

AIR+PLUS

GUIDE TO THE PRODUCTS FOR CASSY SERIES

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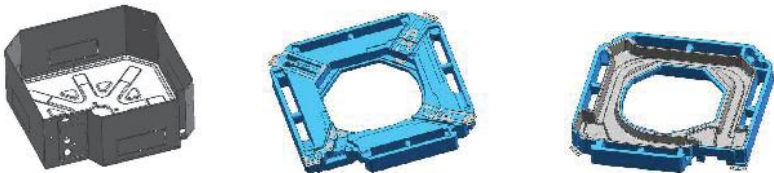
- General Features
- Nomenclature
- Performance data table
- Correction ratio
- Wiring diagram
- Dimension drawing
- Controller system introduction
- Optional parts introduction

Cassy Series



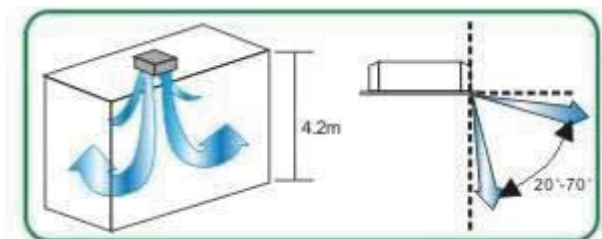
General Features:

1.Casing: Casing is made of high quality galvanized steel.Thanks to a integrated blister process ,ensures there is no any water leakage because of no welding points.It adopts EPS material overall foaming and bonded to the drain pan.It looks elegant and light thanks to adopting much non metal material.



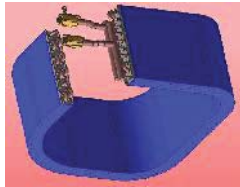
2.Front panel: 4 way air supply, intake grill,panel frame and adjustable air distribution louver on each side made from ABS.

3.Multiway air supply ensures room temperature much even and comfortable



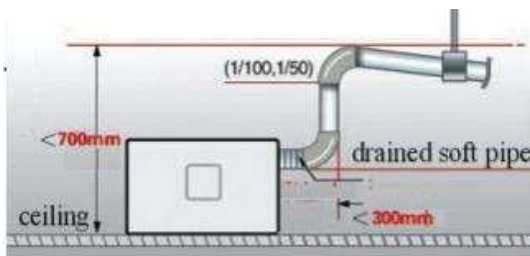
4.Coil:Coil is designed by coil selection software and tested in factory performance test lab to guarantee the performance.It adopts Integral type "C" shape design of heat exchanger with high density without interval which makes the internal air temperature even avoiding area temperature difference caused by internal air twice non even mixture led by twice bended coil design.Coil design is counter flow which makes higher efficiency.Coil is made of high quality ϕ 9.52 mm copper tube and high efficient hydrophilic coated aluminum fin.It adopts advanced tube expanding process which

makes the copper tube and the fins touch each other in best way and moreover big diameter and low noise fan blower is adopted to make sure the best heat transfer efficiency. The header is made of brass and thanks to the design, the water flow distributes even and less head loss is achieved which improves the heat exchange performance. Thanks to the good matching of the fan blower and the new designed air deflector, the performance has been improved 15%.

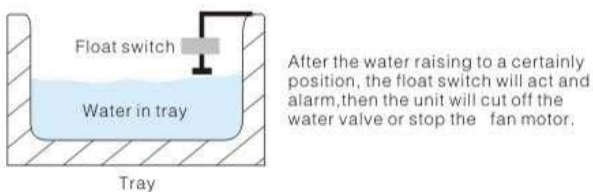


5. Condensate drain pan: Adopt blister process and it will be bond together with high condensity E foam drain pan at an organic whole after heated. The drain pan and EPS foam both adopt anti fire material

6. Condensate drain pump: Adopt intelligent high lift condensate water drainage pump can make the water height of 750 mm which makes it more convenient for the setting of drainage pipe and ensures good drainage performance



7. switch protection of water level avoids any water leakage.

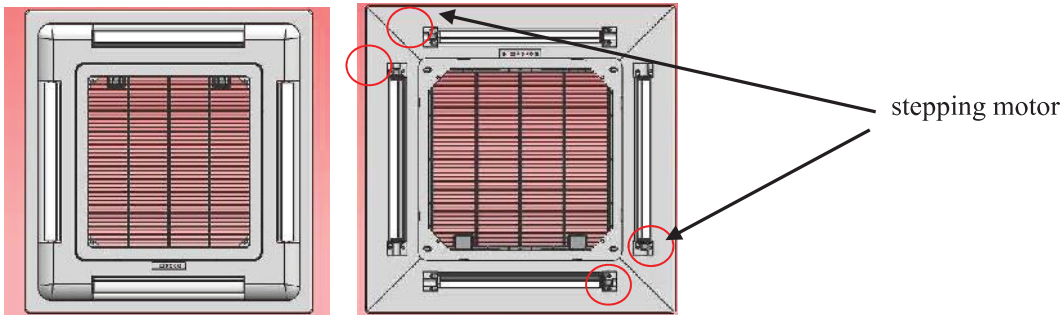


8. Motor: Adopt large diameter vortex centrifugal fan ensures low noise running and energy saving.

Adopting three-dimensional large dip angle spiral blades and rolling bearing motor. Motor shaft adopts antirust processed hardened and tempered steel which ensures longer service life, high efficiency and low noise. Moreover good EPS foam is helpful on noise absorbing.



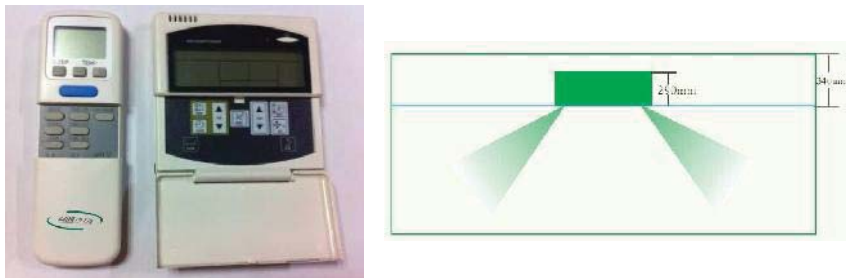
9. Automatic swing, the operation of 4 pieces of swing louvers are controlled by separately four stepping motors, more reliable than one stepping motor linked control structure.



