



FORD & DOONAN
Air Conditioning Systems®

Operating Instructions

for your Ford & Doonan Ducted System



Congratulations!

Congratulations on your new Ford & Doonan Air Conditioning System. You can rest assured you have received a system of the highest quality, backed by the very best customer service. Before operating the air conditioner, please read this operating manual carefully. It will advise you on how to operate the unit correctly, understand the air conditioner's advanced features and help you in the unlikely event that a problem should occur.

Please keep this manual in a safe place for future reference.

Thank you
for purchasing
Ford & Doonan
Air Conditioning



FORD & DOONAN
Air Conditioning Systems®

Contents

1. Important Safety Instructions	4
2. Zone Operation.....	5
3. Outlets.....	6
4. Maintenance.....	7
5. Common Queries.....	8
6. Performance Expectations	9
7. Performance Tips.....	10-11



Scan to view our Operation Videos on our website or visit fordanddoonan.com.au/operation-videos-and-manuals

1. Important Safety Instructions

Never remove any fixed covers on the indoor or outdoor unit. Removal of the covers may expose fast moving fan blades or electrical components operating at a hazardous voltage. Contact with the blades or high voltage components may result in injury or electric shock.

Never insert any objects into the openings of the indoor or outdoor unit. This may damage the product or result in injury to the person inserting the object.

Do not expose the indoor unit or remote controller to rain or moisture. Water or other fluids on the electrical components may result in fire or electric shock.

Always replace any blown fuse with a fuse of the same specification. The use of the

wrong fuse may allow the electrical wiring to overheat and catch on fire. If the correct type of fuse continues to blow, or the circuit breaker continues to trip, contact Ford & Doonan Service Department.

Never operate the air conditioner without the return air filter(s) in place. Operating the unit without the filter(s) will allow dust to enter the indoor unit and build up on the heat exchanger coil and fan motor. This will cause a malfunction of the unit, which will not be covered by warranty.

This electrical appliance is not intended for use by young children. Young children should be supervised to ensure that they do not play with the outdoor unit.



Main switch

Ensure you are familiar with the location of the main switches for the air conditioning system. These switches are normally located adjacent to the outdoor unit and in the fuse box/switchboard.

If the air conditioner is not going to be used for an extended period of time or you are going away on holidays, the main

switch should be turned off to prevent accidental operation of the air conditioner. When turning the system back on, the main switch must be turned on at least 6 hours before the air conditioner is operated to warm up the compressor. Failure to do so may result in damage to the compressor, which will not be covered by warranty.

2. Zone Operation

Applicable when your new system has zones fitted

- For operational instructions please refer to the attached sub manual (if applicable).
- It is possible to run all zones at the same time, however, the system will not be running very efficiently.
- You may operate two or more zones at once, depending on the capacity of your unit, design and heat load. For example, under maximum heat load (a hot day) it is better to have fewer zones on than under a low heat load (at night) when an extra zone may be turned on.
- We recommend turning on the living areas during the day and closing any bedrooms and other zones that are not needed. At night it is best to turn off any living areas and keep the bedroom zones open. This will allow the best efficiency of the system.
- The zones can take up to 2 minutes to open or close.
- If some zones do not have enough air flow check how many zones are open. Close off any zones that are not needed and see if air flow increases.



3. Outlets

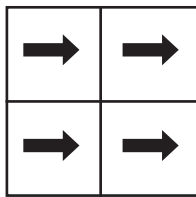
Multi-Directional outlets

Multi-Directional outlets (if applicable) are designed to give maximum adjustment to airflow. Each of the four cores (called louvre panels) is adjustable by lifting and turning to direct air from one direction to another. For the distribution of cool air, the louvre panels are set to deflect air horizontally across the ceiling. For high ceilings and heating systems the louvre panels are adjusted to achieve 40% downward flow. For spot cooling and heating, the louvre panels oppose each other for a vertical down airflow. The outlets can be manually closed during winter if the

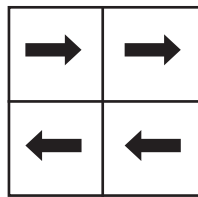
system is not used for heating, although this is not a necessity.

Sidewall registers

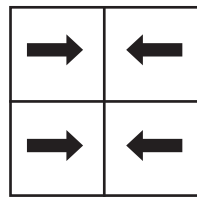
Sidewall registers (if applicable) have vertical and horizontal blades that are adjustable. The blades are manufactured not to rattle. Any adjustments are required to be done with the assistance of long nose pliers with insulation tape wrapped around the ends so the paint of the register is not damaged. Gently move the blades to the desired position.



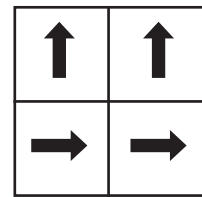
ONE WAY



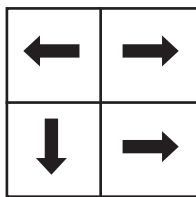
TWO WAY



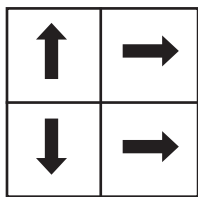
TWO WAY



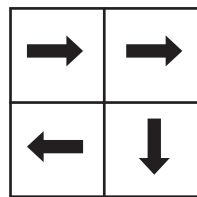
TWO WAY



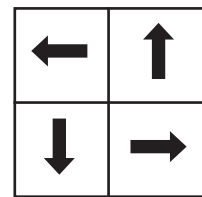
THREE WAY



THREE WAY



THREE WAY



FOUR WAY



4. Maintenance

1. Cleaning the air filter

If you have a clean air filter pack, please call your Ford & Doonan store to purchase a replacement filter. We recommend replacing the filter every 12 months, if you have allergies or pets, we recommend replacing the filter every 6 months.

To clean your filter, remove the filter, hose it down and leave it a couple of hours to dry. Once this is done do not forget to press the filter reset button on your air conditioning controller.

2. Cleaning the outside panel

Cleaning of the outside panel is easy, by using a soft cloth or a cloth dampened by a neutral detergent solution. Never use paint thinner, other chemical products, or polishing powder when cleaning the outside panel. A good quality car polish can be applied to the painted surfaces to increase the paint's durability.

3. When the unit is not being used for an extended period

- Switch off the main power switch.

- Rust preventative coating has been applied to the outside cover. If corroded, repair by painting.
- Clean the condenser to remove dust and excess waste (leaves, paper, etc.).

4. Maintenance service contract recommended

To ensure your system delivers cool, fresh air throughout the year and that your warranty is valid, it's essential you maintain it regularly. Preventative maintenance by qualified technicians has been proven to reduce the risk of failure of plant and equipment and maintain the efficiency of the overall installation.

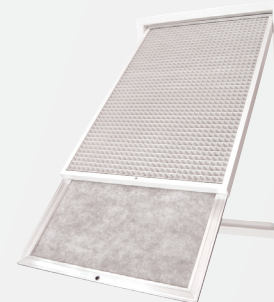
Servicing by a qualified Ford & Doonan technician is recommended. For domestic operation of the air conditioning system we recommend an annual service. If equipment is subjected to heavy use a bi-annual service frequency is desirable.

Contact your Service Department (9331 8800) to set up automatic service reminders and ask about our three year service packages at a reduced cost.

We recommend replacing your disposable filter every 12 months



DISPOSABLE filter



WASHABLE filter

5. Common Queries

If the air conditioning is not running or the cooling effect cannot be achieved as desired, check the following points before requesting repair or service.

If the air conditioner does not function please check the following:

Is the power switched ON?

Has the power fuse failed?

Is power supplied?

Has the circuit breaker tripped?

Is the temperature indicator set in the correct operating position, or to a position which is too high for the cooling operation?

How to perform a reboot of your air conditioning system

Before calling the Service Department please perform a reset of your air conditioning system. As any electrical appliance, power dropouts or surges can interrupt the operation of the system. In most cases a reboot is all that is required. In case the system has never been used before, make sure that the main switch has been turned on for at least 6 hours before using the air conditioning unit.

Locate the isolator switch at the outdoor unit. It is a big white switch at the outdoor unit. Turn it off and wait 3 minutes before turning it back on.

If the system does not reboot, or the fault still appears please call the Ford & Doonan Service Department.

Not cooling or heating as desired please check the following:

Is the thermostat set to the proper position to heating or cooling?

Is there an obstruction near the air intake or outlet port?

Is the air filter free from clogging by dust, dirt, etc.?

Are doors and windows completely closed?

