

BUTTONS AND SYMBOLS

CM-MPC30 CONTROL BOARD



SYMBOL	LED COLOUR	DESCRIPTION
	white	operating in "COOL" mode
	white	operating in "HEAT" mode
	white	operating in "FAN" mode
	white	operating in "DEHUMIDIFYING" mode
	white	operating in "AUTOMATIC" mode
	white	operating at high fan speed
	white	operating at medium fan speed
	white	operating at low fan speed
	white	operating at automatic fan speed
	white	operating at "sleep function" setted
	white	operating at "time function" setted
	white	indicates that the compressor is on

table (1)

Operating the A/C Unit at (COOLING) Mode



Press on the power button once to start operating the unit.



Push the Mode button at intervals until you see the "COOL" mode light lit on the control panel. When the "COOL" mode light is on, it indicates that your unit start operating at cooling mode.



You can set the room temperature by pressing the UP - DOWN buttons. At first the current room temperature is seen on display. Pressing on the arrow buttons will let you observe the adjusted room temperature on the display for 3 seconds and then the display automatically turns back showing the current room temperature again.



Within 3 minutes when the "COMP" lead light is on indicating that the compressor is in operation, your unit starts cooling. Once your unit reaches the desired cooling level as can be observed on the display, the compressor stops cooling and "COMP" light is off. When to room temperature raises 1 degree above the preset cooling level "COMP" light is on and the unit starts cooling again.

Operating the A/C Unit at (HEATING) Mode



Press on the power button once to start operating the unit.



Push the Mode button at intervals until you see the "HEAT" mode light lit on the control panel. When the "HEAT" mode light is on, it indicates that your unit start operating at heating mode.



You can set the room temperature by pressing the UP - DOWN buttons. At first the current room temperature is seen on display. Pressing on the arrow buttons will let you observe the adjusted room temperature on the display for 3 seconds and then the display automatically turns back showing the current room temperature again.



Within 3 minutes when the "COMP" lead light is on indicating that the compressor is in operation, your unit starts heating. Once your unit reaches the desired heating level as can be observed on the display, the compressor stops heating and "COMP" light is off. When to room temperature drops 1 degree below the preset heating level "COMP" light is on and the unit starts heating again.

Operating the A/C Unit at (DRY) Mode for humidity control



Press on the power button once to start operating the unit.



Push the Mode button at intervals until you see the "COOL" and "FAN" mode lights both lit on the control panel at the same time. When the "COOL" and "FAN" mode lights are on, it indicates that your unit started operating at "DRY" mode to control humidity.



You can set the room temperature by pressing the UP - DOWN buttons. At first the current room temperature is seen on display. Pressing on the arrow buttons will let you observe the adjusted room temperature on the display for 3 seconds and then the display automatically turns back showing the current room temperature again.



Within 3 minutes when the "COMP" lead light is on indicating that the compressor is in operation, your unit starts cooling. Once your unit reaches the desired cooling level as can be observed on the display, the compressor stops cooling and "COMP" light is off. At "DRY" mode both the compressor and the fan will stop at the same time. When the room temperature raises 1 degree above the preset cooling level "COMP" light is on and the unit starts cooling again.

Operating the A/C Unit at automatic (AUTO) Mode

At this mode your unit will determine when to start and stop heating or cooling based on the current room temperature conditions itself.



Press on the power button once to start operating the unit.



Push the Mode button at intervals until you see the "COOL" and "HEAT" mode lights both lit on the control panel at the same time. When the "COOL" and "HEAT" mode lights are on, it indicates that your unit started operating at "AUTO" mode.



Within 3 minutes when the "COMP" lead light is on indicating that the compressor is in operation, your unit starts either cooling or heating. In "AUTO" mode your unit has a preset heating value which is 25 °C. If the current room temperature is below this value the unit works in heating mode until it reaches the preset heat level when the compressor stops and "COMP" light is off. If the current room temperature is above 25 °C, the unit works in cooling mode until it reaches this level then the compressor stops, and "COMP" light is off.

Operating the A/C Unit at (FAN) Mode

Working at this mode your unit does not use any of the heating, cooling, dry and auto mode functions at all. It only circulates the current air in the room through itself enabling fresh air in the environment. It does not have any preset/adjustable room temperature value.



