



Owner Manual

AQUA NEW STYLUS

Chilled Water Fan Coil

Convertible Type

CFEB Series 50/60 Hz



50 Hz Models

Cooling Only

CFEB 04 C0M1
CFEB 06 C0M1
CFEB 08 C0M1
CFEB 10 C0M1
CFEB 12 C0M1
CFEB 14 C0M1
CFEB 16 C0M1
CFEB 20 C0M1

60 Hz Models

Cooling Only

CFEB 04 C0M2
CFEB 06 C0M2
CFEB 08 C0M2
CFEB 10 C0M2
CFEB 12 C0M2
CFEB 14 C0M2
CFEB 16 C0M2
CFEB 20 C0M2



General Information

General Information

Congratulations on your choice of a Trane chilled water fancoil system. These systems have been carefully designed and manufactured under strict **Trane Worldwide Quality Standards** to provide you with years of comfortable, convenient cooling or heating/cooling with a minimum of service.

This Owner Manual is given as a guide to start-up, operation and periodic maintenance by the user of CFEB chilled water fancoil system.

It does not contain the full service procedures necessary for the continued successful operation of this equipment. The services of a qualified service technician should be employed, through the maintenance contract with a reputable service company.

Read it completely before doing anything with your air conditioning system.

About this Manual

Cautions appear at appropriate places in this instruction manual.

Your personal safety and the proper operation of this machine require that you follow them carefully. The Trane Company assumes no liability for the inappropriate usage of the unit.

About the Unit

These CFEB units are assembled, pressure tested, dehydrated, charged and run tested before shipment. The information contained in this manual

applies to CFEB units are designed to operate in cooling mode only and in cooling or heating modes.

Trane CFEB series of chilled water fancoil systems offer three styles of installation: floor, low wall and under ceiling with both LCD wireless remote control or wired control.

Trane CFEB series provide flexibility and savings.

Note: For model CFEB14, CFEB16 and CFEB20, there are only two styles of installation: under ceiling and low wall.

Reception

On arrival, inspect the unit before signing the delivery note. Specify any damage of the unit on the delivery note, and send a registered letter of protest to the last carrier of the goods within 72 hours of delivery.

Notify the dealer at the same time. The unit should be totally inspected within 7 days of delivery. If any concealed damage is discovered, send a registered letter of protest to the carrier within 7 days of delivery and notify the dealer.

Warning

Warnings are provided at appropriate places in this manual to indicate to installers, operators and service personnel of potentially hazardous situations which, if not avoided, COULD result in death or serious injury.

Caution

Cautions are provided at appropriate places in this manual to indicate to

installers, operators, and service personnel of potentially hazardous situations which, if not avoided, MAY result in minor or moderate injury or malfunction of the unit.

Your personal safety and the proper operation of this unit require that you follow them carefully. The Trane Company assumes no liability for installations or servicing performed by unqualified personnel.

Warranty

Warranty is based on the general terms and conditions by country. The warranty is void if the equipment is modified or repaired without the written approval of The Trane Company, if the operating limits are exceeded or if the control system or the electrical wiring is modified. Damage due to misuse, lack of maintenance or failure to comply with the manufacturer's instructions, is not covered by the warranty obligation. If the user does not conform to the rules described in Owner Manual, it may entail cancellation of warranty and liabilities by The Trane Company.

Important

These instructions do not cover all variations in systems, nor do they provide for every possible contingency to be met. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your authorized Trane dealer.

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Control Operation

Infrared Remote Control Unit Display and One-touch Control Switch



Display Panel

Four lamps on the unit show operating status.

1. FAN Lamp

This lamp lights when the fan is operating.

2. COOLING Lamp

This lamp lights when the unit is in COOL or DRY mode of operation.

3. TIMER Lamp

This lamp lights when the system is being controlled by the timer.

4. Compressor Lamp

This lamp lights when compressor is operated.

One Touch Control Switch (A)

This button is used for adjusting operation without remote control unit.

Wireless Remote Control

Infrared Remote Control

Name and function of buttons

1. Infrared Signal Transmitter

Transmits the signal to indoor unit.

2. POWER Button

Press this button to start unit operation.

Press this button again to stop unit operation.

3. Temperature Setting Button

TEMP \wedge : Press this button to increase the set temperature.

TEMP \vee : Press this button to decrease the set temperature.

4. FAN SPEED Button

Press this button to select fan speed.

5. MODE Button

Press this button to select system operation mode. In cooling only system, a mode is selected in sequence as FAN, COOL, DRY, and back to FAN.

