

INDOOR UNITS MULTI H3M

Service manual

MUCSR-H3M MUSTR-H3M MUCR-H3M







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Summary and features



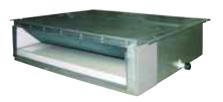
MUCSR-12-H3M MUCSR-18-H3M



MUCSR-24-H3M



MUSTR-09-H3M MUSTR-12-H3M MUSTR-18-H3M MUSTR-24-H3M



MUCR-09-H3M MUCR-12-H3M MUCR-18-H3M MUCR-21-H3M MUCR-24-H3M

Remote Controller

Wireless Remote Controller

YT1F(XFAN) CL98052



Wired Remote Controller

XK19 CL96106



1 Safety Precautions

Installing, starting up, and servicing air conditioner can behazardous due to system pressure, electrical components, and equipment location, etc.

Only trained, qualified installers and service personnel areallowed to install, start-up, and service this equipment. Untrained personnel can perform basic maintenance fun-ctions such as cleaning coils. All other operations should be performed by trained service personnel.

When handling the equipment, observe precautions in themanual and on tags, stickers, and labels attached to theequipment. Follow all safety codes. Wear safety glasses andwork gloves. Keep quenching cloth and fire extinguisher nearby when brazing.

Read the instructions thoroughly and follow all warnings or cautions in literature and attached to the unit. Consult localbuilding codes and current editions of national as well as local electrical codes.

Recognize the following safety information:

Warning Incorrect handling could result inpersonal injury or death.

Caution Incorrect handling may result inminor injury,or damage to productor property.

- Make sure the outdoor unit is installed on a stable, levelsurface with no accumulation of snow, leaves, or trashbeside.
 - Make sure the ceiling/wall is strong enough to bear theweight of the unit.
 - Make sure the noise of the outdoor unit does not disturbneighbors.
- Follow all the installation instructions to minimize the riskof damage from earthquakes, typhoons or strong winds.
 - Avoid contact between refrigerant and fire as it generatespoisonous gas.
- Apply specified refrigerant only. Never have it mixed withany other refrigerant. Never have air remain in therefrigerant line as it may lead to rupture and other hazards.
 - Make sure no refrigerant gas is leaking out when install-ation is completed.
- Should there be refrigerant leakage, the density of refri-gerant in the air shall in no way exceed its limited value, or it may lead to explosion.
 - Keep your fingers and clothing away from any moving parts.
 - Clear the site after installation. Make sure no foreign ob-jects are left in the unit.
 - Always ensure effective grounding for the unit.

Marning

All electric work must be performed by a licensed technicianaccording to local regulations and the instructions given in this manual.

- Before installing, modifying, or servicing system, mainelectrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.
 - Never supply power to the unit unless all wiring and tub-ing are completed, reconnected and checked.
- This system adopts highly dangerous electrical voltage. Incorrect connection or inadequate grounding can causepersonal injury or death. Stick to the wiring diagram and all the instructions when wiring.
 - Have the unit adequately grounded in accordance with local electrical codes.
 - Have all wiring connected tightly. Loose connection maylead to overheating and a possible fire hazard.

All installation or repair work shall be performed by your dea-ler or a specialized subcontractor as there is the risk of fire, electric shock, explosion or injury.

<u></u> Caution

- Never install the unit in a place where a combustible gasmight leak, or it may lead to fire or explosion.
- Make a proper provision against noise when the unit is installed at a telecommunication center or hospital.
 - Provide an electric leak breaker when it is installed in awatery place.
 - Never wash the unit with water.
- Handle unit transportation with care. The unit should not be carried by only one person if it is more than 20kg.
 - Never touch the heat exchanger fins with bare hands.
 - Never touch the compressor or refrigerant piping withoutwearing glove.
 - Do not have the unit operate without air filter.
 - Should any emergency occur, stop the unit and discon-nect the power immediately.
 - Properly insulate any tubing running inside the room toprevent the water from damaging the wall.

2 Specifications 2.1 Unit Specifications

Duct Type

Model		MUCR-09-H3M	MUCR-12-H3M	MUCR-18-H3M
Product code	Product code		CL20835	CL20836
O - alian a - a - ait.	kW	2.50	3.50	5.00
Cooling capacity	kBtu/h	8.53	11.94	17.06
	kW	2.80	3.85	5.50
Heating capacity	kBtu/h	9.55	13.14	18.77
Air flamma (II)	m³/h	450	500	700
Air flow volume(H)	CFM	265	294	412
Sound pressure level (H/L)	dB(A)	37/31	39/32	41/33
Sound power level (H/L)	dB(A)	47/41	49/42	50/43
Rated voltage	V	220-240	220-240	220-240
Frequency	Hz	50	50	50
Phases		1	1	1
Fan Type		Centrifugal	Centrifugal	Centrifugal
Fan Motor Full Load Amp(FLA)	Α	0.28	0.31	0.41
Fan Motor Speed	rpm	1230/970/760/640	1130/960/830/700	1000/920/780/720
Fan motor output	W	30	40	60
Input of fan motor	W	75	65	80
Fan motor running current	Α	0.28	0.31	0.41
Fan Motor Capacitor	μF	1.5	3	3
Cas Dina(ta indeen unit)	mm	Ф9.52	Ф9.52	Ф12.7
Gas Pipe(to indoor unit)	inch	Ф3/8	Ф3/8	Ф1/2
Liquid pipo	mm	Ф6.35	Ф6.35	Ф6.35
Liquid pipe	inch	Ф1/4	Ф1/4	Ф1/4
Connection method		Flare Connection	Flare Connection	Flare Connection
Drain pipes(external dia)	mm	20	20	20
Drain pipes(thickness)	mm	1.5	1.5	1.5
Unit dimensions(main body) (W×D×H)	mm	700×615×200	700×615×200	900×615×200
Package dimensions (main body)(W×D×H)	mm	893×743×305	893×743×305	1123×743×305
Net weight(main body)	kg	22.0	23.0	27.0
Gross weight(main body)	kg	27.0	29.0	36.0
Loading Quantity (20' Container)	unit	108	108	90
Loading Quantity (40' Container)	unit	234	234	180
Loading Quantity (40' High Cube Container)	unit	234	234	180

Model		MUCR-21-H3M	MUCR-24-H3M
Product code		CL20837	CL20838
0 " "	kW	6.00	7.10
Cooling capacity	kBtu/h	20.47	24.23
	kW	6.60	8.00
Heating capacity	kBtu/h	22.52	27.30
	m³/h	1000	1000
Air flow volume(H)	CFM	589	589
Sound pressure level (H/L)	dB(A)	42/34	42/34
Sound power level (H/L)	dB(A)	52/44	52/44
Rated voltage	V	220-240	220-240
Frequency	Hz	50	50
Phases		1	1
Fan Type		Centrifugal	Centrifugal
Fan Motor Full Load Amp(FLA)	А	0.5	0.5
Fan Motor Speed	rpm	1160/985/800/680	1160/985/800/680
Fan motor output	W	20	20
Input of fan motor	W	110	110
Fan motor running current	А	0.5	0.5
Fan Motor Capacitor	μF	3	3
Oce Pine (to in deep with)	mm	Ф15.9	Ф15.9
Gas Pipe(to indoor unit)	inch	Ф5/8	Ф5/8
l invited units a	mm	Ф9.52	Ф9.52
Liquid pipe	inch	Ф3/8	Ф3/8
Connection method		Flare Connection	Flare Connection
Drain pipes(external dia)	mm	20	20
Drain pipes(thickness)	mm	1.5	1.5
Unit dimensions(main body)(W×D×H)	mm	1100×615×200	1100×615×200
Package dimensions(main body)(W×D×H)	mm	1323×743×205	1323×743×205
Net weight(main body)	kg	31.0	31.0
Gross weight(main body)	kg	41.0	41.0
Loading Quantity(20' Container)	unit	72	72
Loading Quantity(40' Container)	unit	162	162
Loading Quantity (40' High Cube Container)	unit	162	162

Cassette type

Model		MUCSR-12-H3M	MUCSR-18-H3M
Product code		CL20824	CL20825
Cooling consoit.	kW	3.50	4.50
Cooling capacity	kBtu/h	11.94	15.35
	kW	4.00	5.00
Heating capacity	kBtu/h	13.65	17.06
Air flancourt on a (LI)	m³/h	600	600
Air flow volume(H)	CFM	353	353
Sound pressure level (H)	dB(A)	46	46
Sound power level (L)	dB(A)	56	56
Rated voltage	V	220-240	220-240
Frequency	Hz	50	50
Phases		1	1
Fan Type		Centrifugal	Centrifugal
Fan Motor Speed	rpm	820/720/620/420	820/720/620/420
Fan motor output	W	11	11
Input of fan motor	W	50	50
Fan motor running current	Α	0.23	0.23
Fan Motor Full Load Amp(FLA)	Α	0.2	0.2
Fan Motor Capacitor	μF	2.5	2.5
Coo Dina/ta indoor unit\	mm	Ф9.52	Ф12.7
Gas Pipe(to indoor unit)	inch	Ф3/8	Ф1/2
l inviduin a	mm	Ф6.35	Ф6.35
Liquid pipe	inch	Ф1/4	Ф1/4
Connection method		Flare Connection	Flare Connection
Drain pipes(external dia)	mm	Ф31	Ф31
Drain pipes(thickness)	mm	3.0	3.0
Unit dimensions(main body)(W×D×H)	mm	570×570×230	570×570×230
Unit dimensions(panel)(W×D×H)	mm	650×650×50	650×650×50
Package dimensions(main body)(W×D×H)	mm	851×731×325	851×731×325
Package dimensions(panel)(W×D×H)	mm	733×673×117	733×673×117
Net weight(main body)	kg	18.0	18.0
Net weight(panel)	kg	2.5	2.5
Gross weight(main body)	kg	23.0	23.0
Gross weight(panel)	kg	3.65	3.65
Loading Quantity(20' Container)	unit	102	102
Loading Quantity(40' Container)	unit	209	209
Loading Quantity (40' High Cube Container)	unit	246	246

Model		(none)	(none)	MUCSR-24-H3M
Product code		(none)	(none)	CL20826
	kW	3.50	5.00	7.10
Cooling capacity	kBtu/h	11.94	17.06	24.23
	kW	3.85	5.50	8.00
Heating capacity	kBtu/h	13.14	18.77	27.30
A := £1 (1.1)	m³/h	680	680	1180
Air flow volume(H)	CFM	400	400	694
Sound pressure level (H/L)	dB(A)	37/33	37/33	39/35
Sound power level (H/L)	dB(A)	47/43	47/43	49/45
Rated voltage	V	220-240	220-240	220-240
Frequency	Hz	50	50	50
Phases		1	1	1
Fan Type		Centrifugal	Centrifugal	Centrifugal
Fan Motor Full Load Amp(FLA)	Α	0.32	0.32	0.43
Fan Motor Speed	rpm	620/570/520/280	620/570/520/280	600/550/500/290
Fan motor output	W	35	35	35
Input of fan motor	W	70	70	100
Fan motor running current	Α	0.3	0.3	0.4
Fan Motor Full Load Amp(FLA)	Α	0.32	0.32	0.43
Fan Motor Capacitor	μF	3	3	3
Cas Dina/ta indoor unit)	mm	Ф9.52	Ф12.7	Ф15.9
Gas Pipe(to indoor unit)	inch	Ф3/8	Ф1/2	Ф5/8
Liquid pipo	mm	Ф6.35	Ф6.35	Ф9.52
Liquid pipe	inch	Ф1/4	Ф1/4	Ф3/8
Connection method		Flare Connection	Flare Connection	Flare Connection
Drain pipes(external dia)	mm	Ф31	Ф31	Ф31
Drain pipes(thickness)	mm	3.0	3.0	3.0
Unit dimensions(main body) (W×D×H)	mm	840×840×190	840×840×190	840×840×240
Unit dimensions(panel) (W×D×H)	mm	950×950×60	950×950×60	950×950×60
Package dimensions (main body)(W×D×H)	mm	963×963×273	963×963×273	963×963×325
Package dimensions(panel) (W×D×H)	mm	1043×1028×130	1043×1028×130	1043×1028×130
Net weight(main body)	kg	25.0	25.0	30.0
Net weight(panel)	kg	6.5	6.5	6.5
Gross weight(main body)	kg	33.0	33.0	38.0
Gross weight(panel)	kg	10	10	10
Loading Quantity (20' Container)	unit	48	48	40
Loading Quantity (40' Container)	unit	128	128	108
Loading Quantity (40' High Cube Container)	unit	144	144	128

Floor ceiling type

Model		MUSTR-09-H3M	MUSTR-12-H3M
Product code		CL20830	CL20831
Ocalia a como site.	kW	2.50	3.50
Cooling capacity	kBtu/h	8.53	11.94
Handing a specific	kW	2.80	3.85
Heating capacity	kBtu/h	9.55	13.14
Air flaussaluma (LI)	m³/h	650	650
Air flow volume(H)	CFM	383	383
Sound pressure level (H/L)	dB(A)	40/36	40/36
Sound power level (H/L)	dB(A)	50/46	50/46
Rated voltage	V	220-240	220-240
Frequency	Hz	50	50
Phases		1	1
Fan Type		Centrifugal	Centrifugal
Fan Motor Speed	rpm	790/690/610/480	790/690/610/480
Fan motor output	W	15	15
Input of fan motor	W	55	55
Fan motor running current	А	0.3	0.3
Fan Motor Full Load Amp(FLA)	А	0.3	0.3
Fan Motor Capacitor	μF	1	1
Gas Pipe(to indoor unit)	mm	Ф9.52	Ф9.52
Gas ripe(to indoor unit)	inch	Ф3/8	Ф3/8
Liquid ping	mm	Ф6.35	Ф6.35
Liquid pipe	inch	Ф1/4	Ф1/4
Connection method		Flare Connection	Flare Connection
Drain pipes(external dia)	mm	Ф17	Ф17
Drain pipes(thickness)	mm	1.75	1.75
Unit dimensions(main body)(W×D×H)	mm	1220×700×225	1220×700×225
Package dimensions(main body)(W×D×H)	mm	1343×823×315	1343×823×315
Net weight(main body)	kg	40.0	40.0
Gross weight(main body)	kg	50.0	50.0
Loading Quantity(20' Container)	unit	48	48
Loading Quantity(40' Container)	unit	96	96
Loading Quantity (40' High Cube Container)	unit	96	96

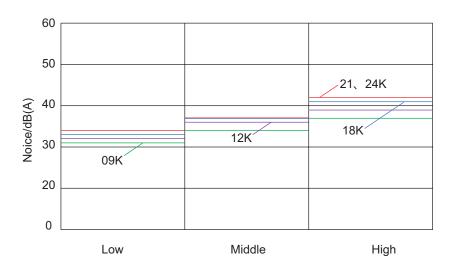
Model		MUSTR-18-H3M	MUSTR-24-H3M
Product code		CL20832	CL20833
O a diam a superita	kW	5.00	7.10
Cooling capacity	kBtu/h	17.06	24.23
	kW	5.50	8.00
Heating capacity	kBtu/h	18.77	27.30
Air floor and to a (II)	m³/h	950	1250
Air flow volume(H)	CFM	559	736
Sound pressure level (H/L)	dB(A)	45/40	48/44
Sound power level (H/L)	dB(A)	55/50	58/50
Rated voltage	V	220-240	220-240
Frequency	Hz	50	50
Phases		1	1
Fan Type		Centrifugal	Centrifugal
Fan Motor Speed	rpm	1160/985/800/680	1160/985/800/680
Fan motor output	W	20	50
Input of fan motor	W	110	110
Fan motor running current	А	0.5	0.5
Fan Motor Full Load Amp(FLA)	А	0.5	0.5
Fan Motor Capacitor	μF	2.5	3
Coo Ding/to indeed with	mm	Ф12.7	Ф15.9
Gas Pipe(to indoor unit)	inch	Ф1/2	Ф5/8
Liquid pipo	mm	Ф6.35	Ф9.52
Liquid pipe	inch	Ф1/4	Ф3/8
Connection method		Flare Connection	Flare Connection
Drain pipes(external dia)	mm	Ф17	Ф17
Drain pipes(thickness)	mm	1.75	1.75
Unit dimensions(main body)(W×D×H)	mm	1220×700×225	1220×700×225
Package dimensions(main body)(W×D×H)	mm	1343×823×315	1343×823×315
Net weight(main body)	kg	40.0	45.0
Gross weight(main body)	kg	50.0	54.0
Loading Quantity(20' Container)	unit	48	48
Loading Quantity(40' Container)	unit	96	96
Loading Quantity (40' High Cube Container)	unit	96	96

Notes:

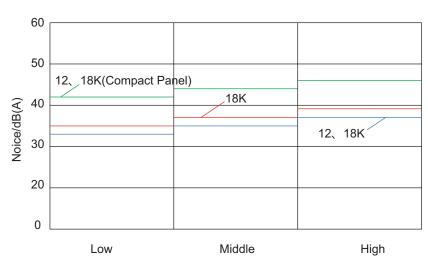
- a. The rated cooling capacity data is measured under the following work condition: Indoor Temperature is 27° C DB, 1 9°C WB. Outdoor Temperature is 35°C DB. The rated heating capacity data is measured under the following work condition: Indoor Temperature is 20°C DB. Outdoor Temperature is 7°C DB, 6°C WB.
 - b. The data will change with the change of products. Refer to those parameters listed on nameplate.
- c. Noise was tested in semi-silenced room, so the actual noise value will be a little higher for change of ambient.