10. Blower: Single air inlet radial fan, fan assembly mounted on anti-vibrating supports guarantees extremely quiet.

11. Filter: Adopt Nylon filter with easy remove design

12. Control system: flexible control way, standard remote handset control (wired wall pad and modbus function optional)

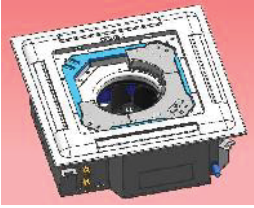


13. Fresh air from outdoor can be introduced into room which improves the indoor air quality

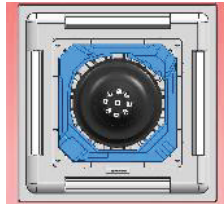
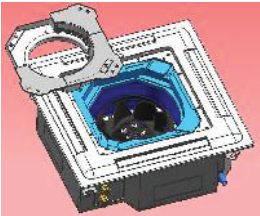


14. Easy Maintenance:

14.1 available to inspect electronic control after removing the return air grill



14.2 available to inspect or replace fan and motor after removing air guide ring



Cassy	KM	4	V	02	D	R	A	G	EH20	CV2	EDP
1	2	3	4	5	6	7	8	9	10	11	12

Nomenclature:

- 1: Cassy: cassette fan coil unit
- 2. KM: Factory Version No.
- 3. 1: 1 way air supply 4: 4 way air supply
- 4. V: 2 pipe P: 4 pipe
- 5. 02: model name
- 6. D: DX coil
- 7. R: with remote handset W: with wired wall pad: T: terminal connection
- 8. A: 50Hz motor B: 60Hz motor
- 9. G: with group control function M: with Modbus function
- 10.EH20: with 2 kw electric heater
- 11.CV2: 2 way cooling coil valve kits factory built in CV3: 3 way cooling coil valve kits factory built in
 HV2:2way heating coil valve kits factory built in HV3:3way heating coil valve kits factory built in
- 12. EDP: external drain pan

Performance data table(2 PIPE):

KM4-V			02	03	04	047	05	06	08	10	12	14	
Air flow	H	m3/h	340	510	680	800	850	1020	1360	1700	2040	2380	
	M		255	380	510	600	635	765	1020	1275	1530	1785	
	L		170	255	340	400	425	510	680	850	1020	1190	
Cooling Cap.	Total	H	kW	2.12	3.09	3.94	4.32	5	5.87	7.32	9.59	11.46	13.04
		M		1.7	2.6	3.2	3.5	4.1	4.9	6.2	8.0	9.6	11.0
		L		1.3	1.9	2.4	2.6	3.1	3.6	4.7	6.1	7.2	8.3
	Sensi ble	H	kW	1.4	2.2	2.7	2.9	3.5	4.1	5.2	6.8	8.0	9.2
		M		1.2	1.7	2.2	2.4	2.8	3.3	4.2	5.5	6.4	7.5
		L		0.8	1.3	1.6	1.8	2	2.4	3.1	4.0	4.8	5.5
Heating Cap.	H		3.37	4.81	6.21	7.01	7.66	9.62	12.42	15.47	17.43	20.16	
	M		2.7	3.8	5	5.6	6.1	7.6	9.9	12.3	14	16.2	
	L		1.9	2.7	3.6	4.1	4.4	5.5	7.1	8.9	10.1	11.7	
Water flow rate		m3/h	0.366	0.534	0.678	0.744	0.858	1.008	1.260	1.650	1.974	2.244	
Noise level		dB(A)	35/32 /29	39/36/ 33	41/38/ 35	44/40/ 36	40/35/ 31	45/40/ 36	46/41/ 37	44/37/ 34	48/42/ 36	52/46 /39	
Power supply			AC 1 ϕ -220V-50Hz										
Power input		W	35	49	58	70	72	94	130	149	183	220	
Running current		Amp	0.16	0.22	0.26	0.32	0.33	0.43	0.59	0.68	0.83	1.0	
Water pressure drop		kPa	16.2	20.8	28.2	36.3	21.5	25.4	35.9	33.6	40	47.2	
Drain pipe conn.		∅	26										
Package casing dimension	L	mm	760				850			1050			
	W	mm	760				850			1050			
	H	mm	350				375			375			
Package panel dimension		mm	720*720*85				920*920*85			1120*1120*85			
Water conn.	inlet	Inch	3/4" FPT										
	outlet	Inch	3/4" FPT										

Note:

1. The above cooling capacity is under entering air temp 27°C DB/19.5 °C WB, chilled water inlet 7°C and water temperature difference is 5°C
2. The above heating capacity is under entering air temp 21°C DB and heating water inelt temp 60°C, water flow and air flow same as cooling mode
3. The above noise level is tested under back ground(<17dB(A))
4. LPM: Liter per min., 1LPM=0.06m3 /h.
5. The max current for the Motorized valve is 2A

Performance data table(4 PIPE):

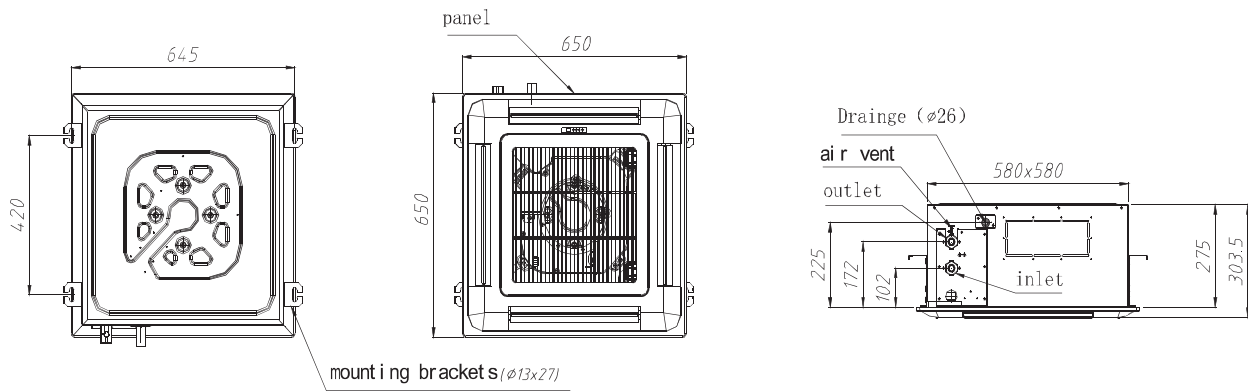
KM4-P			02	03	04	047	05	06	08	10	12	14			
Air flow		H	m3/h	340	510	680	800	850	1020	1360	1700	2040	2380		
		M		255	380	510	600	635	765	1020	1275	1530	1785		
		L		170	255	340	400	425	510	680	850	1020	1190		
Cooling Cap.	Total	H	kW	1.76	2.53	3.19	3.47	4.25	5.19	6.01	8.07	9.05	9.81		
		M		1.41	2.13	2.59	2.81	3.49	4.28	5.07	6.72	7.55	8.25		
		L		1.08	1.56	1.94	2.11	2.64	3.19	3.82	5.12	5.70	6.21		
	Sensible	H	kW	1.16	1.80	2.19	2.34	2.98	3.61	4.29	5.68	6.31	6.94		
		M		1.00	1.39	1.78	1.95	2.38	2.94	3.43	4.64	5.08	5.62		
		L		0.66	1.07	1.30	1.40	1.70	2.10	2.57	3.36	3.77	4.16		
Heating Cap.		H	kW	2.09	2.72	3.3	3.64	4.29	4.79	5.53	7.55	8.45	9.31		
		M		1.97	2.25	2.72	3.04	3.52	3.99	4.79	6.36	7.08	7.78		
		L		1.70	1.97	2.09	2.32	2.74	3.42	3.69	4.83	5.45	6.06		
Cooling water flow rate			m3/h	0.3	0.438	0.552	0.6	0.732	0.894	1.032	1.386	1.56	1.686		
Noise level			dB(A)	35/32 /29	39/36/ 33	41/38/ 35	44/40/ 36	40/35/ 31	45/40/ 36	46/41/3 7	44/37/ 34	48/42/ 36	52/46/ 39		
Power supply			220V-50Hz												
Power input			W	35	49	58	70	72	94	130	149	183	220		
Running current			Amp	0.16	0.22	0.26	0.32	0.33	0.43	0.59	0.68	0.83	1.0		
Water pressure drop			kPa	16.2	20.8	28.2	36.3	21.5	25.4	35.9	33.6	40	47.2		
Drain pipe conn.			∅	26											
Package casing dimension	L	mm	760				850				1050				
	W	mm	760				850				1050				
	H	mm	350				375				375				
Package panel dimension			mm	720*720*85				920*920*85				1120*1120*85			
Water conn.	inlet	Inch	3/4"FPT												
	outlet	Inch	3/4"FPT												