Smoke coming from outdoor unit?

In cold weather you may see what appears to be smoke coming from the unit. This is just steam being released when the unit is in de-ice mode. Further you may notice the unit icing up and appearing frozen. This is normal as long as the system completes a de-ice cycle.

“Filter clean” displays

If a small tap or spanner symbol appears, this indicates it is time to clean or replace the filter. Press this switch to reset and clear the symbol once you have cleaned or replaced the filter. Please see Maintenance for more information on how to clean your filter. If the spanner symbol appears with a fault code, it is advising you of a problem and you will need to contact your Service Department.

Faults:

If the **“CHECK”** indicator starts flashing, this means there is a fault at hand.

In this case, or if fault codes appear, please call your Service Department with the fault code, explain the problem and they will be able to assist with the issue.

6. Performance Expectations

Hot weather

Heat load calculations and manufacturers capacity ratings are based on an outside temperature of 36°C. When the temperature exceeds this, the performance of your air conditioner will fall away the hotter it gets and room temperatures will increase accordingly.

Cold weather

Heat load calculations and manufacturers capacity ratings are based on an outside temperature of 7°C. When the temperature is lower than this, the performance of your air conditioner will fall away the colder it gets and room temperatures will decrease accordingly. The above conditions do occur in Perth and there will be nothing wrong with your air conditioning unit when it happens.

Heating performance

Hot air rises and the room temperatures at different levels will be different. It is normal that some parts of the room will be warmer than others. The same applies on cooling mode but to a lesser degree.

Return air

Your system will usually be designed with one only return air grille. The area around the return air grille will always be drafty, and in Winter, always much cooler than the rooms. This is why we select hallways or other “non occupied rooms”. You will have to leave any room’s entry door ajar to allow the conditioned air to come back to the grille. You cannot close the door as performance will be affected. We have options to overcome these situations, so please discuss this with your consultant.

Zones

If we have installed zones, then they cannot all be turned on together without effecting performance. On low load days or nights your air conditioner can handle a larger area at one time. Your air conditioner can only handle the percentage of the home we mention in our letter at typical design temperatures. Turning on less zones will effectively increase the available capacity you have.



7. Performance Tips

1. Temperature setting on your air conditioning unit

We recommend that in summer you set the cooling cycle at 24 degrees and in Winter the heating at 21 degrees. On very hot days (above 36 degrees) or cold days (below 7 degrees) one can increase the temperature in Summer and decrease in Winter, to keep the efficiency of the air conditioning.

2. To keep the comfortable temperature without extra heat loading

The easiest solution to start your air conditioner earlier in the day by using your timer setting. On hot days start the air conditioner before your heat load increases so the air conditioner can get a head start. On cold days start the air conditioner whilst it is still warm outside (above 12-15°C). This will let the air conditioner deliver maximum capacity before performance falls away. If your system has zones (residential only) reduce the number of zones turned

on when the external conditions are extreme. The smaller the area being air conditioned, the better it can cope.

3. Close doors of rooms that are not being air conditioned

When operating an air conditioning system that utilises the zoning technique, remember the system has only a certain capacity, therefore the idea is to air condition the areas you are occupying at the time. With this in mind, it becomes prudent to habitually close the doors that lead to a non air conditioned area, thereby reducing the total area being subjected to air conditioning. This will enhance the effectiveness of the machine.

4. Allow air flow to return air grille

You will notice that the larger return air grill is normally located in a central position in the building. It is important to encourage the airflow towards this grille. This grille is drawing the total air capacity of the system through it and therefore



requires unrestricted airflow. Depending upon the building, you may need to open or close doors around this area to keep the air flowing to this grille.

5. Regular cleaning of the filter is important

The return air grille in most cases also contains an air filter. This air filter, depending on the system usage and other air quality factors, will need to be cleaned regularly. To do this, simply open the grille and slide out the filter. In most cases it is best to hose the filter clean, although some people prefer to vacuum the filter. Remember, regular cleaning of the filter will improve the system efficiency.

6. Clean outdoor unit and surroundings

The condensing or outdoor unit is located in a position to best suit the building and the occupants. It is important to maintain cleanliness around the unit, for example sweeping away any build-up of leaves or general flotsam. It is critical to not inhibit the airflow coming from the condenser, therefore general garden paraphernalia or other equipment should never be

stacked on or lent against the condenser. Similarly if a garden is developing around the condenser, this can be an advantage as some of the sound from the condensing unit will be absorbed, although a robust bush can block the air flow so consideration should be given to this. It is also imperative to keep the condensing unit accessible for servicing purposes.

7. Sizing of equipment

When we recommend a unit we have completed a heat load calculation on the area. We have assumed the following:

- Curtains will be drawn closed in both sunny Summer days and at night in Winter.
- Ceiling insulation has been installed directly above your ceiling (not just anti-con or sisalation)
- Doors and windows will be left closed.

If any of the above changes, your air conditioner may not be large enough to maintain acceptable room temperatures.

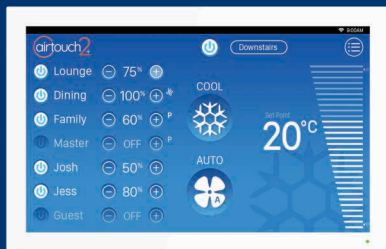
airtouch₂⁺



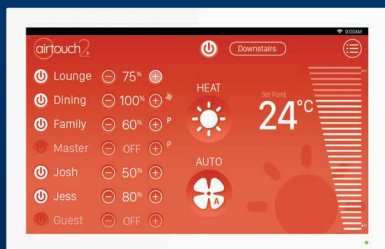
User Manual

airtouch.net.au

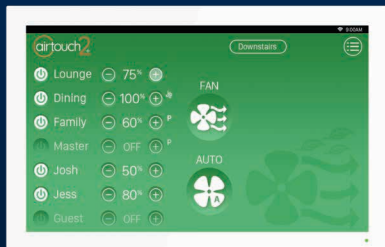
COOL



HEAT



FRESH /FAN



Modes and functions available depend on your Air Conditioning Unit.

Contents

Getting Started

Quick Start	2-3
Quick Menu & Controls	4-5
Adjusting Airflow for a Zone	6
Away Function	7
Setting the AC Timer	8-9
Setting a Program	10-11
Turbo Zone	12-13
Setting up Favorites	14-15
Sleep Function	16
AirTouch App	17

Advanced System Settings

Naming Your Zones	20
Screen Lock	21
Owner's Name	22
Balancing & Grouping Tables	23
WiFi & Internet Setup	24-25

Quick Start - Console

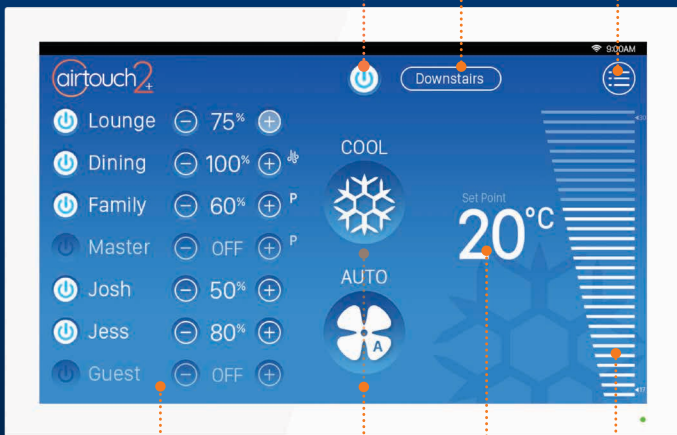
Unit Selection

(Select to switch to other units if available)

AC Unit On/Off Button

(Hold down to set Quick Timer, or turn on Away/Sleep Function)

Quick Menu Button



Zone Name & Airflow Percentage

Adjust with **+** and **-** buttons
To rename your Zones see page 20.

Set Point Temperature

Slider
To change the temperature

Mode & Fan Speed Control

Cool, Fresh, Heat, Dry & Auto
(Depends on unit)

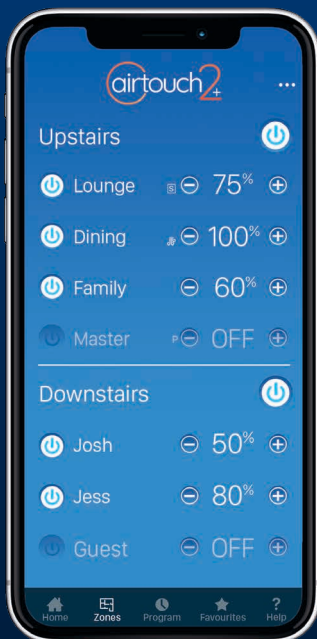
Quick Start - Mobile App

Home Screen



Some Settings & Zone names setup on the AirTouch Console will be replicated in the App.