6. LOUVER Button

Press this button to adjust blade direction.

7. SWEEP Button

Press this button to activate or inactivate sweep motor to distribute air flow.

8. FRONT BLADE Button

Press this button to activate or inactivate front blade function.

9. ON TIMER Button

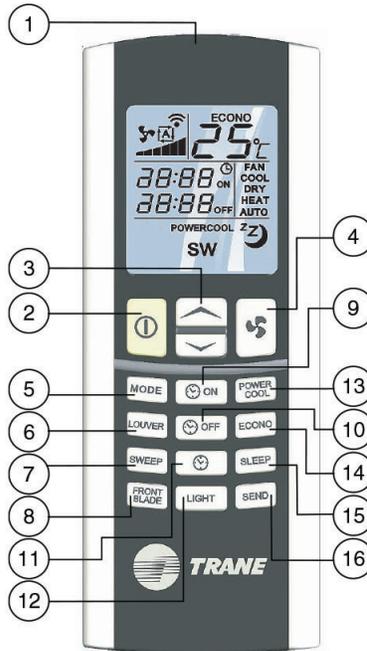
Press this button to set the on timer of the unit operation.

10. OFF TIMER Button

Press this button to set the off timer of the unit operation.

11. CLOCK Button

Press this button to set the clock to the present time or see the present time after ON or OFF TIMER was set.



12. LIGHT Button

Press this button to turn on the LCD light.

13. POWERCOOL Button

Press this button to accelerate capacity up.

14. ECONO Button

Press this button to save energy.

15. SLEEP Button

Press this button to control temperature while sleeping and press this button again to cancel.

16. SEND Button

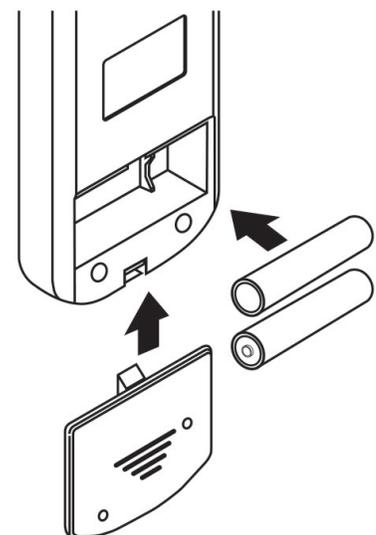
Press this button to confirm the operation of the unit according to the LCD display or press and hold for 5 seconds to toggle temperature unit between Celsius and Fahrenheit.

slot. Be sure that the + and - directions are correct.

3. Fix the back cover to the remote control as before.

Attentions

- Batteries can be used approximately for one year under normal conditions.
- Always replace an identical type of two batteries at the same time.
- Do not use manganese dry batteries since they may cause a malfunction.
- Do not use rechargeable (Ni-Cd) batteries, because such batteries may differ from standard dry cell batteries in shapes, dimensions, or performance.
- Take out all batteries if you are not going to use the air-conditioner for a long period of time.

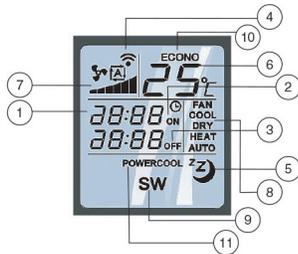


Installation of Batteries

1. Slide the back cover of the remote control down to take it off.
2. Insert two dry batteries into the

Wireless Remote Control

Indicators on Infrared Remote Control



1. CLOCK

Displays present time.

2. ON TIMER

Display ON TIMER when ON TIMER is set.

3. OFF TIMER

Display OFF TIMER when OFF TIMER is set.

4. Transmission Indicator

The transmission indicator lights when remote control transmits signal to the indoor unit.

5. SLEEP Mode

Display sleep symbol after activating SLEEP mode.

6. Set Temperature

Displays the set temperature (15°C to 30°C) when FAN or POWERCOOL mode is selected. The set temperature will be disappeared until FAN or POWERCOOL mode is cancelled or complete.

7. FAN Speed

Display the selected fan speed level: auto, low, medium, or high.

8. Operation Mode

Displays the current operation mode: FAN, COOL, or DRY in cooling only system.

9. SWEEP Function

Displays “SW” when sweep motor is activated.

10. ECONO Mode

Displays “ECONO” when ECONO mode is activated.

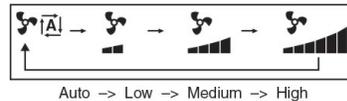
11. POWERCOOL Mode

Displays “POWERCOOL” when POWERCOOL mode is activated.