Note:

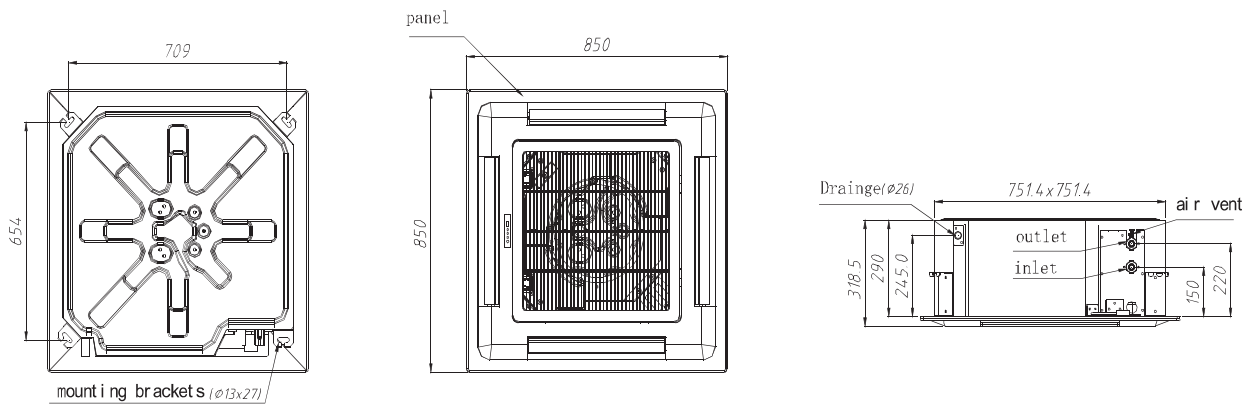
1. The above cooling capacity is under entering air temp 27°C DB/19.5 °C WB, chilled water inlet 7°C and water temperature difference is 5°C
2. The above heating capacity is under entering air temp 21°C DB and heating water inlet temp 60°C and water temperature difference is 10°C
3. The above noise level is tested under back ground(<17dB(A))
4. LPM: Liter per min., 1LPM=0.06m3 /h
5. The max current for the Motorized valve is 2A

Unit Outline Dimension(mm):