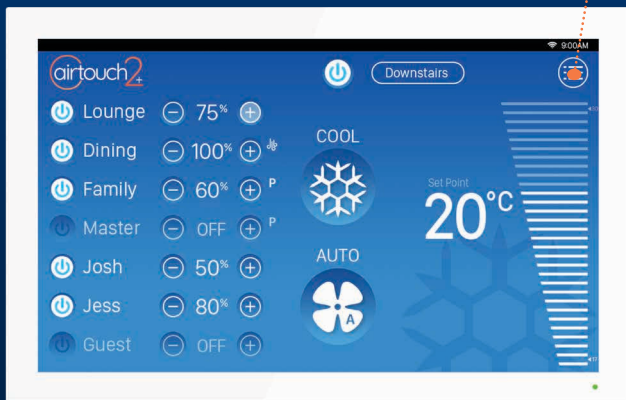
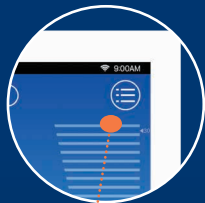
Zones Screen



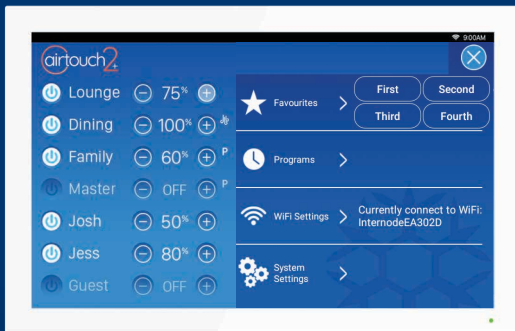
Quick Menu & Controls

You can access common AirTouch features using the Quick Menu.

- 1 Access the **Quick Menu** by tapping on the menu icon ☰ in the top right.

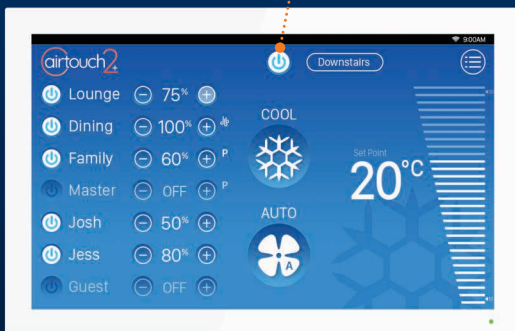


Inside the Quick Menu



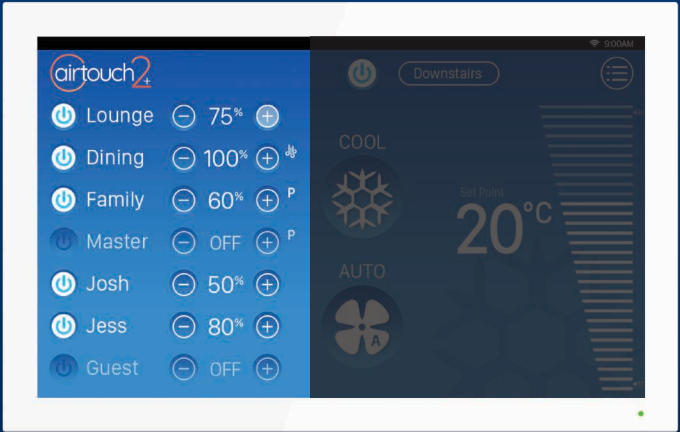
Turn On/Off AC

To turn On or Off the AC tap the **Power** button.



Adjusting Airflow for a Zone


Use the ⊕ and ⊖ buttons next to the zone names to increase or decrease the air flow in 5% increments.

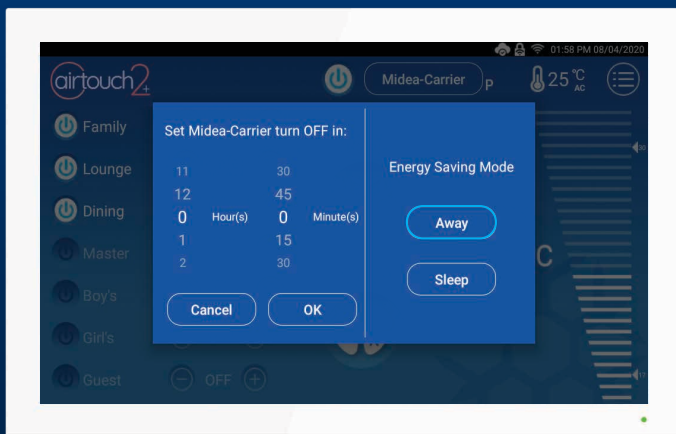


Your zone names are on the left of the home screen.

Away Function

Efficiently make sure home doesn't get too warm or too cold while no one is home.

- 1 Press and hold the **AC On/Off Button**.
- 2 Press **Away**. The Away icon will appear in the top status bar. 



- 3 To cancel Away Mode, press the **Away** button a second time, or adjust the Mode, Fan Speed or Temperature.

NOTE:

Only available on COOL, HEAT, or DRY Mode. When activated, the system will monitor the ambient temperature. When it approaches -1 of the upper limit (Cool) or +1 of lower limit (Heat), the system will turn On the AC. If the ambient temperature approaches -3 of the upper limit (Cool) or +3 of lower limit (Heat), the system will turn off.

Setting the AC Timer



The AC Timer function is useful for automatically switching the AC on or off at a given time.

Quick Timer

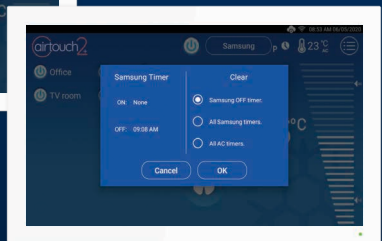
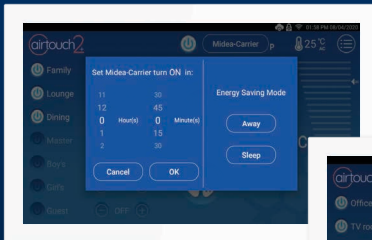
Setting the Quick Timer from the Home screen to Turn ON or OFF the Air Conditioning at a chosen time (up to 12 hours)

Turn ON Timer


To Set a Quick Timer to **Turn On the Air Conditioning** when the unit is currently off, Tap and Hold the Power Button and scroll to select your desired **On Time**. The On AC timer icon will appear below the power button.

Turn OFF Timer

To Set a Quick Timer to **Turn Off the Air Conditioning** when the unit is currently on, Tap and Hold the Power Button and scroll to select your desired **Off Time**. The Off AC timer icon will appear below the power button.

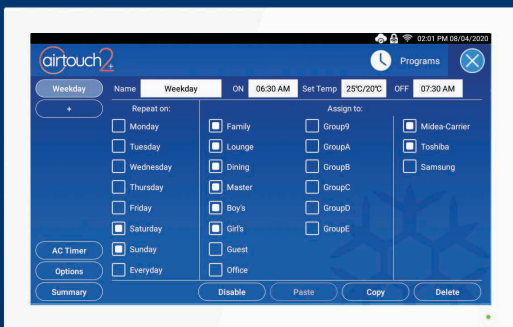


Remove Timer

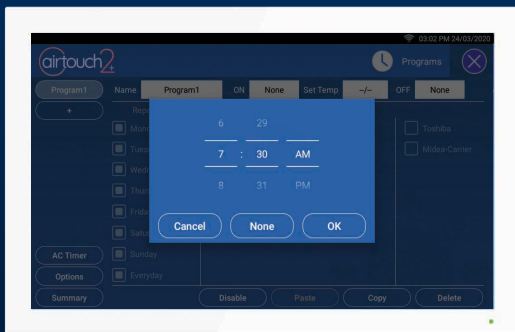
Touch  near the AC home to bring up Timer Setting dialogue. Choose the timer to be removed and touch **Confirm** button to finish.

Advanced Unit Timer Functions

- 1 Open the **Quick Menu** and select **Programs**.



- 2 Tap **AC Timer** to load the Time Wheel, and choose the time for each operation. When a Timer event is scheduled, a Timer Icon will display on the home screen next to your AC Unit's name.

