HI-2001
CoolCloud™ HVAC Bluetooth® Plug-In Module User Guide

The Bluetooth Plug-In Module can be used to load Shared Data onto 9-Tap blower HVAC equipment. It can be reprogrammed in the field to hold any set of Shared Data using the CoolCloud HVAC app and a compatible mobile device.

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Contents

FCC Statement

This device, which was assembled by Daikin Comfort Technologies Manufacturing, L.P., contains a component that is classified as an intentional radiator. This intentional radiator has been certified by the FCC: FCC ID QOQBGM111. And this international radiator has an Industry Canada ID: IC 5123A-BGM111.

This device complies with Part 15 of the FCC's Rules. Operation of this device is subject to two conditions:

(1) This device may not cause harmful interference; and
(2) This device must accept any interference received, including interference that may cause undesirable operation.

And this device meets the applicable Industry Canada technical specifications.

This equipment complies with FCC radiation exposure limits. To ensure compliance, human proximity to the antenna shall not be less than 20 cm during normal operations.

The manufacturer of the intentional radiator (model no. BGM111) is Silicon Laboratories Finland Oy, which can be contacted by calling 617-951-0200. (www.silabs.com)

The FCC responsible party is Daikin Comfort Technologies Manufacturing, L.P. and may be contacted by calling 713-861-2500, or at 19001 Kermier Rd., Waller TX 77484. (www.DaikinComfort.com)

WARNING

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Device Layout

A. **Green Status LED (HVAC Equipment Communication LED)** – Is used to indicate connectivity status with the HVAC equipment

LED Flash Code	Code Description
Off	No communication with BTPIM-compatible HVAC equipment
1 Hz flash	Authentication with BTPIM-compatible HVAC equipment in progress
Solid	Authentication with BTPIM-compatible HVAC equipment successful

B. **Yellow Status LED (Bluetooth Communication LED)** – Will blink periodically when the device is powered on. The Status LED will blink

LED Flash Code	Code Description
Off	BTPIM not broadcasting over Bluetooth
1 Hz flash	BTPIM broadcasting and ready to pair with CoolCloudHVAC over Bluetooth
Solid	BTPIM paired with CoolCloudHVAC

C. **BTPIM Blue Connector** – Serves as the communication interface between BTPIM and HVAC equipment. Note: this connector is keyed differently than the BTSDL (Bluetooth Shared Data Loader) connector and is electrically different. Do not attempt to plug in a BTSDL01 into a BTPIM01 connector or vice versa.

D. QR Code – A QR code that directs the user to an electronic copy of this user manual.

Setup

Before using the card, download the **CoolCloud** HVAC app for iOS or Android using the links below. Be sure to register for an account before continuing.

