Wiring Connections

Power Supply (L2 or L3 depending on OSA)

Power - double insulated 2 or 4 core + E

External Protection & Isolation

OSA Outdoor Unit

L3 L2 L1 N E

0V A2 B2 — UC8

screen

Control - shielded twisted pair 2 core + screen

L N E

Power - double insulated 2 core + E

ISD Indoor Unit

0V B T2 — IUC
A

PRI

Plug

Control - shielded twisted pair 4 core (201-000-399)

Red

Black 230V

Purple

24V TR

Pink

CN1

Zone Relay Board

E 12V B A 0V — DC In — 0V 24V — J1 — AC

DIP SWITCHES

T/SAT

Connection to T/Stat

0V A B 12V

Control - shielded twisted pair 4 core (201-000-399)

(Back) CN9
(Front) CN3

Screen

0V A B 12V — J2 — DC

1 5 3 6
2 4

A2 A1 N 24V

Plug in Leads to 24VAC Damper Motors

OR not Both

Zone Damper

Zone Damper

open / closed

Temperature Remote Sensor Inputs

OSA Outdoor Unit

Power Supply

Isolator

Control Lead

Power Supply

ISD Indoor Unit

Electrical Box

To Zone Dampers

To Zone Sensors

Sat-3 Controller

(Via Zone Board Control With SAT-3)

Install New Zone Control Cover

Top hinged screw

Remove Original Electrical Box Cover

Remove original electrical cover and fit zone controller cover

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temperzone
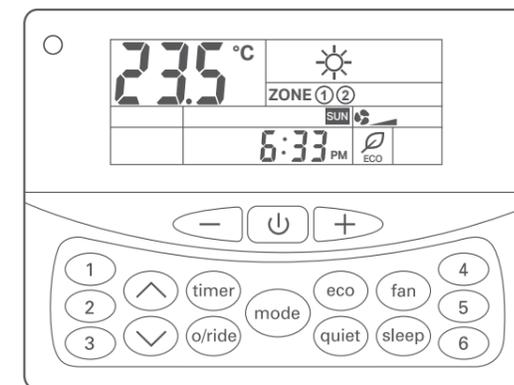### QUALITY AIR CONDITIONING