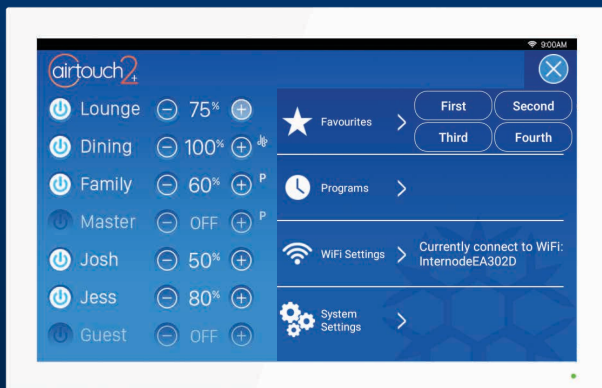


Setting a Program



A more advanced version of the Timer function is the **Program** function, letting you turn the AC ON or OFF and specify a Temperature for your entire house or airflow for individual zones for specific time and day ranges.

- 1 Open the **Quick Menu** and select **Programs**.

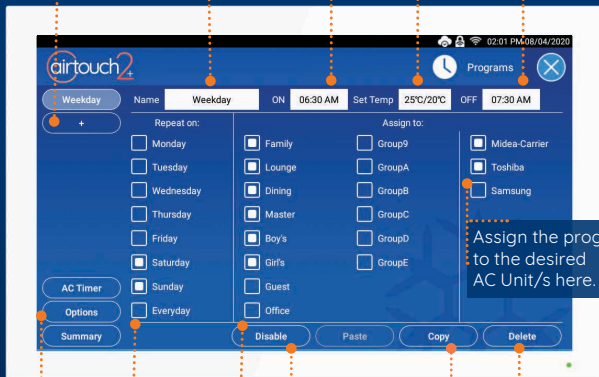


2 Programs

Touch the **+** button to add a program (up to eight programs)

Touch the **Name** area to rename the program

Touch the **On**, **Set Temp** and **Off** areas to set the time and required temperature



Tick the **Days** when the program will be repeated

Tick the **Zones** which will use the program.
A zone can have multiple programs. Touching the zone name will show the programs assigned to it

Use **Delete** button to remove an unused program

Touch **Options** to tick or untick the Linked AC to Groups

Use **Copy** and **Paste** buttons to create new programs which have similar settings

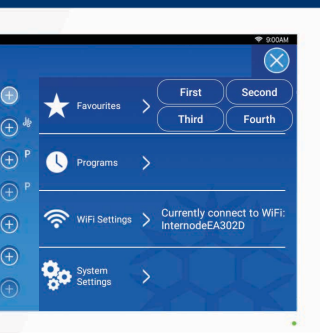
Use **Disable/Enable** button to deactivate/activate the program. When the program is disabled, its settings will be kept in the system but the On/Off action will not be carried out.

Turbo Zone

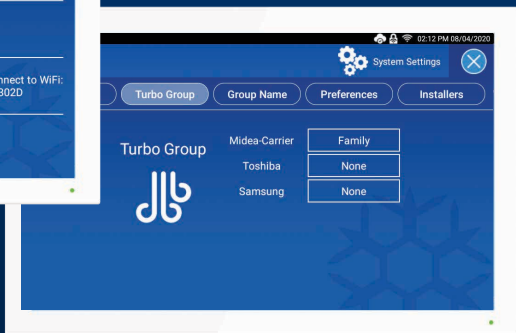


For high volumes of conditioned air in a single zone.

AirTouch's Turbo Zone feature can cool or warm a single zone quickly; or can be useful when there is a lot of activity and you need more conditioned air than normal.

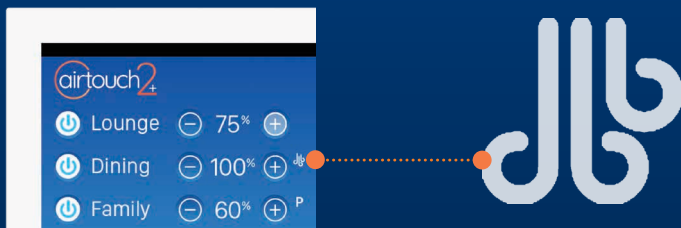
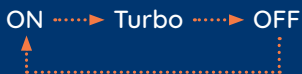


- 1 Open the **Quick Menu** and select **System Settings**.



- 2 Tap on **Turbo Group** and a drop-down menu will appear. Select which room you want a larger volume of air.

- 3 To activate the **Turbo** function, tap on the  button again.



If there is more than one system, multiple Turbo groups can be set.

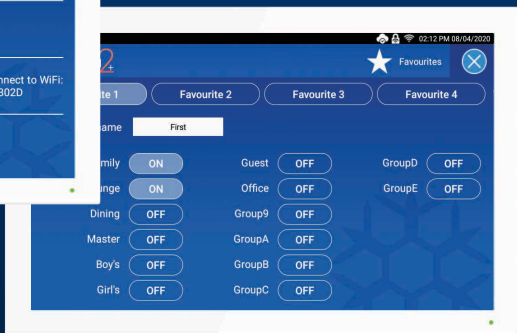
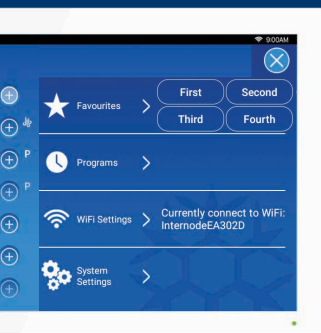
The Turbo function cannot be programmed.
It is activated manually from the console when needed.

Setting up Favourites



AirTouch's Favourites feature allows you to save your climate control scenarios.

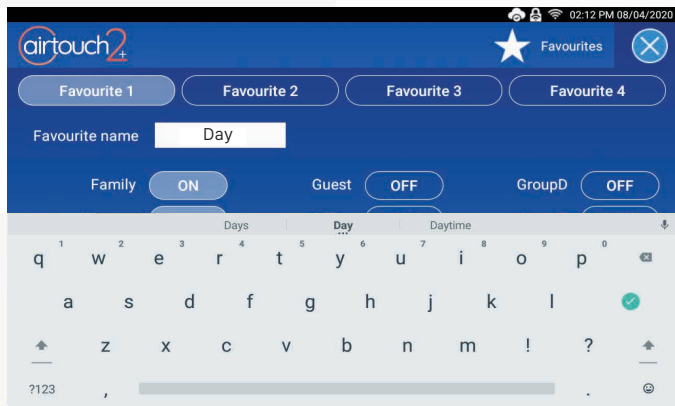
- 1 Open the **Quick Menu** and select **Favourites**.



- 2 Create up to four **Favourite** presets. Select whether you want each zone ON or OFF.


3

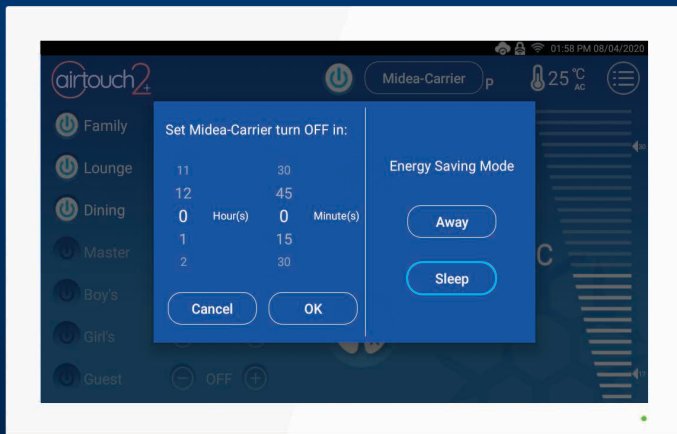
Give your **Favourite(s)** option a name and you're good to go!



Sleep

Sleep comfortably while saving energy.

- 1 Press and hold the AC On/Off Button.
- 2 Press **Sleep**. The Sleep icon will appear in the top status bar. 



- 3 To cancel Sleep Mode, press the **Sleep** button a second time, or adjust the Mode, Fan Speed or Temperature.

NOTE:

Only available on COOL, HEAT, or DRY Mode. When activated, the set point will increase (Cool mode) or decrease (Heat mode) by 1 degree every hour for 3 hours. But the displayed AC set point will remain at your chosen temperature. After three hours, the AC will remain at the decreased/increased set point until Sleep Mode is cancelled.