2.2 Noise Criteria Curve Tables for Both Models

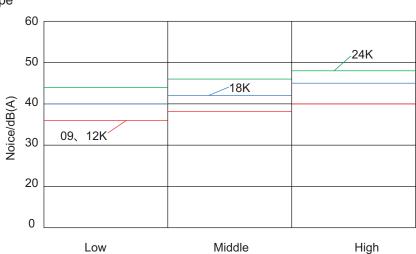
Duct Type



Cassette type



Floor ceiling type



3 Construction Views

Duct Type

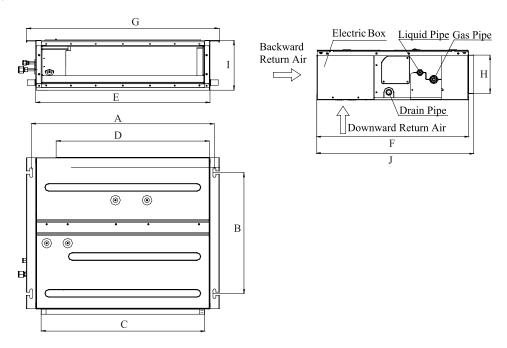
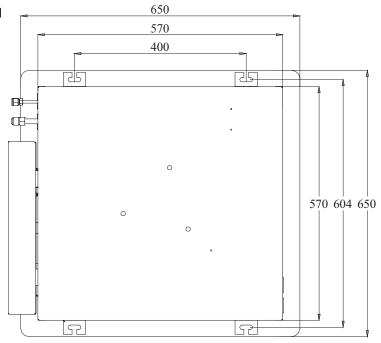


Table Outline Dimensions:

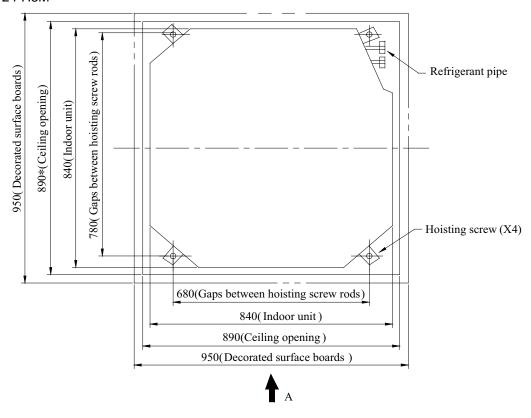
Model Item	А	В	С	D	E	F	G	Н	I	J
MUCR-09-H3M	742	491	662	620	700	615	782	156	200	635
MUCR-12-H3M	172	751	002	020	700	010	702	100	200	000
MUCR-18-H3M	942	491	862	820	900	615	982	156	200	635
MUCR-21-H3M	11.10	404	1060	1000	1100	615	1100	156	200	625
MUCR-24-H3M	1142	491	1062	1020	1100	615	1182	156	200	635

Cassette type

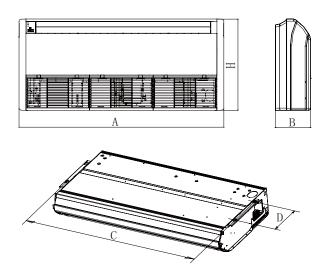
MUCSR-12-H3M MUCSR-18-H3M



MUCSR-24-H3M

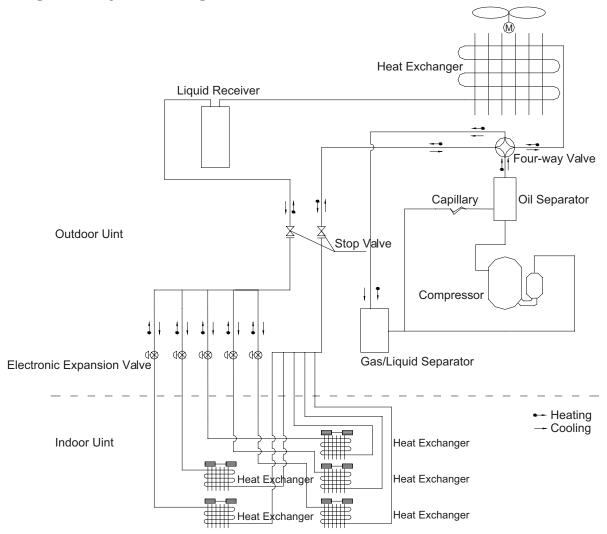


Floor ceiling type



Model	А	В	Н	С	D
MUSTR-09-H3M	1220		700	4450	000
MUSTR-12-H3M		005			
MUSTR-18-H3M		225	700	1158	280
MUSTR-24-H3M					

4 Refrigerant System Diagram



The outdoor and indoor units start to work once the power is switched on. During the cooling operation, the low temperature, low pressure refrigerant gas from the heat exchanger of each indoor unit gets together and then is taken into the compressor to be compressed into high temperature, high pressure gas, which will soon go to the heat exchanger of the outdoor unit to exchange heat with the outdoor air and then is turned into refrigerant liquid. After passing through the throttling device, the temperature and pressure of the refrigerant liquid will further decrease and then go the main valve. After that, it will be divided and go to the heat exchanger of each indoor unit to exchange heat with the air which needs to be conditioned. Consequently, the refrigerant liquid become low temperature, low pressure refrigerant gas again. Such a refrigeration cycle goes round and round to achieve the desired refrigeration purpose. During the heating operation, the four-way valve is involved to make the refrigeration cycle run reversely. The refrigerant radiates heat in the heat exchanger of the indoor unit (so do the electric heating devices) and absorb heat in the heat exchanger of the outdoor unit for a heat pump heating cycle so as to achieve the desired heating purpose.

5 Schematic Diagram

5.1 Electrical Data

Meaning of marks

Symbol	Color symbol	Symbol	Color symbol
WH	WHITE	BN	BROWN
YE	YELLOW	BU	BLUE
RD	RED	BK	BLACK
YEGN	YELLOW GREEN	VT	VIOLET
OG	ORANG		PROTECTIVE EARTH
SAT	OVERLOAD	COMP	COMPRESSOR

5.2 Electrical Wiring

Duct Type

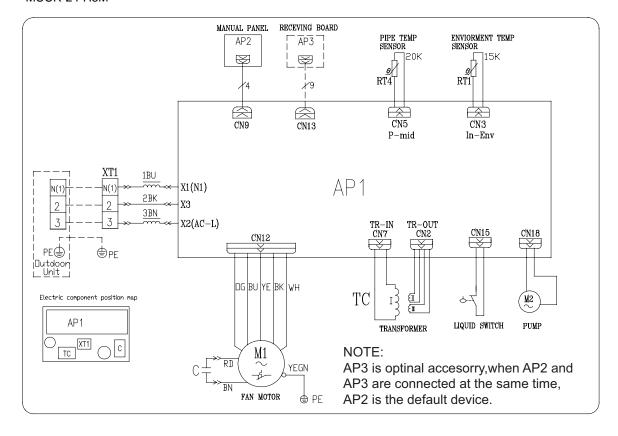
MUCR-09-H3M

MUCR-12-H3M

MUCR-18-H3M

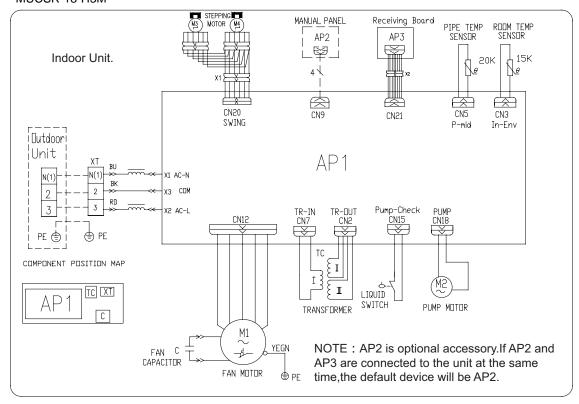
MUCR-21-H3M

MUCR-24-H3M

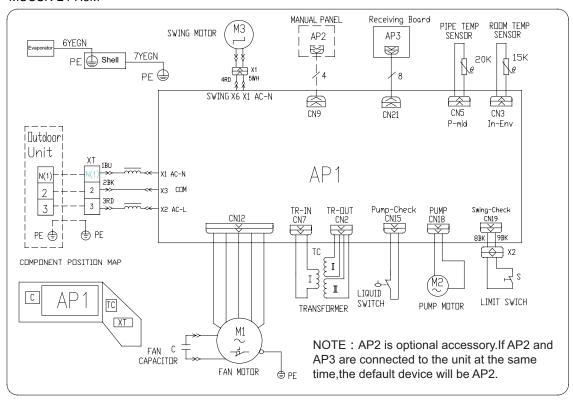


Cassette type

MUCSR-12-H3M MUCSR-18-H3M



MUCSR-24-H3M

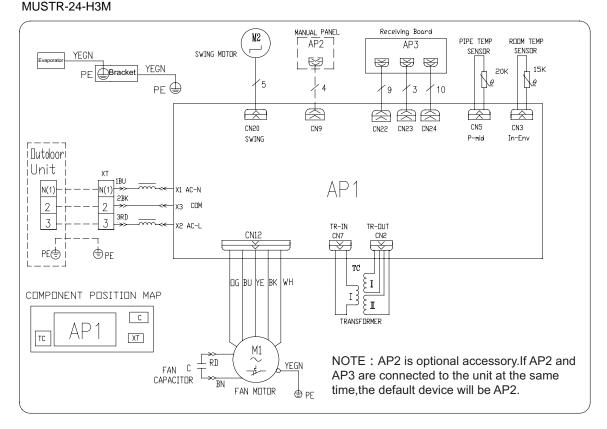


Floor ceiling type

MUSTR-09-H3M

MUSTR-12-H3M

MUSTR-18-H3M



5.3 Printed Circuit Board

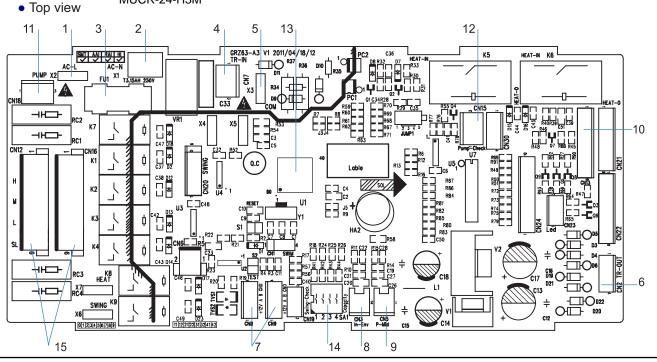
Duct Type for: MUCR-09-H3M

MUCR-12-H3M

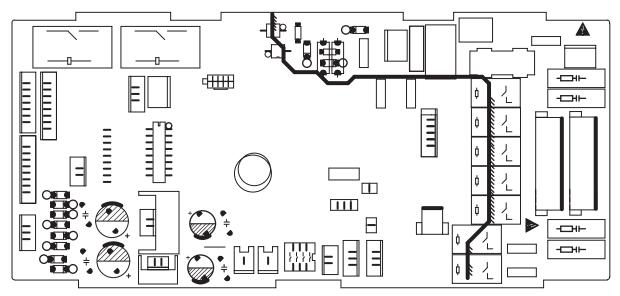
MUCR-18-H3M

MUCR-21-H3M

MUCR-24-H3M



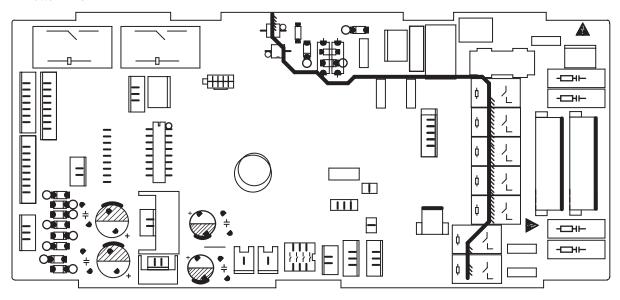
1	Live Line	9	Evaporator Mid-Tube Temperature Sensor
2	Neutral Line	10	Control Panel
3	Fuse	11	Water Pump
4	Transformer (High Voltage)	12	Water Level Indicator
5	Communication Line	13	MCU
6	Transformer (Low Voltage)	14	DIP Switch
7	Wired Controller	15	Fan
8	Indoor Temperature Sensor		



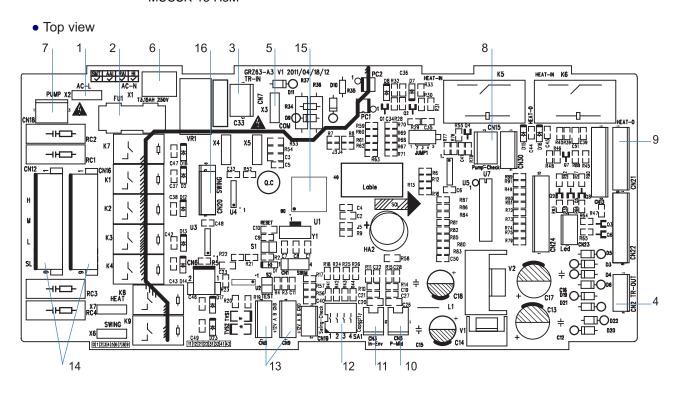
Cassette type for: MUCSR-24-H3M

• Top view 8 2 6 14 GRZ63-A3 V1 2011/04/18/12 _TR-IN - D1 R37 R36 D10 R35 HEAT-IN K6 \dashv ¢ \dashv CN12 Q.C ф /1⊢— 5 022 0123456789 13 15 12 10 16 11

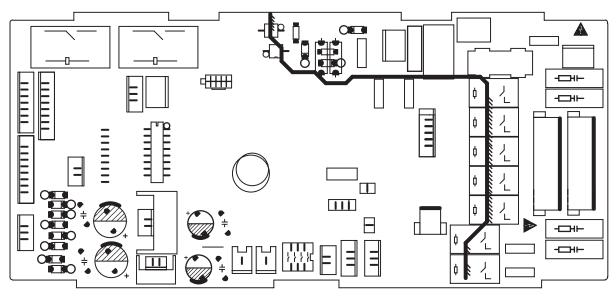
1	Live Line	9	Control Panel
2	Neutral Line	10	Evaporator Mid-Tube Temperature Sensor
3	3 Fuse		Indoor Temperature Sensor
4	Transformer (High Voltage)	12	Wired Controller
5	Transformer (Low Voltage)	13	Fan Motor
6	Communication Line	14	MCU
7	Water Pump	15	Fan
8	Water Level Indicator	16	DIP Switch



Cassette type for: MUCSR-12-H3M MUCSR-18-H3M



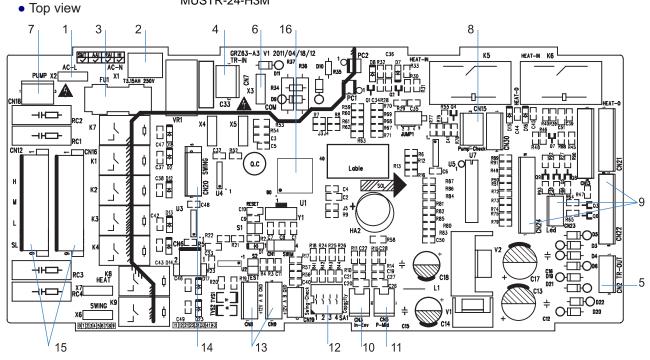
1	Live Line	9	Control Panel
2	Fuse	10	Evaporator Mid-Tube Temperature Sensor
3	Transformer (High Voltage)	11	Indoor Temperature Sensor
4	Transformer (Low Voltage)	12	DIP Switch
5	Communication Line	13	Wired Controller
6	Neutral Line	14	Fan
7	Water Pump	15	MCU
8	Water Level Indicator	16	Fan Motor



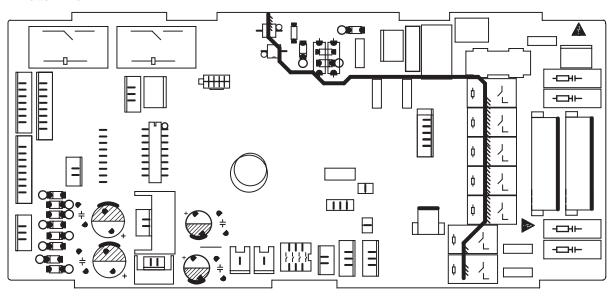
Floor ceiling type for: MUSTR-09-H3M

MUSTR-12-H3M MUSTR-18-H3M

MUSTR-24-H3M



1	Live Line	9	Control Panel
2	Neutral Line	10	Indoor Temperature Sensor
3	Fuse	11	Evaporator Mid-Tube Temperature Sensor
4	Transformer (High Voltage)	12	DIP Switch
5	Transformer (Low Voltage)	13	Wired Controller
6	Communication Line	14	Fan Motor
7	Water Pump	15	Fan
8	Water Level Indicator	16	MCU



6 Function and Control

6.1 Remote Control Operations



Press it to start or stop operation.

2 -

Press it to decrease temperature setting.

3 +:

Press it to increase temperature setting.

4 FAN

Press it to set fan speed.

5 MODE

Press it to select operation mode (AUTO/COOL/DRY/FAN/HEAT).

6 I FEEL

7 🕏

Press it to set HEALTH function

8

Press it to set AIR function.

9 CLOCK

Press it set clock.

10 TIMER ON

Press it to set auto-on timer.

11

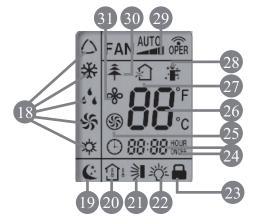
Press it set swing angle.

- 12 X-FAN (X-FAN is the alternative expression of BLOW for the purpose of understanding.)
- 13 TEMP
- 14 TIMER OFF

Press it to set auto-off timer

- 15 TURBO
- 16 SLEEP
- 17 LIGHT

Press it to turn on/off the light.



18 MODE icon:

If MODE button is pressed, current operation mode icon \triangle (AUTO), \circledast (COOL), ι^{ι} (DRY), ι^{\bullet} (FAN) or $\dot{\cong}$ (HEAT only for heat pump models) will show.

19 SLEEP icon:

C is displayed by pressing the SLEEP button. Press this button again to clear the display.

20 TEMP icon:

Pressing TEMP button, $\widehat{\ }$ (set temperature), $\widehat{\ }$ (ambient temperature), $\widehat{\ }$ \mathbb{I} (outdoor ambient temperature) and blank is displayed circularly.

21 Up & down swing icon:

🔰 is displayed when pressing the up & down swing button. Press this button again to clear the display.

22 LIGHT icon:

🏺 is displayed by pressing the LIGHT button. Press LIGHT button again to clear the display.

23 LOCK icon:

is displayed by pressing "+" and "-" buttons simultaneously. Press them again to clear the display.

24 SET TIME display:

After pressing TIMER button, ON or OFF will blink. This area will show the set time.

25 TURBO icon:

(§) is displayed when pressing the TURBO button. Press this button again to clear the display.

26 DIGITAL display:

This area will show the set temperature. In SAVE mode, "SE" will be displayed. During defrosting operation, "H1" will be displayed.

27 AIR icon:

1 is displayed when pressing the AIR button. Press this button again to clear the display.

28 I FEEL icon:

🌟 is displayed when pressing the I FEEL button. Press this button again to clear the display.

29 FAN SPEED display:

Press FAN button to select the desired fan speed setting (AUTO Low-Med-High). Your selection will be displayed in the LCD windows, except the AUTO fan speed.

30 HEALTH icon:

₹ is displayed when pressing the HEALTH button. Press this button again to clear the display.

31 X-FAN icon:

% is displayed when pressing the X-FAN button. Press this button again to clear the display.

1 ON/OFF:

Press this button to turn on the unit .Press this button again to turn off the unit.

2 -

Press this button to decrease set temperature. Hold it down for above 2 seconds to rapidly decrease set temperature. In AUTO mode, set temperature is not adjustable.

3 +:

Press this button to increase set temperature. Hold it down for above 2 seconds to rapidly increase set temperature. In AUTO mode, set temperature is not adjustable.

4 FAN

This button is used for setting Fan Speed in the sequence that goes from AUTO, _, _ 1, _ 1, _ 1, to then back to Auto.



5 MODE:

Each time you press this button, a mode is selected in a sequence that goes from AUTO,COOL,DRY, FAN,and HEAT *, as the following:



*Note: Only for models with heating function.

After energization, AUTO mode is defaulted. In AUTO mode, the set temperature will not be displayed on the LCD, and the unit will automatically select the suitable operation mode in accordance with the room temperature to make indoor room comfortable.

6 I FEEL:

Press this button to turn on I FEEL function. The unit automatically adjust temperature according to the sensed temperature. Press this button again to cancel I FEEL function.

7 章:

Press this button to set HEALTH function ON or OFF. After the unit is turned on, it defaults to HEALTH function ON.

8 1:

Press this button to select AIR function ON or OFF.

9 CLOCK:

Pressing CLOCK button, <a>Olinks. Within 5 seconds, pressing + or - button adjusts the present time. Holding down either button above 2 seconds increases or decreases the time by 1 minute every 0.5 second and then by 10 minutes every 0.5 second. During blinking after setting, press CLOCK button again to confirm the setting, and then <a>Olive will be constantly displayed.