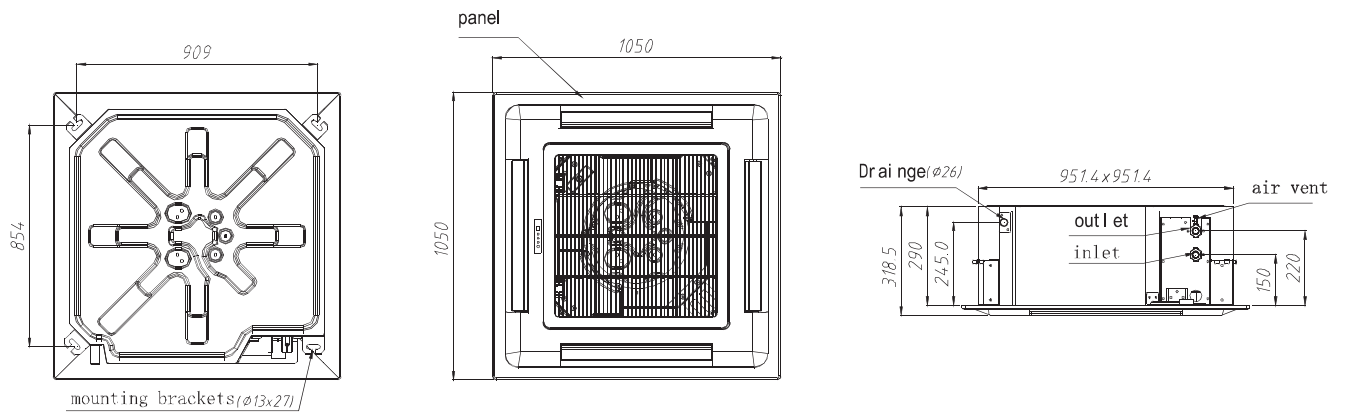
KM4-02/03/04/047



KM4-05/06/08

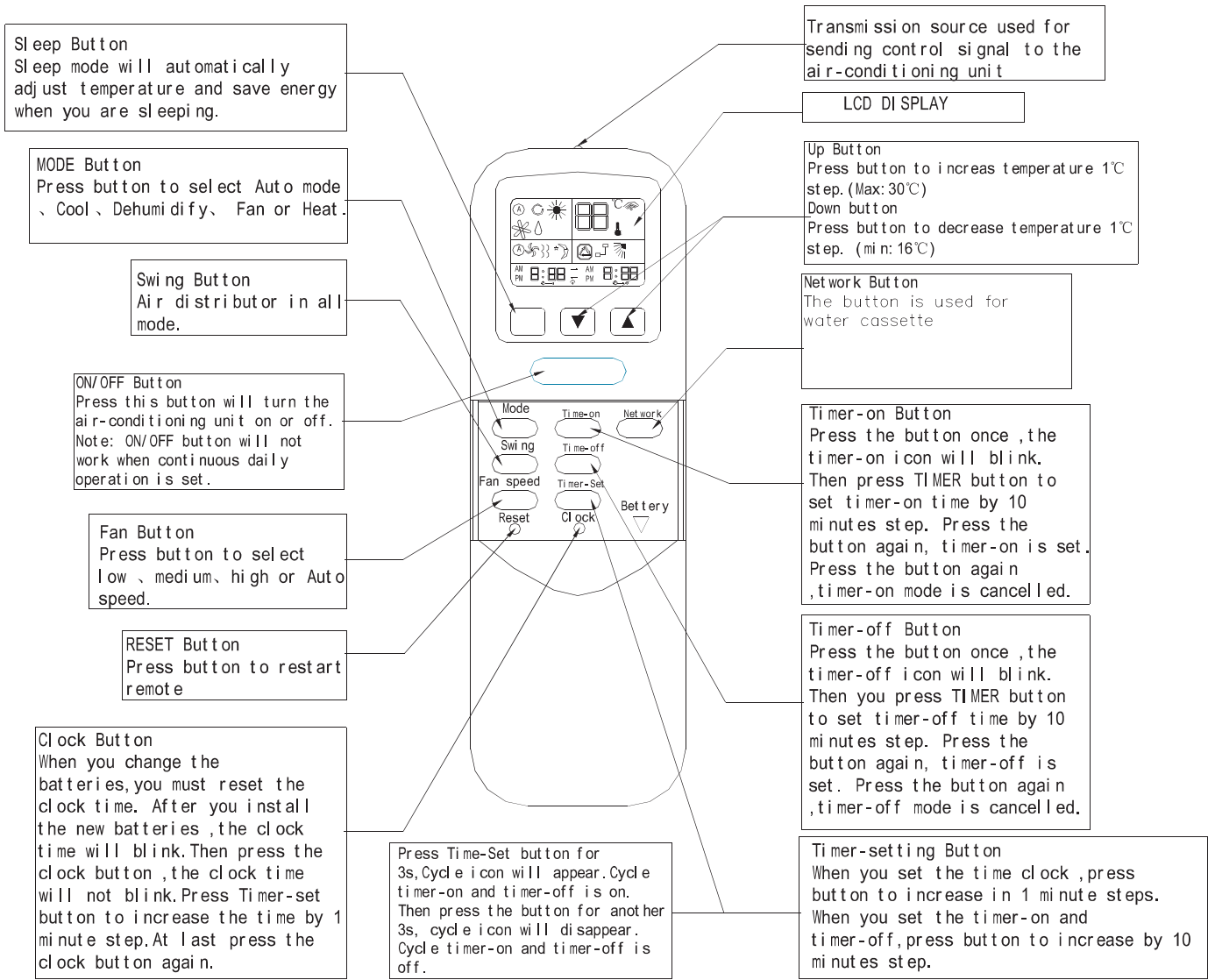


KM4-10/12/14

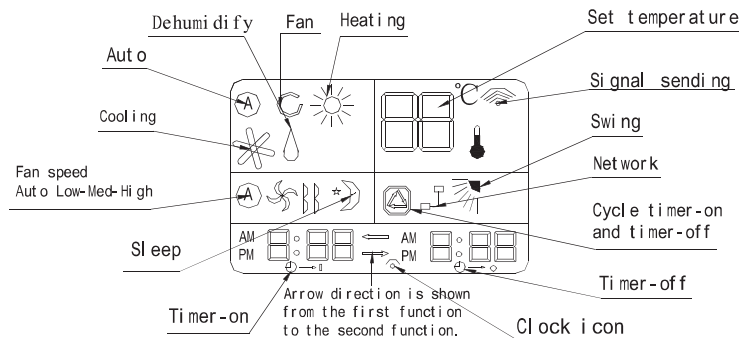


Controller system introduction

Remote Handset Controller

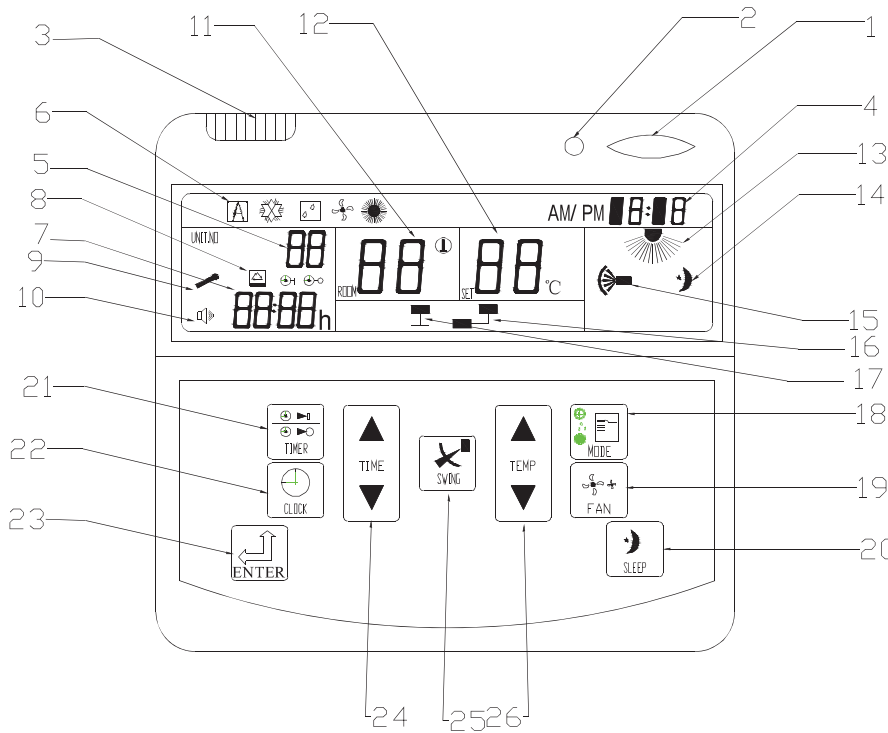


LCD DISPLAY



WALL PAD (OPTIONAL)

Notes:the standard wire's length of the wall pad is 5m



- 1--ON/OFF Button
Press the button, the unit will be tuned on or off.
- 2--LED signal
- 3--Room temperature Sensor
- 4--Real time o'clock
- 5--Unit Number
No.00 is the master unit, You can set slave units(No.01-31) parametres on the master wall pad.
- 6--Mode: Auto, Cool, Dehumidification, Ventilation and Heat
 - [A] Auto mode
 - [❄️] Cool mode
 - [☁️] Dehumidification
 - [🌀] Ventilation mode
 - [🔥] Heat mode
- 7--Setting Time
- 8--Timer ON and OFF
 - [A] Cycle Timer
 - [👆] Timer ON
 - [👇] Timer OFF
- 9--Error Mark
 - 01 Room temperature sensor is damaged;
 - 02 Drainage system is damaged;
 - 03 Coil temperature sensor is damaged;
 - 04 Auto restart function is damaged;
 - 05 Outdoor coil temperature sensor is damaged;
 - 06 High or low pressure switch is opened;
 - 08 The unit is shortage of refrigerant.
- 10-- Error Alarm
- 11--Room temperature
- 12--Setting temperature
- 13--Fan Speed Icon: Auto, Low, Medium and High
- 14--Sleep Mode Icon
- 15--Lower Swing Icon
- 16--Communication Icon
- 17--Connection check Icon
- 18--Mode Select Button
Press the button to select Auto, cool, dehumidification, ventilation or heat mode.
- 19--Fan Speed Select Button
Press the button to select Auto, low, medium or high speed.
- 20--Sleep Mode Button.
It will automatically adjust temperature and save energy when you are sleeping in cool mode or heat mode.
If the wall pad is the master, press it for 3s, communication icon appears, you can select slave unit from 1 to 31 by pressing Time up or down button, all parameters appear on the wall pad will be sent to unit you selected or all slave units when you press Enter Button.
- 21--Timer ON/OFF Button
 - 1) Press TIMER button, [👆] or [👇] appears in LCD;
 - 2) Press TIME (up) or (down) to select TIMER ON or TIMER OFF or SET;
 - 3) If TIMER ON or TIMER OFF is selected, "h" and [👆] or [👇] blink in LCD; Press the TIMER(up) or (down) to set time by 10 minutes step; Press the TIMER button to confirm it. Repeat step 2) and 3) to set TIMER OFF or ON;
 - 4) After setting TIMER ON and OFF, Press the TIME (up) or (down). When [A] and SET appear in LCD, then press TIMER button to confirm it. [A], [👆] and [👇] appear in LCD at the same time. Then press ENTER button to confirm it.
 - 5) When you cancel cycle timer on and off, press TIMER button for 30s. [A] disappears in LCD. When you cancel timer on or/and off, press TIMER button first, then press the TIME (up) or (down) to select SET only in LCD, Press the TIMER button again, then cancel timer on or/and off.
- 22--Clock Button
Press it first, then press Time up or down button to set real time o'clock
- 23--Enter Button
In order to avoid misoperation, all setting(except ON/OFF Button) is valid after pressing the button.
- 24--Time up/down
Press Timer ON/OFF Button or Clock Button first, then press it to set timer time or clock time
- 25--Swing Button
- 26--Temperature Up/Down Button
Press Up Button to increase temperature 1°C step (MAX:30°C)
Press Down Button to decrease temperature 1°C step (MIN:16°C)

FOR SETTING MASTER-SLAVE UNIT USING WALL PAD

1. Please see the back of wall pad. The unit No. can be set using dip switches.

UNIT NO.	dip switches	UNIT NO.	dip switches	UNIT NO.	dip switches	UNIT NO.	dip switches
00	□□□□	09	□□□□	18	□□□□	27	□□□□
01	□□□□	10	□□□□	19	□□□□	28	□□□□
02	□□□□	11	□□□□	20	□□□□	29	□□□□
03	□□□□	12	□□□□	21	□□□□	30	□□□□
04	□□□□	13	□□□□	22	□□□□	31	□□□□
05	□□□□	14	□□□□	23	□□□□		
06	□□□□	15	□□□□	24	□□□□		
07	□□□□	16	□□□□	25	□□□□		
08	□□□□	17	□□□□	26	□□□□		

Remark:

- 1) Error mark from 01 to 04 is for water cassette fan coil unit:
- 2) Error mark from 01 to 08 is for DX cassette.