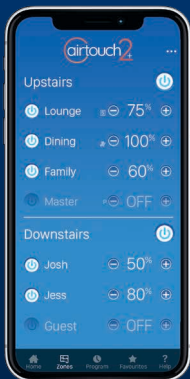
AirTouch 2+ App

The AirTouch 2+ App can be downloaded free.

After downloading the application, follow the prompts to link to your AirTouch console.

AirTouch 2+ is compatible with:

- iOS 8.0 and above
- Android 4.4 and above



NOTE:

If a mobile device is connected to the same WiFi network as your AirTouch 2+ , the app will automatically direct you to the control interface. Alternatively, if you are unable to access the control interface, you will be prompted for the AirTouch ID and password to continue. The AirTouch ID can be found in the Preferences section on the console.

When away from home the app will connect to AirTouch using your phones' 3G or 4G connection.



System

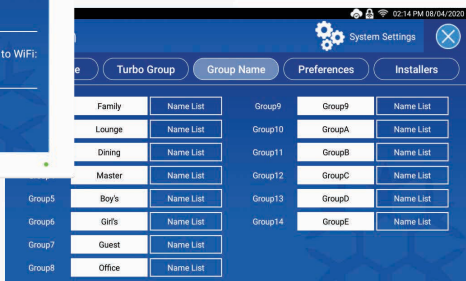
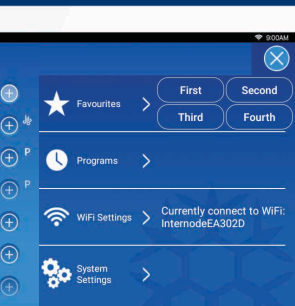
Settings

Naming your Zones

*Zones are referred to as Groups in System Settings.
Customise AirTouch's Zone Names to suit your home

1

Open the **Quick Menu** and select **System Settings**.



2

Select **Group Names** and edit individual **Groups/Zones** by tapping on the space provided to enter information.

To make it easy a preset name can be selected by selecting **Name List**.

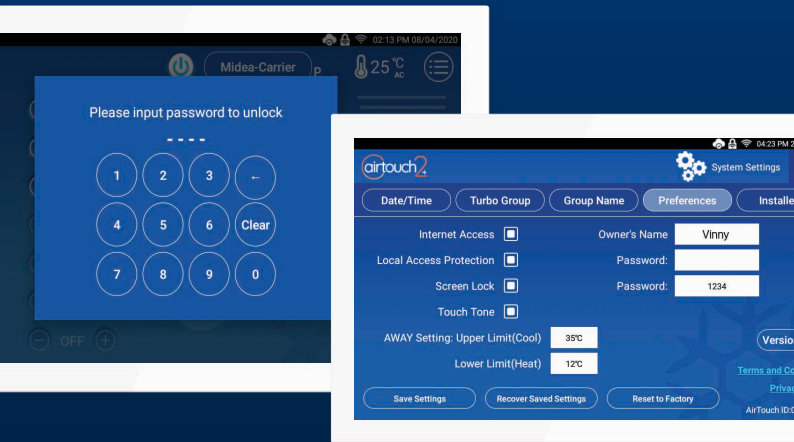
Screen Lock



The Screen Lock Protects your Air Conditioning and AirTouch from potential damage caused by children playing with the console.

- 1 Select Screen Lock and choose a four digit password.

Now, when the console goes to sleep and turns blank, you can unlock it using the password.

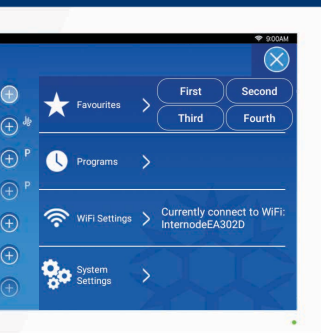


- 2 Untick Screen Lock on the Preferences page to remove it.

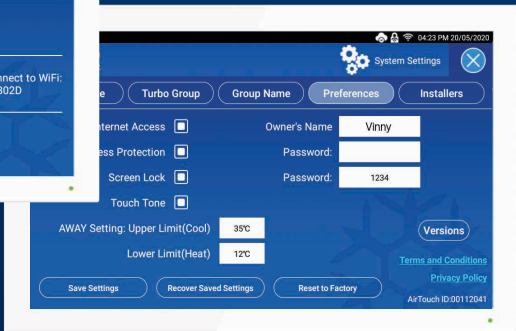
Owner's Name

Owner's Name is used by the mobile app to distinguish between AirTouch 2+ systems.

The maximum length for a name is 16 letters.



- 1 Open the **Quick Menu** and select **System settings**.



- 2 Select **Preferences** and edit **Owner's Name** by tapping on the space provided to enter your details.

Balance & Grouping Tables

(Filled in by your installer)

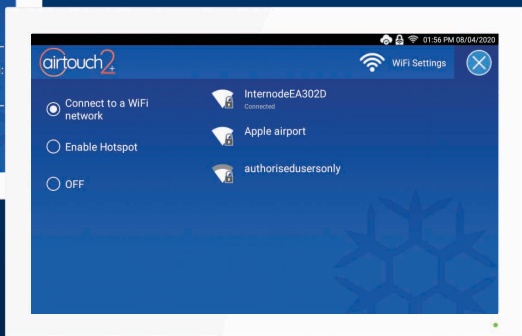
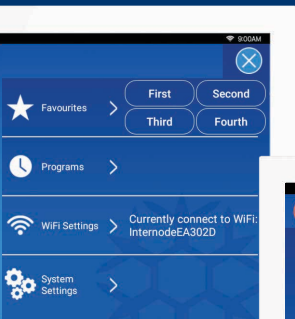
Group	Group Name	Zones Included	Sensors	Turbo Function	Balance
1					
2					
3					
4					
5					
6					
7					
8					
9					
A					
B					
C					
D					
E					
F					
G					

WiFi & Internet Setup




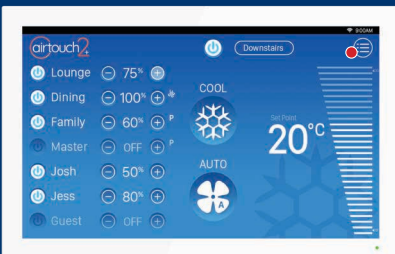
Connect AirTouch 2+ to a home WiFi network to enable the control/operation of the AC unit and zoning via local WiFi and internet.

- 1 Open the **Quick Menu** and select **WiFi Settings**.



- 2 Select your WiFi network, and enter in the password when prompted.

When your are connected successfully, the WiFi icon  will appear in the status bar.



Software Updates

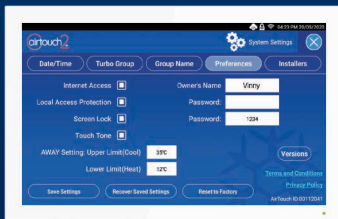
Please make sure AirTouch 2+ is connected to the home WiFi network with internet access. If there is a red dot on the top right corner of the Quick Menu, a new software version is available for update. Follow the red dot and prompts to update the system.

Remote Internet Control

For remote AC control over the internet, ensure Internet Access is ticked under **System Settings > Preferences**.

Local Access Password Protection

When enabled, mobile devices connected to the same WiFi Network as AirTouch will need to use the set password to use the App.



Hotspot

If AirTouch doesn't have access to the internet, you can still control it locally over WiFi with the AirTouch App by using the console as a WiFi Hotspot.




To setup AirTouch as a Hotspot, go to **WiFi Settings**, tick **Enable Hotspot** to turn it on and set a password which will also be used as the Local Access Password Protection password.

You can then connect your smart devices to this WiFi Hotspot to control AirTouch using the App.

Troubleshooting

Problem meets solution.