10 TIMER ON:

Press this button to initiate the auto-ON timer. To cancel the auto-timer program, simply press this button again.

After pressing this button, disappear sand "ON" blink s . 00:00 is displayed for ON time setting. Within 5 seconds, press + or - button to adjust the time value. Every press of either button changes the time setting by 1 minute. Holding down either button rapidly changes the time setting by 1 minute and then 10 minutes. Within 5 seconds after setting, press TIMER ON button to confirm.

11 🗼

Press this button to set up & down swing angle, which circularly changes as below:

12 X-FAN:

Pressing X -FAN button in COOL or DRY mode, the icon % is displayed and the indoor fan will continue operation for 10 minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO,FAN or HEAT mode.

13 TEMP:

Press this button, could select displaying the indoor setting temperature or indoor ambient temperature. When the indoor unit firstly power on it will display the setting temperature, if the temperature's displaying status is changed from other status to" (1) ", displays the ambient temperature, 5s later or within 5s, it receives other remote control signal that will return to display the setting temperature. if the users haven't set up the temperature displaying status, that will display the setting temperature.

14 TIMER OFF:

Press this button to initiate the auto-off timer. To cancel the auto-timer program, simply press the button again.TIMER OFF setting is the same as TIMER ON.

15 TURBO:

Press this button to activate / deactivate the Turbo function which enables the unit to reach the preset temperature in the shortest time. In COOL mode, the unit will blow strong cooling air at super high fan speed. In HEAT mode, the unit will blow strong heating air at super high fan speed.

16 SLEEP:

Press this button to go into the SLEEP operation mode. Press it again to cancel this function. This function is available in COOL, HEAT (Only for models with heating function) or DRY mode to maintain the most comfortable temperature for you.

17 LIGHT:

Press LIGHT button to turn on the display's light and press this button again to turn off the display's light. If the light is turned on, \hat{Q} is displayed. If the light is tunned off, \hat{Q} disappears.

- Combination of "+" and "-" buttons: About lock

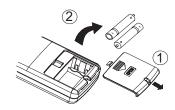
 Press "+ " and "-" buttons simultaneously to lock or unlock the keypad. If the remote controller is locked, is displayed. In this case, pressing any button, blinks three times.
- Combination of "MODE" and "-" buttons: About switch between Fahrenheit and Centigrade At unit OFF, press "MODE" and "- " buttons simultaneously to switch between $^{\circ}$ C and $^{\circ}$ F .

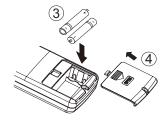
Replacement of Batteries

- 1) Remove the battery cover plate from the rear of the remote controller.(As shown in the figure)
 - 2) Take out the old batteries.
- 3) Insert two new AAA1.5V dry batteries, and pay attention to the polarity.
 - 4) Reinstall the battery cover plate.

Notes:

- d. When replacing the batteries, do not use old or different types of batteries, otherwise, it may cause malfunction.
- e. If the remote controller will not be used for a long time, please remove batteries to prevent batteries from leaking.
 - f. The operation should be performed in its receiving range.
- g. It should be kept 1m away from the TV set or stereo sound sets.
- h. If the remote controller does not operate normally, please take the batteries out and reinsert them after 30 seconds. If it still can't operate properly, replace the batteries.





Sketch map for replacing batteries

6.2 Description of Each Control Operation

Protection Function

1) Mode Conflict Protection of indoor unit

When the setting mode is different of different indoor unit, the unit runs in below status:

- a. The mode of the first operating indoor unit is the basic mode, then compare the mode of the other indoor units to see if there is a conflict. Cooling mode (dry mode) is in conflict with heating mode.
- b. Fan mode is in conflict with heating mode and the heating mode is the basic mode. No matter which indoor unit operates first, the unit will run in heating mode.
 - 2) Communication malfunction

Detection of the quantity of installed indoor units: After 3min of energizing, if the outdoor unit does not receive the communication data of certain indoor unit, the outdoor unit will judge that indoor unit is not installed and will treat it as it is not installed. If the outdoor unit receives the communication data of that indoor unit later, the outdoor unit will treat that unit as it is installed.

Control Function of Indoor Unit

1) Running Mode

1.COOL 2.DRY 3.HEAT 4.AUTO 5 FAN

- 2) Basic Functions of the System
- a. COOL Mode

Under this mode, the fan and swing function goes as the set conditions, and the set temperature range is 16° C ~30°C .

b. DRY Mode

Under this mode, the fan will run at the low speed and the swing function is performed under the set conditions. The set temperature range is $16\sim30^\circ$ C.

c. FAN Mode

Under this mode, only the fan of the indoor unit runs. And if the auto speed is set, the fan will run under the same condition as the COOL mode.

- d. HEAT Mode
- a) Under this mode, the set temperature rang is $16\,^{\circ}\text{C}$ ~ $30\,^{\circ}\text{C}$.
- b) The defrosting symbol "H1" will be displayed when the defrosting signal is received from the outdoor unit.
 - e. AUTO Mode
 - a) When the ambient temperature is higher than 25° C, the unit will run as the COOL mode.
- b) For the cooling and heating unit, if the ambient temperature is or lower than 22 ℃, the unit will run as the HEAT mode.
- c) When the indoor ambient temperature is higher than $22^{\circ}\mathbb{C}$ but lower than $26^{\circ}\mathbb{C}$, the system will run at the FAN mode, and the set temperature is $24^{\circ}\mathbb{C}$. In this case, if other indoor unit runs at the HEAT mode, a mode conflict alarm will be raised.
 - 3) Other Control
 - a. Beeper Control

When the controller is powered on or it receives a valid either press button signal or remote control signal, the beeper will utter a warning tone.

- b. Auto Speed Control
- a) Under the HEAT Mode: (Ambient temperature herein is the temperature without temperature compensation)

When the ambient temperature is or lower than the set temperature, the indoor unit runs at the high speed. When the ambient temperature is higher than the set temperature but lower than the set temperature plus 2° C, the indoor unit fan runs at the medium speed.

When the ambient temperature is or lower than the set temperature plus 2 $\,^\circ\mathbb{C}\,$, the fan runs at the low speed.

b) Under the COOL and FAN Modes

When the ambient temperature is or higher than the set temperature plus $3^{\circ}\mathbb{C}$, the indoor unit runs at high speed.

When the ambient temperature is higher than the set temperature plus 1 $\,^{\circ}$ C but lower than the set temperature plus 3 $\,^{\circ}$ C, the indoor unit fan runs at the medium speed.

When the ambient temperature is or lower than the set temperature plus 1 $\,^\circ \!\!\!\! \mathbb{C}$, the fan runs at the low speed.

c) Once the fan starts at a certain speed, it will keep running at this speed for no less than 30 seconds prior to any changeover stated above.

c. AUTO Press Button

The whole unit will run under the AUTO mode by pressing this button when the unit is off. In this condition, the fan of the indoor unit will run at the auto speed with the swing function activated. When the unit is on, it will be turned off by pressing this button. This button is unavailable to the floor/ceiling unit.

d. Sleep

Under this mode, the proper sleep curve will be adopted in accordance with different set temperatures.

Under the COOL mode or the DRY mode, the temperature will go up by 1° C after one hour and by another 1° C after another hour, after that, the temperature will be kept on.

Under the HEAT mode, the temperature will go down by 1 $^{\circ}$ C after one hour and by another 1 $^{\circ}$ C after another hour, after that, the temperature will be kept on.

- e. Timer
- a)Timer On

When the unit is powered on but in the idle condition, it is available to set when to start the unit. Then, when the unit starts, it will run as the previously set mod. The set range of the timer is $0.5 \sim 24$ hours with a interval of 0.5 hour.

b) Timer Off

When the unit is on, it is available to set when to stop the unit. The set range of timer is 0.5 \sim 24 hours with a interval of 0.5 hour.

- f. Memory
- a) Memorizing Objects: modes (AUTO, COO, DRY, FAN, HEAT), swing, set temperature, set fan speed, etc.
- b) When the indoor unit works without the wired controller, it will resume the working condition as the power failure occurs after it is powered on again. When the indoor unit is with the wired controller, it is available to set the memory function by pressing the corresponding buttons of the wired controller.
- c) When the indoor unit works without the wired controller, if the timer is not set for the last remote control instruction, the system will memorize this last instruction and works following it; if the timer is set, it will be canceled as the power failure occurs and will have to be reset.
- d) When the indoor unit works with the wired controller, it will wok as the message sent by the wired controller after it is powered on again.
 - g. Selection of the Indoor Temperature Sensor
 - a) when the indoor unit works with the Control Panel (receiver device):
- ① For the duct type indoor unit: Under the COOL, HEAT, DRY, or FAN mode, the return air temperature sensor is adopted; while under the HEAT mode, it is the receiver temperature sensor. Under the AUTO mode, the receiver temperature sensor is adopted. However, if this temperature sensor fails, the sensor located at the return air inlet will take the place.
- ② For the cassette type, floor/ceiling type indoor unit: Under all modes, the return air temperature sensor is adopted.
- b) When the duct type, cassette type, or the floor/ceiling type indoor unit works with the wired controller, the ambient temperature sensor can be set in the following four ways:
 - ① 01:The indoor temperature sensor is set for the return air.
 - ② 02:The indoor temperature sensor is set for the wired controller.
- ③ 03:The indoor temperature sensor is set for the wired controller under the HEAT mode, and for the return air under any other mode.
- ④ 04:The indoor temperature sensor is set for the return air under the HEAT mode, and for the wired controller under any other mode.
 - c) Setting of the Ambient Temperature Sensor of the Wired Controller XK19.

When the unit is off, it is available to go to the debugging status by pressing the "Function" and "Timer" buttons for five seconds, and the corresponding code will be displayed on the temperature area of the wired controller. There are four kinds of codes which can be adjusted through the " ∇ " /" \triangle " button.

The third one is the default code. The setting of the ambient temperature sensor of the wired controller should be memorized.

The "Enter/Cancel" button shall be pressed to confirm and leave the setting. If there is no response to the last button press within 20 seconds, then the system will quit the setting and go to the normal "Off" status but with the setting still saved.

h. Switchover of the Defrosting Mode

On condition that the unit is off, if "H1" is not displayed on the wireless controller, then the unit will go to the

setting status of the "Defrosting Mode 1" as it is turned on through the wired controller. Then, once the indoor unit receives this signal, it will soon send it to the outdoor unit. In contract, if "H1" is displayed, the unit will go the setting status of the "Defrosting Mode 2", and the indoor unit also will send this signal to the outdoor unit as soon as it receives it.

On condition that the unit is off, it is available to switch over the "Defrosting Mode 1" and "Defrosting Mode 2" by pressing the "MODE" and "BLOW" buttons simultaneously.

i Turbo

As soon as the controller receives the "Turbo" instruction, the fan of the indoor unit will run at the high speed .

j.Blow

Blow Function: It is a function to automatically blow off the moist inside the exchanger of the indoor unit to prevent mould growing after the unit is shut off.

- a) On condition that this function is activated, when the "On/Off" press button is operated, the fan of the indoor unit will still run for ten minutes (with the symbol "BLOW" displayed). At this time, the fan will stop as this function is deactivated.
 - b) This function is unavailable under the AUTO, FAN, and HEAT modes.

7 Installation Manual

7.1 Precautions for Installation

7.1.1 Precautions for Installation

Before installation, please ensure if the installing site, power ratings, possible operating range (pipe distance, height difference between indoor and outdoor unit, power voltage) and installing space are correct and suitable. The outdoor unit is general to all models according to its power.

- ◆ To ensure correct installation, please make sure to read the Safety Considerations thoroughly before starting the installation works.
- ♦ The considerations stated below are classified into ⚠WARNING and ⚠CAUTION. Those that might cause death or severe injury in case of wrong installation are identified in ⚠WARNING. However, those that are stated in ⚠CAUTION may also cause severe accidents sometimes. Therefore, both of them relate to important safety considerations and must be strictly followed.
- ◆ After completing the installation and test run and confirming that all are normal, please introduce to the client on how to use and repair the machine according to the Operating Instructions. Besides, please deliver the considerations herein to the clients together with the Operating Instructions, and ask them to keep properly.

WARNING!

- ◆ The installation shall be performed by the vendor or professional dealer from which you buy the machine. If you install by yourself, any improper installation might cause water leakage, electric shock or fire accident.
- ◆ The installation shall be done correctly according to installation instructions. Improper installation may cause water leakage, electric shock or fire.
- ♦ To install a large air-conditioning system in a small room, please make sure to take measures to prevent that the refrigerant will not exceed the limit concentration in case of leakage. For the measures to prevent the refrigerant from exceeding the limit concentration, please consult your dealer. If no proper measures, it might cause human suffocation in case of refrigerant leakage.
- ◆ Please install at a position that is strong enough to support the weight of machine. If the installing position is of low strength, the machine may drop down and thus cause human injury.
- ◆ Please carry out installation in accordance with the rules for preventing the typhoon or earthquake. The machine may tip over if the installation does not comply with the requirements.
- ♦ The electrical cabling shall be carried out by qualified electricians in accordance with the Safety Code for Electrical Equipment, relevant local rules and the installation instructions. Make sure to use the special-purpose circuit. If the power circuit capacity is low or the construction is improper, it might cause electric shock or fire accidents.
- ♦ Please use suitable cables and connect them securely. Please fix the terminal joints securely. The terminal connection shall not be affected due to any external force applied onto the cable. Improper connection and fixing may cause heating and fire accidents.
- ◆ Keep the cables in correct shape and prevent them from protruding upward. Please protect them securely with repair board. Improper installation may cause heating and fire accidents.
- ♦ When erecting or relocating the air conditioner, do not let any air enter into cooling circulation system except the specified refrigerant. If any air is mixed, abnormal high pressure will occur in the cooling circulation system, thus causing crack or human injury accidents.
- ◆ During installation, please always use the attached parts or designated parts. Failure to use the designated parts may cause water leakage, electric shock, fire or refrigerant leakage.

ACAUTION:

- ◆ Please earth securely. Do not connect the earth wires to gas pipe, water pipe, lightning rod or telephone line. Improper earthling might cause electric shock.
- ◆ Leakage circuit breaker must be installed at some place. No installation of leakage circuit breaker might cause electric shock.
- ◆ Do not install at a place where inflammable gas might leak. Gas leakage and despot around the machine might cause fire accidents.
- ◆ To ensure correct drainage of water, the drainage pipe shall be installed according to the installation instructions. Also the heat insulation shall be provided to avoid condensing. Improper installation of the pipe might result in water leakage and lead to possible wetting of the articles in the room.

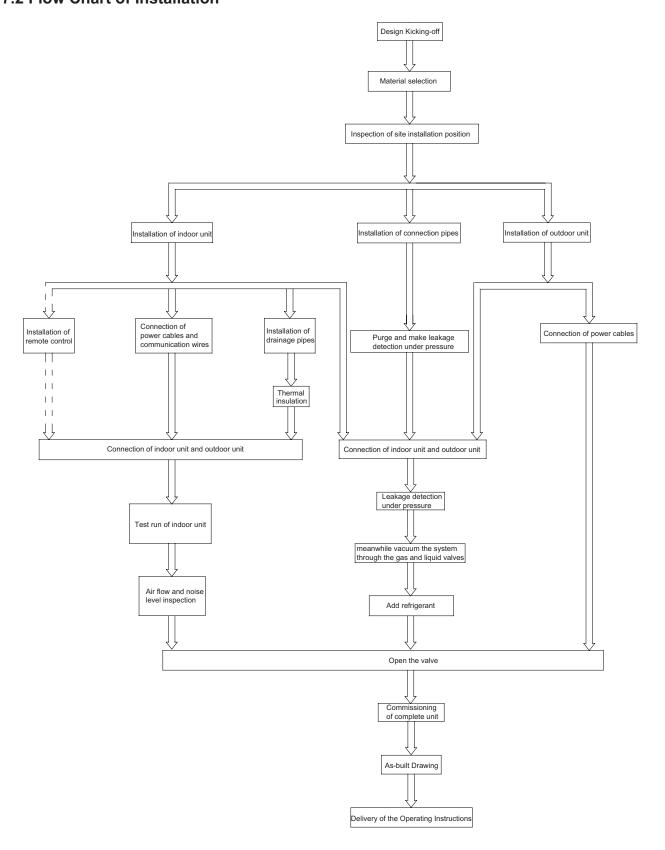
7.1.2 Key Points of Installation

Installation Procedures		S	Description and Acceptance Criteria
Material Selection and Equipment Inspection		t Inspection	The materials specified on the engineering drawing shall be purchased as specified (e.g. copper tube, thermal insulation tube, PVC pipe, power cables, air switch, etc). The materials not specified on the engineering drawing shall be purchased according to the actual quantity of works (e.g. hanger frame, cable duct, etc). Check if the outdoor unit, indoor unit, communication wires and accessories are complete.
	Connection Communication wire		The power cables shall be separated from communication wires at a least distance of 10cm. To avoid breaking the communication wires, please do not use strong force. For multiple units, please mark them properly. Switch on indoor and outdoor unit, and ensure there is no display of "Communication Wire Error E6".
		Address dial code	Each indoor unit under the same system has a unique address dial code. The wired controller and its corresponding indoor unit have the same address dial code. code.
	Remote Control		Select the remote control mode. The centralized controller and communication module shall be installed free from the source of interference.
Installation of indoor unit	Power cord		The power cable must meet the specifications. The indoor units under the same system must be arranged under unified powe supply.
	Installati Drainage Pipe		The PVC pipes must meet the specifications. A specific gradient must be provided along the water flow direction. Carry out water detection after installation. Carry out thermal insulation to the drainage pipe only after the water detection i accepted.
		Thermal insulation	The thermal insulation tube must meet the specifications. Seal between the thermal insulation pipes to avoid air entry.
	Installation of Air Duct (when with high static pressure duct-type unit)		Design the length of air duct according to static pressure; The air inlet shall be optimally designed to avoid too small size
Installation of connection pipes	Welding		The copper tube must meet the specifications. Ensure it is dry and clean inside the tube. Make sure to charge nitrogen as required for protection when welding the tubes. Please keep to the welding process and ensure the system free of leakage. Add a dual-way filter on liquid pipe side For multiple systems, please mark them properly. Carry out leakage detection under pressure after welding.
	Purge and make leakage detection under pressure		Purge the system clean. Keep the pressure for 24 hours Except for the influence by temperature, it is deemed acceptable if pressure drop within 0.02MPa. (With the temperature change by 1 °C, the pressure will change by approx. 0.01MPa)
	Thermal insulation		The thermal insulation tube must meet the specifications. Seal between the thermal insulation pipes to avoid air entry.
Installation of outdoor unit		nit	Select the installing position correctly. Build the foundation according to the anchor bolt position and the dimension outdoor unit Build the damping device properly. Avoid sharp knock when handling the outdoor unit. The inclination angle shall not b higher than 15°.
Connection of indoor unit and outdoor unit		utdoor unit	Tighten the nuts. Provide proper protection to the outdoor connection pipe, communication wires an power supply.
Leakage detection under pressure		essure	Keep the pressure for 24 hours. Except for the influence by temperature, it is deeme acceptable if pressure drop is within 0.02MPa. (With the temperature change by 1°C the pressure will change by approx. 0.01MPa).
Vacuuming			Establish vacuum simultaneously in the gas pipe and liquid pipe; The vacuuming time shall be long enough. Put still for 1 hour after vacuuming. It is deemed acceptable if the pressure will no rise.
Add refrigerant			Add refrigerant according to the volume as specified on the engineering drawing.
Open t	he valve of outdoor	r unit	
Commis	ssioning of complet	e unit	

Remarks: a. Described above are general working procedures. The procedures might vary with the site conditions.

b. For detailed installation rules, please see the description in each chapter.