CONTROLS SPECIFICATION
2 PIPE HOT AND CHILLED WATER CASSETTE WITH MOTORIZED VALVE
MASTER – SLAVE CONTROL (OPTIONAL)
AND COMPUTER MANAGEMENT SYSTEM CONTROL (OPTIONAL)

1.0 ABBREVIATIONS

- Ts = Setting temperature
- Tr = Room air temperature sensor
- Ti = Indoor coil temperature sensor
- Aux = Auxiliary contact
- MTV = Motorized valve

1.0 SYSTEM OPERATION

2.A MASTER AND SLAVE UNIT FUNCTION

The control board can be set either as a master unit or slave unit.

2.A.1 MASTER UNIT FUNCTION

- The master unit can send its parameters to the slave unit using remote handset or wired wall pad.
- The master unit setting parameters are Unit ON/OFF, Mode, Fan Speed, Set Temperature, Sleep Function and Swing function.

2.A.2 SLAVE UNIT FUNCTION

- The slave unit runs according to master unit parameters.
- Every unit is allowed to change to locally desired setting using remote handset or wired wall pad.

2.A.3 MASTER – SLAVE INSTALLATION

- When using remote handset, for the master unit ensure the JP0 jumper is shorted and for the slave units JP0 is opened before turning ON the main power supply.
- When using wired wall pad, JP0 jumper will not function. Unit with No.00 wall pad is master unit. Unit with No.01—31 is slave unit. See wired wall pad function guide to see how to set wall pad Numbers.
- Connect master to slave units with shielded wire. NOTE: Use 4-core cable and one to one configuration.

- If $T_r \leq T_s - 1$, heat operation is activated, MTV is turned on. AUX1 is closed. Indoor fan runs at the set speed.
- If $T_r \geq T_s$, heat operation is terminated, MTV is turned off. AUX1 is opened. Indoor fan repeatedly runs at low fan speed for 30 seconds and stops for 3 minutes.
- The range of T_s is 16 to 30 °C
- Indoor fan speed can be adjusted for low, medium, high and auto
- When turned on, MTV requires 30 seconds before it is fully open.
- When turned off, MTV requires 120 seconds before it is fully closed.

2.G HEAT MODE----- TZ-KM-V6.2C FOR KM4 WITH ELECTRICAL HEATER AS BOOSTER(OPTIONAL)

- If $T_r \leq T_s - 1$, heat operation is activated, MTV is turned on. Electrical heater is turned on. Indoor fan runs at the set speed.
- If $T_r \geq T_s$, heat operation is terminated, MTV is turned off. Electrical heater is turned off. Indoor fan runs according to POST heat condition. Indoor fan repeatedly runs at low fan speed for 30 seconds and stops for 3 minutes.
- If $T_i < 40$ °C, Electrical heater is turned on. If $40 \leq T_i < 45$ °C, Electrical heater is kept original state. If $T_i \geq 45$ °C, Electrical heater is turned off.
- The range of T_s is 16 to 30 °C
- Indoor fan speed can be adjusted for low, medium, high and auto
- When turned on, MTV requires 30 seconds before it is fully open.
- When turned off, MTV requires 120 seconds before it is fully closed.

2.G HEAT MODE----- TZ-KM-V6.2 D FOR KM4 WITH ELECTRICAL HEATER AS PRIMARY HEAT SOURCE. (OPTIONAL)

- If $T_r \leq T_s - 1$, heat operation is activated, MTV is turned off. Electrical heater is turned on. Indoor fan runs at the set speed.
- If $T_r \geq T_s$, heat operation is terminated, MTV is turned off. Electrical heater is turned off. Indoor fan runs according to POST heat condition. Indoor fan repeatedly runs at low fan speed for 30 seconds and stops for 3 minutes.
- The range of T_s is 16 to 30 °C
- Indoor fan speed can be adjusted for low, medium, high and auto
- When turned on, MTV requires 30 seconds before it is fully open.
- When turned off, MTV requires 120 seconds before it is fully closed.

2.G.1 Pre-Heat-----TZ-KM-V6.2 FOR KM4 WITHOUT ELECTRICAL HEATER.

- If $T_i < 32$ °C, when MTV is on, indoor fan remains off and AUX1 is closed.
- If 32 °C $\leq T_i \leq 38$ °C, when MTV is on, AUX1 is closed and indoor fan keeps original state.

- If $T_i > 38\text{ }^\circ\text{C}$, when MTV is on, AUX1 is closed and Indoor fan runs at set speed.
- If indoor coil temperature sensor is damaged, pre-heat time is set for 2 minutes and Indoor fan runs at set speed.

2.G.1 Pre-Heat-----TZ-KM-V6.2 C(D) FOR KM4 WITH ELECTRICAL HEATER.

- Indoor fan will be turned on after the electrical heater is turned on 30S.

2.G.2 Post-Heat -----TZ-KM-V6.2 FOR KM4 WITHOUT ELECTRICAL HEATER.

- If $T_i > 38\text{ }^\circ\text{C}$, when MTV is off, indoor fan remains on at set speed and AUX1 is opened.
- If $35\text{ }^\circ\text{C} \leq T_i < 38\text{ }^\circ\text{C}$, when MTV is off, AUX1 is opened. Indoor fan keeps original state.
- If $T_i < 35\text{ }^\circ\text{C}$, when MTV is off, AUX1 is opened. Indoor fan stops.
- If indoor coil temperature sensor is damaged, post-heat time is set for 3 minutes with indoor fan running at set speed.

2.G.2 Post-Heat -----TZ-KM-V6.2 C(D) FOR KM4 WITH ELECTRICAL HEATER.

- Indoor fan will be turned off after the unit is turned off 20S.

2.G.3 Protection of indoor coil

- If $T_i \geq 75\text{ }^\circ\text{C}$, MTV is turned off, indoor fan remains on and AUX1 is opened. Indoor fan at high speed.
- If $T_i < 70\text{ }^\circ\text{C}$, MTV is turned on, indoor fan remains on and AUX1 is closed. Indoor fan at set speed.

2.H DEHUMIDIFICATION MODE

If $T_r \geq 25\text{ }^\circ\text{C}$, MTV will be ON for 3 minutes and OFF for 4 minutes.

If $16\text{ }^\circ\text{C} \leq T_r < 25\text{ }^\circ\text{C}$, MTV will be ON for 3 minutes and OFF for 6 minutes.

If $T_r < 16\text{ }^\circ\text{C}$, MTV will be turned off.

