technical catalogue

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</table>
iZone 211 - Wiring layout for base system

10 Zone system with 1 colour touch screen shown above

A maximum of 12 zones and 12 colour touch screens can be supported by one iZone system (See Network Extension Module 1.3 for Details)
iZone 311 - Wiring layout for base system

AC Unit

AC unit control cable.
See table for location of connection in AC unit (1.7)

CACUM
AC Unit Module

CCPU
Central Processing Unit

CT24AC

CZDA
Zone 1

Zone 2

Zone 3

Zone 4

Zone 5

Zone 6

CCTS

6 Zone system with 1 colour touch screen shown.
A maximum of 12 zones and 12 colour touch screens can be supported by one iZone system (See Network Extension Module 1.3 for Details)

Make sure you have the correct model of CACUM for the make of AC unit. See back of CACUM for details
Optional equipment for temperature controlled zones

- **CCTS** (optional)
  - Install additional colour touch screens in zones requiring temperature control

- **CZCO** (optional)
  - Wired Zone Controllers with temperature and occupancy sensor (Max 12 per system)

- **CCPU**
  - Central Processing Unit

- **CCTS**
  - Installed into the supply air duct off the fan coil unit

- **CCT2AC**
  - Optional equipment for temperature controlled zones

- **CNEM** (optional)
  - Install Network Extension Module to provide additional network ports if required

- **CSM** (optional)
  - Install Sensor Module to allow for Wired temperature sensors (CS) & Wireless temperature sensors (CRFS)

- **CRFS** (optional)
  - Wireless Temperature Sensors (Max 12 per system)

- **CNEM**
  - Network Extension Module

- **CR** (optional)
  - Wireless Repeaters

- **CSM**
  - Sensor Module
Optional equipment for wired WiFi Control of system

Electronic controls

Customers router or modem

CB
Wired Bridge

RJ45-12
This cable is specific for connecting the CCPU and Wired Bridge

CCPU
Central Processing Unit

Customers router or modem

Wired Bridge

iZone 211 & 311
Optional equipment for wireless WiFi control

CCPU
Central Processing Unit

CSM
Sensor Module

CR (optional) Wireless Repeaters

CB Wireless Bridge

Customers router or modem

CSM Installation Sensor Module to allow for wireless communication with Wireless Bridge (CB). Only one CSM is required per system.
iZone 311 - Optional equipment for isave addition

Note:
When the isave option is used the iZone system is limited to a maximum of 10 Zones

Use Zone 11 port on CCPU for Return Air dampers
Use Zone 12 port on CCPU for Outside Air dampers

Return Air Damper 1
Return Air Damper 2
Outside Air Damper 1
Outside Air Damper 2
CCPU

Electronic controls
## Electronic controls

iZone 311 - Wiring connection to AC units

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<th>Unit Make</th>
<th>Connection</th>
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<tr>
<td>Daikin</td>
<td>Take the P1 / P2 control wire from the fan coil unit and connect it to the AC Unit Control Cable on the CACUM.</td>
</tr>
<tr>
<td>LG</td>
<td>See detailed instructions on 1.8 page 11</td>
</tr>
<tr>
<td>Mitsubishi Electric</td>
<td>Take the Remote Controller (A / B) control wire from the fan coil unit and connect it to the AC Unit Control Cable on the CACUM.</td>
</tr>
<tr>
<td>Panasonic</td>
<td>Take the A / B control wire from the fan coil unit and connect it to the AC Unit Control Cable on the CACUM.</td>
</tr>
<tr>
<td>Temperzone</td>
<td>See detailed instructions on 1.9 page 12</td>
</tr>
<tr>
<td>Toshiba</td>
<td>Take the A / B control wire from the fan coil unit and connect it to the AC Unit Control Cable on the CACUM.</td>
</tr>
</tbody>
</table>
**Unit Make**

**LG**

LG condensing unit must be supplied with an optional PI485 Gateway (M) board in the condensing unit.