Press on the power button once to start operating the unit.



Push the Mode button at intervals until you see the "FAN" mode light lit on the control panel. When the "FAN" mode light is on, it indicates that your unit start operating at the fan mode.



You can select the fan speed by pressing on the "FAN" button . However, it is not possible to select an automatic fan speed "FA" at this mode.



High fan speed lead indicator



Medium fan speed lead indicator



Low fan speed lead indicator

Work Principles of the Fan under Desired Modes

COOLING MODE

At this mode, all available fan speeds, including the automatic fan speed "FA" can be selected. When the unit operates at the cooling mode, the fan also operates non stop.

HEATING MODE

At this mode, all available fan speeds, including the automatic fan speed "FA" can be selected. The unit works in a different manner as compared to the cooling mode. After the first start up when the "COMP" lead light is on, the compressor starts but the fan does not. Instead the fan starts soon after the coil sensor on the surface of the evaporator senses the heat level at 35°C which is noticed within 30 seconds average time frame under normal circumstances.

DRY MODE

At this mode, all available fan speeds, including the automatic fan speed "FA" can be selected. Fan operates at this mode quite the same as it operates under the cooling mode with one exception ; that is; it does not stop when the compressor LED "COMP" off right away. At this mode the fan ceases itself only after the compressor stops after the heating function.

AUTOMATIC MODE

The unit determines the heating or cooling function itself based on current room temperature. While operating at the auto mode; The fan applies the same working principles under the cooling or heating mode as they were.

(SLEEP) Mode



Press on the power button once to start operating the unit.



You can push the Mode button at intervals until you observe the desired operating mode light is on the display of your unit.



You can set the room temperature by pressing the UP - DOWN buttons



Press on the Sleep button once. "SLP" lead light will be lit on the display enabling the unit to operate at "SLEEP" mode. The Sleep mode is generally preferred at cooling the unit. This mode provides comfort to people by automatically adjusting the room temperature level to change in 1 degree intervals while they're sleeping .



When the "COMP" lead light is on, the compressor will start to operate at the selected mode, using the "SLEEP" mode function as well.

MENU

You'll have to push the "SLEEP" button for 5 seconds in order to change the settings at the menu.
Available Menu selections:

C1 - TIMER MODE

C3 - ADJUSTING THE AIR FLOW

C2 - °C ↔ °F

C4 - PROBE VALUES

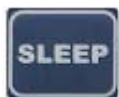
C1 - TIMER MODE



Push the button for 5 seconds until the double dashes appear on the display, enabling the menu selections.



You can make a selection by using the arrow keys on the panel. At this step you should select "C1" under the available menu selections. Use the arrow keys until "C1" sign is visible on the display.



Select "C1" option by pressing "SLEEP" button once.



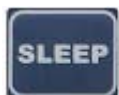
Use up and down arrow keys to select the timer options



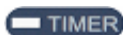
Upon selecting press once again the "SLEEP" button. "00" sign is indicated on the display.



Again using the arrow keys you can enter the desired time value. Selection range is in between 1 hour to 12 hours time interval.



In order to set the adjusted time settings, press "SLEEP" button once again. The Program will pass to the previous menu. In order to escape from the whole menu press the "SLEEP" button several times until the double dashes appear on the screen indicating the start of the menu, by pressing once more to "SLEEP" button you'll be able to leave the menu. You should observe the "TIMER" lead light on indicating that the unit is operating at timer mode now and will automatically start at the end of the desired time interval if you have selected "on", or it will automatically stop operating if you have selected "oF"



In order to get your unit out from the "TIMER" mode you'll have to follow the same steps and mark the time interval as "00" and push on the "SLEEP" button for 5 seconds. Observe that the "TIMER" lead light is off this time.



MENU

C2 - °C ↔ °F



Push the button for 5 seconds until the double dashes appear on the display, enabling the menu selections



You can make a selection by using the arrow keys on the panel. At this step you should select "C2" under the available menu selections. Use the arrow keys until "C2" sign is visible on the display.



Select "C2" option by pressing "SLEEP" button once.