2.I AUTO HEAT-DEHUMIDIFICATION-COOL MODE

In auto mode, the set temperature of the system is $24\text{ }^\circ\text{C}$ and the indoor fan runs in auto fan mode.

If $T_r < 21\text{ }^\circ\text{C}$, the unit will operate in heat mode.

If $T_r > 25\text{ }^\circ\text{C}$, the unit will operate in cool mode.

If $21\text{ }^\circ\text{C} \leq T_r \leq 25\text{ }^\circ\text{C}$, the unit will operate in dehumidification mode.

Once the unit is turned on in auto mode, it will operate in that mode and will not changeover.

If the unit has been turned off for 2 hours, when turning on the unit, it will select the operating mode depending on the room temperature.

2.J AUXILIARY CONTACTS

- Cool mode (AUX2)
AUX2 is closed when MTV is on (in normal operation). AUX2 is opened when MTV is off or protection of indoor coil is operating.
- Fan mode (AUX1 and AUX2)

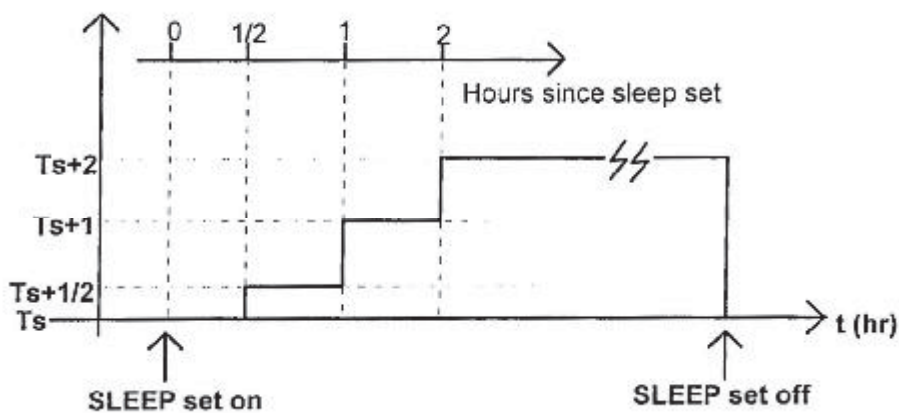
AUX1 and AUX2 are opened when Indoor fan is on.

- Heat mode (AUX1) for unit without electrical heater.
AUX1 is closed when MTV is on (in normal operation). AUX1 is opened when MTV is off or protection of indoor coil is operating.

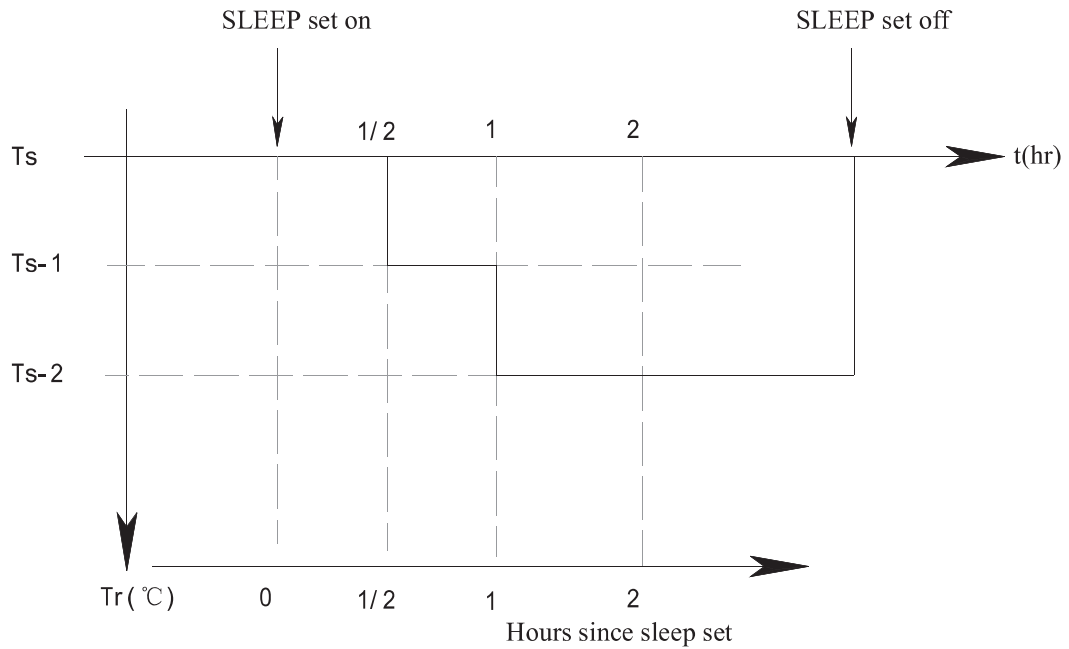
2.K SLEEP FUNCTION

- Sleep function can only be set in cool or heat modes.
- In cool mode, after sleep function is set, the indoor fan will run at low speed and T_s will increase 2°C during 2 hours.
- In heat mode, after sleep function is set, the indoor fan will run at auto fan mode and T_s will decrease 2°C during 2 hours.
- Changing of operation mode will cancel sleep function

The COOL mode SLEEP profile is as follow:

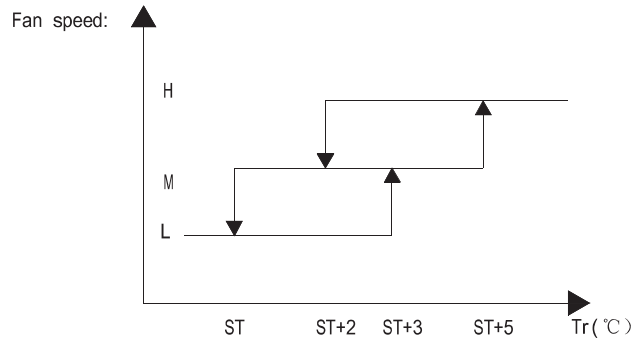


The HEAT mode SLEEP profile is as follows:

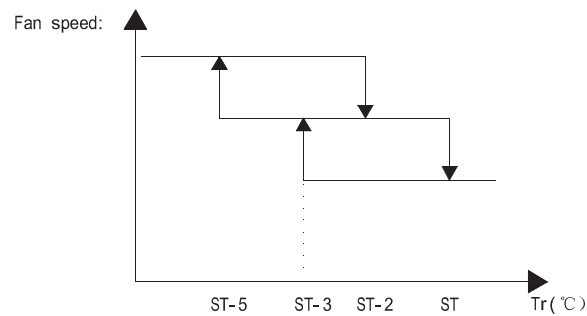


2.L AUTO FAN SPEED

- In cool mode, the auto fan speed will operate as the following diagram:



- In COOL mode, the fan speed cannot change until it has run at this speed over 30 seconds.
- In heat mode, the auto fan speed will operate as the following diagram:



- In HEAT mode, the fan speed cannot change until it has run at this speed over 30 seconds.

2.M SWING / LOUVER

- If the indoor fan is operating, the louver will swing or can be stopped at a preferred location in any mode.

2.N BUZZER

- If a command is received by the air conditioner, the system will respond with a beep.

2.O AUTO RESTART

- The system uses non-volatile memory to save the present operation parameters when system is turned off or in case of system failure or cessation of power supply. Operation parameters are mode, set temperature, swing, and the fan speed. When power supply resumes or the system is switched on again, the same operations as previously set will function.