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**Connection**

1. Connect a shielded, 2 core, twisted pair control cable from the CACUM to the PI485 Gateway (M) board in the condensing unit. (This cable is supplied by the installer). Polarity is critical see Fig (C) & (D) for correct connection.

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- **Fig (C) - LG PI485 Gateway (M) board in condensing unit**
- **Fig (D) - iZone / LG AC Unit Module**
**Unit Make**
Temperzone

**Connection**

1. Connect a shielded, 2 core, twisted pair control cable from the CACUM to the UC7 board in the condensing unit. (This cable is supplied by the installer). Polarity is critical see Fig A & B for correct connection.
2. Adjust location of jumper J1 to suit the length of control cable installed.
3. Ensure the dip switches in the condensing unit are set correctly for the installed compressor type (digital / fixed speed) and fan speed control. Refer to the Temperzone service manual.

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**Fig (A) - Temperzone UC7 outdoor**

- Shielded, 2 core, twisted pair control cable (not supplied)
- Adjust jumper J1 to suit cable length

**Fig (B) - iZone / Temperzone AC Unit Module**

- Correct polarity for CACUM
- Shielded, 2 core, twisted pair control cable (not supplied)
1. The CCPU and CACUM can be installed on top of the indoor fan coil unit.

2. The CSM should be installed on the ceiling in the centre of the house. If any wireless sensor (CRFS) or wireless bridge (CB) is not within the range of the CSM then additional repeaters (CR) should be added to help relay the signal from the field device to the CSM.

3. Do **not** run the blue network cables alongside 240 Volt wiring.

4. When installing network cables down wall cavities or chasing network cables into walls, tape up and protect the RJ45 connector to avoid damage to the connectors. Installation damage to cables is **not** covered under warranty.

5. Always install zones in consecutive ports starting at Zone 1. The back of the CCPU is marked with the zone port numbers.

6. Do not directly hardwire the CT24V into the AC unit’s power supply. This may void the warranty as it will require an electrician in the event that a repair of the iZone power supply is required.

7. Connect Zone Damper Actuators (CZDA) to the zone ports using the RJ11 cables as shown.

8. Connect the Colour Touch Screens (CCTS) to the CAN ports using the RJ45 cables. If you are connecting more than 3 components requiring CAN ports to the system you will need to connect a Network Extension Module (CNEM) to one of the CAN ports on the CCPU using a short RJ45 cable. The CACUM will also support one CAN port.

9. If any zone is temperature controlled connect a Duct Temperature Sensor (CDTS) to the CDTS port. Install the sensor into the **supply air** duct upstream of all dampers. Secure the sensor in place by using reinforced aluminium tape.

10. When installing temperature controlled zones ensure the CCTS or sensor for the associated zone is installed in a location that is representative of the temperature in the room / zone. The sensor should be installed at approximately 1600mm above the floor and should not be subject to draughts, direct sunlight or heat from equipment such as computers, TV screens etc. The supply air outlets to this room must **not** blow conditioned air directly onto the sensors or touch screens, as a temperature sensor is located in the CCTS.

11. Connect the AC unit control cable to the CACUM. See table 1.7 For details. (This cable is not supplied by Airstream.)

12. The building must be fitted with a compatible WiFi modem. Contact Airstream for a list of approved and recommended modems.

13. If connecting the iZone system to a Home Automation system use an RS 232 or RS 484 serial connector.

14. Only connect the power supply to the CT24VAC port after all components have been connected.
Electronic controls

iZone 211 & 311 System initialisation

All new or modified systems must be initialised prior to system configuration.

To initialise the system press the button on the underside of any colour touch screen. This button is recessed so you will need to use a pen to press the button.

The time to initialise the system will vary depending on the number of motors connected.

The system will also initialise when power is restored after a power failure.
**Electronic controls**

iZone 211 & 311 System configuration

**WARNING**! Only qualified iZone installers should configure the iZone System. Incorrect configuration could result in damage to your air conditioning unit and system.

To configure your system click on the System Config icon on the home page. Enter the system password "wamfud" and press the enter button. The enter button must always be touched to save changes.

You will now be in the System Configuration area: