



# WECM/WECS Series Cassette Water Fan Coil Units Technical Manual







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# Introduction

Fan coil unit is a kind of compound device which assemble fan and surface-type coil heating-exchanger together. Fan coil with fresh air supply system is a main type of center air-conditioner system, so it is an important component of AC devices. Fan coil has horizontal type, vertical type, etc. A cooling (heating) supply system usually consists of fan coil terminals and chilled water system (heated water system).

Otec Omega commercial AC fan coil is designed and manufactured on the base of advanced technology, and utilize qualified galvanized iron as material. Due to its supper-thin design, it has such advantages: beautiful outlook, space saving, easy installation, etc. And the most obvious advantage is that it can decrease the outlet air Temp-difference as low as possible to make room more comfortable, as well as don't decrease cooling capacity output. For the large air flow volume design, it can increase room ventilation frequency, supply more flesh air, and balance room temperature distribution. Benefiting from adoption of advanced material and technology, it can effectively decrease the running noise and keep running smoothly. With the advantages above, it can be widely applied in market, hospital, office building, hotel airport, etc.

# Part 1 General Information

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# 1. Model Names of Fan Coil

No	Туре	Model	Power source
1		WECM003C3W-GWTN050	
2	Compact Ceiling	WECM004C3W-GWTN060	
3		WECM005C3W-GWTN080	
4		WECS006C3W-GWTN102	220-240V~,1Ph, 50Hz
5	Ceiling Cassette Type	WECS008C3W-GWTN130	
6		WECS009C3W-GWTN150	
7		WECS010C3W-GWTN170	

#### 2. External Appearance Ceiling Cassette Type



#### 4. Features

- ♦ Chilled water/Hot water (2 pipes)
- ♦ Low height for easy installation
- ♦ Low noise fan direct driven by single phase, 3 speed permanent split capacitor motor.
- ♦ Copper tube/aluminum fin coils
- ♦ Hydrophilic aluminum fin coils coated (optional)
- ♦ Unit constructed by electrostatic galvanized sheet, providing maximum protection against corrosion

# Part 2 Indoor Units

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# **Ceiling Cassette Type**

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#### 1. Features

1) Ultra thin machine body to easy installation and maintenance. 1000~1300m3/h: 230mm; 1500~1700m3/h: 285mm.



2) Drainage pump can take up the condenser water to 1200mm.



3) Stylish design is harmonious with any interior decoration and creates and elegant environment.



3) A full series of controller give you the most suitable solution according to the different requirement from different customers.



5) 3-speed motor provides more choices

## 2. Specification

Model NO.			WECS006C3W-GWTN102	WECS008C3W-GWTN130	WECS009C3W-GWTN150	WECS010C3W-GWTN170
air flow (Hi-speed) CFM m3/h		CFM	588	765	882	1000
		m3/h	1000	1300	1500	1700
• • • • • • W		W	5300	5300 7200		1000
	acity (HI-speed)	Btu	18080	24560	29000	34120
Liesting Cor	(Llieneed)	W	8000	10800	12800	15000
	acity (HI-speed)	Btu	27290	36850	43670	51180
Noise (Hi-sp	beed)	dB(A)	48	48	52	53
Water flow		l/min	18.30	20.7	24.35	25.83
Water press	ure drop	kPa	36	36	38	40
	Number Of Rows		2	2	2	2
	Tube Pitch(A)x Row Pitch	mm	21×13.37	21×12.7	21×12.7	21×12.7
	Fin spacing	mm		1.4	5	
Indoor coil	Fin type		Hydrophilic aluminum			
	Tube Outside Dia.And type	mm	φ7,bar		e tube	
	Coil Dimension (L×H×W)	mm	2000*168*26. 7	2000*168*26. 7	2000*252*27.3	2000*252*27. 3
	Number Of Circuits		8	8	9	12
	type		Low noise 3-spe		eed fan motor	
Ean motor	Number		1	1	1	1
Fairmotor	Input	W	140	150	160	180
	Capacitor	μF	3	3	4	4
	Dimension (W×H×D)	mm	840×230×840	840×230×840	840×285×840	840×285×840
Indoor unit	Packing (W×H×D)	mm	920×265×920	920×265×920	920×310×920	920×310×920
	Net/Gross weight	kg	23/28	23/28	26/31.5	28/33.5
	Dimension (W×H×D)	mm	950×50×950	950×50×950	950×50×950	950×50×950
plane	Packing (W×H×D)	mm	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030
	Net/Gross weight	kg	5.4/8	5.4/8	5.4/8	5.4/8
Control Mode			wired controller(optional),remote controller(standard)			ndard)
	water-inlet pipe	mm	DN20	DN20	DN20	DN20
Pipe	water-return pipe	mm	DN20	DN20	DN20	DN20
	Condensation water-out let pipe	mm	DN25	DN25	DN25	DN25

Remark: 1. All performance data above is based upon 0Pa ambient static pressure.

2. Cooling capacity test condition: air inlet Temp. : 27DB°C/19WB°C, water inlet Temp. 7°C, water Temp. difference 5°C.

3. Heating capacity test condition: Air inlet Temp. 21DB°C, water inlet Temp. 60 DB°C, water Temp. difference 5°C.

# 3. Dimensions



Unit: mm Dimensions(H) Model A В С D Е WECM003(4,5)C3W-GWTN050(60,80) 650 610 580 528 528 WECS006(8,9,10)C3W-GWTN102(130,150,170) 950 890 840 680 780

# 4. Installation Spaces





# Installation dimension unit: mm

Model	Dimensions(H)
WECM003(4,5)C3W-GWTN050(60,80)	260
WECS006(8)C3W-GWTN105(130)	230
WECS009(10)C3W-GWTN150(170)	285

## 5. Wiring Diagram WECS006(8,9,10)C3W-GWTN102(130,150,170)



# 6. Sound Levels

# 7. Exploded View

WECS006(8,9,10)C3W-GWTN102(130,150,170)



No.	Part Name	Quantity
1	E-parts box cover	1
2	Eletric control components for indoor unit	1
2.1	transformer	1
2.2	Fan motor capacitor	1
2.3	Terminal	1
2.4	Terminal	1
2.5	E-parts board for indoor unit	1
2.6	Temperature sensor	1
2.7	Temperature sensor	1

2.8	Welded chasis for E-parts box	1
3	Wind inlet guide assy	1
3.1	Wind inlet guide	1
4	Water pan components	1
4.1	Foam pendant	2
5	Centrifugal fan	1
6	Fan motor for indoor unit(YDK-55T-6-1)	1
7	Auxiliary fixing board for evaporator	2
8	Evaporator components	1
8.1	Insulating pipe	2
8.2	Evaporator attached cotton	1
8.3	Evaporator welding assy	1
8.3.1	Instalation tube for probe	1
8.3.2	Evaporator	1
8.3.3	Water inlet pipe welding assy	1
8.3.4	Drain pipe welding assy	1
8.4	Main fixing board	1
9	Upper foam components	1
10	Pre-assembling assy for water pump	1
10.1	water pump support	1
10.2	Water pump	1
10.3	Liquid-level sensor	1
10.4	Underlay for water pump support	3
11	Hanger	4
12	Rear brattice	1
13	Chassis assy	1
14	Discharge pipe joint	1
15	Side maintenance board for water pump	1
16	Front brattice	1
17	Lower pipe clamp	1
18	Lower pipe clamp( $\varphi$ 35)	1
19	Upper pipe clamp	1
20	Upper pipe clamp(\u03b835)	1
21	Valve panel	1

# 8. Troubleshooting

#### **Problem Analysis**

If the air conditioner is out of work, read the following before contacting the maintenance department and it will save you time and efforts.

Problems	Phenomena	Causes	Solution
		Power failure	Press "ON/OFF" key after comeback of power
	Press "ON/OFF" key on the remote controller, no "beep " sound comes from the indoor unit and the RUN light is off	Power switch is off.	Turn on power supply
Airconditioner		Fuse of power switch may have burned.	Replace the fuse
fails to run		The creepage switch is off	Turn on the creepage switch
		The remote controller is working out of the function range	Operate the remote controller in the function range of the remote controller
		Batteries of remote controller exhausted (Information on the screen darken)	Replace them with new batteries
After starting up, the air conditioner will stop working in a short time	Remote controller indicates that the air conditioner is working	Air inlet or outlet of the indoor unit are blocked	Eliminate all dirties and make air smooth.
		The air filter is dirt	Clean the filter
	mal Remote controller v indicates that the lor air conditioner is working	Temperature is not set correctly, too high in COOL mode or too low in HEAT mode	Set the temperature properly.
Air flow is normal butthe air blew out is notcoolor warm		The air filter net has been blocked with dust or dirt	Clean the ail filter net
		Air inlet or outlet of the indoor unit are blocked	Eliminate all dirties and make air smooth.
		Doors and windows are open	Close doors and windows

NOTE: If the unit stops running due to power failure, it will not restart when the power is resumed. To restart again, press ON/OFF switch of the remote controller.

# **Compact Ceiling Cassette Type**

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#### 1. Features

- 1) Low operation noise
  - ---Streamline plate ensures quietness ---Creates natural and comfortable environment
- The adoption of the most advanced 3- Dimensional Screw fan ---Reduces the air resistance passing through ---Smoothes the air flow
  - ---Makes air speed distribution to the heat exchange uniform
- 3) Improvement for easy installation and maintenance
  - ----Little space is required for installation into a shallow ceiling ----Because of the compactness and weight reduction of the main unit and panel, all models can be installed without a hoist



The sketch of installation (compact type)

- 4) Electrical heater is optional.
- 5) A full series of controller give you the most suitable solution according to the different requirement from different customers.
- 6) Optimized structure makes the air volume and capacity improved rapidly.

## 2. Specification

Model NO.			WECM003C3W-GWTN050	WECM004C3W-GWTN060	WECM005C3W-GWTN080
Air flow (Hi-speed)		CFM	295	350	470
		m3/h	500	600	750
		W	2500	3500	4500
	ity (HI-speed)	Btu	8500	11900	15350
Heating Canao	itu (Hilanaad)	W	3200	4000	5200
	ity (HI-speed)	Btu	11000	13600	17680
Noise (Hi-spee	d)	dB(A)	40	42	44
Water flow		l/min	7.1	10	13
Water pressure	e drop	kPa	25	28	30
	Number Of Rows		1	2	2
	Tube Pitch(A)x Row Pitch(B)	mm	25	21×13.37	21×12.7
	Fin spacing	mm		1.4	
Indoor coil	Fin type		Ну	drophilic aluminur	n
	Tube Outside Dia.And type	mm	φ9.52, bare tube	φ7, bare tube	φ7, bare tube
	Coil Dimension (L×H×W)	mm	1292x200×33	1313×210×33	1313×210×33
	Number Of Circuits		2	5	5
	type		Low noise 3-speed fan motor		
Fon motor	Number		1	1	1
Fan motor	Input	W	55	58	90
	Capacitor	μF	2	1.5	2
	Dimension (W×H×D)	mm	580×260×580	580×260×580	580×260×580
Indoor unit	Packing (W×H×D)	mm	745×375×675	745×375×675	745×375×675
	Net/Gross weight	Kg	16/21.5	17/22.5	17/22.5
	Dimension (W×H×D)	mm	650×30×650	650×30×650	650×30×650
plane	Packing (W×H×D)	mm	710x95x710	710x95x710	710x95x710
	Net/Gross weight	Kg	2.7/4	2.7/4	2.7/4
Control Mode			wired controller(optional),remote controller(star		ntroller(standard)
Pipe	water-inlet pipe	mm	DN20	DN20	DN20
	water-return pipe	mm	DN20	DN20	DN20
	Condensation water-out let pip	mm	DN25	DN25	DN25

Remark: 1. All performance data above is based upon 0Pa ambient static pressure.

2. Cooling capacity test condition: air inlet Temp. : 27DB°C/19WB°C, water inlet Temp. 7°C, water Temp. difference 5°C.

3. Heating capacity test condition: Air inlet Temp. 21DB°C, water inlet Temp. 45 DB°C, water Temp. difference 5°C.

# **3. Dimensions** See in page 7

# **4.Installation Space** See in page 8

## 4. Wiring Diagram

#### WECM003(4,5)C3W-GWTN050(60,80)



# 5. Sound Levels



# 6. Explored View

#### WECM003(4,5)C3W-GWTN050(60,80)

No.	Part Name	Quantity
1	Electrical lifted the lid	1
2	Electronic components	1
2.1	Electric control board seats	1
2.2	Electrical box welded components	1
2.3	The temperature sensor group	1
2.4	Stepper motor line	2
2.5	Indoor motor winding connection	1
2.6	Terminal station	1
2.7	Quad lamp plate connection	1
2.8	Indoor plate component	1
2.9	Insert the fan capacitance	1
3	Guide solar or lunar halo	1
4	Bubble water pans components	1
5	Pump parts	1
5.1	Drainage to take over the component	1
5.2	The water pump	1
5.3	Water pump gasket 2	1
5.4	Water pump gasket 1	1
5.5	Water pump about seat	1
5.6	Water pump brace	1
6	The evaporator components	1
6.1	Welded components evaporator	1
6.2	Inlet pipe assembly	1
6.3	Outlet pipe assembly	1
7	End plate fixed plate component	1
8	Centrifugal wind leaf	1
9	The motor	1
10	The motor bracket	1
11	Chassis bubble component	1
12	Lug 2	3
13	After the coaming components	1
14	Chassis parts	1

14.1	Chassis external thermal insulation cotton	1
14.2	Chassis welded components	1
14.3	Fan wire fixed plate	1
15	Lug 1	1
16	Seat plate 1	1
17	Seat plate 2	1
18	Front panel assembly	1
19	Water level switch	1
20	The evaporator pressure	1

## 7. Troubleshooting

#### **Problem Analysis**

If the air conditioner is out of work, read the following before contacting the maintenance department and it will save you time and efforts.

Problems	Phenomenon	Causes	Treatment
Failure to run		Power failure	After resumption of power, press "ON/OFF" switch
	Press "ON/OFF" switch on the remote controller, no "Hua-" sound is heard, and the RUN indicator is not on.	Now connection of power	Connect power
		Broken fuse	Replace fuse
		Electric leakage is OFF	Connect electric leakage switch
		Remote controller is out of the operation range	Operate the remote controller within the operation range
		Cells of remote controller are out (LCD is dim)	Replace cells
Stops soon after startup	Remote controller indicates that the unit is running	The air inlet or outlet of the indoor or outdoor unit is clogged	Clear away clogging
		The air filter is clogged with dust or soil	Clean filter
The air conditioner is fanning, but not sufficiently cool or warm	Remote controller indicates that the unit is running	Temperature is set too high in cooling Temperature is set too low in heating	Check the temperature set on the remote controller. Re-set the appropriate temperature
		Filter is clogged with dust	Clean filter
		The air inlet or outlet of the indoor or outdoor unit is clogged	Clear away clogging
		Windows and doors are open	Close windows and doors

NOTE: If the unit stops running due to power failure, it will not restart when the power is resumed. To restart again, press ON/OFF switch of the remote controller.

#### **Failure Testing and Indication**

In case of failure, the indicating light will indicate the failure state.

Self-examination information	Codes of self-examination of luminescent tube	Remarks
Preheating indication	1 flahses/3s	Start Display (RUN lamp)
Failure of indoor	2 flashas/4s	Stop display, protective
temperature sensor	2 llasiles/4s	lamp ON, RUN lamp ON.
Failure of pipe	Stop display,, protective	
temperature sensor	5 Hashes/5s	lamp ON, RUN lamp ON.
Water pump failure	4 flashes /6s	Stop display,, protective lamp ON, RUN lamp ON.

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# **The Installation**

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## 1. Before Installation

Please check whether the accessories are of full scope. If there are some fittings free from use, please restore them carefully.



#### 2. 1 Installation space

The indoor unit should be installed in a location that meets the following requirements:

- There is enough room for installation and maintenance.
- The ceiling is horizontal, and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting water pipe and drainpipe could be extracted out easily.
- There is no direct radiation from heaters.

Caution:

Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)



Fig 1

Fig 2





#### Installation dimension unit: mm

Model	Dimensions(H)
WECM003(4,5)C3W-GWTN050(60,80)	260
WECS006(8)C3W-GWTN105(130)	230
WECS009(10)C3W-GWTN150(170)	285

## 2.2Installation procedures for indoor units

The position relationship between the opening in the ceiling, the unit and the lifting screw



					Unit: mm
Model	Dimensions(H)				
	А	В	С	D	E
WECM003(4,5)C3W-GWTN050(60,80)	650	610	580	528	528
WECS006(8,9,10)C3W-GWTN102(130,150,170)	950	890	840	680	780

### 3. Install the Main Body

A. Exiting ceiling (Keep the ceiling level)

- (1) Drill some holes on the ceiling according t the installation paper card (See Fig 2 and Fig4)
- Keep the center of the ceiling opening in line with that of the main unit;
- Ensure the length and outward holes of the connecting pipes, drain pipes and electrical connection;
- Please reinforce the strength of the ceiling to keep the ceiling level and without vibration
- (2) Determine the location of installation hook according to holes of the installation hook on four corners of the installation paper card.
- Aim the concave of the installation hook at the expansion hook when installing. Determine the length of the hook based on the height of ceiling and then cut away the excessive part;

Length of steeve = H-181+L; The balance length L is half of screw thread length of the installation hook)

(3) Please adjust the four hexagon nuts on the installation hook and keep the main unit level

- If the drain pipe is slanted, it may cause error action of the water level switch and then water leakage;
- Adjust the location of the main unit to ensure even distance to the four sides of the ceiling and the bottom of the main unit into the bottom of the ceiling for 10~12mm (see Fig 5)
- After adjusting the location and levelness of the main unit, fasten the nuts on the installation hooks to fix the unit (see Fig 6)



B. For new room and new ceiling

- (1) Carry out installation following the step of A (2) aforesaid. You can buried some hooks in new room, which can bear the weight of the unit and not loose for concrete shrinking;
- (2) After hoisting the main unit, fix the installation paperboard onto the main unit with M6 ×12 bolts (accessories), which will determine the size and position of the ceiling opening (See Fig 7)
- Keep the ceiling level when installing;
- The rest procedure is as the steps of A(1) aforesaid;
- (3) Install as the steps of A(3) aforesaid
- (4) Remove the installation paperboard



Note: After installing the main unit, fix the four bolts M6 ×12 onto the main unit to fasten the unit.

#### 4. Install the Panel

#### Caution:

Never put the panel face down on floor or against the wall, or on bulgy objects.

Never crash or strike it.

A. Remove air inlet grille

(1) Slide or press down the two grille switches together, and then lift them up (See Fig 8);

(2) Lift the air inlet grille to about 45° and then take it down (See Fig 9);



B. Remove installation lid from four corners

Unscrew the bolts and loosen the rope of installation lid and then draw out the lid (See Fig 10)

C. Install the panel

(1) Point the swing motor on the panel straight to the tubing side of the main unit (See Fig 11);

(2) In installation, put the hooks of swing motor and the panel onto the hook of water pan on the main unit (as shown in Fig 12(1)), and then put the rest two hooks of the panel onto the suspending support of the main unit (as shown in Fig 12(2));

NOTE: The summit of the plastic lid of the swing motor should be inserted into the recess of the sealing panel of the outlet pipe;

(3) Insert the lead of the swing motor into the clip position on the panel;

NOTE: Not entangle the lead into the sealed sponge

(4) Adjust the four hook bolts to keep the panel level and evenly lift t to the position close to the ceiling (as shown in Fig 11③)

(5) Slightly adjust the panel following the arrow direction (Fig 11④) to keep the center of the panel in line with that of the ceiling opening. Check whether the hooks on four corners are put up.