7.2 Flow Chart of Installation



7.3 Install Indoor Unit

7.3.1 Installation of Duct Type

1) Before Installation

Check if there is any damage to the indoor unit, and the wireless controller and other part and components are prepared completely.

2) Installation Site

The selection of the installation place of the air conditioner unit

The installation must accord with the national and local safe criterion.

Since the quality of installation would affect the operation directly, user should contact the seller and have the conditioner installed and tested by the professional install personnel according to the install instruction instead of install by himself/herself.

Only connect the power after all the installation works are finished.

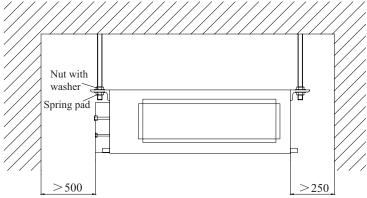
- The selection of the installation place of the indoor unit
- Prevent direct sun burn.
- ◆ Make sure that the top steeve, ceiling, and the structure of the construction etc. is strong enough to bear the weight of the unit.
 - ◆ The drainage pipe is easy to drain.
 - ◆ The air flow is not blocked at the outlet and intake vents.
 - ◆ The connecting pipe indoor and outdoor can by lead to outside conveniently.
- ◆ The unit cannot be installed in the place where stored the flammability, easy exploded thing or the place where would have leakage of flammability and exploded gas.
- ◆ The unit cannot be installed in the place where has the corrupt gas and serious dust, saline fog, lampblack and huge humidity.

⚠Note:

The air conditioner unit installed in the following place may have malfunction, if the malfunction cannot prevent, please contact the Nominated Repair Center Of Gree Electric Appliances, Inc. Of Zhuhai.

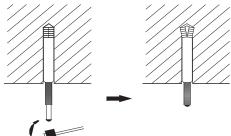
- a. The place with greasy all around.
- b. The seashore place with salinity and alkali.
- c. The place with vulcanized gas(such as vulcanized hot spring).
- d. The place with high frequency equipment (such as wireless equipment, electric welding machine and medical treatment equipment).
 - e. The place with special environment.
 - 3) Caution for Installation
 - ◆ Ensure the hanger is strong enough to withstand the weight of the unit.
 - ◆ The drainage of the drain pipe is easy.
 - No obstacle is in the inlet/outlet and the air circulation is in good condition.
 - ◆ Ensure the installation space is left for the access to maintenance.
- ♦ It should be far away from where there is heat source, leakage of inflammable, explosive substances, or smog.
 - ◆ It is the ceiling type unit (concealed in the ceiling).
- ◆ The power cords and connection lines of the indoor and outdoor units must be at least 1m away from the TV set or radio to avoid the image interference and noise (even if 1m is kept, the noise may be produced due to the strong electric wave).

4) Installation Clearance Data

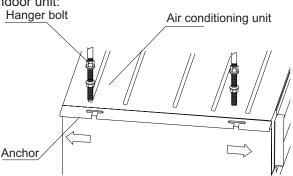


a. Installation of the Indoor Unit

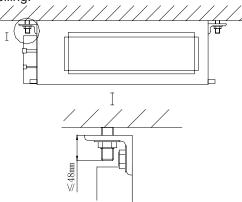
Insert the M10 expansion bolt into the hole, and then knock the nail into the bolt. Refer to the Outline Dimension Drawings of the Indoor Unit for the distance between holes and see Fig.3 for the installation of the expansion bolt.



Install the hanger on the indoor unit:



Install the indoor unit on the ceiling:



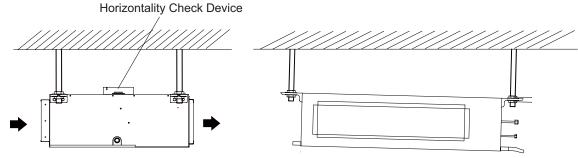
realCAUTION:

- a. Prior to the installation, please make a good preparation for all piping (refrigerant pipe, drain pipe) and wiring (wires of the wired controller, wires between the indoor and outdoor unit) of the indoor unit to make the further installation much easier.
- b. If there is an opening in the ceiling, it is better to reinforce it to keep it flat and prevent it vibrating. Consult the user and builder for more details.
- c. If the strength of the ceiling is not strong enough, a beam made of angle iron can be used and then fix the unit on it.

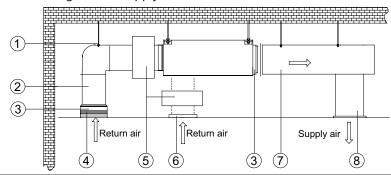
d. If the indoor unit is not installed in the air conditioning area, please use sponge around the unit to prevent condensing. The thickness of the sponge depends on the actual installation environment.

5) Horizontality Check of the Indoor Unit

After the installation of the indoor unit, its horizontality must be checked to make sure the unit keep horizontal fore and aft and keep an inclination of 5° toward the drain pipe right and left.

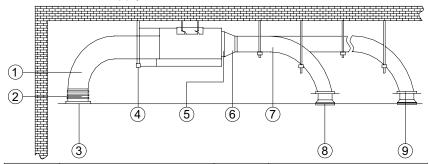


- 5) Installation of the Air Supply Duct
- a. Installation of the Rectangular Air Supply Duct



No.	Name	No.	Name
1	Hanger	5	Plenum Box
2	Return Air Duct	6	Filter Screen
3	Canvas Duct	7	Main Air Supply Duct
4	Return Air Inlet	8	Air Supply Outlet

b. Installation of the Round Air Supply Duct



No.	Name	No.	Name
1	Return Air Duct	6	Transition Duct
2	Canvas Duct	7	Air Supply Duct
3	Return Air Louver	8	Diffuser
4	Hanger	9	Diffuser Joint
5	Air Supply Outlet		

Installation Steps of the Round Air Supply Duct

- 1) Preinstall the outlet of the round duct on the transition duct and then fix it by the self-tapping screw.
- 2) Place the transition duct to the air outlet of the unit and fix it with rivet.

3) Connect the outlet to the duct and then tighten them with tape. Other installation details are not covered herein.

ACAUTION:

- a. The maximum length of the duct means the maximum length of the air supply duct plus the maximum length of the return air duct.
- b. For the unit with the auxiliary electric heating function, if the round duct is to be adopted, then the straight length of the transition duct can not be less than 200mm.
- c. The duct is either rectangular or round and connected with the air inlet/outlet of the indoor unit. Among all air supply outlets, at least one should be kept open. As for the round duct, it needs a transition duct of which the size should match with the air supply outlet of the unit. After the fitting of the transition duct, it is the turn of the round duct, which is better to be kept 10 meters far away from the corresponding diffuser. The standard accessories supplied by GREE is the transition duct 200mm long and round air outlet ϕ 200, however, those of other specifications can be purchased.

7.3.2 Installation of Cassette Type

1) Before Installation

Check if there is any damage to the indoor unit, and the wireless controller and other part and components are prepared completely.

2) Installation Site

Select install location of the indoor unit

- a. Obstruct should put away from the intake or outlet vent of the indoor unit so that the airflow can be blown though all the room.
- b. Make sure that the installation had accord with the requirement of the schematic diagram of installation spaces.
- c. Select the place where can stand 4 times of the weight of the indoor unit and would not increase the operating noise and oscillate.
 - d. The horizontally of the installation place should be guaranteed.
 - e. Select the place where easy drain condensated coagulated water, and easy connect with outdoor unit.
- f. Make sure that there are enough space for care and maintenance. Make sure that the weight between the indoor unit and ground is above 1800mm.
- g. When installing the steeve bolt, check if the install place can stand the weight 4 times of the unit's. If not, reinforce before installation. (Refer to the install cardboard and find where should be reinforced)

$\hat{m{\Lambda}}$ Note!

There will be lots of lampblack and dust stick on the acentric, heat exchanger and water pump in dining room and kitchen, which would reduce the capacity of heat exchanger, lead water leakage and abnormal operation of the water pump.

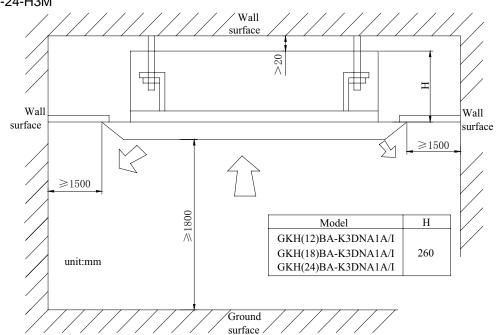
The following treatment should be taken under this circumstance:

- a. Ensure that the smoke trap above cooker has enough capacity to obviate lampblack to prevent the indraft of the lampblack by the air conditioner.
- b. Keep the air conditioner far from the kitchen so that the lampblack would not be indraft by the air conditioner.

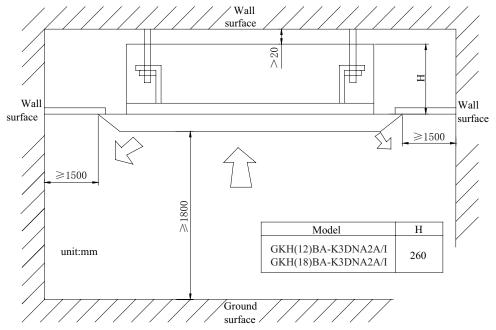
★ Important notice:

- ◆ To guarantee the good performance, the unit must be installed by professional personnel according with this instruction.
- ♦ Please contact the local Gree special nominated repair department before installation. Any malfunction caused by the unit that is installed by the department that is not special nominated by GREE would not deal with on time by the inconvenience of the business contact.

Installation Clearance Data MUCSR-24-H3M

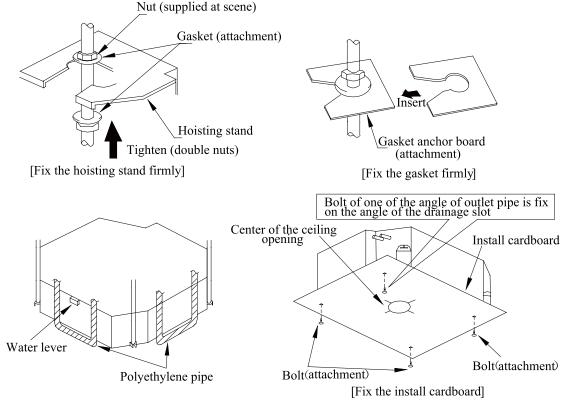


MUCSR-12-H3M MUCSR-18-H3M



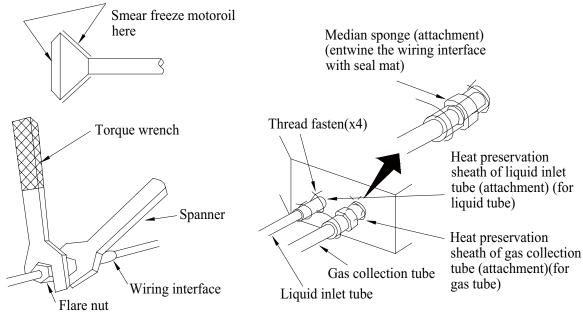
★ Main body of hoisting air conditioner

- a. The primary step for install the indoor unit.
- ◆ When attach the hoisting stand on hoisting screw, do use nut and gasket individually at the upper and lower of the hoisting stand to fix it. The use of gasket anchor board can prevent gasket break off.
 - b. Use install cardboard
 - Please refer to the install cardboard about the dimension of ceiling opening.
 - ◆ The central mark of the ceiling opening is marked on the install cardboard.
- ♦ Install the install cardboard on the unit by bolt (3 piece), and fix the angle of the drainage pipe at the outlet vent by bolt.
 - c. Adjust the unit to the suitable install place.
 - d. Check if the unit is horizontal.
- ♦ Inner drainage pump and bobber switch are included in the indoor unit, check if 4 angle of every unit are horizontal by water lever. (If the unit is slant toward the opposite of the coagulate water flow, there may be malfunction of the bobber switch and lead water drop.)
 - e. Backout the gasket anchor board used to prevent gasket break off and tighten the nut on it.
 - f. Backout the install cardboard.



$\hat{m{\Lambda}}$ Note!

- Please do tighten the nuts and bolts to prevent air conditioner break off.
- ★ Connection of the refrigerant pipe
- ◆ When connect the pipe to the unit or backout it from the unit, please do use both spanner and torque wrench.
- ◆ When connect, smear both inside and outside of the flare nut with freeze motor oil, screw it by hand and then tighten it with spanner.
- ◆ Refer to form 1 to check if the wrench had been tightened (too tight would mangle the nut and lead leakage).
 - Examine the connection pipe to see if it had gas leakage, then take the treatment of heat insulation.
- ◆ Only use median sponge to entwine the wiring interface of the gas pipe and heat preservation sheath of the gas collection tube.

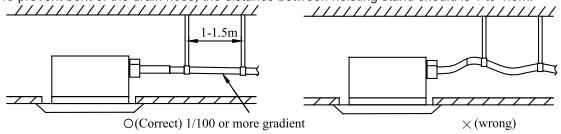


Form 1: The tightening torque needed for tightening nut

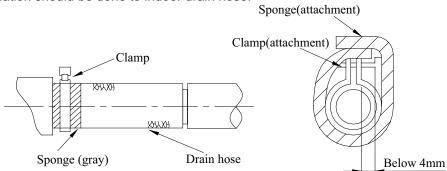
Diameter(Inch)	Surface thickness(mm)	Tightening torque (N·m)
φ1/4"	≥ 0.5	15-30 (N·m)
φ3/8"	≥ 0.71 30-40 (N·m)	
φ1/2"	≥ 1	45-50 (N·m)
φ5/8"	≥ 1	60-65 (N·m)
φ3/4"	≥ 1	70-75 (N·m)

★ Drainage hose

- a. Install the drain hose
- ◆ The diameter of the drain hose should be equal or bigger than the connection pipe's. (The diameter of polythene pipe: Outer diameter 25mm Surface thickness ≥ 1.5mm)
- ◆ Drain hose should be short and drooping gradient should at less 1/100 to prevent the formation of air bubble.
 - ◆ If drain hose cannot has enough drooping gradient, drain raising pipe should be added.
 - ◆ To prevent bent of the drain hose, the distance between hoisting stand should is 1 to 1.5m.

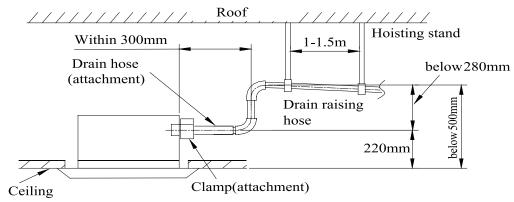


- ◆ Use the drain hose and clamp attached. Insert the drain hose to the drain vent, and then tighten the clamp.
 - Entwine the big sponge on the clamp of drain hose to insulate heat.
 - ◆ Heat insulation should be done to indoor drain hose.



Drain stepup pipe note

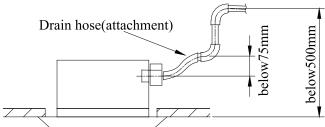
- ◆ The install height of the drain raising pipe should less than 280mm.
- ◆ The drain raising pipe should form a right angle with the unit, and distance to unit should not beyond 300mm.



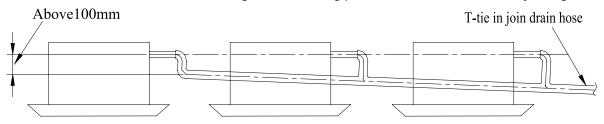
Instruction

◆ The slant gradient of the attached drain hose should be within 75mm so that the drain hole doesn't has

to endure the unnecessary outside force.

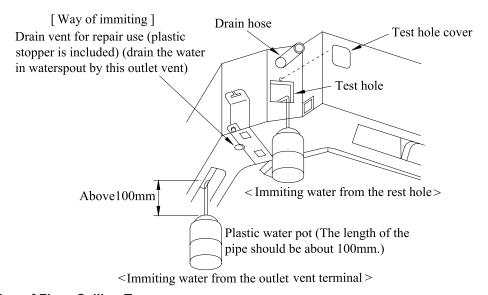


◆ Please install the drain hose according to the following process if several drain hoses join together.



The specs of the selected join drain hose should fits the running capacity of the unit.

- b. Check the smoothness of drain after installation.
- ◆ Check the drain state by immitting 600cc water slowly from the outlet vent or test hole.
- Check the drain in the state of refrigerating after installation of the electric circuit.



7.3.3 Installation of Floor Ceiling Type

1) Before Installation

Check if there is any damage to the indoor unit, and the wireless controller and other part and components are prepared completely.

2) Installation Site

Selection of Installation Location for Air Conditioner Unit

The installation of air conditioner unit must be in accordance with national and local safety codes.

Installation quality will directly affect the normal use of air conditioner unit. The user is prohibited from installation by himself. Please contact your dealer after buying this machine. Professional installation workers will provide installation and test services according to installation manual.

Do not connect to power until all installation work is completed.

Selection of Installation Location

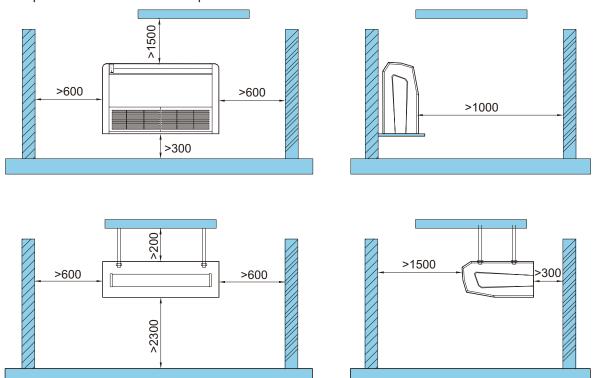
◆ Such a place where cool air can be distributed throughout the room.

- Such a place where is condensation water is easily drained out.
- Such a place that can handle the weight of indoor unit.
- Such a place, which has easy access for maintenance.
- ◆ Such a place where is permitting easy connection with the outdoor unit.
- ◆ Such a place where is 1m or more away from other electric appliances such as television, audio device,

etc.

- ◆ Avoid a location where there is heat source, high humidity or inflammable gas.
- Do not use the unit in the immediate surroundings of a laundry, a bath, a shower or a swimming pool.
- ◆ Be sure that the installation conforms to the installation dimension diagram.
- 3) Installation Clearance Data
- a. Space dimension for installation of the unit

The space around the unit is adequate for ventilation.

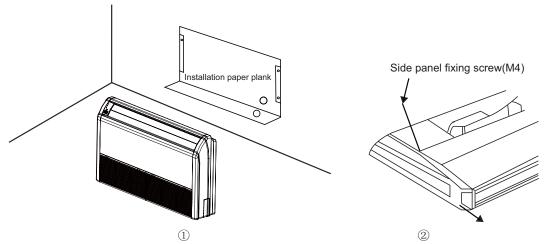


- b. Important Notice
- ◆ The unit must be installed by the professional personnel according to this install instruction to ensure the well use.

Please contact the local Gree special nominated repair department before installation. Any malfunction caused by the unit that is installed by the department that is not special nominated by Gree would not deal with on time by the inconvenience of the business contact.