Operation Mode

FAN Mode

- Press Mode button to select the operation mode.
- “FAN” will be shown on the display when FAN mode is selected.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



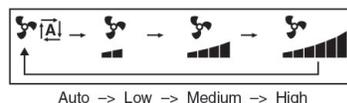
Auto, Low, Medium, and High respectively

Note:

- In FAN mode, the LCD display will not show set temperature and cannot adjust set temperature, SLEEP, ECONO, and POWERCOOL mode.

COOL Mode

- Press Mode button to select the operation mode.
- “COOL” will be shown on the display when COOL mode is selected.
- Press either \wedge or \vee button to set the desired temperature between 15°C to 30°C.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



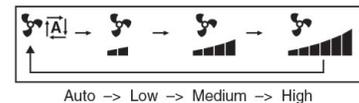
Auto, Low, Medium, and High respectively

DRY Mode

- Press Mode button to select the operation mode.
- “DRY” will be shown on the display when DRY mode is selected.
- Press either \wedge or \vee button to set

the desired temperature between 15°C to 30°C.

- Press FAN SPEED button to select the desired fan speed level and the display will show.



Auto, Low, Medium, and High respectively

Note:

- In DRY mode, if the compressor stops working, fan motor and SWEEP function will be stopped; fan motor and SWEEP function will operate when compressor operates.
- SWEEP function will be cancelled whenever LOUVER function is selected.
- ECONO mode cannot be activated during DRY mode operation.

CLOCK Setting

- Press CLOCK button to set clock and \odot will be shown on the display with blinking hour number.
- Press either \wedge or \vee button to set the clock to the present hour.
- Press CLOCK button again to confirm hour setting and minute number will be blinking.
- Press either \wedge or \vee button to set the clock to the present minute.
- Press CLOCK button again to confirm minute setting; hour and minute number will stop blinking and the set time will be shown on the display.

Note:

- If there are no other buttons pressed within 15 seconds, clock setting will be cancelled.
- User can confirm CLOCK setting during CLOCK setting process by pressing SEND button.

Wireless Remote Control

Timer Operation

Once you select the timer operation, the settings are saved in the remote control. Thereafter, the air-conditioner will start operating under the same conditions when you simply push the POWER button on the remote control.

ON TIMER Setting

You can set ON TIMER to start the unit automatically at any desired time up to 24 hours as real time.

- Press ON TIMER button. ON symbol will be shown on the display with blinking hour number.
- Press either \wedge or \vee button to set the desired hour.
- Press ON TIMER button again to confirm hour setting and minute number will be blinking.
- Press either \wedge or \vee button to set the desired minute.
- Press ON TIMER button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for starting air-conditioner automatically at the set time.
- To cancel ON TIMER, press ON TIMER button again.

Note:

- The user can confirm ON TIMER during ON TIMER setting process by pressing SEND button.
- If there are no other buttons pressed within 15 seconds, ON TIMER will be cancelled, and the LCD display will return to show clock.
- After pressing ON TIMER button, the LCD display will show the last on timer set by user with blinking hour number.
- When ON/OFF TIMER is set, the present time is not displayed.
- Press CLOCK button to see present time after ON/OFF TIMER was set. The LCD display will show present time about 15 seconds and return to

show ON/OFF TIMER. If user press CLOCK button during the 15 seconds display of present time, the operation will be CLOCK setting and return to ON/OFF TIMER.

- In case of power failure, ON TIMER will be automatically cancelled as there is no electricity in the air-conditioner; however, the set time on the remote control is still displayed due to batteries. The user has to cancel and set ON TIMER again or press SEND button to reactivate ON TIMER when the electricity is back to normal conditions.

OFF TIMER Setting

You can set OFF TIMER to stop the unit automatically at any desired time up to 24 hours as real time.

- Press OFF TIMER button. OFF symbol will be shown on the display with blinking hour number.
- Press either \wedge or \vee button to set the desired hour.
- Press OFF TIMER button again to confirm hour setting and minute number will be blinking.
- Press either \wedge or \vee button to set the desired minute.
- Press OFF TIMER button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for stopping airconditioner automatically at the set time.
- To cancel OFF TIMER, press OFF TIMER button again.

Note:

- The user can confirm OFF TIMER during OFF TIMER setting process by pressing SEND button.
- If there are no other buttons pressed within 15 seconds, OFF TIMER will be cancelled, and the LCD display will return to show clock.
- After pressing OFF TIMER button, the LCD display will show the last off timer set by user with blinking hour number.