Problem	Suggested Action
LED in the lower right corner flashes quickly	<p>No communication between the console and main module. Check if the AirTouch 2+ App is running and the wiring.</p> <p>Disconnect the cable to the touchscreen and connect it back. Or power off the main module of the AirTouch 2+ and power it back on in a minute.</p>
LED flashes slowly (Every one second)	<p>AC has an error. Either AC is faulty or the communications between AC and AirTouch 2+ is lost. Call technician to further investigate.</p>
No LED light	<p>No power to the console.</p>
Dampers have no response when turned on or off	<p>Check if LEDs on the main module light up for relevant zones when the zone dampers are being turned On/Off. If Green/Red LEDs are not activated for the respective zone, the main module may be faulty, replace it.</p> <p>If there is response, there might be a faulty cable and the cable would have to be replaced. If the zone is still non-functional then there might be a faulty damper motor.</p> <p>Check if the cable from touch-pad to the main control module is faulty. If it is a faulty cable, then replace the cable.</p> <p>Check Grouping and find out if the right zones have been assigned to the right groups and have been turned ON/OFF in Zoning section.</p>

Some zones cannot be turned off	<p>Check if 'Spill' status is displayed for the zone. Opening other zones will rectify the error</p> <p>*Check spill groups.</p>
No display on the LCD	<p>*Check if the cable is plugged in properly. Unplug the cable and reconnect it.</p> <p>*Check if there is power to the unit.</p>
LCD Display Corrupted	<p>Reset LCD by holding RESET button on the right side of the console for 2s.</p> <p>If error is still not resolved, reset console by unplugging the cable from behind and then reconnect it after about 15 seconds. If the corrupted display remains, power off/on the console. Otherwise, replace the console.</p>
WiFi symbol  disappeared from the touchpad	<p>After a power failure, AirTouch 2+ will re-connect to home router and WiFi icon () will be back on in 3 minutes from Power ON.</p> <p>Turn the wireless router OFF and turn it back ON. Wait for 3 minutes for the AirTouch 2+ system to initialise. If WiFi icon () does not appear, follow WiFi setup process to re-establish connection between your home router and AirTouch 2+.</p>
The response on the console seems slow.	<p>Press and hold the top right button on AirTouch 2+ for 2 seconds to force it to reboot.</p>
"AC ERRORxx" is on touchpad	<p>This error is displayed due to a fault with the AC unit. The AC ON/OFF function will be disabled when this error is displayed. The xx is the error code. The error descriptions will be displayed in the top menu bar. Please call an AC technician quoting the error code.</p>

Specifications

Electrical Requirements

Power supply: 24V AC \pm 10%

Line frequency: 50 Hz

Environmental Requirements

Operating Temperature: 0°C to 60°C

Altitude: 0 to 2000 meters

Operating relative humidity: 10% to 80%

Avoid static electricity hazards

Avoid electromagnetic radiation sources

Avoid dust contamination

Avoid highly corrosive environments



Zone Output

Output voltage: 24VAC, 50Hz

Current: 200mA (1 damper motor)

Transformer

Input Voltage: 240VAC, 50Hz

Output Voltage: 24VAC, 50Hz

Wattage 40W

Supply Air Sensor NTC type, 10 k Ω at 25°C

Fuse Dimension 5x20 mm,
Fast-Acting 2A, 250V

1300 980 656

airtouch₂₊

Liability and Disclaimer

All specifications and procedures are correct at time of publication, but are subject to change without notice. Please read the instructions before installing this Zone Control System. Polyaire Pty Ltd does not accept any responsibility for loss or damage that may occur as a result of the incorrect installation or operation of this AirTouch Control System.

Polyaire Pty Ltd

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Gepps Cross South Australia, 5094

Tel: (08) 8349 8466 Fax: (08) 8349 8446

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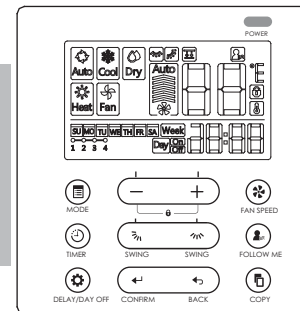


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Rinnai

Rinnai

Wired Programmable Control Operation Manual
Reverse Cycle Air Conditioner



To Suit Models

Ducted	Cassette
DNLR Series	CIN Series

Rinnai Australia Pty. Ltd. ABN 74 005 138 769

Head Office

100 Atlantic Drive,
Keysborough VIC 3173

P.O. Box 460
Braeside, Victoria 3195

Rinnai has a Service and Spare Parts network with personnel who are fully trained and equipped to give the best service on your Rinnai appliance. If your appliance requires service, please call our National Help Line. Rinnai recommends that this appliance be serviced once a year.

Product Sales and Service - National
Phone: 1300 555 545* Fax: 1300 555 655*
Technical Helpline and Spare Parts
National (Mon-Fri 8am - 5.30pm EST)
Phone: 1300 555 545* Fax: 1300 300 141*
**Cost of a local call higher from mobile or public phones.*

E-mail: enquiry@rinnai.com.au

For further information visit: www.rinnai.com.au

Part Number: B063821
December 2016
EQPL38586755
Issue A

This appliance shall be installed in accordance with:

- Manufacturer's Installation Instructions
 - Current AS/NZS 3000
 - Local Regulations and Municipal Building Codes including local OH&S requirements
- This appliance must be installed, maintained and removed by an Authorised Person.
For continued safety of this appliance it must be installed and maintained accordance with the manufacturer's instructions.



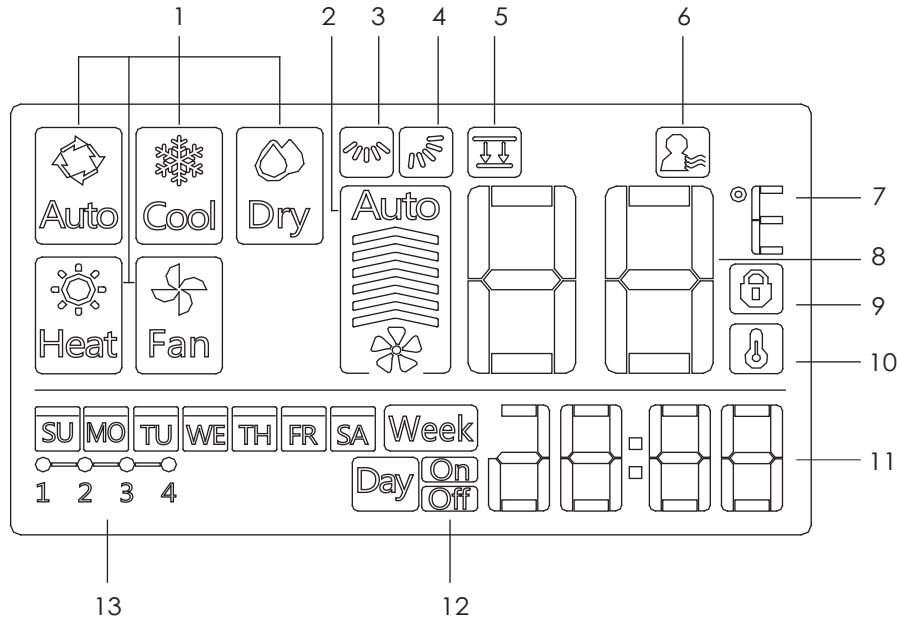
N10378

- This manual provides detailed descriptions of precautions that should be brought to your attention during operation.
- In order to ensure correct service of this wired control, please read this manual carefully before using.
- For convenience and for future reference, please keep this manual in a safe place after reading it.
- Due to our policy of continuous improvement, product details and specifications are subject to change without notice.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

CONTENTS

1. SAFETY PRECAUTIONS	1
2. INSTALLATION ACCESSORIES	2
3. INSTALLATION METHOD	3
4. WIRED PROGRAMMABLE CONTROL WIRING DIAGRAM	7
5. SPECIFICATIONS	8
6. LCD DISPLAY LAYOUT	9
7. BUTTON DESCRIPTION	10
8. FEATURES & FUNCTIONS	11
9. PREPARATORY OPERATION	12
10. OPERATION	13
11. TIMER FUNCTIONS	18
12. WEEKLY TIMER	21
13. FAULT CODES	27