- ♦ It should be done by professional personnel when the air conditioner unit is moved to other place.
- c. There are 2 styles of installation
- * Ceiling type
- * Floor type
- (1) Each type is similar to the other as follows:

Determine the mounting position on ceiling or wall by using paper pattern to indicate indoor frame. Mark the pattern and pull out the paper pattern. (Refer to 1)



- (2) Remove the return grill, the side panel and the hanger bracket from the indoor unit as per procedure bellow.
- ◆ Press the fixing knob of the air intake grills, the grilles will be opened wider and then pull them out from the indoor.
- ♦ Remove the side panel fixing screw and pull to the front direction (arrow direction) to remove. Side panel fixing screw (Refer to ②).
- ◆ Loosen two hanger bracket setting bolts (M8) on eath side for less than 10mm. Remove two hanger bracket fixing bolts (M6) on the rear side. Detach the hanger bracker by pulling it backward (Refer to ④).
 - (3) Set the suspension bolt. (Use W3/8 or M10 size suspension bolts)
 - Adjust the distance from the unit to the ceiling slab beforehand (Refer to ③)
 - (4) Fix the hanger bracket to the suspension bolt.

AWarning!

- ◆ Make sure that extended suspension bolt from the ceiling stays inside the arrowed position. Readjust the hanger bracket when it is outside the arrowed position. (Refer to ⑤)
 - ♦ Suspension bolt stays inside the cap of indoor unit. Never remove the cap.
 - (5) Lift the unit and slide forward unit the dent. (Refer to 6)
 - (6) Screw tightly both hanger bracket-setting bolts (M8). (Refer to 4)
- (7) Screw tightly both hanger bracket-fixing bolts (M6) to prevent the movement of the indoor unit. (Refer to 4)
 - (8) Adjust the height so that rear side of the drainpipe slightly inclines to improve drainage.

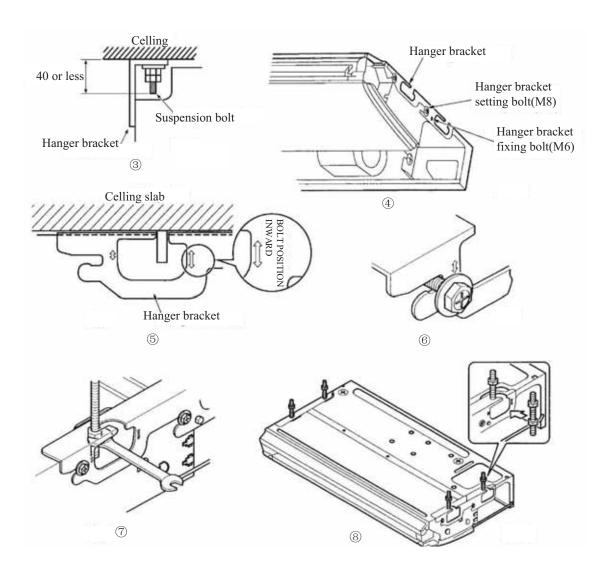
⚠Caution!

- ◆ Adjust the height by turning the nut with a spanner.
- ◆ Insert the spanner from the hanger bracket opening. (Refer to ⑦)

In case of hanging

It is possible to install using inward facing hanger brackets by not removing the brackets from the indoor unit. (Refer to \otimes)

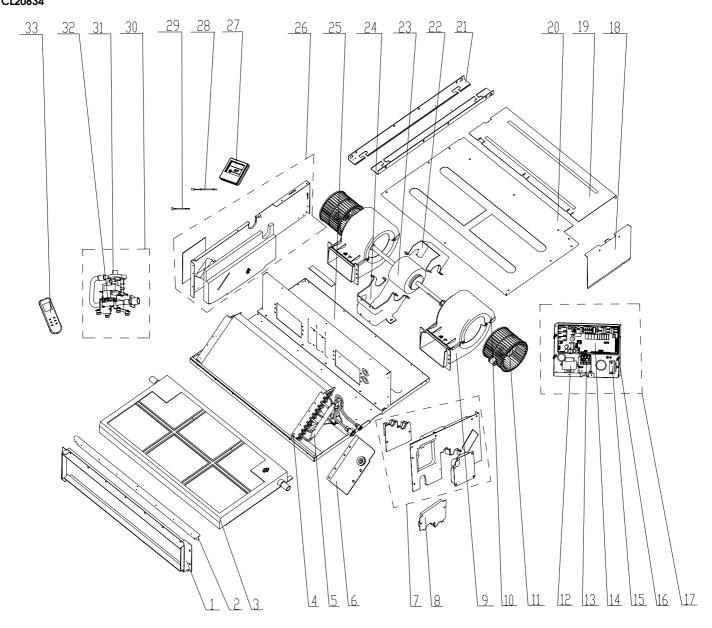
Be sure to use only the specified accessories and parts for installation work.



8 Exploded Views and Parts List

Duct Type

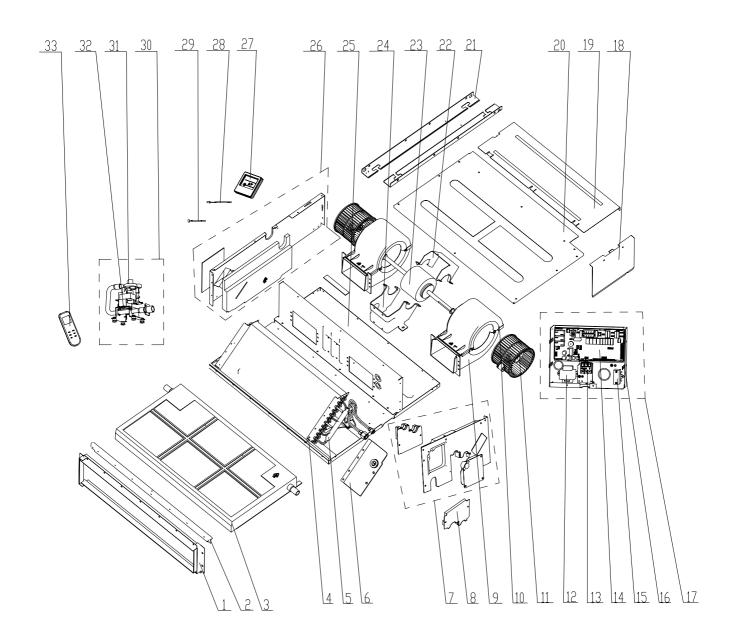
MUCR-09-H3M CL20834



MUCR-09-H3M CL20834

Ν°	Description	Qty.	Supplier code	Code
1	Air outlet frame assy	1	01865216	
2	Cover of Air Outlet	1	01265298	
3	Water Tray Assy	1	01285332	
4	Top Cover Assy	1	01265325	
5	Evaporator Assy	1	01024266	
6	Seal of Evaporator Assy	1	01495317	
7	Left Side Plate Assy	1	01315334	
8	Seal of Letout Pipe Assy	1	01495316	
9	Front volute casing	2	26905205	
10	Rear volute casing	2	26905206	
11	Centrifugal Fan (Ventilador centrífugo)	2	10425200	CL98331
12	Transformer 48X26G	1	43110233	
13	Terminal Board	1	420111041	
14	Main Board (Placa electrónica)	1	30226338	CL96162
15	Capacitor	1	33010020	
16	Electric Box Sub-Assy	1	01395100	
17	Electric Box Assy	1	01395980	
18	Electric Box Cover	1	01424253	
19	Cover Of Fan Motor	1	01265300	
20	Bottom Cover	1	01265299	
21	Supporter	2	01895225	
22	Bar Clasp sub-assy	1	70815201	
23	Fan Motor (Motor ventilador)	1	1570520102	CL96163
24	Supporter	1	01805288	
25	Fan Mounting Plate Assy	1	01325312	
26	Right Side Plate Assy	1	01315335	
27	Display Board (Placa display)	1	30296317	CL96106
28	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96156
29	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	39000206	CL96164
30	Water Pump Assy	1	15405241	
31	Water Level Switch (Interruptor de nivel)	1	45010201	CL96946
32	Water Pump (Bomba de condensados)	1	43130324	CL98412
33	Remote Controller (Control remoto)	1	305100492	CL98052
	Connecting Cable	1	40020523	
	Choke Plug of Drain Pipe	2	76815214	
	Drain Hose Assy	1	05232703	
	Jumper	1	4202300123	

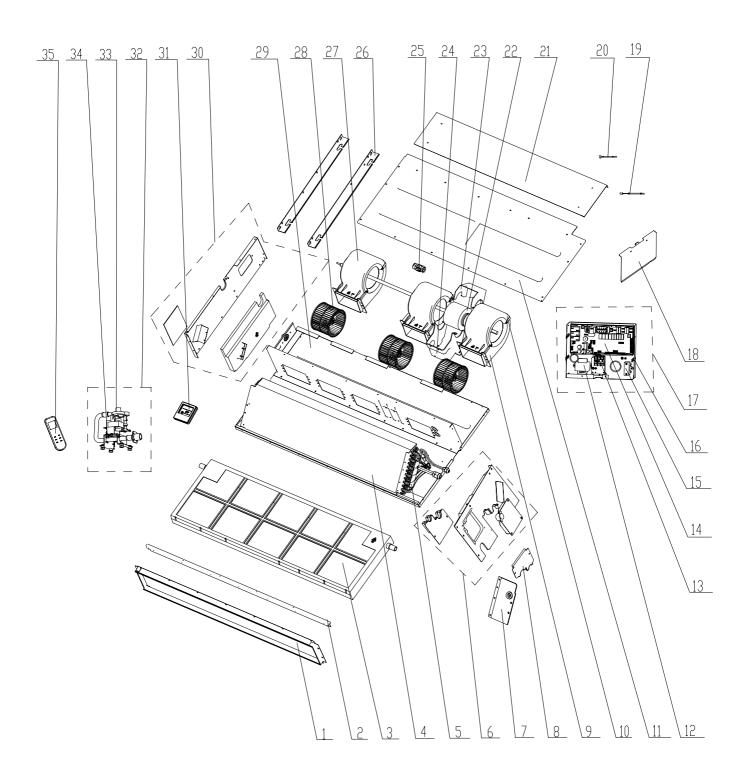
MUCR-12-H3M CL20835



MUCR-12-H3M CL20835

Nº	Description	Qty.	Supplier code	Code
1	Air outlet frame assy	1	01865216	
2	Cover of Air Outlet	1	01265298	
3	Water Tray Assy	1	01285332	
4	Top Cover Assy	1	01265325	
5	Evaporator Assy	1	01024267	
6	Seal of Evaporator Assy	1	01495317	
7	Left Side Plate Assy	1	01315334	
8	Seal of Letout Pipe Assy	1	01495316	
9	Front volute casing	2	26905205	
10	Rear volute casing	2	26905206	
11	Centrifugal Fan (Ventilador centrífugo)	2	10425200	CL98331
12	Transformer 48X26G	1	43110233	
13	Terminal Board	1	420111041	
14	Main Board (Placa electrónica)	1	30226338	CL96162
15	Capacitor CBB611A(3uF/450V)	1	33010027	
16	Electric Box Sub-Assy	1	01395100	
17	Electric Box Assy	1	01395983	
18	Electric Box Cover	1	01424253	
19	Cover Of Fan Motor	1	01265300	
20	Bottom Cover	1	01265299	
21	Supporter	2	01895225	
22	Bar Clasp sub-assy	1	70815201	
23	Fan Motor (Motor ventilador)	1	1570520104	CL96165
	Supporter	1	01805288	
25	Fan Mounting Plate Assy	1	0132531201	
26	Right Side Plate Assy	1	01315335	
	Display Board	1	30296317	CL96106
28	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96156
	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	39000206	CL96164
	Water Pump Assy	1	15405241	
31	Water Level Switch (Interruptor de nivel)	1	45010201	CL96946
	Water Pump (Bomba de condensados)	1	43130324	CL98412
33	Remote Controller (Control remoto)	1	305100492	CL98052
	Choke Plug of Drain Pipe	2	76815214	
	Drain Hose Assy	1	05232703	
	Jumper	1	4202300124	
	Connecting Cable	1	40020523	

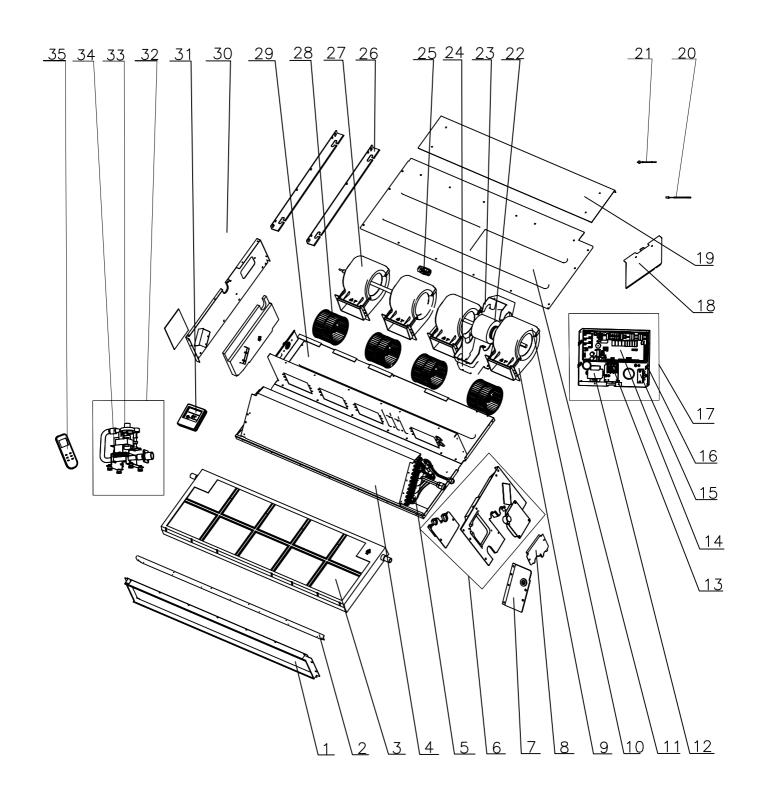
MUCR-18-H3M CL20836



MUCR-18-H3M CL20836

Nº	Description	Qty	Supplier code	Code
1	Air outlet frame assy	1	01865217	
2	Cover of air outlet	1	01265331	
3	Water Tray Assy	1	01285333	
4	Evaporator Assy	1	01024268	
5	Top Cover Board Assy	1	01265328	
6	Left Side Plate Assy	1	01315334	
7	Seal of Evaporator Assy	1	01495317	
8	Seal of Letout Pipe Assy	1	01495316	
9	Front volute casing	3	26905205	
10	Rear volute casing	3	26905206	
11	Bottom Cover Plate	1	01265332	
12	Transformer 48X26G	1	43110233	
13	Terminal Board	1	420111041	
14	Main Board (Placa electrónica)	1	30226338	CL96162
15	Capacitor CBB611A(3uF/450V)	1	33010027	
16	Electric Box Sub-Assy	1	01395100	
17	Electric Box Assy	1	01395984	
18	Electric Box Cover	1	01424253	
19	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96156
20	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	39000206	CL96164
21	Cover Plate of the Fan	1	01265333	
22	Fan Motor (Motor ventilador)	1	15705218	CL96166
23	Bar Clasp sub-assy	1	70815201	
	Supporter	1	01805288	
25	Joint Slack	1	73018731	
	Supporter	2	01895225	
	Rotary Axis Sub-Assy	1	73018020	
28	Centrifugal Fan (Ventilador centrífugo)	3	10425200	CL98331
29	Fan Mounting Plate Assy	1	01325314	
30	Right Side Plate Assy	1	01305263	
	Display Board (Placa display)	1	30296317	CL96106
	Water Pump Assy	1	15405241	
	Water Level Switch (Interruptor de nivel)	1	45010201	CL96946
	Water Pump (Bomba de condensados)	1	43130324	CL98412
35	Remote Controller (Control remoto)	1	305100492	CL98052
	Connecting Cable	1	400205232	
	Jumper	1	4202300125	
	Drain Hose Assy	1	05232703	
	Choke Plug of Drain Pipe	2	76815214	

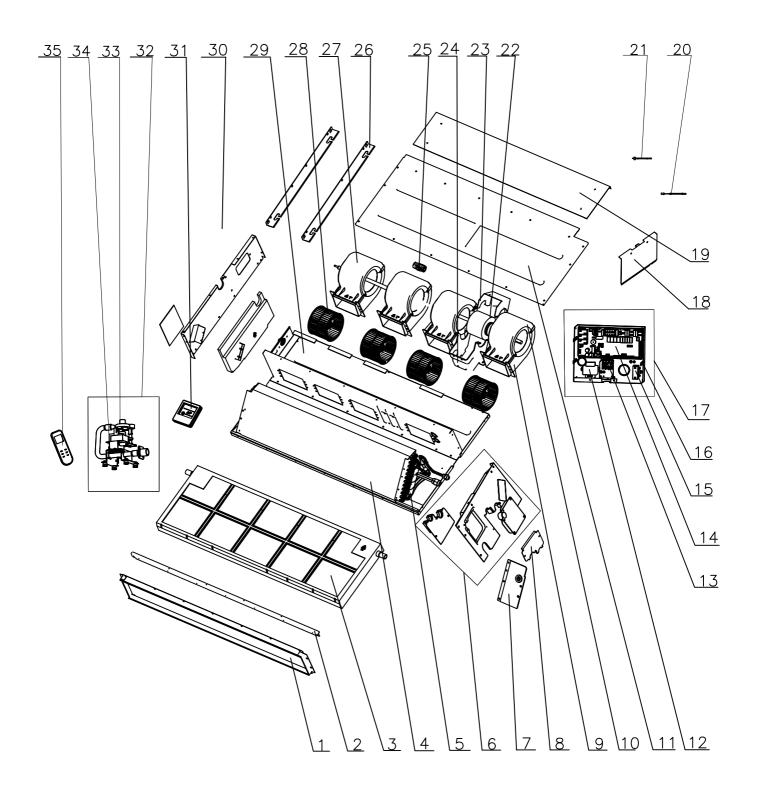
MUCR-21-H3M CL20837



MUCR-21-H3M CL20837

Nº	Description	Qty.	Supplier code	Code
1	Air Outlet Sub-Assy	1	01375224	
2	Cover Of Air-Out	1	01265335	
3	Water Tray Assy	1	01285334	
4	Evaporator Assy	1	01024269	
5	Top Cover Assy	1	01265339	
6	Left Side Plate Assy	1	01315334	
7	Seal of Evaporator Assy	1	01495317	
8	Seal of Letout Pipe Assy	1	01495316	
9	Front volute casing	4	26905205	
10	Rear volute casing	4	26905206	
11	Bottom Cover	1	01265337	
12	Transformer 48X26G	1	43110233	
13	Terminal Board	1	420111041	
14	Main Board (Placa electrónica)	1	30226338	CL96162
15	Capacitor CBB611A(3uF/450V)	1	33010027	
	Electric Box Sub-Assy	1	01395100	
17	Electric Box Assy	1	01395985	
18	Electric Box Cover	1	01424253	
19	Cover Of Fan Motor	1	01265338	
20	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96156
21	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	39000206	CL96164
22	Fan Motor (Motor ventilador)	1	1570411102	CL96167
23	Bar Clasp sub-assy	1	70815201	
	Supporter	1	01805288	
25	Joint Slack	1	73018731	
26	Supporter	2	01895225	
27	Rotary Axis Sub-Assy	1	73018022	
28	Centrifugal Fan (Ventilador centrífugo)	4	10425200	CL98331
29	Fan Mounting Plate Assy	1	01325316	
30	Right Side Plate Assy	1	01305263	
31	Display Board (Placa display)	1	30296317	CL96106
32	Water Pump Assy	1	15405241	
33	Water Level Switch (Interruptor de nivel)	1	45010201	CL96946
34	Water Pump (Bomba de condensados)	1	43130324	CL98412
35	Remote Controller (Control remoto)	1	305100492	CL98052
	Filter Sub-assy	1	07210028	
	Connecting Cable	1	400205232	
	Filter	1	07212001	