2.P MANUAL OPERATION BUTTON

- On the unit front panel next to the LED lights is the reset button. Press it once and unit will operate according to auto mode.

2.Q DRAIN PUMP

In cool and dehumidification mode :

- The drain pump will be turned on when the MTV is on, and will remain on for 5 minutes after the MTV closed.
- The drain pump will keep running for 5 minutes after the mode is changed.

Warning ! If turn off the system by circuit breaker (or main power supply) the drain pump does not work after turn off.

2.R FLOAT SWITCH

2.R.1 Float switch open before turning on.

When float switch(N/C) is opened before the unit is turned on. MTV is off. Drain pump and indoor fan will operate. After float switch is closed, MTV is on.

2.R.2 Float switch is opened, when unit is on.

If the float switch is opened, the drain pump will work. When the float switch is closed, the drain pump will run continuously for 5 minutes.

If the float switch is opened for 5 minutes continuously, MTV will be turned off. Indoor fan runs at set speed.

If the float switch is opened for 10 minutes continuously, MTV will remain off. Indoor fan runs at set speed. Red, yellow and green LED will blink with beeps.

2.R.3 Float switch is opened, when unit is off.

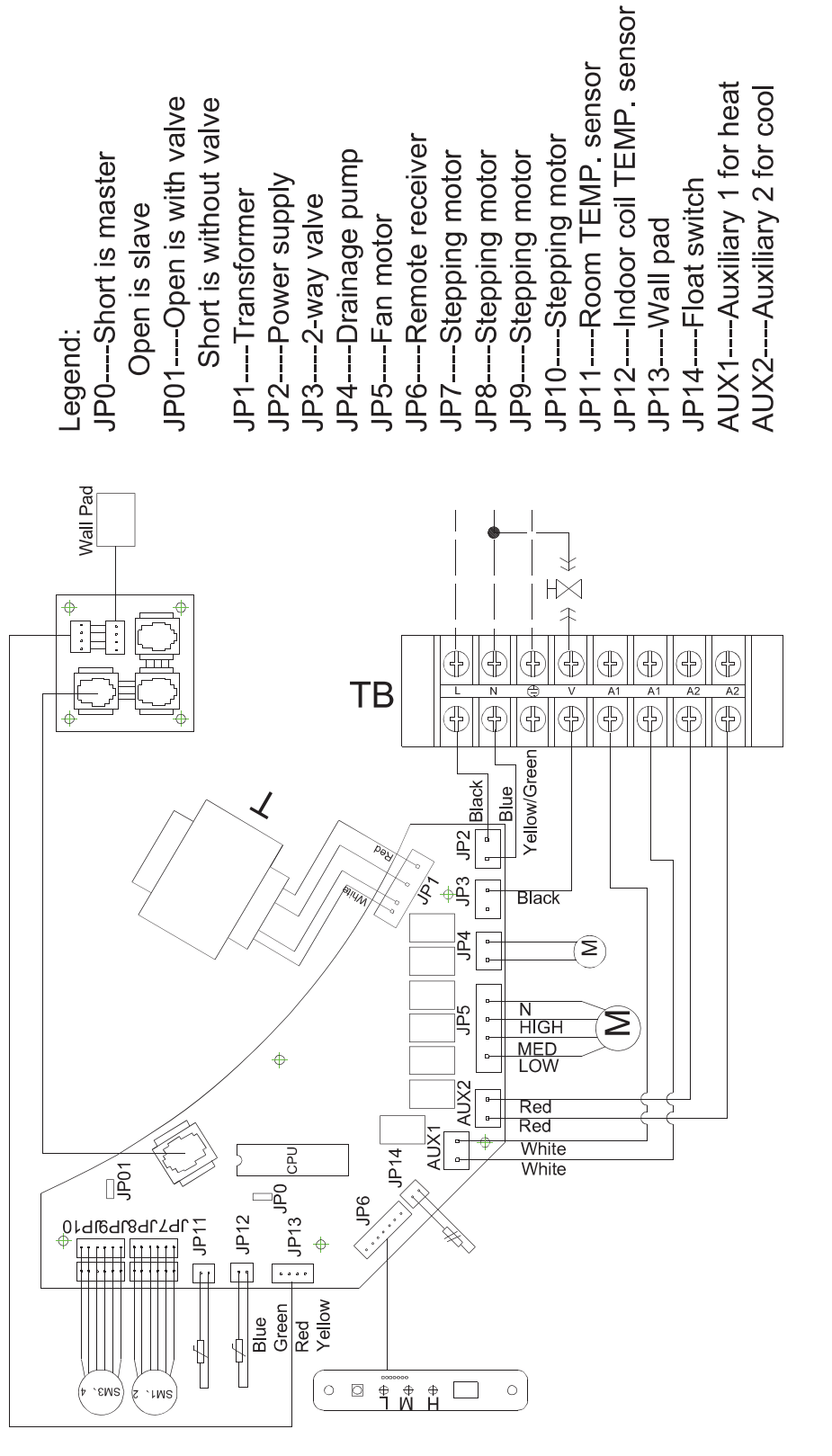
If the float switch is opened, the drain pump will work. When the float switch is closed, the drain pump will run continuously for 5 minutes.

If the float switch is opened for 10 minutes continuously, Red, yellow and green LED will blink. The drain pump continues to work.