- When ON/OFF TIMER is set, the present time is not displayed.
- Press CLOCK button to see present time after ON/OFF TIMER was set. The LCD display will show present time about 15 seconds and return to show ON/OFF TIMER. If user press CLOCK button during the 15 seconds display of present time, the operation will be CLOCK setting and return to ON/OFF TIMER.
- In case of power failure, OFF TIMER will be automatically cancelled as there is no electricity in the air-conditioner; however, the set time on the remote control is still displayed due to batteries. The user has to cancel and set OFF TIMER again or press SEND button to reactivate OFF TIMER when the electricity is back to normal conditions.

POWERCOOL Mode

POWERCOOL mode rapidly maximizes the cooling capacity in COOL or DRY mode. With this simply mode, the user can easily get the maximum cooling capacity and comfort.

- Press POWERCOOL button. "POWERCOOL" will be shown on the display.
- The air-conditioner will accelerate capacity up totally 20 minutes or until room temperature is lower than 18°C.
- When POWERCOOL mode completely operates or is cancelled, "POWERCOOL" will be disappeared from the display and return to the former settings before POWERCOOL mode.
- To cancel POWERCOOL mode, press POWERCOOL or MODE button again.

Note:

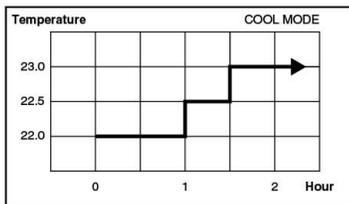
- The LCD display will not show fan speed and set temperature.
- Fan speed and set temperature cannot be changed while POWERCOOL mode is selected.
- In case of power failure, POWERCOOL mode will be automatically cancelled.

Wireless Remote Control

SLEEP Mode

SLEEP mode automatically and gradually adjusts room temperature to provide great comfort during your rest.

- Press SLEEP button,  will be shown on the display.
- After one hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5°C.
- After one and half hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5°C again and  on the display will disappear.
- To cancel SLEEP mode, press SLEEP mode button again.



Note:

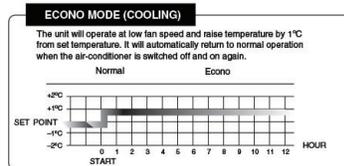
- Set temperature shown on the display still show the setting without 1°C added/reduced but it will plus/minus 1°C in the memory.
-  will disappear from the LCD display when SLEEP mode completely operates, after one and half hours, or is cancelled.
- In case of power failure, SLEEP mode will be automatically cancelled.

ECONO Mode

ECONO mode drastically saves energy with high efficient cooling capacity in COOL mode by reducing power consumption. With this simply mode, the user can easily get energy saving and comfort.

- Press ECONO button. "ECONO" will be shown on the display.
- The air-conditioner will operate at low fan speed and raise temperature by 1°C from set temperature.

- To cancel ECONO mode, press ECONO or MODE button again.



Note:

- ECONO mode operates only in COOL mode and automatically operates when air-conditioner is closed without exiting or canceling ECONO mode.
- Fan speed can not be changed while ECONO mode is selected.

SWEEP Function

SWEEP function swiftly distributes air flow and helps provide better air circulation in the room with comfortable cooling.

- Press SWEEP button, "SW" will be shown on the display.
- The air-conditioner will automatically sweep the supply air grille back and forth.
- To cancel SWEEP function, press SWEEP or LOUVER button again.

Note:

- The supply air grille will be fully closed when the unit is off.
- The supply air grille will be fully opened when the unit is on.
- The supply air grille will automatically stop sweeping when compressor stops operating and reactivate SWEEP function once compressor becomes operating.
- SWEEP function is available only from 12,000 to 36,000 Btu/h.

LOUVER Function

LOUVER function provides you 5 levels of air flow direction as your desire with comfortable cooling.

- Press LOUVER button to select the desired air flow direction.

Note:

- SWEEP function will be cancelled in case LOUVER is selected.
- LOUVER function is available only from 12,000 to 36,000 Btu/h.

FRONT BLADE Function

FRONT BLADE function offers you the optional supply air grille increasing air flow direction and circulation with comfortable cooling or heating.

- Press FRONT BLADE button to open or close front supply air grille.

Note:

- The front supply air grille will automatically open when air conditioner is closed without closing FRONT BLADE function during the operation.
- FRONT BLADE function is available only from 12,000 to 36,000 Btu/h.