SAT-3 Wall Controller

Quick Start Guide

6 Zone Controller
Single SAT-3 system
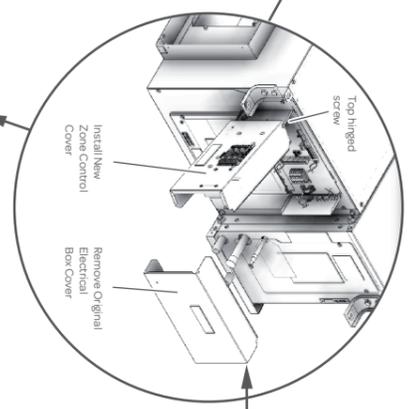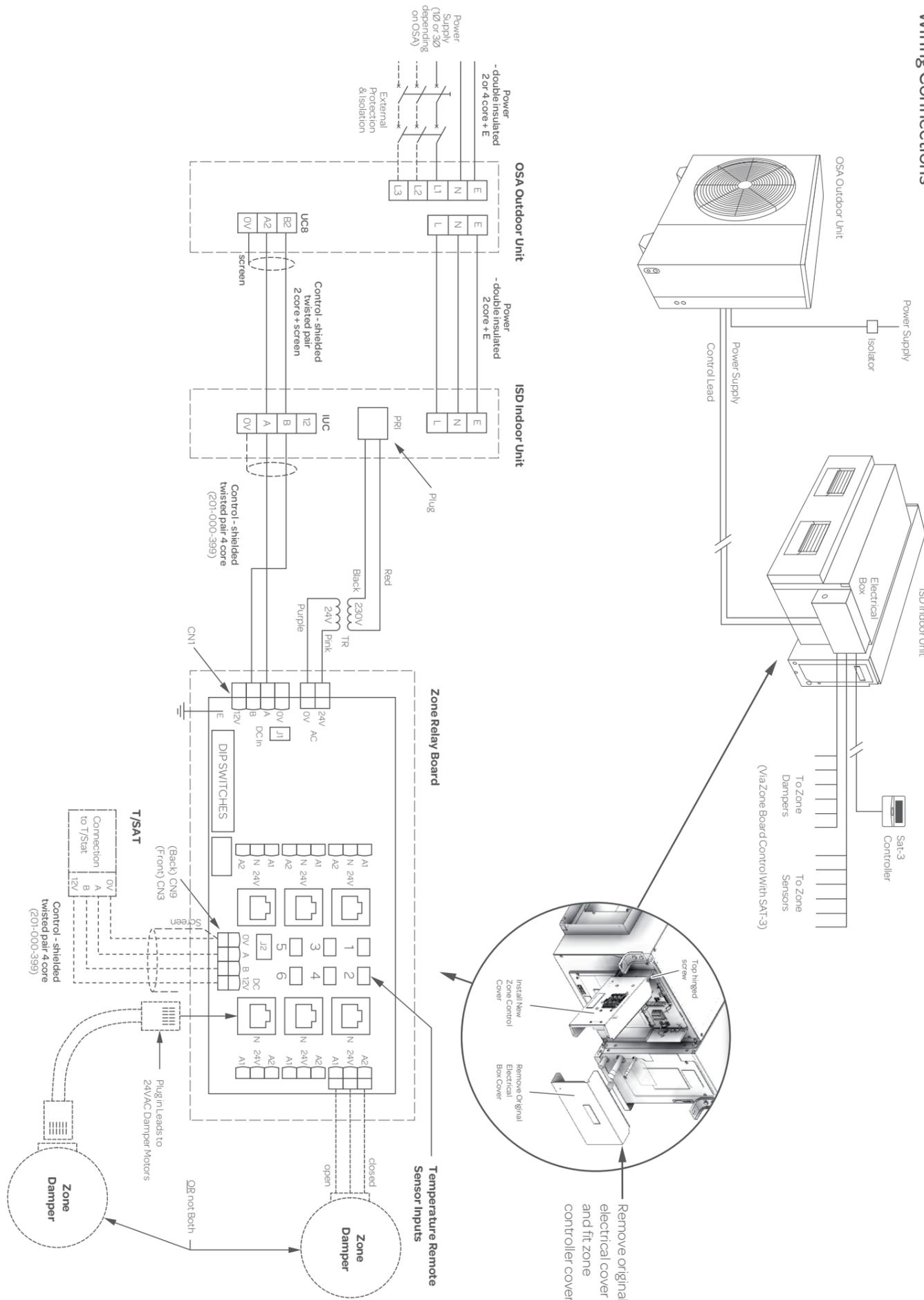

Important Note:

This Quick Start Guide is for the purpose of installing a system with a **single SAT-3 Controller**.

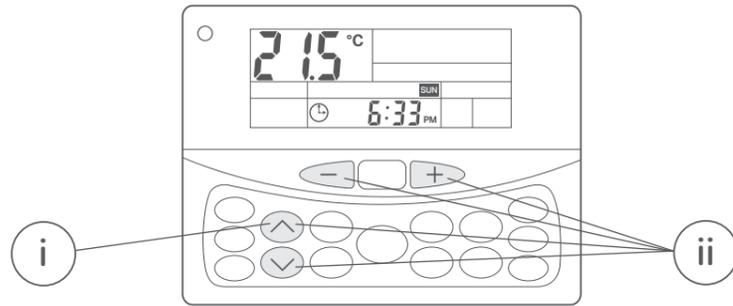If you are installing a system with a second SAT-3 controller please see our installation manual

Applies to:

Zone Control Kit, part number 201-000-073
Software version 1.0 or later
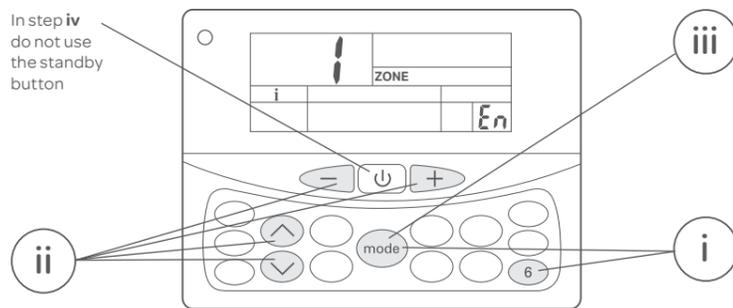SAT-3 room temperature controller, part number 201-000-146

Step 1: Set the Clock

i. Leave the system in standby mode (off). Hold down the **up arrow** or **down arrow** key for 3 seconds to start adjusting the clock. The **clock symbol** will flash as well as the presently selected **day of the week**.

ii. Set the day of the week and time. Use the **up arrow** or **down arrow** to scroll through the different settings, and the **—** or **+** buttons to adjust these settings. When the day and time is set leave the SAT-3 for 15 seconds to return to normal operation.

Note: Error code 'A1' will flash. Ignore this until Step 5

Step 2: Adjust the Installation Settings
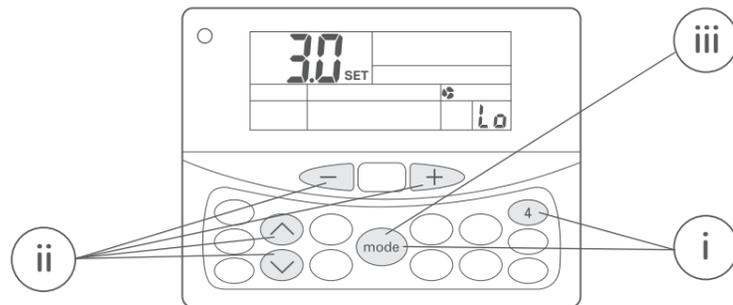
In step **iv** do not use the standby button

i. Set the SAT-3 controller to installer mode by holding down **mode** and **6** together for 3 seconds.

ii. Use the **up arrow** or **down arrow** to scroll through the different settings. Adjust the required settings using the **—** or **+** buttons. Adjust the following settings:

    a. **Enable zone control:** Change the 'Enable/disable zone control' setting to 1.

    b. **For each installed zone, set the zone size**: This is the number of air outlets installed in that zone. If a zone is not installed leave it at the default 0.

