



innoTouch

TZIT1 WALL CONTROLLER

User Manual

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Caution

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning 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.

Note

Specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.

FEATURES

The Temperzone **innoTouch** has been designed to maintain a high level of comfort for room occupants. Controls are intuitive and easy to use. Use of the Auto and Schedule function settings allows you 'to set it and forget it'.

Features include:

- Full colour touch screen 4", 480 x 480 px
- Cool / Cool Dry / Heat / Auto Dry / Auto / Fan Only modes
- Auto / High / Medium / Low fan speed selection
- Temperature setting range from 16°C – 35°C, in 0.5° increments
- Dual setpoint option for setting a wider than normal room temperature operating band (ie not specifically for human comfort) thereby saving energy
- Power saving dim screen mode
- Room & set temperature display
- Quiet mode option - for outdoor units
- Real time clock
- 12 or 24 hour time display
- 7-day/365-day timer – up to five events on a day; 15 total per week
- On demand schedule override facility (configurable)
- Auto-Restart/Schedule retention after power failure
- Continuous or Intermittent selection of fan run-on in dead zone
- PIN protected menus (Installer and Admin PIN)
- Multiple user group access with PIN-code
- Keypad and/or temperature lock (user group defined)
- Filter monitor option (by month)
- Diagnostics screen for technician assistance
- Service company contact details screen; editable.
- Adjustable deadband range: 0.5°C to 2°C.
- Battery backup (Lithium) – retains schedule to resume after a power cut
- Compact 120 x 86 x 11 mm size
- Mounts on a standard AU/NZ switch mounting/flush box (not supplied)
- 12/24 V control cable (supplied separately)
- Up to 50m separation from air conditioning unit
- Optional remote air temperature sensor

Note:

A lot of the Features above are only set/adjustable by the Installer or Serviceman.

innoTouch is designed for use with Temperzone UC8 incorporated systems and is not compatible with other manufacturer's products.



OPERATION

Home Screen

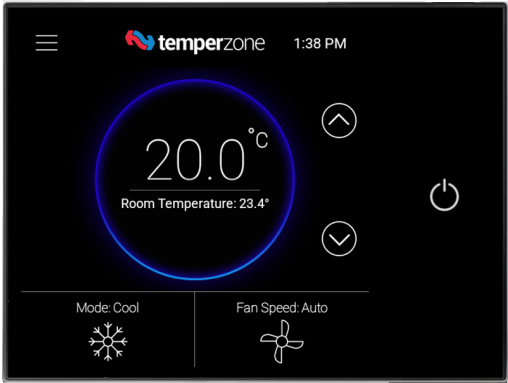


Figure 1

How do I Power ON/OFF the air conditioner?

Press '⏻' to turn ON. Press '⏻' and 'confirm' to turn OFF the air conditioner.

(Note: If unable to power off, refer your system Administrator)

How do I change the Room Temperature?

Press the 'Up' or 'Down' arrowheads to increase/decrease the target room temperature (also known as setpoint).

(Note: If unable to change the temperature, refer your system Administrator.)

How do I change the Mode of operation?

Press the current Mode symbol to select a different mode of operation (Figure 1).

Select the required Mode from the displayed options below.

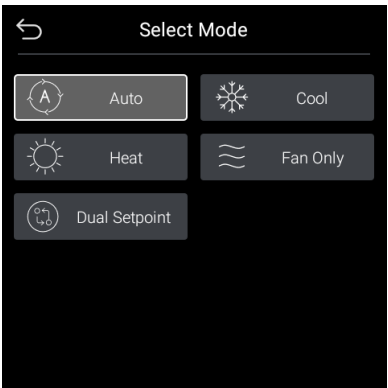


Figure 2

(Note: If unable to change the Mode, refer your system Administrator.)



How do I change the Fan speed?

From the Home screen press the current Fan speed (Figure 1)
Select the preferred speed from the displayed options below.

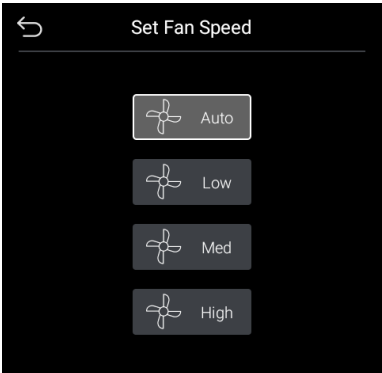


Figure 3

(Note: If unable to change Fan speed, refer your system Administrator.)