LIGHT Button

LIGHT button offers you the optional feature to lighten the LCD display at any time as you desire.

- Press LIGHT button to lighten the LCD display for 5 seconds.

Note:

- Whenever you press any button from 6.00 pm to 6.00 am, the LCD display will automatically be lightened.

SEND Button

SEND button offers you the optional feature to activate or confirm the operations shown on the LCD display.

- Press SEND button to activate or confirm the operations shown on the LCD display.

Note:

- Whenever you press any button from 6.00 pm to 6.00 am, the LCD display will automatically be lightened.

°C/°F Toggle

The optional feature offers you to change the temperature display from °C to °F or from °F to °C.

- Press and hold SEND button for 5 seconds to change temperature display.

Digital Wired Control

Name and function of buttons

1. Infrared Signal Receiver

Receives the signal from handheld remote control and transmits the signal to indoor unit.

2. POWER Button

Press this button to start unit operation.
Press this button again to stop unit operation.

3. Temperature Setting Button

TEMP \wedge : Press this button to increase the set temperature.
TEMP \vee : Press this button to decrease the set temperature.

4. MENU Button

Press this button to select modes or functions in the menu.

5. MODE Button

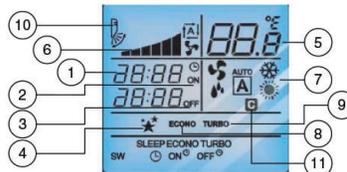
Press this button to select system operation mode. In cooling only system, a mode is selected in sequence as FAN, COOL, DRY, and back to FAN.

6. FAN SPEED Button

Press this button to select fan speed.



Indicators on Digital Wired Control



1. CLOCK

Displays present time.

2. ON TIMER

Display ON TIMER when ON TIMER is set.

3. OFF TIMER

Display OFF TIMER when OFF TIMER is set.

4. SLEEP Mode

Display sleep symbol after activating SLEEP mode.

5. Room & Set Temperature

- Displays the room temperature. When FAN or TURBO mode is selected, the room temperature will be disappeared until FAN or TURBO mode is cancelled or complete.
- Displays the set temperature (15°C to 30°C) when either \wedge or \vee button is pressed.

6. FAN Speed

Display the selected fan speed level: auto, low, medium, or high.

7. Operation Mode

Displays the current operation mode: FAN, COOL, or DRY in cooling only system.

8. ECONO Mode

Displays "ECONO" when ECONO mode is activated.

9. TURBO Mode

Displays "TURBO" when TURBO mode is activated.

10. SWEEP Function

Displays sweep symbol when sweep motor is activated.

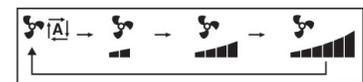
11. Compressor Status Indicator

Displays compressor status.

Operation Mode

FAN Mode

- Press Mode button to select the operation mode.
-  will be shown on the display when FAN mode is selected.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



Auto -> Low -> Medium -> High

Auto, Low, Medium, and High respectively

Note:

- In FAN mode, the LCD display will not show set temperature and cannot adjust set temperature, SLEEP, ECONO, and TURBO mode.

COOL Mode

- Press Mode button to select the operation mode.
-  will be shown on the display when COOL mode is selected.
- Press either \wedge or \vee button to set the desired temperature between 15°C to 30°C.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



Auto -> Low -> Medium -> High

Auto, Low, Medium, and High respectively

Digital Wired Control

DRY Mode

- Press Mode button to select the operation mode.
-  will be shown on the display when DRY mode is selected.
- Press either \wedge or \vee button to set the desired temperature between 15°C to 30°C.
- Press FAN SPEED button to select the desired fan speed level and the display will show.



Auto, Low, Medium, and High respectively

Note:

- In DRY mode, if the compressor stops working, fan motor and SWEEP function will be stopped; fan motor and SWEEP function will operate when compressor operates.
- ECONO mode can not be activated during DRY mode operation.

CLOCK Setting

- Press MENU button and select CLOCK setting by pressing either $>$ or $<$.
- Press MENU button again to set clock and  will be shown on the display with blinking hour number.
- Press either \wedge or \vee button to set the clock to the present hour.
- Press MENU button again to confirm hour setting and minute number will be blinking.
- Press either \wedge or \vee button to set the clock to the present minute.
- Press MENU button again to confirm minute setting; hour and minute number will stop blinking and the set time will be shown on the display.

Note:

- If there are no other buttons pressed within 15 seconds, clock setting will be cancelled.