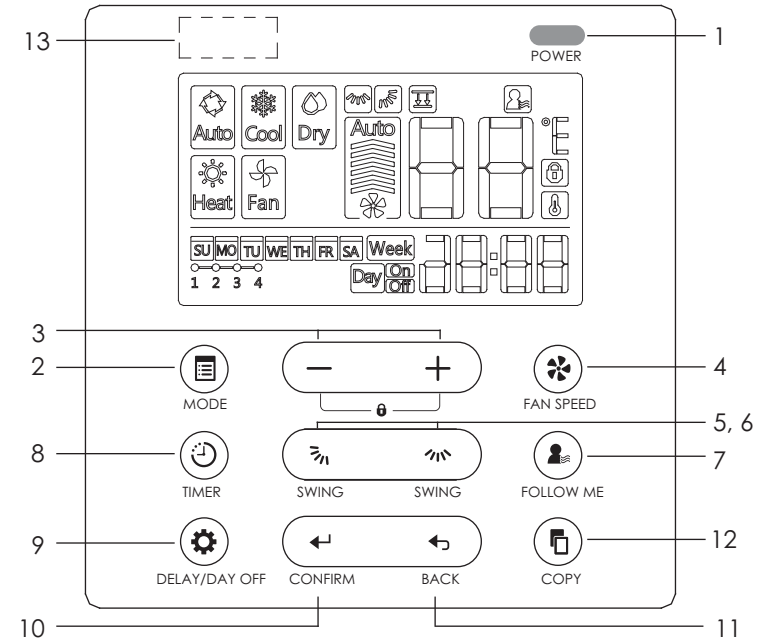
6. LCD DISPLAY LAYOUT



- | | |
|-------------------------------|-------------------------------|
| 1 Operating mode indicator | 8 Temperature display |
| 2 Fan speed indicator | 9 Lock indicator |
| 3 Left-right swing indicator | 10 Room temperature indicator |
| 4 Vertical swing indicator | 11 Clock display |
| 5 Cassette Fascia indicator | 12 On/Off timer |
| 6 Follow me indicator | 13 Timer display |
| 7 Temperature C°/F° indicator | |

9

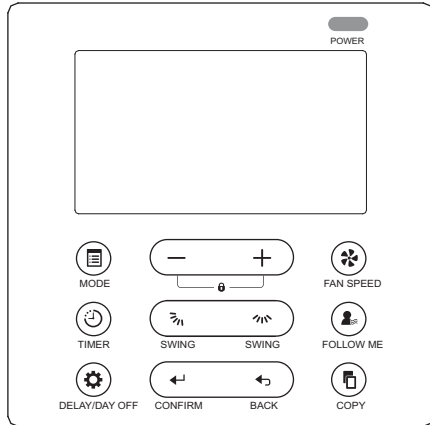
7. BUTTON DESCRIPTION



- | | |
|------------------------------------|--------------------------------------|
| 1 POWER BUTTON | 8 TIMER |
| 2 MODE | 9 DELAY/DAY OFF |
| 3 Adjustment up and down | 10 CONFIRM |
| 4 FAN SPEED | 11 BACK |
| 5 VERTICAL SWING (air direction) | 12 COPY |
| 6 HORIZONTAL SWING (air direction) | 13 IR REMOTE RECEIVER (where fitted) |
| 7 FOLLOW ME | |

10

8. FEATURES & FUNCTIONS



Features:

LCD display.

Error code display:

4-way wire layout design, no raised part at backside, more convenient to place the wires and install the device.

Room temperature display.

Weekly Timer.

Functions:

Mode: choose Auto-Cool-Dry-Heat-Fan
 Fan speed: Auto/Low/Med/High speed
 UP-DOWN swing & LEFT-RIGHT swing (where fitted)

Timer ON/OFF

Temp setting

Weekly timer

Follow Me


Child Lock


LCD display


Clock


9. PREPARATORY OPERATION


Set the current day and time

1  Press the TIMER button for 3 seconds or more. The timer display will flash.

2  Press the "+" or "-" adjust buttons to set the date. The selected date will flash.



3  After setting the day and time, press the TIMER button to exit. The control will exit if no buttons are pressed within 10 seconds.

4  Press the "+" or "-" adjust buttons to set the current time. Press repeatedly to adjust the time in 1 minute increments. Press and hold to adjust the time rapidly.

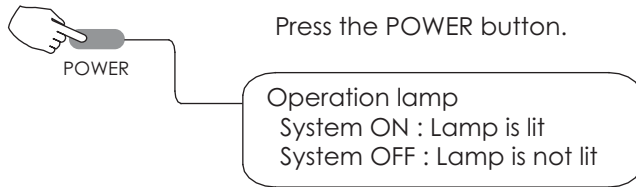


ex. Monday AM 11:20

5  The setting is complete after pressing TIMER button or if no buttons are pressed within 10 seconds.

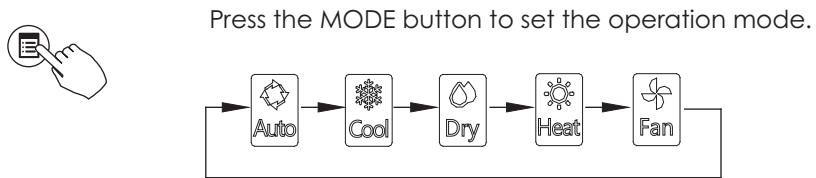
10. OPERATION

To start/stop operation

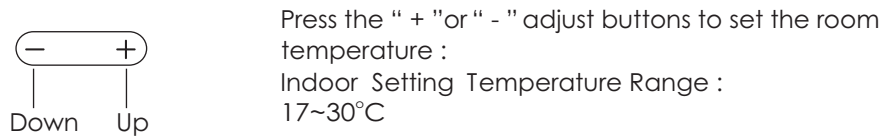


To set the operation mode

Operation mode setting

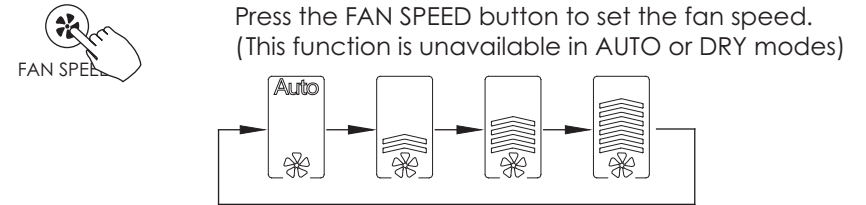


Room temperature setting

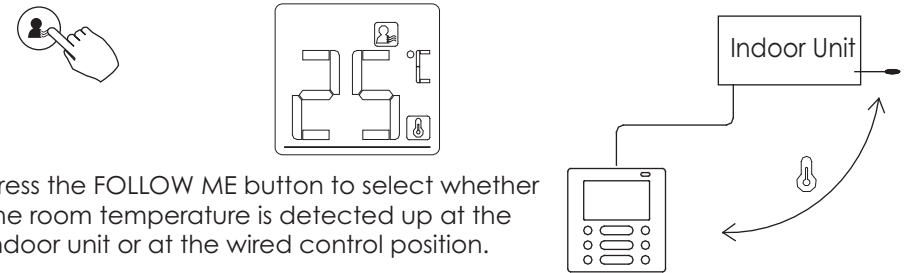


10. OPERATION

Fan speed setting

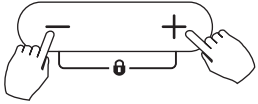


Room temperature sensor selection



10. OPERATION

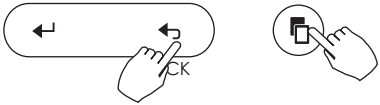
Child lock function



Press the "+" and "-" adjust buttons simultaneously for 3 seconds to activate the child lock function. This will lock all buttons on the wired control. Press the same buttons again for 3 seconds to deactivate the child lock.

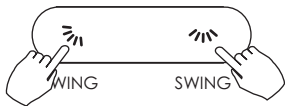
When the child lock function is activated, the  indicator appears.

Keypad tone setting



Press the "BACK" and "COPY" button simultaneously for 3 seconds to turn off the keypad tone. Press the same buttons again for 3 seconds to turn on the keypad tone.

°C & °F temperature scale selection




Press and hold  and  buttons together for 3 seconds will alternate the temperature display between the °C and °F

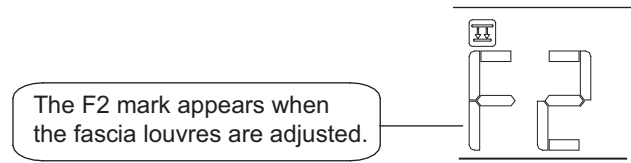
15

10. OPERATION

Cassette Fascia function (where fitted)

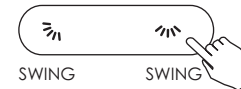




When the unit is off, Press and hold the MODE button to activate the cassette fascia function. The  mark will flash.




Press the "+" or "-" buttons to control the lift and drop of the louvres. Press the "+" or "-" buttons again to stop.

Left-Right swing (applicable products)



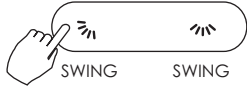
Press the  button to start Left-Right swing function. Press the  button again to stop.


When the Left-Right swing function is activated, the  indicator appears.