How do I change the Time displayed?

Press 'Menu' (≡).

Press [Settings], followed by [Time/Date].

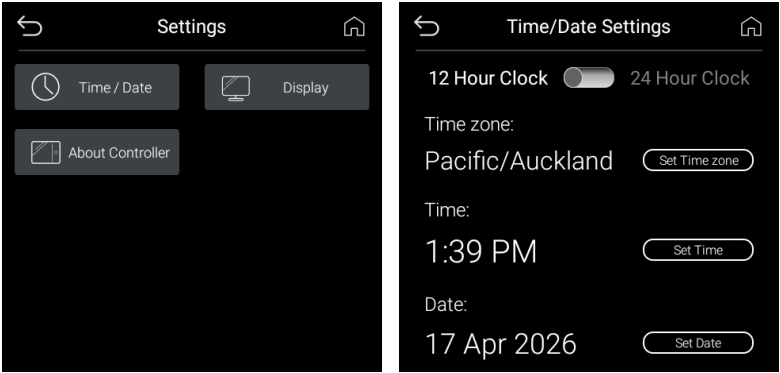


Figure 4 & 5

(Note: Daylight Saving time is automatically adjusted).



How do I override an active Schedule? (After Hours use)

An override function is available to turn the air conditioner 'ON' when the unit would normally be 'OFF' – as controlled by an 'Enabled' Schedule; for example, for after hours use.

A calendar symbol visible in the top left of the Home screen tells you a Schedule is active.



Tip: Touching the calendar symbol on the Home screen takes you straight to the Override Schedule screen where you can set the duration (up to 8 hours; default 2 hours).

When active, the remaining Override time period is displayed at the top of the screen.

On expiry or cancellation of an active Override, the system will return to the state defined by the Schedule.

(Note: If unable to change Override, refer your system Administrator.)

How do I create a Schedule of On/Off times?

Press 'Menu' (☰).

Press [Schedule] to set a schedule of On/Off times to suit your preferences.

When enabled the Schedule will automatically control the mode and temperature target (setpoint) based on the day and time.

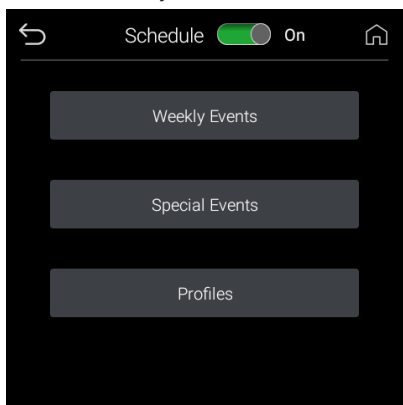


Figure 6

Weekly Events are used to define what the system will do every week.

Special Events can be defined up to a year or more in advance to override the weekly schedule. – ideal for statutory holidays, eg Christmas day, ANZAC day.

When an Weekly Event and Special Event occur at the same time the Special Event will take priority.

A **Profile** is a pre-defined mode (eg Cool) and room temperature. It defines how the system will behave during an Event or Special Event. Once a profile is defined it displays as the 'Default Profile'. This will be used by the system when the schedule is running and no Events or Special Events are active.

(Note: If unable to create/change the Schedule, refer your system Administrator.)



How do I create a Weekly Event of On/Off times?

Select [Weekly Event] from the Schedule menu.(p.10)

Add an Event

Select [Add Event +] .

Select: Mode, Fan Speed, Set Temperature, Start/End time, frequency and give it an Event name.
Press [Save] to exit.

The Event Name will appear as a Profile, that you can then re-use or edit.

To Edit an existing Event Profile, tap on an the Event name and make the required changes. Press [Save] to exit.

Multiple Events can be added for each day.

The maximum number of Events is 5/day and 15/week.

To Delete an existing event, tap on an the Event name and scroll to the bottom of the page. Press [Delete Event] and [Save] to exit.