Timer Operation

Once you select the timer operation, the settings are saved in the control. Thereafter, the air-conditioner will start operating under the same conditions when you simply push the POWER button on the control.

ON TIMER Setting

You can set ON TIMER to start the unit automatically at any desired time up to 24 hours as real time.

- Press MENU button and select ON TIMER setting by pressing either $>$ or $<$.
- Press Menu button again to set ON TIMER and ON symbol will be shown on the display with blinking hour number.
- Press either \wedge or \vee button to set the desired hour.
- Press MENU button again to confirm hour setting and minute number will be blinking.
- Press either \wedge or \vee button to set the desired minute.
- Press MENU button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for starting air-conditioner automatically at the set time.
- To cancel ON TIMER, select ON TIMER setting and press MENU button again.

Note:

- If there are no other buttons pressed within 15 seconds, ON TIMER will be cancelled, and the LCD display will return to show clock.
- After selecting ON TIMER setting, the LCD display will show the last on timer set by user with blinking hour number.
- When ON/OFF TIMER is set, the present time is not displayed.
- In case of power failure, ON TIMER will be automatically cancelled as there is no electricity in the air-conditioner.

OFF TIMER Setting

You can set OFF TIMER to start the unit automatically at any desired time up to 24 hours as real time.

- Press MENU button and select OFF TIMER setting by pressing either $>$ or $<$.
- Press Menu button again to set OFF TIMER and OFF symbol will be shown on the display with blinking hour number.
- Press either \wedge or \vee button to set the desired hour.
- Press MENU button again to confirm hour setting and minute number will be blinking.
- Press either \wedge or \vee button to set the desired minute.
- Press MENU button again to confirm minute setting. Hour and minute number will stop blinking. The unit is now standby for starting air-conditioner automatically at the set time.
- To cancel OFF TIMER, select OFF TIMER setting and press MENU button again.

Note:

- If there are no other buttons pressed within 15 seconds, OFF TIMER will be cancelled, and the LCD display will return to show clock.
- After selecting OFF TIMER setting, the LCD display will show the last off timer set by user with blinking hour number.
- When ON/OFF TIMER is set, the present time is not displayed.
- In case of power failure, OFF TIMER will be automatically cancelled as there is no electricity in the air-conditioner.

TURBO Mode

TURBO mode rapidly maximizes the cooling capacity in COOL or DRY mode. With this simply mode, the user can easily get the maximum cooling capacity and comfort.

- Press MENU button and select TURBO mode setting by pressing either $>$ or $<$.
- The air-conditioner will accelerate capacity up totally 20 minutes or until room temperature is lower than 18°C.

Digital Wired Control

- When TURBO mode completely operates or is cancelled, "TURBO" will be disappeared from the display and return to the former settings before TURBO mode.
- To cancel TURBO mode, either press MODE button or select TURBO mode and press MENU button again.

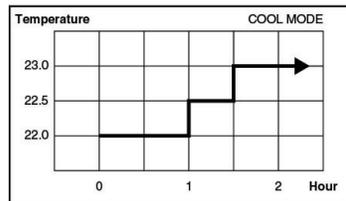
Note:

- The LCD display will not show fan speed and set temperature.
- Fan speed and set temperature cannot be changed while TURBO mode is selected.
- In case of power failure, TURBO mode will be automatically cancelled.

SLEEP Mode

SLEEP mode automatically and gradually adjusts room temperature to provide great comfort during your rest.

- Press MENU button and select SLEEP mode by pressing either > or <.
- Press Menu button again to confirm SLEEP mode. ★ will be shown on the display.
- After one hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5°C.
- After one and half hour operation of SLEEP mode, the unit will automatically raise set temperature by 0.5°C again and ★ on the display will disappear.
- To cancel SLEEP mode, either press MODE button or select SLEEP mode and press MENU button again.



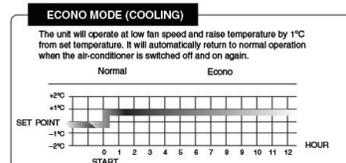
Note:

- Set temperature shown on the display still show the setting without 1°C added/reduced but it will plus/minus 1°C in the memory.
- ★ will disappear from the LCD display when SLEEP mode completely operates, after one and half hours, or is cancelled.
- In case of power failure, SLEEP mode will be automatically cancelled.

ECONO Mode

ECONO mode drastically saves energy with high efficient cooling capacity in COOL mode by reducing power consumption. With this simply mode, the user can easily get energy saving and comfort.