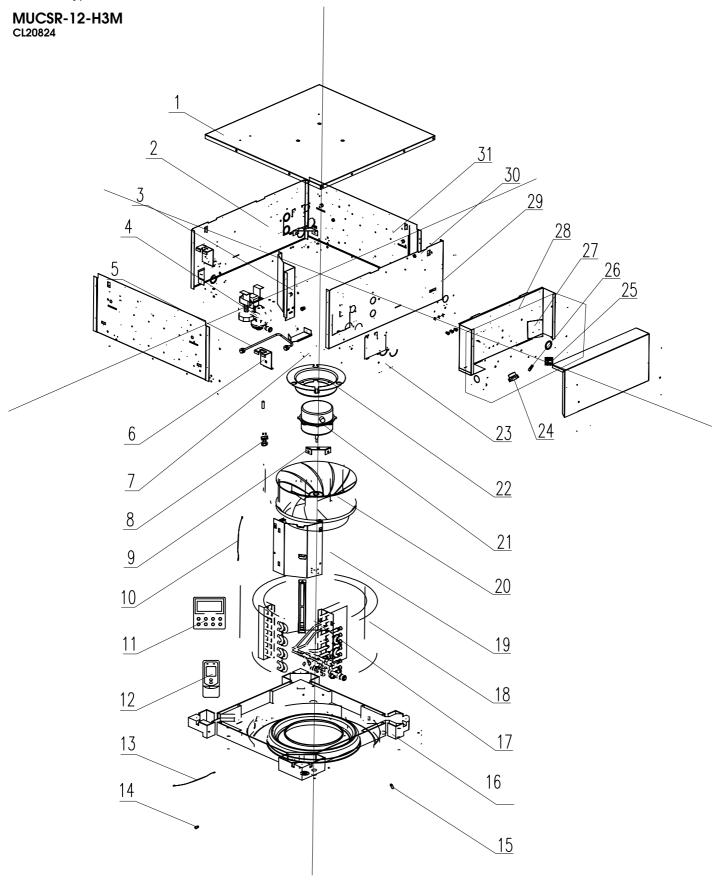
MUCR-24-H3M CL20838



MUCR-24-H3M CL20838

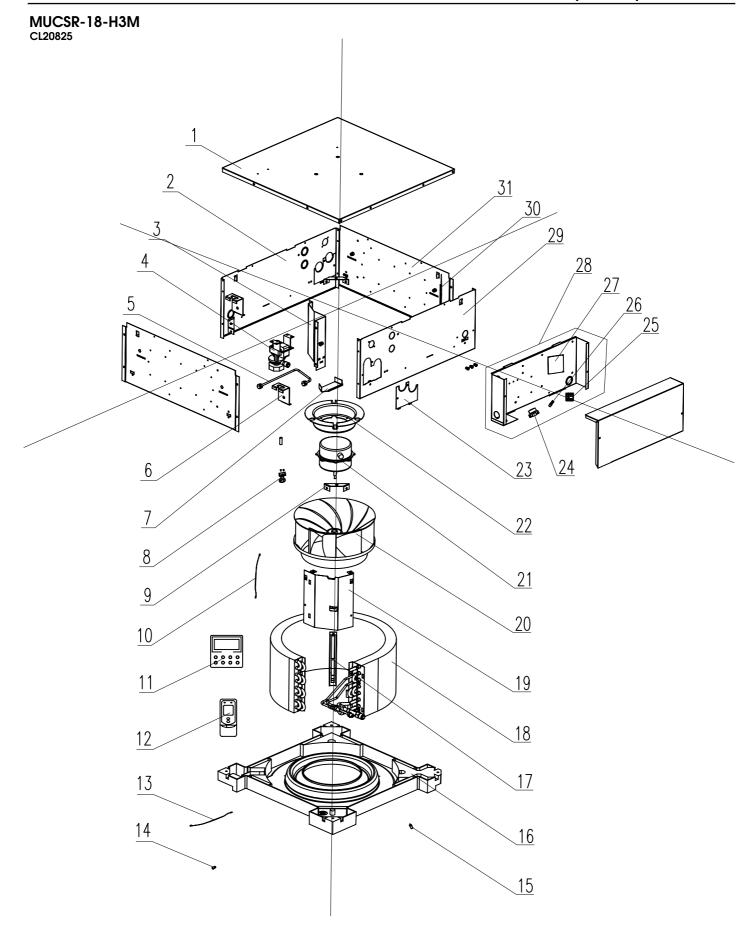
Nº	Description	Qty	Supplier code	Code
1	Air Outlet Sub-Assy	1	01375224	
2	Cover Of Air-Out	1	01265335	
3	Water Tray Assy	1	01285334	
4	Evaporator Assy	1	01024269	
5	Top Cover Assy	1	01265339	
6	Left Side Plate Assy	1	01315334	
7	Seal of Evaporator Assy	1	01495317	
8	Seal of Letout Pipe Assy	1	01495316	
9	Front volute casing	4	26905205	
10	Rear volute casing	4	26905206	
11	Bottom Cover	1	01265337	
12	Transformer 48X26G	1	43110233	
13	Terminal Board	1	420111041	
14	Main Board (Placa electrónica)	1	30226338	CL96162
15	Capacitor CBB611A(3uF/450V)	1	33010027	
16	Electric Box Sub-Assy	1	01395100	
17	Electric Box Assy	1	01395985	
18	Electric Box Cover	1	01424253	
19	Cover Of Fan Motor	1	01265338	
20	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	39000206	CL96164
21	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96156
22	Fan Motor (Motor ventilador)	1	1570411102	CL96167
23	Bar Clasp sub-assy	1	70815201	
	Supporter	1	01805288	
25	Joint Slack	1	73018731	
26	Supporter	2	01895225	
	Rotary Axis Sub-Assy	1	73018022	
28	Centrifugal Fan (Ventilador centrífugo)	4	10425200	CL98331
29	Fan Mounting Plate Assy	1	01325316	
30	Right Side Plate Assy	1	01305263	
31	Display Board (Placa display)	1	30296317	CL96106
	Water Pump Assy	1	15405241	
	Water Level Switch (Interruptor de nivel)	1	45010201	CL96946
	Water Pump (Bomba de condensados)	1	43130324	CL98412
35	Remote Controller (Control remoto)	1	305100492	CL98052
	Filter Sub-assy	1	07210028	
	Filter	1	07212001	
	Connecting Cable	1	400205232	

Cassette type



MUCSR-12-H3M CL20824

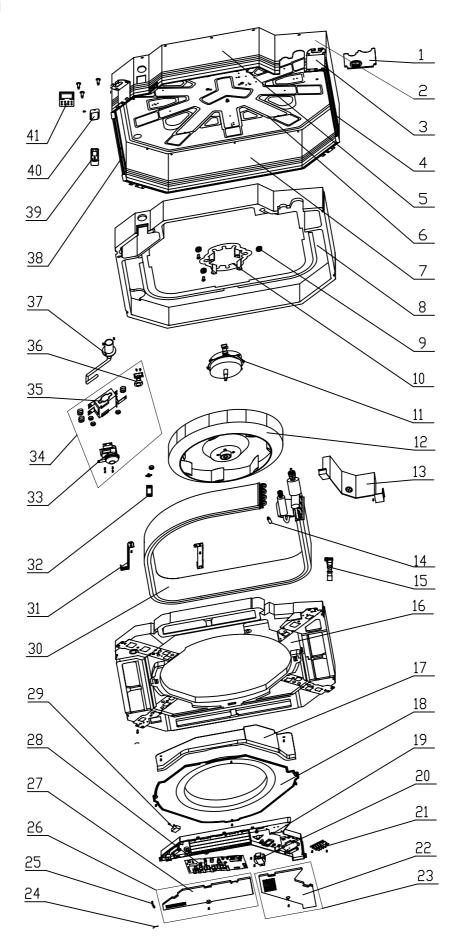
Nº	Description	Qty.	Supplier code	Code
1	Seat Board Sub-Assy	1	01222712	
2	Front Side Plate	1	01314211	
3	Right baffle Assy	1	01362704	
4	Water Pump (Bomba de condensados)	1	43130320	CL96951
	Pump Drainpipe	1	05232722	
6	Major Mounting Rack	4	01332705	
7	Pump Support Assy	1	01332708	
8	Water Level Switch (Interruptor de nivel)	1	450127011	CL98390
	Water Tray Support	4	01332706	
	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96680
	Display Board	1	30296317	
	Remote Controller (Control remoto)	1	305100492	CL98052
13	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	3900019813	CL96681
	Filter Sub-Assy	1	11120012	
15	Filter Sub-Assy	1	11120011	
16	Water Tray Assy	1	20182704	
17	Evaporator Support	1	01072714	
	Evaporator Assy	1	01024307	
19	Evaporator Connection Board	1	01072713	
	Centrifugal Fan (Ventilador centrífugo)	1	10312702	CL96420
21	Fan Motor (Motor ventilador)	1	15704114	CL96158
	Motor Support	1	01702702	
23	Tube Exit Plate Assy	1	01382719	
	Transformer	1	43110226	
	Terminal Board	1	420111041	
	Capacitor CBB61	1	33010026	
	Main Board (Placa electrónica)	1	30226354	CL96159
28	Electric Box Assy	1	01399534	
29	Front Side Plate	1	01302741	
	Pass WirePlate	1	01362701	
31	Right Side Plate Sub-Assy	2	01302743	
	Fix Gasket of Fan	1	76712709	
	Motor Gasket	3	76712705	
	Signal Wire	1	40030079	
	Pump Gasket 2	1	76712708	
	Pump Gasket 1	1	76712707	



MUCSR-18-H3M CL20825

Nº	Description	Qty.	Supplier code	Code
1	Seat Board Sub-Assy	1	01222712	
2	Front Side Plate	1	01314211	
	Right baffle Assy	1	01362704	
4	Water Pump (Bomba de condensados)	1	43130320	CL96951
	Pump Drainpipe	1	05232722	
6	Major Mounting Rack	4	01332705	
	Pump Support Assy	1	01332708	
8	Water Level Switch (Interruptor de nivel)	1	450127011	CL98390
	Water Tray Support	4	01332706	
	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96680
11	Display Board	1	30296317	
	Remote Controller (Control remoto)	1	305100492	CL98052
13	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	3900019813	CL96681
	Filter Sub-Assy	1	11120011	
15	Filter Sub-assy	1	11128633	
16	Water Tray Assy	1	20182704	
17	Evaporator Support	1	01072714	
	Evaporator Assy	1	0102430701	
	Evaporator Connection Board	1	01072713	
	Centrifugal Fan (Ventilador centrífugo)	1	10312702	CL96420
21	Fan Motor (Motor ventilador)	1	15704114	CL96158
	Motor Support	1	01702702	
23	Tube Exit Plate Assy	1	01382719	
24	Transformer	1	43110226	
	Terminal Board	1	420111041	
	Capacitor CBB61	1	33010026	
27	Main Board (Placa electrónica)	1	30226354	CL96159
28	Electric Box Assy	1	01399534	
29	Front Side Plate	1	01302741	
	Pass WirePlate	1	01362701	
31	Right Side Plate Sub-Assy	2	01302743	
	Fix Gasket of Fan	1	76712709	
	Motor Gasket	3	76712705	
	Signal Wire	1	40030079	
	Pump Gasket 2	1	76712708	
	Pump Gasket 1	1	76712707	

MUCSR-24-H3M CL20826

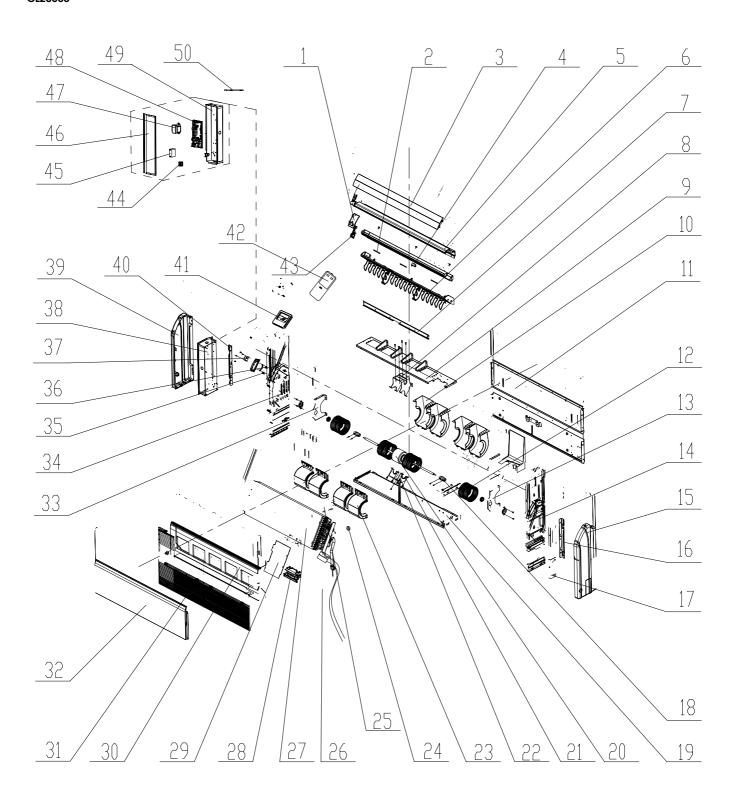


MUCSR-24-H3M CL20826

Nº	Description	Qty.	Supplier code	Code
1	Tube Exit Plate Assy	1	01382715	
2	Shell Assy	1	01432704	
3	Major Mounting Plate	4	01332701	
4	Front Side Plate	1	01302718	
5	Left Side Plate Assy	1	01302715	
6	Base Plate	1	01222705	
7	Rear Side Plate	1	01302714	
8	Bottom Foam Assy	1	52012722	
9	Motor Gasket	4	76712711	
10	Motor Mounting Rack	1	01702701	
11	Fan Motor (Motor ventilador)	1	15704102	CL96160
	Centrifugal Fan (Ventilador centrífugo)	1	10312705	CL98324
	Connection Sheet Assy	1	01074042	
14	Filter Sub-assy	1	07210028	
15	Drain Hose Assy	1	05232702	
16	Water Tray Assy	1	20182701	
17	Electric Box Base Plate	1	01412721	
18	Flow Guide Loop	1	10372701	
19	GKH(24)BA-K3DNA1A	1	01399520	
20	Transformer 48X26G	1	43110233	
21	Terminal Board	1	42011222	
22	Electric Box Cover	1	20102702	
	Electric Box Cover Sub-Assy1	1	20122054	
24	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	390000453	CL98666
25	Temperature Sensor (Sensor de temperatura de tubería)	1	390001982G	CL96680
26	Electric Box Cover Sub-Assy2	1	20122055	
	Electric Box Cover	1	20102703	
	Main Board (Placa electrónica)	1	30226340	CL96161
	Capacitor CBB611A(3uF/450V)	1	33010027	
	Evaporator Assy	1	01004641	
	Evaporator of Fixed Mount	2	01072703	
	Magnetic Ring	1	49010104	
	Water Pump (Bomba de condensados)	1	43130324	CL98412
	Water Pump Assy	1	01332752	
	Water Pump Mounting Rack	1	01332702	
	Water Level Switch (Interruptor de nivel)	1	45010201	CL96946
	Drain Pipe for Water Pump	1	05230026	
	Right Side Plate	1	01302716	
	Remote Controller (Control remoto)	1	305100492	CL98052
	Pump Backup Cover Plate Assy	1	01252713	
41	Display Board	1	30296317	

Floor ceiling type

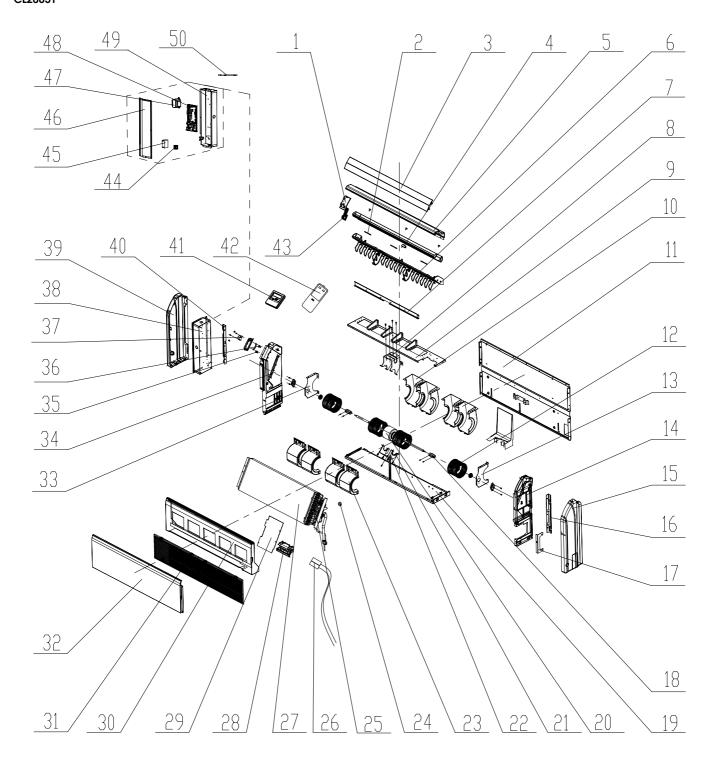
MUSTR-09-H3M CL20830



MUSTR-09-H3M CL20830

Nº	Description	Qty.	Supplier code	Code
1	Fixed Mount	1	26909426R	
2	Louver Clamp	2	26112127	
	Guide Louver	2	10619403	
	Rotating Shaft	4	26909430	
	Front Connection Board	1	01349414P	
	Base Frame	1	26909448	
7	Induced air plate subassembly	1	02229418	
	Supporter Supporter	1	01805288	
	Mid Clapboard Sub-assy	1	01249427	
	Front Volute Casing	4	26905205	
	Rear Side Plate Assy	1	01319445	
	Centrifugal Fan (Ventilador centrifugo)	4	10425200	CL98331
	Supporter	1	01809417	CL90331
		1		
	Right Side Plate Sub-Assy		01319429	
	Right Cover Plate	1	26909444	
	Installation Supporting Frame	1	01809402	
	Connection Board	1	02229406	
	Joint Slack	2	73018731	
	Rear Connection board	1	01349416	
	Fan Motor (Motor ventilador)	1	1570940901	CL96188
	Bar Clasp	1	70818405	
	Bar Clasp sub-assy	1	70815201	
23	Rear Volute Casing	4	26905206	
24	Cable Cross Loop	1	76513101	
	Filter	1	07216221	
26	Temperature Sensor	1	3900019822	
	Evaporator Assy	1	01029482	
	Plate Board of Water Releasing Flume	1	26909442	
	Connection Board	1	01344115	
	Water Tray Assy	1	01289404	
	Front Grill sub-assy	2	01579403	
	Top Cover Board Sub-assy	1	01269409	
	Supporter	1	01809418	
	Left Side Plate Sub-Assy	1	0131942801	
	Rotating Shaft	1	26909412	
	Rotating Shaft	1	26909413	
		+ : 1	1521240206	CL98338
	Stepping Motor (Motor lamas)	1		CL90330
	Electric Box Assy	1	01399517	
	Left Cover Plate	1	26909443	
	Installation Supporting Frame	1	01809401	
	Display Board	1	30296317	
	Remote Controller	1	305100491	
	Display Board	1	30294220	
	Terminal Board	1	420111041	
	Capacitor CBB61	1	33010089	
	Electric Box Cover	1	01429420	
47	Transformer	1	4311023701	
48	Main Board (Placa electrónica)	1	30226350	CL96685
49	Electric Box	1	01429419	
	Temperature Sensor	1	390001978G	