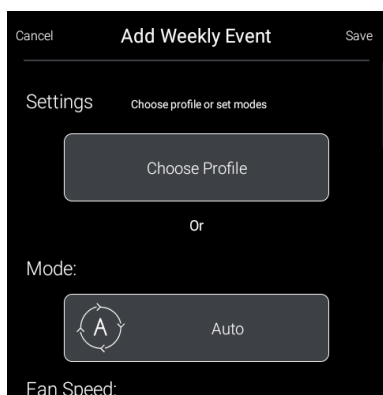


Figure 7

(Note: If unable to create a Weekly Event, refer your system Administrator.)



How do I create a Special Event of On/Off times?

A Special Event is a non-repeating events or annual event that can be scheduled up-to-a-year, or more, in advance (eg statutory holiday). These will override the weekly schedule.

From the Schedule screen (p.9), select [Special Event] followed by [Add Event+] to create a new Special Event in the calendar schedule.

Add a Special Event

Select [Add Event +].

You will be given the option to select a Profile if one already exists, or choose your own settings.

Select the required combination of Mode/Fan Speed/Temperature/Date & Time settings and a name for the Special Event. Press [Save] to exit.

To Edit an existing Special Event, tap on an the Special Event name and make the required changes. Press [Save] to exit.

Multiple Special Events can be added for each day.

To Delete an existing Special Event, tap on an the Special Event name and scroll to the bottom of the page. Press [Delete Event] and [Save] to exit.

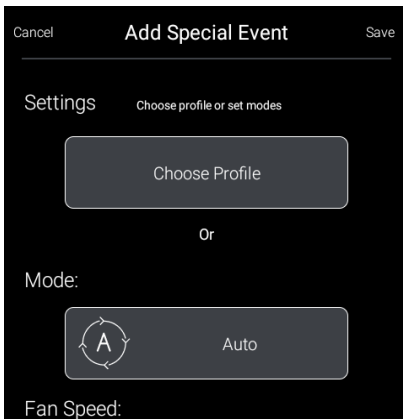


Figure 8. Swipe up to view all available settings.

(Note: If unable to create an Event, refer your system Administrator.)

Event Profiles

Add/Edit a Profile

A Profile is a user-defined combination of Mode/Fan Speed/Temperature settings, saved for re-use.

From the Schedule screen (p.9), select [Profiles], followed by [Add Profile+], to create a new Profile in the calendar schedule.

Select the desired combination of settings, name the Profile, then press 'Save' (top right).

The new Profile can now be re-used for scheduled events.

Select a Profile from the list to review, change or delete it. Press 'Save'.



How do I activate a Schedule of On/Off times?

Enable or disable the Schedule by using the toggle (top slider).

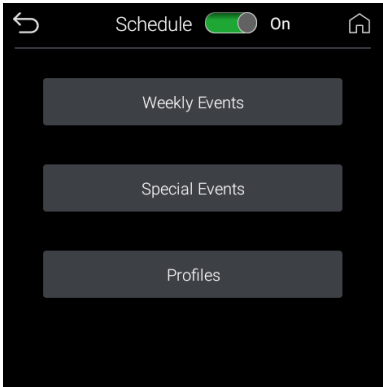


Figure 9

(Note: If unable to enable/disable the Schedule, refer your system Administrator.)

How do I adjust the Display screen behaviour?

Press 'Menu' (≡).

Press [Settings], followed by [Display].

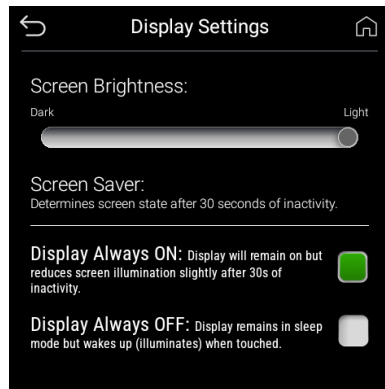
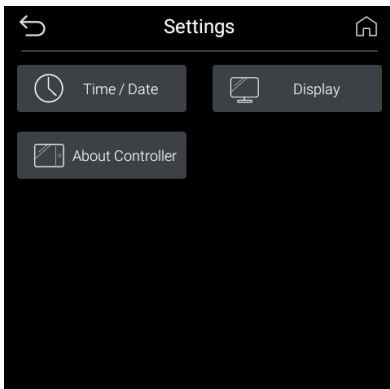


Figure 10 & 11



MENU

Press '≡' to display the main Menu.