- Press MENU button and select ECONO mode by pressing either > or <.
- Press MENU button again to confirm ECONO mode. "ECONO" will be shown on the display.
- The air-conditioner will operates at low fan speed and raise temperature by 1°C from set temperature.
- To cancel ECONO mode, either press MODE button or select ECONO mode and press MENU button again.



Note:

- ECONO mode operates only in COOL mode and automatically operates when air-conditioner is closed without exiting or canceling ECONO mode.
- Fan speed cannot be changed while ECONO mode is selected.

SWEEP Function

SWEEP function swiftly distributes air flow and helps provide better air circulation in the room with comfortable cooling or heating.

- Press MENU button and select SWEEP function by pressing either > or <.
- Press MENU button again to confirm SWEEP function. ⏏ will be shown on the display.
- The air-conditioner will automatically sweep the supply air grille back and forth.
- To cancel SWEEP function, select SWEEP function and press MENU button again.

Note:

- The supply air grille will be fully closed when the unit is off.
- The supply air grille will be fully opened when the unit is on.
- The supply air grille will automatically stop sweeping when compressor stops operating and reactivate SWEEP function once compressor becomes operating.
- SWEEP function is available only from 12,000 to 36,000 Btu/h.

°C/°F Toggle

The optional feature offers you to change the temperature display from °C to °F or from °F to °C.

- Press and hold both ^ and v button for 5 seconds to change temperature display.

System Operation

System Features

1. Watchdog

There is a circuit in the system to watch the operation of the microprocessor.

2. Compressor Delay Protection

There is a time delay for restarting the compressor.

3. Compressor Minimum on Time

Once the compressor starts, it will operate at least 24 seconds.

4. Non-Volatile Memory (Auto Restart)

If there is a power interruption or failure and back to normal, the control will automatically resume its operation with the same setting parameters except those related to time.

5. Freeze Function

To prevent the indoor coil freezing, this feature will stop compressor when the indoor coil temperature is below 0°C.

6. Defrost Function

This feature will protect the system operating in heat mode under very low ambient temperature.

7. Compressor Status Indicator

This feature is the basic detection of compressor status by showing  on the display while compressor is operating.

Error Code & Display

Error code	Description	LED blinking
Er : 01	Freeze protection	yes
Er : 02	Defrost function	yes
Er : 03	Compressor overload protection	yes
Er : 04	Anti overheat protection	yes
Er : 05	Low ambient protection	yes
Er : 10	Room sensor error	yes
Er : 11	Deice sensor error	yes
Er : 12	Freeze sensor error	yes

Operating Precautions

The air conditioner must be properly installed by a qualified installer in accordance with installation instructions.

Anti-Recycle Timer

- The control system has a built-in 3 minutes anti-recycle timer which helps to preserve the life of system components.
- Anti-recycle timer will operate as circumstances occur while the air conditioner is operating:
 - Temperature setting is adjusted back and forth.
 - ON/OFF switch is turned ON or OFF.
 - Room temperature reaches the set point.
 - Power failure.

Once one of the above conditions occurs, the anti-recycle timer will start preventing the outdoor unit operation for approximately 3 minutes.

Freeze Protection

The system is protected against low indoor coil temperatures. Under certain conditions, the LED indicating the protective function has been activated will blink, together with error code 01 shown on the display. System adjustment is not necessary.

Stop the air conditioner at once if any of the followings occurs:

- The power cord is too hot to be touched by hand.
- The insulation of the power cord is exposed at any point.
- The fuse is blown or circuit breaker trips frequently.
- Malfunction or abnormal situation of the air conditioning system occurs such as a burning smell.
- Do not inspect or service the air conditioner while it is operating. Turn off the power supply before doing any inspection or service work.
- The power cord should be kept away from furniture with sharp corners. It may cause fire or electric shock.

- When the air conditioner will not used for a long time, be sure to turn **OFF** the power supply.

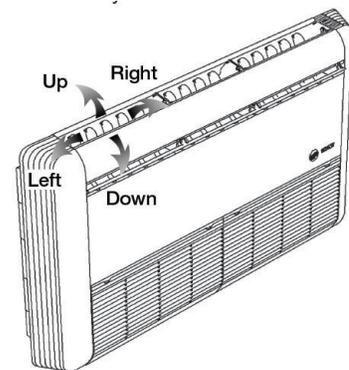
If you have any questions or problems with your air conditioning system, please consult your nearest **Trane** dealer.