16



10. OPERATION

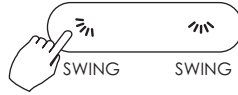
Up-Down airflow direction and swing (applicable products)




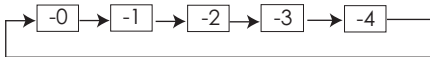
1. For every press of the SWING button, the louver changes in 6 degree increments.
2. Press and hold the button for 2 seconds to turn on the automatic SWING mode. Press the button again to stop the automatic SWING. When the automatic SWING function is activated, the  indicator appears.

- Please refer to the following instructions for products where the louvers can be operated individually.

1. Press the  button to activate the Up-Down louver function. The  indicator will flash.







2. Pressing the "+" or "-" adjust buttons to select the adjustment of the four louvers. Each time you push the button, the wired control selects the louver in the following sequence. (The  icon denotes the four louvers move simultaneously.)




3. Use the  button to adjust the Up-Down direction of the selected louver.

11. TIMER FUNCTIONS

-  WEEKLY timer
Use this timer function to set operating times for each day of the week.
-  On timer
Use this timer function to start the system. The timer operates and the system starts after the set time has expired.
-  Off timer
Use this timer function to stop the system. The timer operates and the system stops after the set time has expired.
-  On and Off timer
Use this timer function to start and stop the system. The timer operates, and the system starts and stops after the set times have expired.


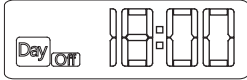
11. TIMER FUNCTIONS

To set the On or Off TIMER

1  Press the TIMER button to select the **Day^{On}** or **Day^{Off}**.


No display → **Week** → **Day^{On}** → **Day^{Off}** → **Day^{On}
Off**

2  Press the CONFIRM button, the Clock display is flashing.

3  

Example: Off timer set at PM 6:00

Press the “+” or “-” adjust buttons to set the time. After the required time is set and confirmed, the timer is enabled.

4  Press the CONFIRM button again to complete the setting.

11. TIMER FUNCTIONS


To set the On and Off TIMER


1  Press the TIMER button to select the **Day^{On}
Off**.

2  Press the CONFIRM button, the Clock display is flashing.

3  

Press the “+” or “-” adjust buttons to set the timer On time. Press the CONFIRM button to complete the setting.

4  Press the “+” or “-” adjust buttons to set the timer Off time.

5  Press the CONFIRM button to complete the setting.

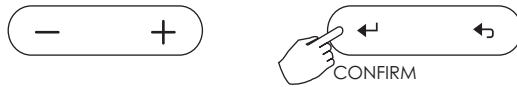
12. WEEKLY TIMER

1 Weekly timer setting



Press the TIMER button to select the **Week**, press the CONFIRM button to confirm.

2 Day of the week setting



Press the "+" or "-" adjust buttons to select the day of the week. Press the CONFIRM button to confirm the setting.



3 ON timer setting of timer setting 1



Press the "+" or "-" adjust buttons to set the timer On time. Press the CONFIRM button to confirm the setting.

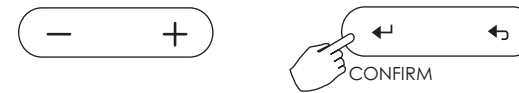
12. WEEKLY TIMER



Example: Tuesday time period 1

Up to 4 timer settings can be saved for each day of the week. This allows the user to configure the week timer to suit their lifestyle.

4 Off timer setting of timer period 1



Press the "+" or "-" adjust buttons to set the timer Off time. Press the Confirm button to confirm the setting.



Example: Tuesday time period 1

5 Different timer settings can be set by repeating step 3 to 4.

6 Other days in the week can be set by repeating step 2 to 5.

NOTE: The weekly timer setting can be returned to the previous step by pressing the BACK button.

The time of timer setting can be deleted by pressing the DAY OFF button. The current setting will be restored and the system will exit the weekly timer setting automatically if there is no operation for 30 seconds.

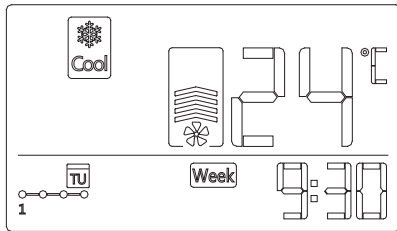
12. WEEKLY TIMER

WEEKLY timer operation

To activate the WEEKLY TIMER operation



Press the TIMER button while **Week** is displayed on the screen.



Example

To deactivate the WEEKLY TIMER operation

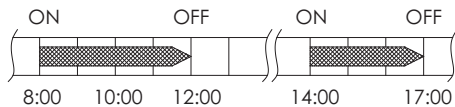


Press the TIMER button, the **Week** indicator will disappear.

• To turn off the system during weekly timer operation



1. Press the POWER button once quickly, and the system will turn off temporarily. The system will turn on automatically at the next set timer On time.



For example, if the POWER button is pressed once quickly at 10:00, the system will turn on again at the next set time of 14:00.

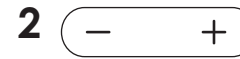
2. Press the POWER button for 2 seconds to turn the system off completely, this overrides the weekly timer function.

12. WEEKLY TIMER

To set the DAY OFF (for a holiday)



In weekly timer mode, press the CONFIRM button.



Press the "+" or "-" adjust buttons to select the day of the week.



Press the DAY OFF button to set the DAY OFF.



4

The DAY OFF can be selected for other days by repeating steps 2 and 3.



Press the BACK button to go back to the weekly timer function.

To cancel: Follow the same procedures as those for setup

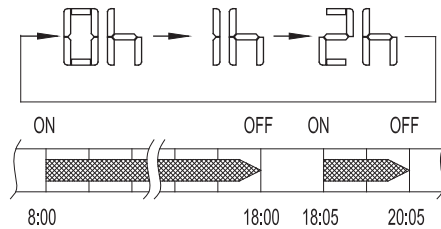
Note: The DAY OFF setting is cancelled automatically after the set day is passed.

12. WEEKLY TIMER

DELAY function



In the weekly timer function, press the DELAY button once, the display will read "0h". Press this button twice, the display will read "1h". Wait 3 seconds to confirm. This means the unit will override the settings for 1 hour. Press the delay button 3 times, the display will read "2h". Wait 3 seconds to confirm, the unit will now override for 2 hours.



Example: Press the DELAY button to select "2h" at 18:05, and the unit will delay turning off for 2 hours, until 20:05.

Copy the setting from one day into another other day.

Settings made once can be copied into another day of the week. All of the settings of the selected day of the week will be copied. The copy function simplifies the programming functions and saves setting time.



1 In the weekly timer function, press the CONFIRM button.



2 Press the "+" or "-" adjust buttons to select the preset day to copy from.

12. WEEKLY TIMER



3 Press the COPY button, the letter "CY" will be displayed on the screen.

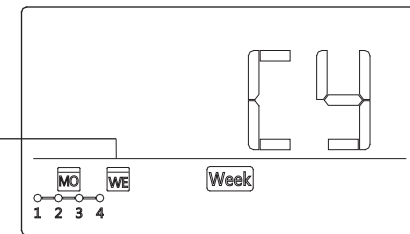


4 Press the "+" or "-" adjust buttons to select the day to copy to.



5 Press the COPY button to confirm.

The WE icon flashes quickly

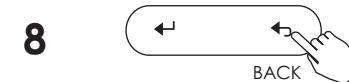


Example: Copy the setting of Monday to Wednesday

6 Other days can be copied by repeating step 4 and 5.



7 Press the Confirm button to confirm the settings.



8 Press the Back button to go back to the weekly timer function.

13. FAULT CODES

If the system does not operate correctly, the following faults may be evident. Investigate the system fault in accordance to the following fault codes.

NO.	FAULT CODE DESCRIPTION	FAULT CODE DISPLAYED
1	Communication error between wired control and indoor unit	F0
2	Power supply phase error	E0
3	Communication error between indoor unit and outdoor unit	E1
4	Sensor T1 fault	E2
5	Sensor T2A fault	E3
6	Sensor T2B fault	E4
7	Sensors T3/T4 fault, or compressor discharge sensor fault	E5
8	System anti-freeze protection	E6
9	EEPROM (electronic control) malfunction	E7

13. FAULT CODES

NO.	FAULT CODE DESCRIPTION	FAULT CODE DISPLAYED
10	Fan speed error	E8
11	Communication error between the main and sub board (display)	E9
12	Compressor current protection (four times)	EA
13	IPM malfunction	EB
14	Fresh Air malfunction	EC
15	Outdoor unit protection fault	ED
16	Water-level alarm and/or other malfunction	EE
17	Other malfunction	EF
18	Master control lockout	CP
19	Cassette Fascia malfunction	F1