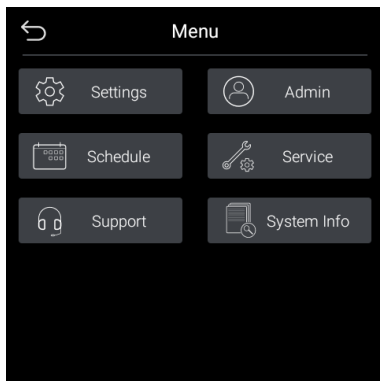


Figure 12

(Note: You may need Administrator User Permission to change some of these settings.)

Settings

This function displays 'Time/Date' set-up, 'Display' options (eg brightness, dimmer) and an 'About Controller' screen for innoTouch model information.

Schedule

Set up a Schedule of events (time periods) for when the building is occupied and the air conditioner is automatically activated; refer [pp. 6–10](#).

(Note: You may need Administrator User Permission to change the Schedule settings.)

Support

The Installer or Service Company technician should edit this page and leave their contact details in the case there are issues with the system. If they haven't, then the manufacturer's contact details are also viewable (by swiping up). Your Installer should be your first point of contact.

Admin

This option displays Access Control options for owner/occupiers to restrict functions of the controller where required to building administrator defined Groups. This function is password protected (refer [p.11](#))

Service

This option is for your Installer or Service Company technician. This function is password protected and covers installation and service related functions.

System Info

This option displays product information about your air conditioner that may be helpful to a Service Company technician, eg Model air conditioner, Unit serial number, Unit location, UC8 software version, Thermostat model. This information must be manually entered by a Service Technician.

Cleaning Guide

To clean your innoTouch screen, power off the device. Gently wipe the screen with a soft, lint-free microfibre cloth (like the ones used for eyeglasses). For stubborn smudges, lightly dampen the cloth with distilled water, eyeglass cleaner or use an approved 70% isopropyl alcohol wipe. Never spray liquids directly onto the device vents. Using the wrong materials can cause permanent damage or scratches to your device.



ADMIN (Log-in)

Administrators can access additional settings via 'Menu' on the home screen, top left. Press [Admin].

This function displays Access Control options for owner/occupiers to restrict functionality to individuals or administrator defined Groups. This function is password protected (fig.13).

If you are an assigned Administrator: use Administrator PIN code '8963' (default)

If you are an Installer or Service Technician: use Administrator's password (which may have been changed from the default). If this is not available, it can be reset in the Service mode. Let the Administrator know if you change it.

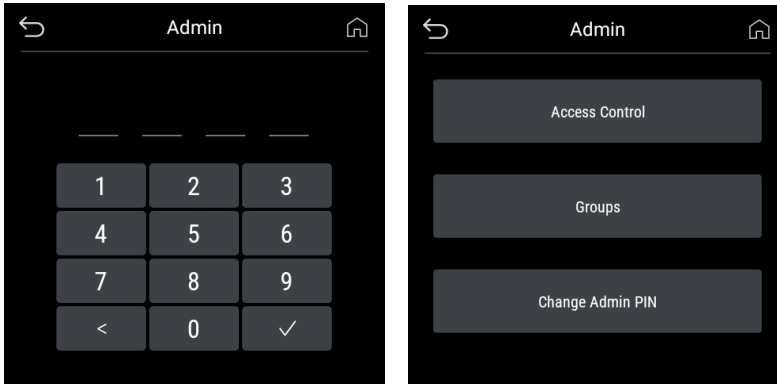


Figure 13 & 14

Administrator level includes the following functions:

Access Control - to set access privileges for the air conditioning control system.

Groups - to control what your end users can change, such as powering Off, changing modes and editing the schedule.

- enables the assignment of a Group names, eg Sales, Finance
- set a Group dedicated PIN number for customised permissions, eg ability to over-ride certain settings, eg temperature, fan speed.

Change Admin PIN -

Enables ability to customised the Administrator PIN. Take a record of the new PIN.



Tip: If the new PIN is forgotten, then contact your Support Service company who can reset the PIN to the default password above.

Note: The Admin log-in session will timeout after 2 minutes.



Access Control

This function allows you to restrict what settings your users can change.