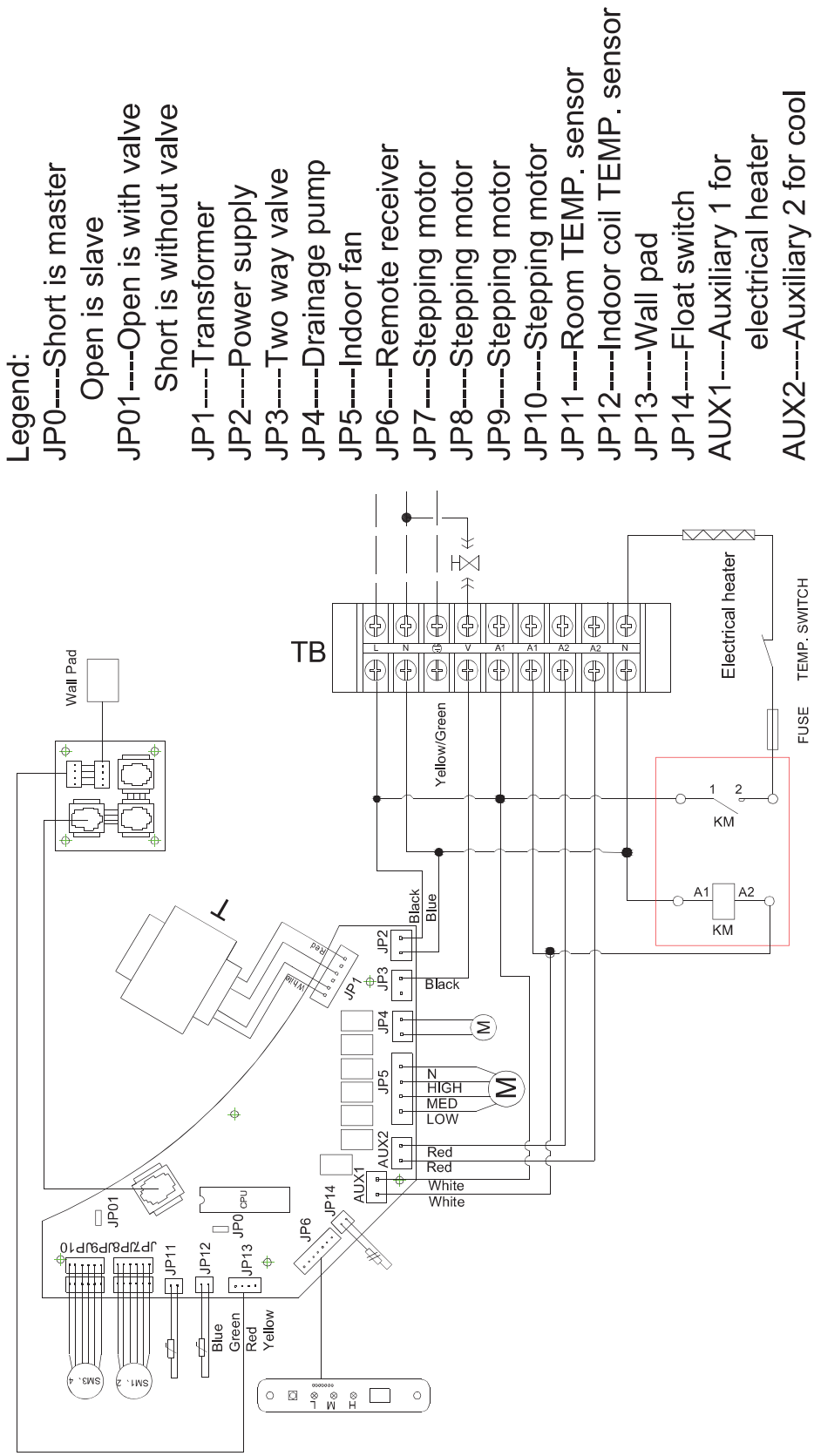
3.0 LED LIGHTS

ITEM	RED LED	YELLOW LED	GREEN LED
High speed	ON		
Medium speed		ON	
Low speed			ON
Pre-heat		BLINK	
Post-heat			BLINK
Low temperature coil protection	BLINK		
Over heat indoor coil protection		BLINK	BLINK
Coil Temperature sensor damaged	ON	BLINK	BLINK
Room Temperature sensor damaged	BLINK		BLINK
Condensate pump damaged	BLINK	BLINK	BLINK
<ul style="list-style-type: none"> If the sensor malfunctions, the red and yellow LED will blink with beep. Press reset button or any of the remote handset buttons, and the beeping will stop. If the drain pump malfunctions, the red, yellow and green LED will blink with beeping sound. Press reset button or any of the remote handset buttons, and the beeping will stop. 			

Water Cassette Wiring Diagram Without Electrical Heater Master-Slave Control

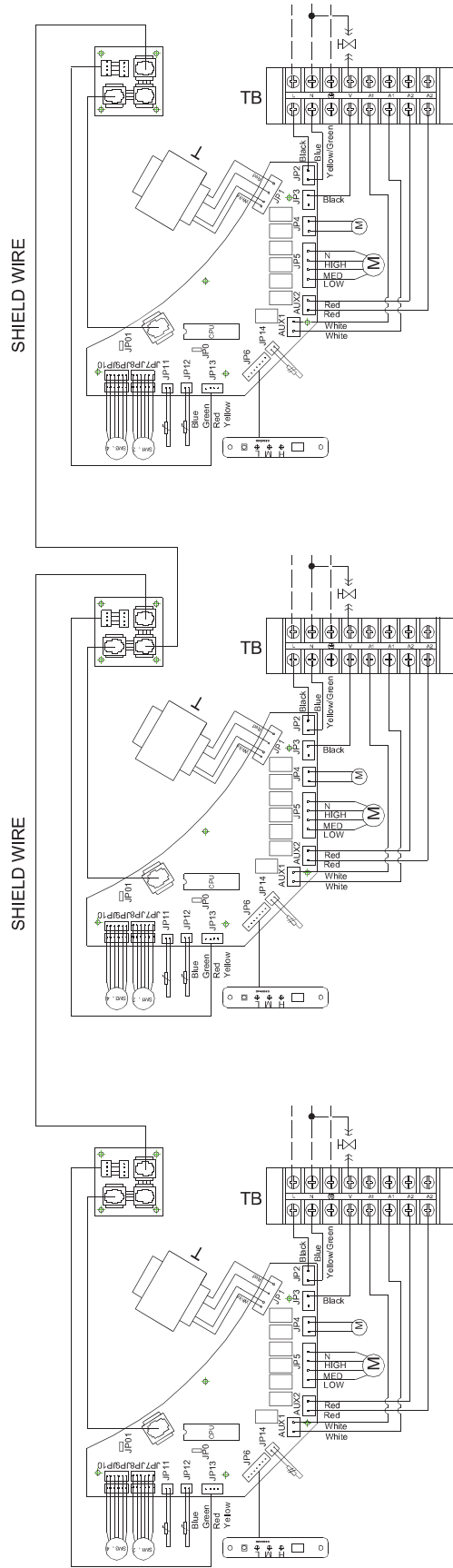


Water Cassette Wiring Diagram With Electrical Heater Master - Slave Control



- Legend:
- JP0----Short is master
 - Open is slave
 - JP01----Open is with valve
 - Short is without valve
 - JP1----Transformer
 - JP2----Power supply
 - JP3----Two way valve
 - JP4----Drainage pump
 - JP5----Indoor fan
 - JP6----Remote receiver
 - JP7----Stepping motor
 - JP8----Stepping motor
 - JP9----Stepping motor
 - JP10----Stepping motor
 - JP11----Room TEMP. sensor
 - JP12----Indoor coil TEMP. sensor
 - JP13----Wall pad
 - JP14----Float switch
 - AUX1----Auxiliary 1 for electrical heater
 - AUX2----Auxiliary 2 for cool

Water Cassette Wiring Diagrams With Master and Slave Connection



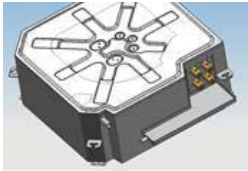
Optional Parts Introduction

Electric heater:



EH capacity	Cassy model	Remark
1KW	KM4-02/03	with relay
2KW	KM4-04/047/05	with relay
3KW	KM4-06/08	with relay
4KW	KM4-10/12/14	with relay

External drain pan



Supply as optional part and will be backed into unit carton box to collect valve connection condensate water

Motorized **valve kits** shipped by separate packing:



- 1) flexible mounting kits. Right connection and Left connection general used
- 2) CV2/CV3: 3/4”
HV2/HV3: 1/2”
- 3) Power supply: AC220V, 50Hz

Model	KV Value(Direct Way)m ³ /h	KV Value (m ³ /h)	Pressure (MPa)	Connecting Size
HV2/HV3	1.6	1	0.25	DN15
CV2/CV3	2.5	1.6	0.15	DN20

Motorized valve shipped by separate packing



No.	Model	Caliber	Body Structure	Kv (Cv)Value	Closing Pressure (MPa)
1	HR-G2-1/2	1/2"(15mm)	Actuator and valve body fixed together	2.2 (2.5)	0.20
2	HR-G2-3/4	3/4"(20mm)		3.0 (3.5)	0.18
3	HR-G2-1/2-S2	1/2"(15mm)	Actuator is easily dismantled from valve body	2.2 (2.5)	0.20
4	HR-G2-3/4-S2	3/4"(20mm)		3.0 (3.5)	0.18

Other kinds of valve such as ball valve, please contact Hammer for further information