Fig 10



(6) Continue to tighten evenly the bolts under the hooks till the thickness of the sponge between the main unit and the panel is reduced to 4~6mm,and the edges of the panel are all contact well with the ceiling (See Fig12)

Improper tightness of bolts will cause failure shown in Fig 13;

• After tightening bolts, if there is still a slit between the ceiling and the panel, adjust the height of the unit again (See the left one of Fig 14);

• If lifting and declining the unit and the length of drain pipe is not limited, you can adjust the height of indoor unit through the opening at the four corners (See the right one of Fig 14)

D. First put the air grille onto the panel and then connect the leads of the swing motor and the control box with the corresponding connectors on the main unit;

E. Install the air inlet grille contrary to the steps of removing it;









- F. Insert the installation cover board again
- (1) Fix the rope of the installation cover board at the bolt of the cover board (See the left one of Fig 15);
- (2) Slightly push the cover into the panel (see the right one of Fig 15)



Fig 15

## 5. Connect the Drain Pipe

#### A. Install the drainpipe

(1) Adopting the hard PVC pipe(Outer diameter 37-39mm, Inner diameter 32mm), the proper drainpipe can be purchased from the distributor or market;

(2) Connect the drainpipe to the bottom of the water suction pipe of the main unit and fasten it together with the water outlet insulating pipe with the clip of the water outlet pipe.

Note: Be gentle to prevent the water suction pipe from cracking.

(3) The water suction pipe and drainpipe (especially the indoor section) should be bound with the water outlet insulation sleeve and then fasten it with the band to avoid the entrance of air that will cause condensation.

(4) In order to avoid of the backward flow into the air condition when stopping running, incline the drain pipe toward the outdoor side (drain side) with the gradient of more than 1/50. Avoid of any protrusion or water trap (Refer to Fig 16a)

(5) Not pull the drainpipe when connecting and set a supporting point every1-1.5m to avoid of bending of the drainpipe( Refer to Fig16b);Besides, you can wrap the drainpipe and connection pipe together first and then fix the fronter with the later (Refer to Fig 16c)

(6) To connect the drainpipe lengthened, wrap the indoor part with protective pipe to keep it from loosing;

(7) If the outlet of the drainpipe is above the water suction pipe of the main unit, keep the drainpipe vertically

upward as much as possible. The bending part of the pipe adopts the rigid pipe with reliable support and the rise height of the pipe is less than 20mm to avoid of overflowing for the flow back when stopping.



Fig 16

Note : Seal all joints of the drain system to avoid of water leakage.



(8) Keep distance of the end of drainpipe and the ground or the bottom of the waterspout more than 50mm and not extend into water. When draining directly the condense water to waterspout, bend the drainpipe upward into the "U" shape to prevent bad smell from entering room.

#### B. Drain test

(1) Check whether the drainpipe is smooth and joints are all sealed well before test;

(2) As for the new room, please do the drain test first, and then lay the ceiling

Fill 2000 ml water into the water pan with filling pipe at the water testing port (Refer to Fig 17);

• Power on the unit and start the cooling operation to check whether the noise of drain pump and the drain is normal (Basing on the length of drainpipe, it will delay about 1 minute before draining) and whether there is water leakage at joints. Remove problems immediately, if any;

• Stop the unit and check if there is any abnormal situation 3 minutes later. In case of irrational layout of drainpipe, the alarm lamp of the control will flash for the much flow back or the water will flow out from water pan;

• Cut off the power and empty the seeper, then install back the cover;

(3) The drain plug at the bottom of the main body is used for emptying the water of the water pan in repairing of problems. When the unit is running, put the plug in position to avoid of water leakage.

## 6. Wiring

#### Caution:

- 1. The air conditioner should use separate power supply with rated voltage.
- 2. The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.
- 3. The wiring work should be done by qualified persons according to circuit drawing.
- 4. An all-pole disconnection switch having a contract separation of at least 3mm in a pole should be connected in fixed wiring.
- 5. Be sure to locate the power wiring and the signal wiring well to avoid cross-disturbance.
- 6. Do not turn on the power until you have checked carefully after wiring.

#### Note:

Remark per EMC Directive 89/336/EEC to prevent flicker impressions during the start of the compressor (technical process), following installation conditions do apply.

- 1. The power connection for the air conditioner has to be done at the main power distribution. The distribution has to be of a low impedance, normally the required impedance reaches at a 32 A fusing point.
- 2. No other equipment has to be connected with this power line.
- 3. For detailed installation acceptance please refer to your power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
- 4. For power details of the air conditioner refer to the rating plate of the product.
- 5. For any question contact your local dealer.