Setting	Screen Display	Setting Options	Notes
Enable/disable zone control	i ZONE En	1 = On or 0 = off	Default 0 (disabled), Change to 1 (enabled).
Zone 1 Size	i ①	1 to 5	Set to no. of air outlets in zone. Default 1.
Zone 2 to 6 Sizes	i ② to ⑥	0 to 5	Set to no. of air outlets in zone. Default 0 = not installed.

iii. When adjustment is complete press **mode** to exit installer mode.

iv. Cycle the power off for 10 seconds then on again at the isolator (not using the standby button on the SAT-3). It may take up to 90 seconds for the SAT-3 and zone control to begin normal operation.
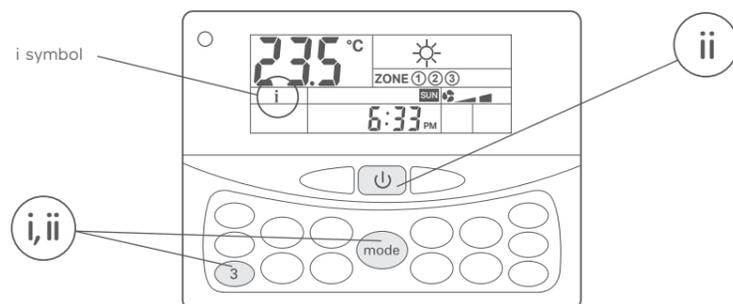

Step 3: Adjust the Fan Settings

i. Enter fan setup mode by holding down **mode** and **4** together for 3 seconds.

ii. Use the **up arrow** or **down arrow** to scroll through the different settings. Adjust the required settings using the **—** or **+** buttons. Adjust the following settings:

    a. **Set low fan speed:** While monitoring the airflow in zone 1, adjust the low fan control voltage to a suitable 'low' fan speed level.

    b. **Set high fan speed:** While monitoring the airflow in zone 1, adjust the high fan control voltage to a suitable 'high' fan speed level.

Setting	Screen Display	Setting Options	Notes
Voltage selection for 'Low' fan speed	SET Lo	2.0 to 8.0 Default 5.0	Steps of 0.333 e.g. 2.0, 2.3, 2.7, 3.0, etc.
Voltage selection for 'High' fan speed	SET Hi	4.0 to 10.0 Default 8.0	Steps of 0.333 e.g. 4.0, 4.3, 4.7, 5.0, etc.

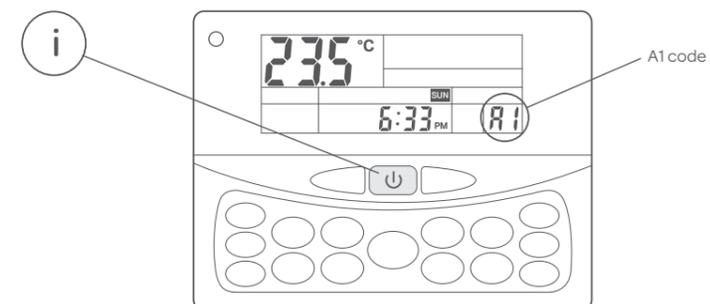**iii.** When adjustment is complete press **mode** to exit fan setup mode.

Step 4: Commission the Air Conditioner

i symbol

i. Activate commissioning mode by holding down **mode** and **3** together for 3 seconds. When the system is in commissioning mode the **i** symbol will be flashing. **Commissioning mode allows for quicker unit testing by shortening the minimum run & changeover times.**

ii. Activate the system with the **standby** button. Test the cooling and heating cycle operation of the system.

When you're satisfied commissioning is complete, de-activate commissioning mode by pressing and holding down **mode** and **3** together for 3 seconds. **Commissioning mode can be deactivated at any time following activation.** If you do not manually exit commissioning mode it will automatically end after 30 minutes and return to normal operation.

Step 5: Calibrate the Dampers

A1 code

i. Place the system in standby mode (off) by pushing the **standby** button.

Wait for the system to initiate damper calibration. While the dampers are calibrating the code **A1** will be displayed in the bottom right corner of the SAT-3 display.

Damper calibration takes around 4 minutes with Quick Dampers (15 seconds drive open/close time) but could take up to 36 minutes with very slow acting dampers (2 minute drive open/close time maximum).

Once complete the **A1** fault code will no longer display.