41	3.01/3.45	2.90/3.51
		Air Flow Volume	m ³ /h	1600/1400/1200/1000	2200/2000/1800/1600
	Noise Level	dB(A)	47/43/40/37	50/46/44/41	50/46/44/41
Dimension (WxDxH)	Net	mm	1000x700x245	1400x700x245	1400x700x245
	Packing	mm	1230x830x300	1630x830x300	1630x830x300
Weight	Net/Gross	kg	32/37	42/38	42/38
Piping size	Drainage	mm(Inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	77/161/184	49/98/112	49/98/112

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Remote Controller

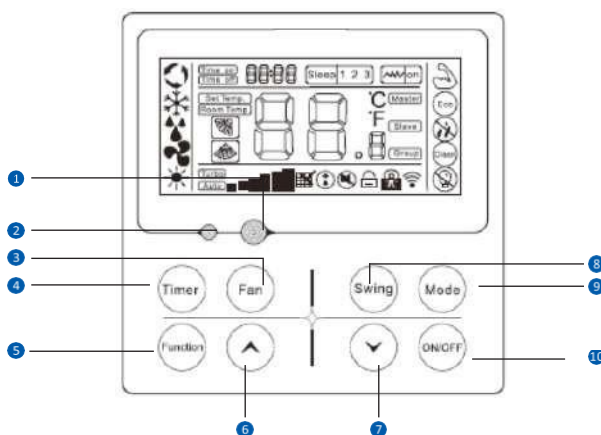
YK-K



- ① Mode Setting AUTO/COOL/DRY/HEAT/FAN
- ② Fan Speed Setting HIGH/MED/LOW/AUTO
- ③ Vertical Swing
- ④ Lock
- ⑤ Electrical Heating
- ⑥ Sleep Function
- ⑦ LED Display On/Off
- ⑧ Temperature-Setting /Timer Range Setting
- ⑨ ON/OFF
- ⑩ Timer On/Off
- ⑪ Horizontal Swing
- ⑫ Clean Function
- ⑬ Health
- ⑭ Fungusproof Function

Wired Controller

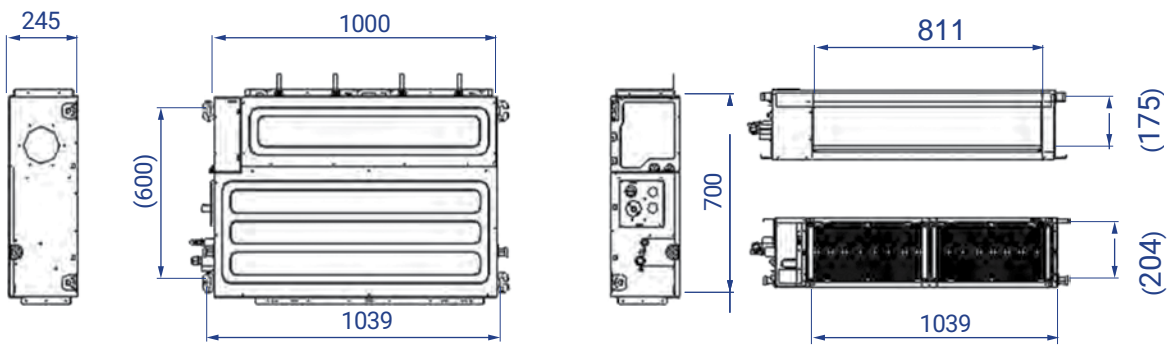
XK-04 (86x86mm)



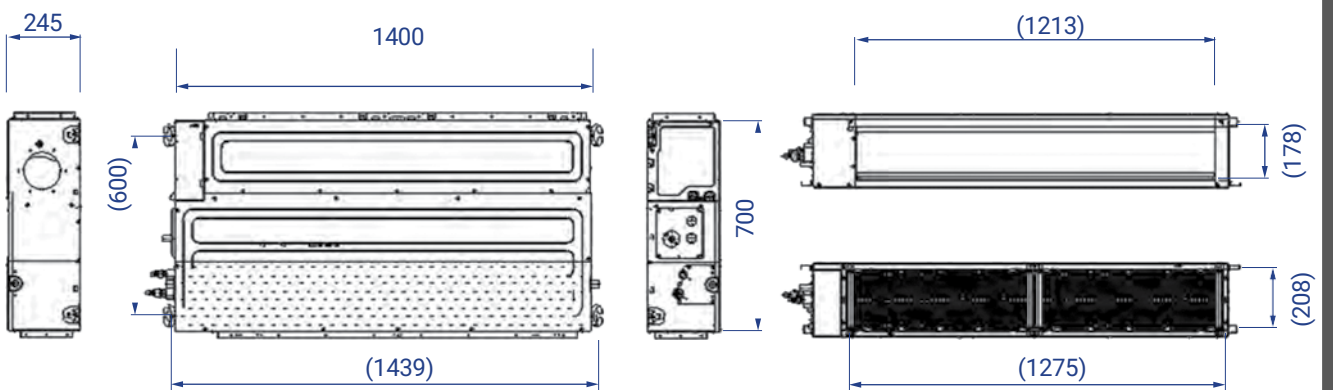
- ① Remote Signal Receiver
- ② Photosensitive Sensor Receiver
- ③ Fan Button
- ④ Timer Button
- ⑤ Function Button
- ⑥ "+" Button
- ⑦ "-" Button
- ⑧ Swing Button
- ⑨ Mode Button
- ⑩ ON/OFF Button

Dimensions

■ ,24K,30K,36K



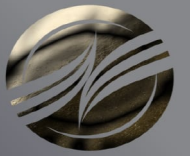
■ 48K, 60K





FREDDO

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HAMTA



FREDDO

Breathe The Difference