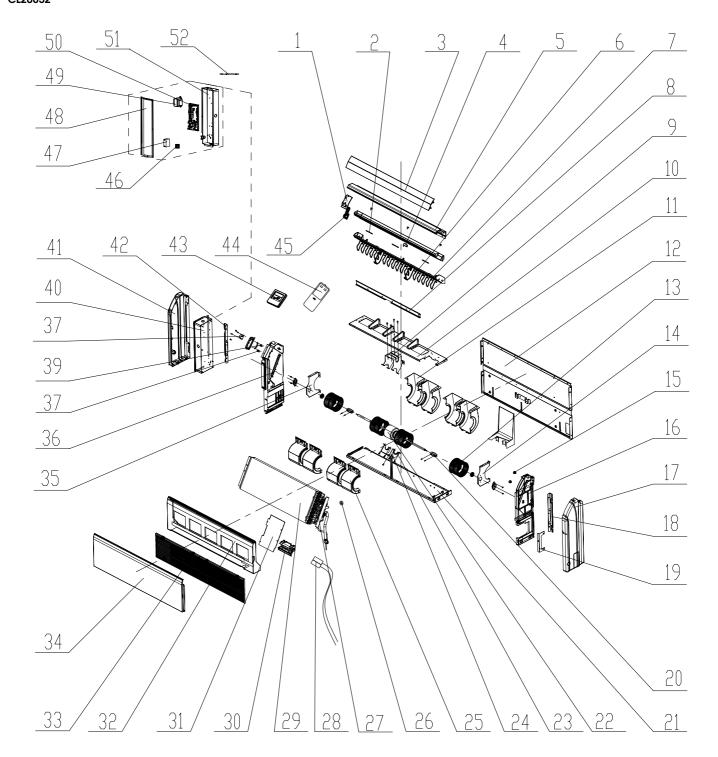
MUSTR-12-H3M CL20831



MUSTR-12-H3M CL20831

Nº	Description	Qty.	Supplier code	Code
1	Fixed Mount	1	26909426R	
2	Swing Louver	2	26112127	
3	Guide Louver	2	10619403	
4	Rotating Shaft	4	26909430	
5	Front Connection Board	1	01349414P	
6	Base Frame	1	26909448	
7	Induced air plate subassembly	1	02229418	
	Supporter	2	26909449	
	Mid-clapboard sub-assy	1	01249416	
	Front volute casing	4	26905205	
	Rear side plate assy	1	01319430	
	Centrifugal fan (Ventilador centrifugo)	4	10425200	CL98331
	Supporter Supporter	1	01809417	0200001
	Right Side Plate Sub-Assy	1	01319429	
	Right Cover Plate	1	26909444	
	Left Pensile Bracket	1	01809401	
	Connection Board	1	01344115	
	Joint Slack	2	73018731	
	Rear Connection board	1	01349416	
	Fan Motor (Motor ventilador)	1	1570940901	CL96188
	Bar Clasp	1	70818405	OL30100
	Bar Clasp sub-assy	1	70815201	
	Rear volute casing	4	26905206	
	Cable-Cross Loop	4	76510021	
	Filter	1	07216221	01.0000.4
	Temperature Sensor (Sensor de temperatura de tubería)	1	3900020723	CL96684
	Evaporator Assy	1	01029475	
	Fixed Plate	1	26909442	
	Connection Board	1	02229406	
	Water Tray Assy	1	01289404	
	Front Grill sub-assy	2	01579403	
	Top Cover Board Sub-assy	1	01269409	
	Supporter	1	01809418	
	Left Side Plate Sub-Assy	1	0131942801	
	Rotating Shaft	1	26909412	
36	Rotating Shaft	1	26909413	
37	Step Motor (Motor lamas)	1	1521240206	CL98338
	Electric Box Assy	1	01399517	
	Left Cover Plate	1	26909443	
	Right Pensile Bracket	1	01809402	
	Display Board (Placa display)	1	30296317	CL96106
	Remote Controller (Control remoto)	1	305100492	CL98052
43	Display Board	1	30294220	
44	Terminal Board	1	42010178	
45	Capacitor CBB611A 1uF/450V	1	33010089	
	Electric Box Cover	1	01429420	
47	Transformer	1	4311023701	
	Main Board (Placa electrónica)	1	30226350	CL96685
	Electric Box	1	01429419	
	Ambient Temperature Sensor (Sensor de temp. ambiente)	1	39000191	CL98376
	Axile Bush	2	10542704	
	Connecting Rod	1	26909411	
	Drainage Pipe Sub-assy	1	05235434	
	Air Louver	16	10619404	
	Supporter	1	01805288	
	ουργοιτει		01000288	

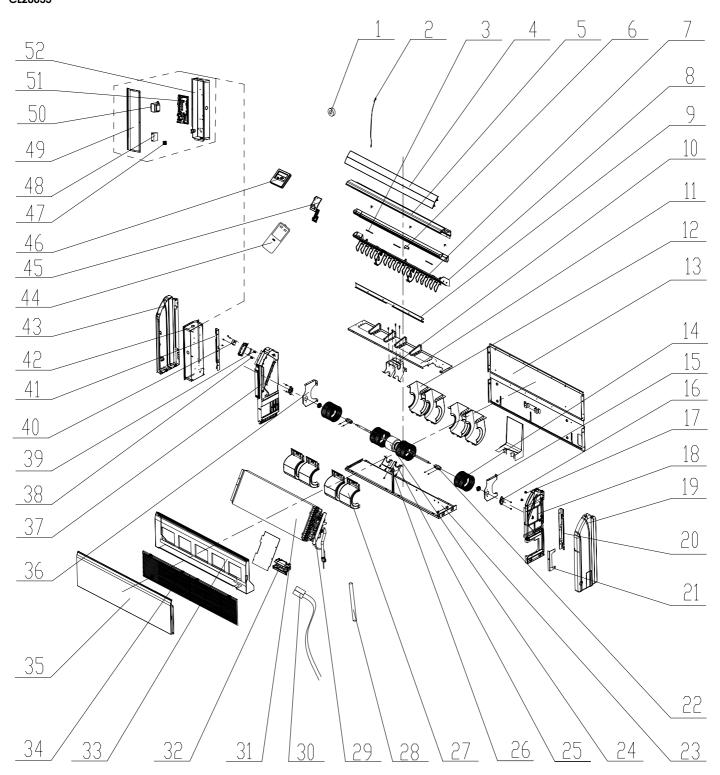
MUSTR-18-H3M CL20832



MUSTR-18-H3M CL20832

Νº	Description	Qty.	Supplier code	Code
1	Fixed Mount	1	26909426R	
2	Swing Louver	2	26112127	
3	Guide Louver	2	10619403	
	Rotating Shaft	4	26909430	
	Front Connection Board	1	01349414P	
	Air Louver	16	10619404	
7	Base Frame	1	26909448	
	Induced air plate subassembly	1	02229418	
	Supporter	2	26909449	
	Mid-clapboard sub-assy	1	01249416	
	Front volute casing	4	26905205	
	Rear side plate assy	1	01319430	
	Centrifugal fan (Ventilador centrifugo)	4	10425200	CL98331
	Supporter	1	01809417	OL90331
	Axile Bush	2	10542704	
		1		
	Right Side Plate Sub-Assy Right Cover Plate		01319429	
		1	26909444	
	Left Pensile Bracket	1	01809401	
	Connection Board	1	01344115	
	Joint Slack	2	73018731	
	Rear Connection board	1	01349416	01.00404
	Fan Motor (Motor ventilador)	1	15704111	CL96194
	Bar Clasp	1	70818405	
	Bar Clasp sub-assy	1	70815201	
	Rear volute casing	4	26905206	
	Cable-Cross Loop	4	76510021	
	Filter	1	07216221	
	Temperature Sensor (Sensor de temperatura de tubería)	1	3900020723	CL96684
	Evaporator Assy	1	01029469	
30	Fixed Plate	1	26909442	
31	Connection Board	1	02229406	
32	Water Tray Assy	1	01289404	
33	Front Grill sub-assy	2	01579403	
34	Top Cover Board Sub-assy	1	01269409	
35	Supporter	1	01809418	
36	Left Side Plate Sub-Assy	1	0131942801	
_	Rotating Shaft	1	26909412	
	Rotating Shaft	1	26909413	
	Step Motor (Motor lamas)	1	1521240206	CL98338
	Electric Box Assy	1	01399511	
	Left Cover Plate	1	26909443	
	Right Pensile Bracket	1	01809402	
	Display Board (Placa display)	1	30296317	CL96106
	Remote Controller (Control remoto)	1	305100492	CL98052
	Display Board	1	30294220	020002
	Terminal Board	1	42010178	
	Capacitor CBB61 2.5uF/450V	1	33010026	
	Electric Box Cover	1	01429420	
	Transformer	1	4311023701	
	Main Board (Placa electrónica)	1	30226350	CL96685
	Electric Box	1	01429419	OL30000
	Ambient Temperature Sensor (Sensor de temp. ambiente)	1		CI 00276
IJ∠		_	39000191	CL98376
	Connecting Rod	1	26909411	
	Drainage Pipe Sub-assy	1	05235434	
	Supporter	1	01805288	

MUSTR-24-H3M CL20833



MUSTR-24-H3M CL20833

Nº	Description	Qty.	Supplier code	Code
1	Cable-Cross Loop	4	Supplier code 76510021	Code
	Ambient Temperature Sensor	1	39000191	
	Swing Louver	2	26112127	
4	Guide Louver	2	10619403	
	Front Connection Board	1	01349414P	
		4	26909430	
6	Rotating Shaft Air Louver	16	10619404	
7	Base Frame	_		
8		1	26909448 02229418	
	Induced air plate subassembly	2	26909449	
	Supporter Mid clappaged out again	1		
	Mid-clapboard sub-assy		01249416	
	Front volute casing	4	26905205	
	Rear side plate assy	1	01319430	CI 00224
	Centrifugal fan (Ventilador centrifugo)	4	10425200	CL98331
	Supporter Support Of Mater Regains	1	01809417	
	Support Of Motor Bearing Axile Bush	2	01792408	
		2	10542704	
	Right Side Plate Sub-Assy	1	01319429	
	Right Cover Plate Left Pensile Bracket	1	26909444	
		1	01809401	
	Connection Board	1	02229406	
	Joint Slack	2	73018731	
	Rear Connection board	1	01349416	01.004.05
	Fan Motor (Motor ventilador)	1	15709409	CL96195
	Bar Clasp	1	70818405	
	Bar Clasp sub-assy	1	70815201	
	Rear volute casing	4	26905206	
	Drainage Pipe Sub-assy	1	05235434	
	Filter	1	07212001	01.0000.4
	Temperature Sensor (Sensor de temperatura de tubería)	1	3900020723	CL96684
	Evaporator Assy	1	01029474	
	Fixed Plate	1	26909442	
	Water Tray Assy	1	01289404	
	Front Grill sub-assy	2	01579403	
	Top Cover Board Sub-assy	1	01269409	
	Supporter	1	01809418	
	Left Side Plate Sub-Assy	1	0131942801	
	Rotating Shaft	1	26909412	
	Rotating Shaft	1	26909413	01.00000
	Step Motor (Motor lamas)	1	1521240206	CL98338
	Right Pensile Bracket	1	01809402	
	Electric Box Assy	1	01399518	
	Left Cover Plate	1	26909443	01.000==
	Remote Controller (Control remoto)	1	305100492	CL98052
	Display Board	1	30294220	01.05.155
	Display Board (Placa display)	1	30296317	CL96106
	Terminal Board	1	42010178	
	Capacitor CBB611A(3uF/450V)	1	33010027	
	Electric Box Cover	1	01429420	
	Transformer	1	4311023701	
	Main Board (Placa electrónica)	1	30226350	CL96685
52	Electric Box	1	01429419	
	Connecting Rod	1	26909411	
	Supporter	1	01805288	

9 Troubleshooting

9.1 Trouble Table

- **MARNING!**a. In the event of abnormal conditions (like, stinky smell), please shut off the main power supply immediately and then contact the appointed service center; otherwise the continuous abnormal running would damage the air conditioning unit and also would cause electric shock or fire hazard etc.
- b. Do not repair the air conditioning personally but instead contact the professionally skilled personnel at the GREE appointed service center, as the incorrect repair would cause electric shock or fire hazard etc.

1) Please check the following items before contact the maintenance serviceman

Conditions	Causes	Corrective Actions
	Broken fuse or opened breaker	Change the fuse or close the breaker
	Power off	Restart the unit when power on
The unit does not run	Loosened power supply plug.	Plug the power supply properly.
	Insufficient batteries voltage of the remote controller	Change new batteries
	Remoter controller out of the control scope	Keep the control distance within 8 meters.
The unit stops soon after it starts	Clogged inlet/outlet of the indoor/outdoor unit	Clear the obstacle
	Clogged inlet/outlet of the indoor/outdoor unit	Clear the obstacle
	Improperly set temperature	Adjust the setting of the remote or wired controller.
	Too low set fan speed	Adjust the setting of the remote or wired controller.
	Incorrect air direction	Adjust the setting of the remote or wired controller.
Cooling/Heating is abnormal	Opened door and window	Close the door and window
10 2021101101	Direct sunlight	Hang a curtain or blinds over the window.
	Too much people in the room	
	Too much heat sources in the room	Reduce the heat sources
	Dirty filter screen	Clean the filter screen

Note:

If the air conditioner still runs abnormally after the above check and handling, please contact the maintenance serviceman at the local appointed service center and also give a description of the error occurred as well as the model of the unit

2) The conditions listed below are not classified into errors

	Conditions	Causes
The unit does	When restart the unit soon after it is stopped.	The overload protection switch of the unit let the startup delayed for three minutes.
not run	As soon as power is on.	The unit will stand by for approximate one minute.
The unit blows out mist	When the cooling operation starts.	The hi-humidity air indoor is cooled quickly.
	The unit "clatters" as soon as it starts running.	It is the sound generated during the initialization of the electronic expansion valve.
	The unit "swishes" during the cooling operation.	It the sound when the refrigerant gas runs inside the unit.
The unit	The unit "swishes" when it is started or stopped.	It is the sound when the refrigerant gas stops running.
generates noise	The unit "swishes" when in it is and after the running.	It is the sound when the draining system is operating.
	The unit "squeaks" when it is in and after the running.	It is the sound of frication generated by the skin plate etc which swells due to the temperature change.
The unit blows out dust.	When the unit restarts after it is not used for a long time.	The dust inside the unit is blown out again.
The unit emits odors.	When the unit is running.	The odors absorbed in are blown out again.

3) Error description

If some error occurs when the unit is running, the error code will be displayed on the wired controller and the main board of the outdoor unit. See the table before for more details about the meaning of each error.

				aotano abt	Jac 1110 1111			O1.
	Error & Status	Display List		. I ED Elsski		Indoor Unit	Wired	Indoor
Errors of Residential Air Conditioners	Errors of Commercial Air Conditioners	Outdoor Unit 88 Display	Running LED	Cooling LED	Heating LED	(Floor/ Ceiling) 88 Display	Controler Display	and/or Outdoor Unit Erro
	Defrosting Mode 1	08	/	/	/	/	1	Outdoor
	Defrosting Mode 2	0A	/	/	/	/	/	Outdoor
	Whole Unit Running	ON	1	/	1	1	1	Outdoor
Short/open circuit of the liquid valve temperature sensor	Normally (Liquid Valve) Inlet Tube Temp Sensor Error	See Table 2	/	Flash 19 times	1	b5	B5	Outdoor
Short/open circuit of the gas valve temperature sensor	(Air Valve) Outlet Tube Temp Sensor Error	See Table 2	/	Flash 22 times	/	b7	В7	Outdoor
Refrigerant insufficiency or blockage protection (available for the residential outdoor unit)	1	F0	1	Flash 10 times	1	F0	F0	Outdoor
Short/open circuit of the indoor ambient temperature sensor	Indoor Ambient Temp. Sensor Short/ Open-Circuit	See Table 2	1	Flash once	1	F1	F1	Indoor
Short/open circuit of the indoor evaporator	Indoor Evaporator Temp Sensor Short/ Open-Circuit	See Table 2	1	Flash twice	1	F2	F2	Indoor
Short/open circuit of the of the outdoor ambient temperature sensor	Outdoor Ambient Temp Sensor Error	F3	1	Flash 3 times	1	F3	F3	Outdoor
Short/open circuit of the temperature sensor at the midway of the condenser coil (for the commercial unit)	Outdoor Mid-Coil Temp Sensor Error	F4	1	Flash 4 times	I	F4	F4	Outdoor
Short/open circuit of the outdoor discharge temperature sensor	Outdoor Discharge Air Temp Sensor Error	F5	1	Flash 5 times	/	F5	F5	Outdoor
Oil returning in cooling	Oil Return for Cooling	F7	/	/	/	/	/	Outdoor
System high pressure protection	High Pressure Protection	E1	Flash once	1	1	E1	E1	Outdoor
Anti-freezing protection	Shutdown for Whole Unit Anti- Freeze Protection	E2	Flash twice	/	/	E2	E2	Indoor
System low pressure protection (reserved)	Low Pressure Protection	E3	Flash 3 times	/	1	E3	E3	Outdoor
Compressor discharge high temperature protection	High Discharge Temp Protection	E4	Flash 4 times	/	/	E4	E4	Outdoor
Communication error between the indoor and outdoor units	Communication Error	See Table 2	Flash 6 times	/	1	E6	E6	Outdoor & Indoor
Mode conflict	Mode Conflict	See Table 2	Flash 7 times	/	/	E7	E7	Indoor
Overload protection	Overload Protection	E8	Flash 8 times	1	1	E8	E8	Outdoor
Anti cold blow protection	/	F.	1	1	1	/	/	Indoor
	Indoor Unit Water Full Error	- E9	1	Flashing	Flashing	E9	E9	Indoor
Trial run/trial operation	Trial Run	dd	Quick Flashing	Quick Flashing	Quick Flashing	dd	dd	Outdoor
Refrigerant recovery mode	Refrigerant Recovery Mode	Fo	Quick Flashing	Quick Flashing	/	Fo	Fo	Outdoor
Drive module resetting(for the commercial unit)	IPM Reset	P0	Flash 3 times	Flash 3 times	Flash 3 times	P0	P0	Outdoor