#### 1. Connect the cable

- Dissemble the bolts from the cover.(If there isn't a cover on the outdoor unit, disassemble the bolts from the maintenance board, and pull it in the direction of the arrow to remove the protection board.)
- Connect the connective cables to the terminals as identified with their respective mached numbers on the terminal block of indoor and outdoor units.
- Re-install the cover or the protection board.

#### 2. Wiring figure



# Part 4 Control

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#### Wireless remote controller



■ ON/OFF key: Press the key and the remote control will switch circularly in the order : ON→OFF→ON.

When it is powered on at first from off state to on state, the default setting of work condition is (The set temperature is  $25^{\circ}$ C and the mode, wind speed, swing and air door are all automatic and there is no LAMP, no TURBO, no CLEAN, no SLEEP, no TIMER and no HOLD function). When it is not powered on firstly from OFF state, the work condition is as the same as the state before stopping. It will cancel LAMP, CLEAN, SLEEP, TURBO and TIME mode.

■ MODE key: Press the key to switch modes in the order : AUTO→COOL→DRY→HEAT→FAN→AUTO

- ▼ key: In DRY mode or AUTO mode, pressing ▼ key cannot change the temperature. In other mode, press the key once and the temperature will decrease 1°C in the order: 32°C→31°C→…→17°C→16°C.
- ▼key:In DRY mode and AUTO mode, pressing ▼ key cannot change the temperature. In other mode, press the key once and the temperature will increase 1°C in the order: 16°C → 17°C → … → 31°C → 32°C.
- FAN SPEED key: The default wind speed is in the automatic wind mode when starting firstly. The remote control won't react by pressing the key because the wind speed can't be adjusted and in low speed in dehumidifying mode. In other mode, press the key to switch modes in the order: automatic wind→ high speed → middle speed→ low speed → automatic wind.
- SWING key : In dehumidifying mode, the swing mode is in the stable wind mode without change. In other mode, press the key to switch modes in the order: swing → stable wind → natural wind → swing.
- AIR FLOW key: The default air flow is in the swing mode when starting firstly and press the key to switch modes in the order: SWING  $\rightarrow$  STOP  $\rightarrow$  SWING.
- TIMER key: The default mode is in no timing state, press the key to set timing time. The switch order is: 1H→2H→ ····→24H→ cancel→1H····. Press the key to set timing starting in the OFF state and set timing stopping in the ON state. After setting timing function, the time keeps decreasing per hour until the time decreasing to the timing on or timing off and the timing display will be cancelled at the same time. Pressing MODE key can't cancel timing in timing mode which will set out timing time by pressing other key.
- HOLD key: The default state is in no HOLD key state, press the key to select modes in order: HOLD key → cancel HOLD key → HOLD key; In HOLD key mode, all keys except HOLD key of the remote control can't work.
  (NOTE: In HOLD key mode, the remote and operation panel of the unit both will be locked automatically by pressing the key and press the key again, they will be unlocked. As for the split unit, it only hold the control other than EMERGENCY key and the panel will make a reaction.)

- SLEEP key: Press the key to switch modes in the order: SLEEP→ cancel SLEEP→ SLEEP. The sleeping function won't be cancelled for changing modes. Press the key to set sleep mode and the wind speed will automatically be switched to low speed and it can adjust the wind speed by pressing the FAN SPEED key (except dehumidifying mode).
- TURBO key: The default state for the control is no turbo and the key don't work in the AUTOMATIC mode, DRY mode and FAN mode (It will not display any contents and not send out any codes). The control, however, will switch between on and off by pressing the key in other mode. The wind speed isn't indicated in turbo mode and it will be cancelled for changing modes and setting sleep mode.
- LAMP key : The default state is in no LAMP key state, press the key to select modes in order : LAMP key → cancel LAMP key → LAMP key; In LAMP key mode, pressing MODE key can't cancel the show of LAMP key.
- CLEAN key : The default state is in no purification state, press the key to select modes in order : CLEAN → cancel CLEAN→ CLEAN; In CLEAN mode, pressing CLEAN key can't cancel CLEAN function. Press the key when the remote control is closed, the control will switch modes in the order : CLEAN → cancel CLEAN→ CLEAN; When you stop the unit and turn on the purification switch, except the wind, the stable swing and air door swing speed aren't adjusted.







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