Options:

- turn the air conditioning ON/OFF
- set the Temperature
- set the Fan Speed
- change the Mode
- turn the Schedule ON/OFF
- view the Schedule
- edit the Schedule
- change the Time & Date
- set the Maximum Override duration for after hours use
- change the default Override duration

Swipe up to see the full list of options on screen.

Use the sliders to toggle each setting on or off for all end-users.

When the Schedule is active any change made by the user to Mode, Setpoint or Fan Setting is considered to be an Override.

On expiry or cancellation of an active Override, the system will return to the state defined by the Schedule.

Access Control changes are saved automatically.

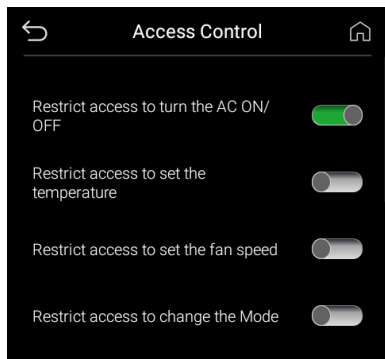


Figure 15. Swipe up to view all available settings.

Groups

Permissions can be assigned to an individual User or a Group.

Select [Groups] to Add a new User Group.

The Group name is displayed at the top of the screen.

Groups can be re-named, have a PIN assigned, and have permissions set.

Remember to **Save** your Group settings (top right).

Select an existing Group on the Users/Groups screen to Edit it.

Remember to **Save** your any changes to your Group settings (top right).



TROUBLESHOOTING

Air Conditioner Doesn't Operate

1. Check there is power to the air conditioner. There is no power if the **innoTouch**'s screen is blank.
2. Check the **innoTouch** is on by tapping the touch screen.
3. Check if the Calendar symbol (Schedule enabled) symbol is displayed. If so, check that you are in the 'switch on' period. You can use the Override function to operate the air conditioner outside any preset time (refer to [p.9](#)).
4. If buttons don't appear to work, check your user permissions with the system Administrator.

Reduced Cooling or Heating from normal

1. Check to see if the air filter (if any) requires cleaning.
2. Check if any doors or windows are open, creating draughts.
3. Check that there are no obstacles in front of the outdoor unit.

No Cooling or Heating

1. Check that the correct operating mode has been selected (Auto, Cool, Heat but not Fan only ventilation).
2. The preset temperature may have been set too high or too low.
3. If the operating mode or set temperature has just been adjusted, wait for 20 minutes as a delay is enforced between cooling and heating operations to prevent rapid cycling.

Not Starting and Stopping at Programmed Times

1. Check the time clock is set to the correct time and adjusted for Day Light Savings or Summer time (if applicable).
2. Check the Schedule times have been correctly programmed.

Room temperature varies significantly from the displayed number

- Unit may have been incorrectly sized for the building.
- Drafts from wrongly placed supply air diffusers or from the back of the wall plaque could be affecting the temperature sensor built into the wall plaque.
- Bad air circulation in the room can cause incorrect temperature readings.
- An external heat or cool source may be adversely affecting the temperature sensor.
- A remote sensor may be in use, rather than the fitted sensor.
- If the accuracy of the displayed temperature is in doubt, contact your Service Company to recalibrate the temperature sensor.

Air conditioner does not seem to deliver the heating when most needed

- Heating capacity at design conditions may be incorrect. As the outside temperature falls, heat losses through the walls, floor and ceiling increase.
- Check the unit's brochure for information on the minimum/maximum operating temperatures.

When heating, units have de-icing cycles built-in to remove ice on the outdoor coil.

This usually means reversing the cycle for a short time during which time there is no heating and in fact a little cooling can occur. Do not use any potential ignition source to accelerate the defrosting process.

In a new building, why does it take some days before the air conditioning heat pump unit seems to work properly?

- Many new buildings have a large amount of concrete and other structural materials that are generally cold and full of moisture. This is most evident in the winter when trying to heat the building from scratch.
- Units need some nursing through this period and should not be left to their own devices.

Indoor unit is spitting or leaking water

- Poor drain trapping (most likely cause).
- Check the drain trap/vent/slope before moving on to other possible issues.
- Water carry-over: Reduce the maximum fan speed to the factory default setting.



Air conditioner runs excessively – the temperature remains too hot in summer or too cold in winter.