Adjust Air Flow Direction

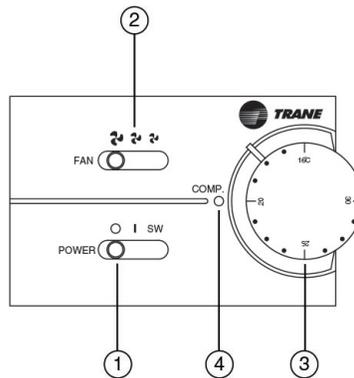
- The supply air grille may be adjusted **left, right, up** or **down** manually.
- Adjust the air flow direction properly, otherwise, it may cause discomfort and make the room temperature uneven.

Adjust Air Flow Direction (with sweep option)

- The sweep motor will sweep the supply air grille **upward** and **downward**.
- For **left** and **right** air flow, the supply air grille can be adjusted manually.



Electronic Room Thermostat



1) Power Button

Push power button to **I** position to turn on the air condition, and push to **O** position to turn off the air condition and push to position to **SW** turn on SWEEP Function.

2) Fan Button

Three fan speed (**high**, **medium**, **low**) can be selected by push the button to the desired position.

3) Temperature Setting

Temperature setting can be set in the range of 16°C 30°C by rotating the temperature setting knob to the position **I**.

4) Compressor Status Indicator

When compressor of the air condition operates, the display lamp will be shown.

Maintenance

Regular Maintenance

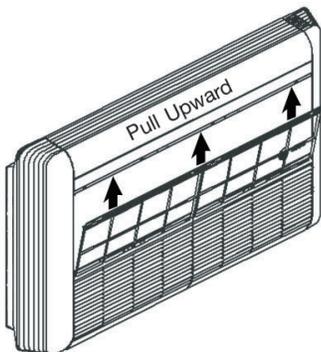
Be sure to disconnect the power before inspection or maintenance of air conditioner.

1. Cleaning the air filter

Air flow is reduced and cooling efficiency impaired if the filter is clogged. Be sure to clean the filter every two weeks during the cooling season.

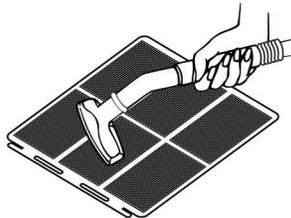
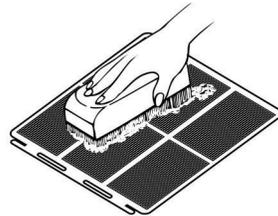
1.1 How to remove the air filters

- Remove each return air grille by pushing down and pulling forward.
- Remove each air filter frame from the return air grille.



1.2 How to clean the air filter

Wash away dust from the air filter with clean water or vacuum it with an electric vacuum cleaner.



Note: Once the air filter is washed, dry it completely before returning it to its original position.

After cleaning, be sure to return it to its original position.

Cautions

- Do not wash the air filter in water that is over 40°C or it may shrink.
- Do not expose the air filter to fire.
- Do not expose the air filter to direct sunlight for a long time.
- Clean the air filter more frequently when the air is very dirty.

2. Cleaning the front panel

Do not pour water directly on the front panel to clean it. Dust or wipe it lightly with a soft cloth. If it is very dirty, use a soft cloth soaked in water or neutral detergent.

Cautions

- Do not use water over 50°C to clean the front panel or it may become discolored.
- Do not use benzine, gasoline, thinner, polishing compound, machine oil, etc. when cleaning the front panel, or paint may peel off, or it may become deformed or damaged.

3. Maintenance before prolonged idle period

- Operate the fan for about half a day to dry the inside of the unit.
- Stop the air conditioner and disconnect the power by turning off the safety breaker.
- Clean the air filter and return it to its original position.

Troubleshooting

Before calling for service, please check the following.

The air conditioner does not operate at all:

- Check if the control ON/OFF switch is "OFF". Turn the switch to ON.
- Check whether the fuse has been blown or circuit breaker thrown. Set the ON/OFF Control Switch to OFF, and turn on the circuit breaker or replace to a new fuse.
- Check whether the power supply is interrupted. Wait until the power is resupplied and then operate the air conditioner.

Cooling is insufficient:

- Check whether the air filter is clogged. Clean it.
- Check whether the thermostat setting is too high. Set the thermostat to lower temperature.
- Check whether windows or doors are opened. If opened, close them.
- Check whether there are sources of heat in the room, cooling is less effective.
- Check whether the return air grille or the supply air grille on the indoor unit and outdoor unit are blocked. If they are blocked, remove obstacles to permit air passage properly.
- Check whether the fan speed is set at low. Set the fan switch from "LOW" to "MED" or "HIGH".



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