Use up and down arrow keys to select the temperature unit options



In order to set the adjusted temperature unit settings, press "SLEEP" button once again. The Program will pass to the previous menu. In order to escape from the whole menu press the "SLEEP" button several times until the double dashes appear on the screen indicating the start of the menu, by pressing once more to "SLEEP" button you'll be able to leave the menu. After this your unit will start operating at the selected temperature indication unit.

C3 - AIR FLOW SETTINGS

Your units air flow settings are originally preset at the factory premises. Under special conditions which will arise after assembling the unit at your premises, you may wish to change these settings. These conditions such as the ductings being longer or shorter than normal, sharp turning points or too many turns affecting the direct air flow through the unit etc. may result your altering the preset flow settings which is normally not proposed by your producers. You can adjust the settings from this menu only for units operating at 4000, 8000 ve 10000 Btu/h capacity.



Push the button for 5 seconds until the double dashes appear on the display, enabling the menu selections



You can make a selection by using the arrow keys on the panel. At this step you should select "C3" under the available menu selections. Use the arrow keys until "C3" sign is visible on the display.



Select "C3" option by pressing "SLEEP" button once.

MENU



Use up and down arrow keys to select the air flow unit options

HI HL Lo



Press "SLEEP" button once again to make a selection



Use up and down arrow keys to change the preset values as follows:

Factory Settings

Adjustable Values

HI	→	"23"	in between 20 - 26
HL	→	"16"	in between 13 - 19
Lo	→	"9"	in between 6 - 12

WARNING:

Any value selected other than available options in the menu may affect negatively your units performance efficiency and capacity.



In order to set the adjusted temperature unit settings, press "SLEEP" button once again. The Program will pass to the previous menu. In order to escape from the whole menu press the "SLEEP" button several times until the double dashes appear on the screen indicating the start of the menu, by pressing once more to "SLEEP" button you'll be able to leave the menu. After this your unit will start operating at the adjusted air flow values.

C3 - PROBE VALUES

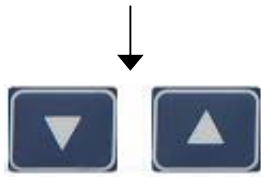
Your unit is equipped with heat measuring probes enabling it to work in normal conditions. These probes are affixed at certain places in your unit ensuring operational efficiency by measuring the heat of the unit at that point constantly. With this menu option you can observe the heat felt at the probe at that instance on display. This menu option is intended to provide information to authorized service personnel of the company upon your units probable malfunctioning. It does not change any of the settings in your unit but is there only for observation purposes.



Push the button for 5 seconds until the double dashes appear on the display, enabling the menu selections



MENU



You can make a selection by using the arrow keys on the panel. At this step you should select "C4" under the available menu selections. Use the arrow keys until "C4" sign is visible on the display.

C4



Select "C4" option by pressing "SLEEP" button once.



Use up and down arrow keys to select the available heating probes

EP CP HP rP



By pushing the "SLEEP" button once again, you will be able to observe on display the current heating value felt at the selected probe.

EP

Coil probe is affixed to the evaporator

CP

Condenser probe is affixed to the condenser

HP

High pressure probe, is attached to the press pump

rP

Room temperature probe, measures air sucking heat



Press "SLEEP" button once again. The Program will pass to the previous menu. In order to escape from the whole menu press the "SLEEP" button several times until the double dashes appear on the screen indicating the start of the menu, by pressing once more to "SLEEP" button you'll be able to leave the menu.

ERROR CODES

Your unit is equipped with all the necessary control equipments such as pressure control keys and heat measurement devices insuring your system to operate in systematic order. These equipments enable your unit to operate within the range of programmed values as set in the main card, in any case when the unit reads any value outside the set range it stops operating and send a signal by a blinking error code appearing on the display. The error code on the display explains us whichever control equipment within the system has a malfunction. Please apply to your service personnel when you observe any error messages on your display.

TABLE OF ERROR CODES










ERROR CODES	MEANING
	high pressure key error
	low pressure key error
	room temperature probe error
	freeze(coil) probe measurement error
	insufficient cooling error
	insufficient heating error
	condenser probe heat measurement error
	air filter cleaning warning
	freezing (coil) probe error

table (2)