- Windows or doors may be opened to non-conditioned areas.
- Keep doors to unconditioned areas (eg laundries, bathrooms etc.) closed. Note that any doorways on the return air path will need to be kept open, which may mean for example that doors to an unconditioned hallway will need to be kept open.
- Leaves, papers or other items blocking air flow over the outdoor unit coil. Clear all debris away from the outdoor unit.
- Location of wall controller or remote temperature sensor is wrong.
- Check for leaks in supply or return air duct work.

Fan continues to run for up to five minutes when Heating or Cooling has stopped.

This is not a fault, and depends on the Unit Settings made by the Installer.

Symbol is displayed on the Home screen

If there is a problem with your Air Conditioning system or in the event of frequent or recurring Resets being required, it is recommended you contact your Service Company; refer [Support] for contact details. If the system is in a fault state a 'Reset' button may be displayed on the Home screen when the system is able to attempt a restart. Press 'Reset'.

A list of Status messages is displayed in Appendix (p.16).

Green Circle is displayed on the Home screen

The system is in idle state, ie fan only, deadband or protection mode, and may stay that way for 3–5 minutes, even when not at target temperature.

Alarm Log displays an error code

Where to find the Alarm Log: Your Service Technician can access 'Alarm Notifications' to keep track of key activities of the unit, including when and what the unit was doing at time of any fault.

If the system is in a tripped state a 'Reset' button will be displayed in the Home screen when the system is able to attempt a re-start.

If the system is in a fault state (lockout), the Service person must address the root cause, with the assistance of Temperzone if necessary.

User Settings not retained after a building power failure

The internal battery needs replacing. This is not user replaceable and must be done by a qualified computer service technician.

Unusual Behaviour or Unexplained Faults

Check Administrator and Service settings aren't affecting the controller's behaviour. If not, electrician to check connection wires are correctly earthed at AC unit and are not subject to electrical interference (EMI) from other power cables or neighbouring devices.

Who do I contact for Support?

End User: Contact your Administrator for advice.

Administrator: Contact your Installer for advice.

For further assistance contact your Service Company which should have recorded their contact details for you in the main Menu [Support] Screen.

If the Service Company or Installer is unknown; go to main Menu ''; select Support.

If contact details are not visible, check with your building Facilities Manager or visit www.temperzone.com and model search 'innoTouch' in the Model search, or telephone:

Australia: 1800-211 800

New Zealand: 09-279 5250 or 0800-NZAIRCON (0800-692 472)



Appendix I

USER ACCESS LEVELS

The innoTouch has three user access levels: End User, Administrator and Service technician.

(Note: Administrator level automatically logs out after 2 minutes of inactivity)

Function	End User	Administrator	Service
Screen Brightness - adjust	●	●	
Power On/Off	□	●	
Operation Modes - change	□	●	
Date & Time - edit	□	●	
Schedule	□	●	
Override	□	●	
Access Control		●	
Unit Settings			●
Dual setpoint			●
Sensor Calibration			●
Fan Calibration			●
Alarm Notifications			●
System Status			●

Key:

● Accessible

□ Option; set by Administrator



Appendix II

STATUS MESSAGES

Status messages are displayed on the Home screen (refer Figure 1, [p.4](#))

Message	Description	Action
System Initialising	Start-up sequence is in progress.	n/a
No Communication	innoTouch can not find UC8 Controller.	Installer to check wire connections.
Blue circle	Cooling. Reducing room temperature.	n/a
Red circle	Heating. Increasing room temperature.	n/a
Green circle	Ventilating. Fan active in Fan only mode. Also shows in idle/deadband.	n/a
⚠ Alarm	UC8 Controller located in the outdoor unit has detected a problem (soft lockout).	Contact Installer/Service provider.

Service contact details are displayed here: main Menu [Support] screen ([p.14](#)).



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Service Details

Go to main Menu '≡' (p.10); select Support

For a hardcopy record, enter contact details in the form fields below, for future reference and for warranty purposes.

<i>Service Company name</i>	
<i>Phone number</i>	
<i>Website</i>	
<i>Contact name</i>	
<i>Model number</i>	
<i>Outdoor Unit Serial number</i>	
<i>Outdoor Unit location</i>	



Visit our website www.temperzone.com