Phase over-current	Compressor Current	P5	/	/	Flash 15	P5	P5	Outdoor
Drive board communication error(for the commercial unit)	Protection Communication Error between the Inverter Drive and	P6	Flash 16 times	/	times	P6	P6	Outdoor
Short/open circuit of the of the module temperature sensor	the Main Controller Radiator Temp Sensor Error	P7	1	1	Flash 18 times	P7	P7	Outdoor
Module temperature protection	Radiator Overheat Protection	P8	/	/	Flash 19 times	P8	P8	Outdoor
AC contact protection (for the commercial unit)	AC Contactor Protection	P9	Flash 3 times	Flash 3 times	Flash 3 times	P9	P9	Outdoor
Circuit sensor error	Current Sensor Error	Pc	Flash 3 times	Flash 3 times	Flash 3 times	Pc	Pc	Outdoor
Transducer connection protection (for the commercial unit)	Sensor Connection Protection	Pd	Flash 3 times	Flash 3 times	Flash 3 times	Pd	Pd	Outdoor
AC current protection(input side)	AC Current Protection (Input Side)	PA	Flash 3 times	Flash 3 times	Flash 3 times	PA	PA	Outdoor
Temperature drift protection (for the commercial unit)	Temp Drift Protection	PE	Flash 3 times	Flash 3 times	Flash 3 times	PE	PE	Outdoor
Drive board ambient temperature sensor error (for the commercial unit)	Drive Board Ambient Temp Sensor Error	PF	Flash 3 times	Flash 3 times	Flash 3 times	PF	PF	Outdoor
DC link high voltage protection	Low Voltage Protection	PL	Flash 3 times	Flash 3 times	Flash 3 times	PL	PL	Outdoor
DC link low voltage protection	Over Voltage Protection	PH	Flash 3 times	Flash 3 times	Flash 3 times	PH	PH	Outdoor
1	AC Input Voltage Anomaly	PP	Flash 3 times	Flash 3 times	Flash 3 times	PP	PP	Outdoor
Capacitor charging error	Charging Circuit Error	PU	1	1	Flash 17 times	PU	PU	Outdoor
Defrosting or oil returning in heating	Oil Return for Heating or Defrosting	H1	/	/	Flash once	H1	*:	Outdoor
/	Forced Defrosting	H1	Quick Flashing	1	/	H1	H1	Outdoor
Compressor thermal overload protection.	Compressor Overheat Protection	Н3	/	1	Flash 3 times	НЗ	НЗ	Outdoor
Modulecurrent protection(namely IPM protection)	IPM Protection	H5	1	/	Flash 5 times	H5	H5	Outdoor
Compressor desynchronizing	Motor Desynchronizing	H7	1	1	Flash 7 times	H7	H7	Outdoor
PFC Protection	PFC Error	Нс	/	1	Flash 6 times	Нс	Hc	Outdoor
Too high power protection (available for the residential outdoor unit)	1	L9	Flash 20 times	1	1	L9	L9	Outdoor
Compressor startup failure	Startup Failure	Lc	1	/	Flash 11 times	Lc	Lc	Outdoor
Compressor phase failure/ reverse protection	Phase Loss	Ld	Flash 3 times	Flash 3 times	Flash 3 times	Ld	Ld	Outdoor
Compressor rotation failure(for the commercial unit)	Compressor Stalling	LE	Flash 3 times	Flash 3 times	Flash 3 times	LE	LE	Outdoor
Over speed (for the commercial unit)	Over-Speed	LF	Flash 3 times	Flash 3 times	Flash 3 times	LF	LF	Outdoor
Short/open circuit of the temperature sensor at the inlet of the condenser coil (for the commercial unit)	1	A5	Flash 3 times	Flash 3 times	Flash 3 times	οE	A5	Outdoor

Short/open circuit of the temperature sensor at the outlet of the condenser coil (for the commercial unit)	/	A7	Flash 3 times	Flash 3 times	Flash 3 times	οE	A7	Outdoor
Memory card error	1	EE	1	/	/	/	/	Outdoor
Frequency limitation/ degradation for module circuit protection (for phase circuit)	/	En	Flash 3 times	Flash 3 times	Flash 3 times	En	En	Outdoor
Frequency limitation/ degradation for module temperature protection	1	EU	/	Flash 6 times	Flash 6 times	EU	EU	Outdoor
Frequency limitation/ degradation for overload	1	F6	/	Flash 6 times	/	F6	F6	Outdoor
Frequency limitation / degradation for circuit protection of the whole unit	/	F8	1	Flash 8 times	/	F8	F8	Outdoor
Frequency limitation/ degradation for module circuit protection (for phase circuit)	/	F9	/	Flash 9 times	1	F9	F9	Outdoor
Frequency limitation/ degradation for anti- freezing protection	/	FH	/	Flash twice	Flash twice	FH	FH	Outdoor
Compressor demagnetizing protection	1	HE	/	/	Flash 14 times	HE	HE	Outdoor
Indoor and outdoor units unmatched	/	LP	Flash 19 times	1	1	LP	LP	Outdoor & Indoor
Compressor phase circuit detection error	/	U1	/	/	Flash 12 times	U1	U1	Outdoor
DC link voltage drop error	1	U3	1	1	Flash 20 times	1	1	Outdoor
Communication Line Misconnected or Expansion Valve Error	Communication Line Misconnected or Expansion Valve Error	dn	Flash 3 times	Flash 3 times	Flash 3 times	dn	dn	Outdoor

The words in gray means the corresponding function is unavailable. Table 2

Code	Error	Code	Error
11	Unit A Communication Error	35	Indoor Unit C Ambient Temp Sensor Error
12	Indoor Unit A Mid-Tube Temp Sensor Error	36	Unit C Mode Conflict
13	Indoor Unit A Outlet Tube Temp Sensor Error	37	Unit C Freeze Protection
14	Indoor Unit A Inlet Tube Temp Sensor Error	41	Unit D Communication Error
15	Indoor Unit A Ambient Temp Sensor Error	42	Indoor Unit D Mid-Tube Temp Sensor Error
16	Unit A Mode Conflict	43	Indoor Unit D Outlet Tube Temp Sensor Error
17	Unit A Freeze Protection	44	Indoor Unit D Inlet Tube Temp Sensor Error
21	Unit B Communication Error	45	Indoor Unit D Ambient Temp Sensor Error
22	Indoor Unit B Mid-Tube Temp Sensor Error	46	Unit D Mode Conflict
23	Indoor Unit B Outlet Tube Temp Sensor Error	47	Unit D Freeze Protection
24	Indoor Unit B Inlet Tube Temp Sensor Error	51	Unit E Communication Error
25	Indoor Unit B Ambient Temp Sensor Error	52	Indoor Unit E Mid-Tube Temp Sensor Error
26	Unit B Mode Conflict	53	Indoor Unit E Outlet Tube Temp Sensor Error
27	Unit B Freeze Protection	54	Indoor Unit E Inlet Tube Temp Sensor Error
32	Indoor Unit C Mid-Tube Temp Sensor Error	55	Indoor Unit E Ambient Temp Sensor Error
33	Indoor Unit C Outlet Tube Temp Sensor Error	56	Unit E Mode Conflict
34	Indoor Unit C Inlet Tube Temp Sensor Error	57	Unit E Freeze Protection

9.2 Flow Chart of Troubleshooting

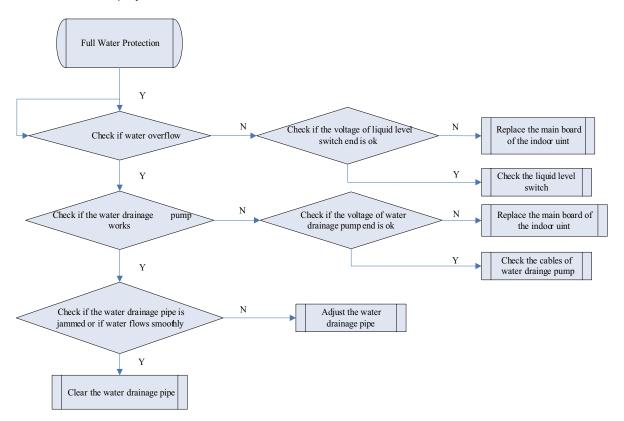
Service personnel shall collect the malfunction information as much as possible and research them thoroughly, list these electrical parts which may cause malfunction, service personnel shall be able to determine the specific reason and solve the faulted parts.

Observe the status of the complete device and do not observe the partial

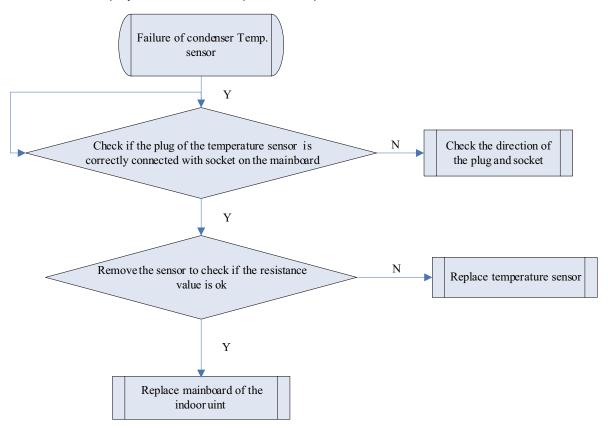
It is advised to start from the simple operation during analyzing ,judging and confirming malfunction reason, then conduct the complicated operations such removal of device, part replacement and refrigerant filling.

Find the malfunction reason carefully as unit may occur several malfunction at the same time and one malfunction may develop into several malfunction, so entire system analysis shall be established to make the judged result exact and credible.

◆ Malfunction display: E9 Full Water Protection



◆ Malfunction display: F2 Failure of Evaporator Temp. Sensor



10 Removal Procedure

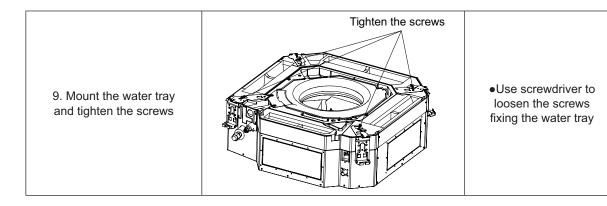
Duct type

Romarke: Drior	Assembly and Disassembly of the Electric Fan to the assembly and disassembly, make sure the power	r supply is out off
Steps	Illustrations	Operation Instructions
1.Pull out the electric wire of the motor.		Cut off the power supply of the indoor unit open the cover plate of the electric box and then pull out the electric wire inside the box.
2.Remove the cover plate for return air.		Loosen the screws used to fixed the cover plate for return air with a screwdriver.
3. Remove the rear volute		Undo the buckle of the rear and front volutes and then remove the rear volute away.
4. Remove the front volute		Loosen the screws use to fix the front volute and then remove it away.
5. Loosen the fan blade and fan motor		Loose the screws used to fix the fan blades and then undo the buckle used to fix the motor.
6.Remove the motor away.		Separate the motor always from the motor frame, remove the fan blade, and lastly take the motor out from the returnair frame. As for the motor
7. Repalce the motor.		 Assemble the fan as the reverse disassembly order and then take a power-on test.

Cassette type

Removal and Assembly of Fan Motor				
Step	Illustration	Handling Instruction		
Loosen the screws fixing the water tray	Loosen the screw	●Use screwdriver to loosen the screws fixing the water tray		
2. Remove the water tray	Remove the water tray	●Remove the water tray		
3. Loosen the bolts fixing the fan	Loosen the screw	 Use spanner to loosen the bolts fixing the fan. 		
4. Remove the fan	Remove the fan	●Remove the fan		

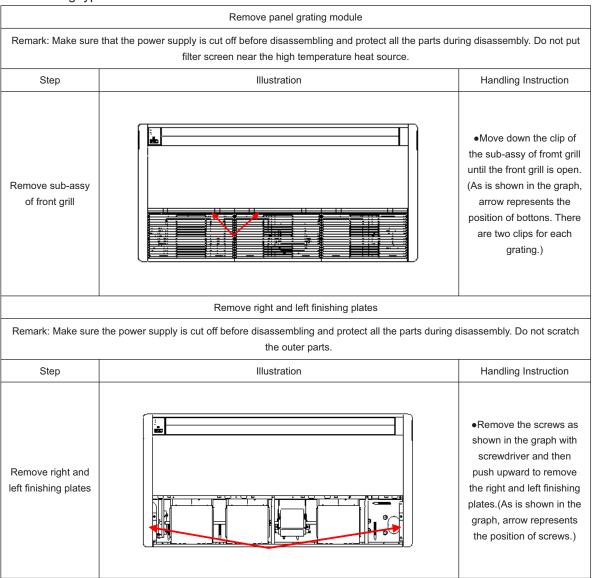
5. Loosen the screws fixing the motor	Loosen the screws fixing the motor	•Use screwdriver to loosen the screws fixing the motor
6. Remove the motor and replace it	Remove the motor	●Remove the motor and replace it
7. Tighten the screws fixing the motor	Tighten the screws fixing the motor	•Use screwdriver to tighten the screws fixing the motor.
8. Mount the fan and tighten the fixing bolts	Fix the screw	 Mount the fan and use spanner to tighten the bolts fixing the fan.

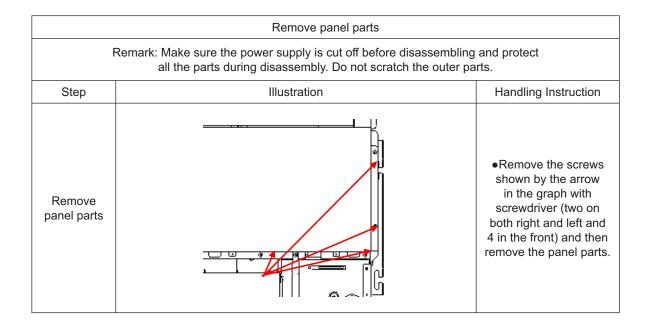


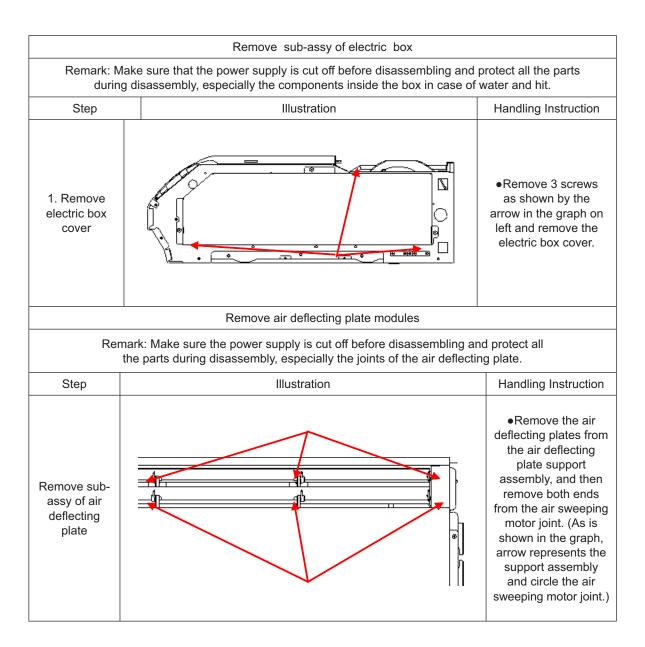
emoval and Installation of Drainage Pump				
Step	Illustration	Handling Instruction		
Loosen the screws fixing the water tray	Loosen the screw	●Use screwdriver to loosen the screws fixing the water tray		
2. Remove the water tray	Remove the water tray	●Remove the water pump and replace it.		
3. Pull out the water outlet pipe and loosen the screws fixing the water pump.	Loosen the drainpipe Loosen the screws fixing the water pump	Pull out the water outlet pipe and use screwdriver to loosen the screws fixing the water pump.		

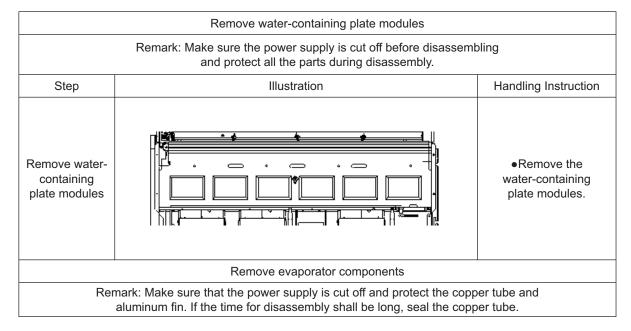
4. Take out the pump and replace it	Remove the water pump	●Take out the pump and replace it
5. Connect the drainage pipe and tighten the screws fixing the water pump.	Tighten the drainpipe Tighten water pump and fix the screw	•Connect the drainage pipe and use screwdriver to tighten the screws fixing the water pump.
6. Mount the water tray and tighten the screws	Tighten the screws	Use screwdriver to loosen the screws fixing the water tray

Floor ceiling type

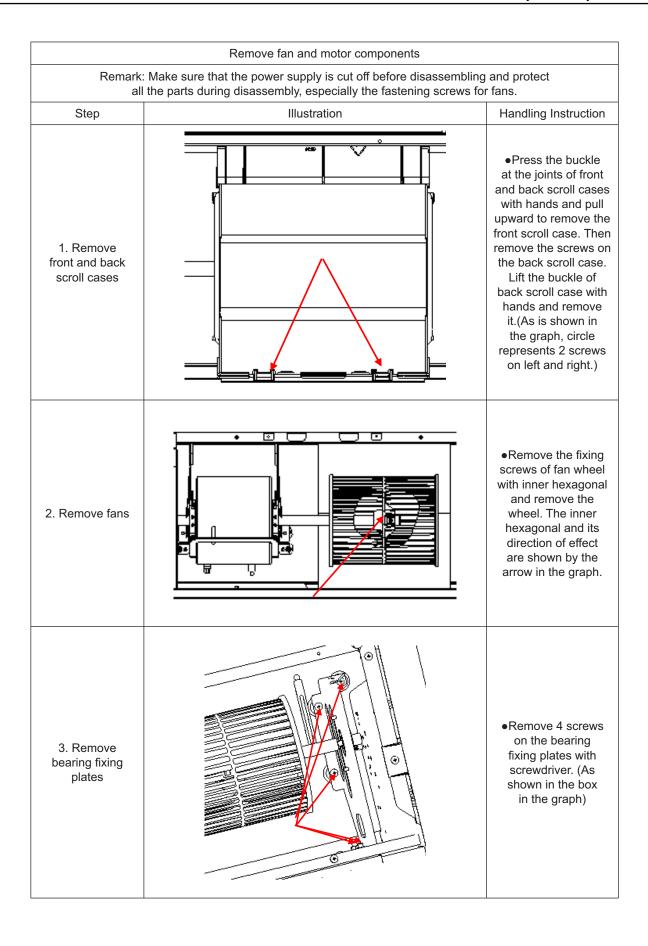








Step	Illustration	Handling Instruction
Remove evaporator components		•Remove the screws as shown by the arrow in the graph with screwdriver. (There are 6 screws on left and right of the evaporator and 5 on evaporator outlet press plate modules)
Remove fixing plate sub-assy for air sweeping fans		
Remark: Make sure that the power supply is cut off before disassembling and protect all the parts during disassembly.		
Remark: Make sure that the power supply is cut off before disassembling and protect all the parts during disassembly.		
Step	Illustration	Handling Instruction
Remove fixing plate sub-assy for air sweeping fans		•Remove the screws shown in the graph with screwdriver.





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