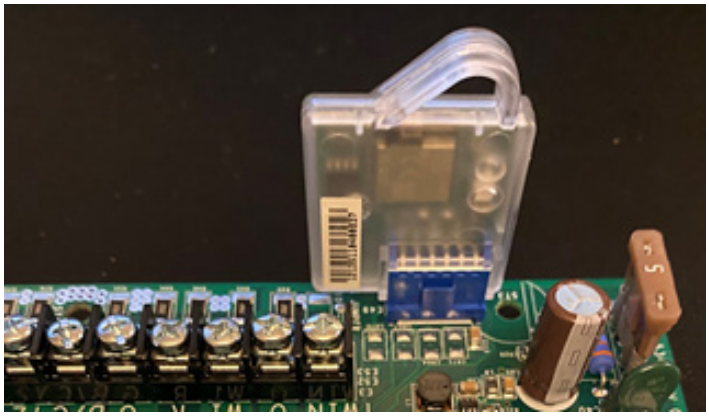
Download on the App Store

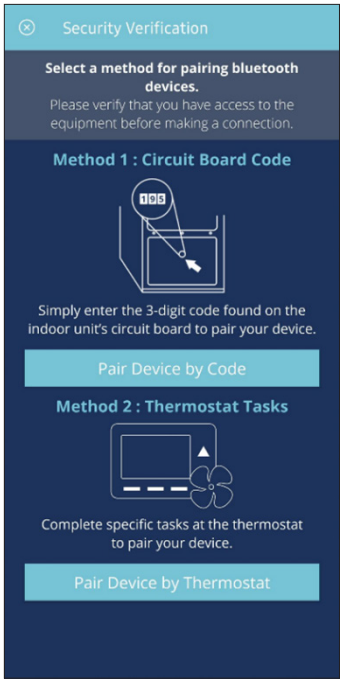
GET IT ON Google Play

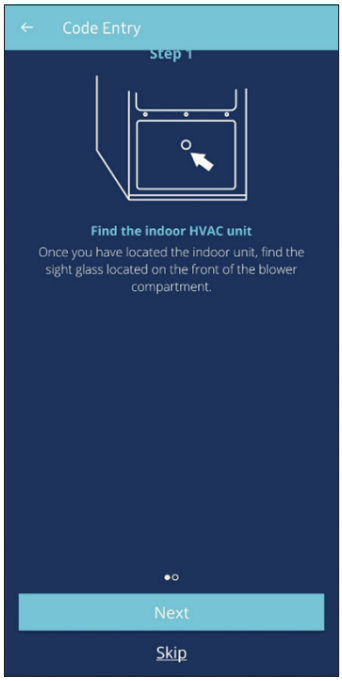
Connecting to the Device

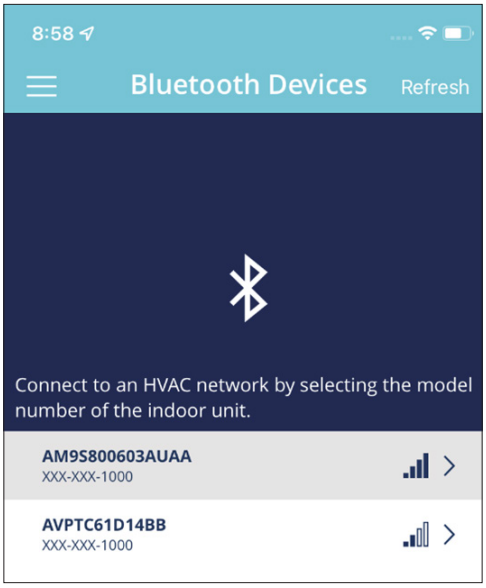
Plug in the Bluetooth ® Plug-In Module (BTPIM01) into the HVAC control. The BTPIM is ready to connect to CoolCloud once the green equipment communication LED is solid and the yellow Bluetooth broadcast LED is flashing. A solid green LED implies that CoolCloud is already connected to the BTPIM.

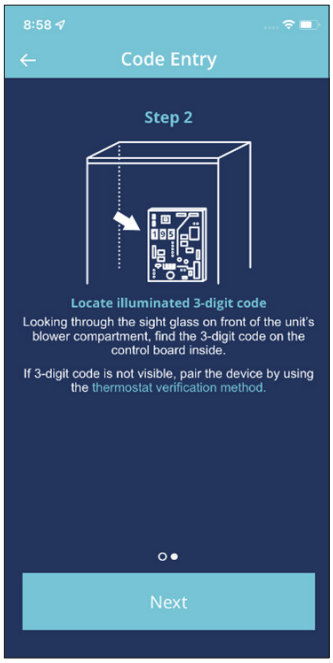
If the CoolCloud HVAC app is open, it will detect the new Bluetooth network and display model number of the connected HVAC equipment as an available network. If the connected HVAC equipment does not have a model number yet, the BTPIM01 will broadcast “BTPIM01” as the network name. Tap on this network to connect.

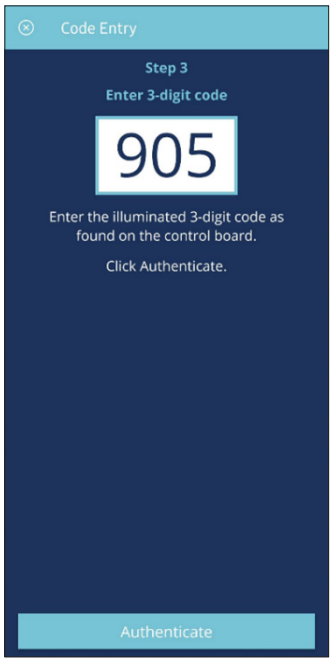












If the network does not appear, ensure the green Bluetooth status LED on the device is flashing and tap the refresh button in the app to continue scanning for networks.

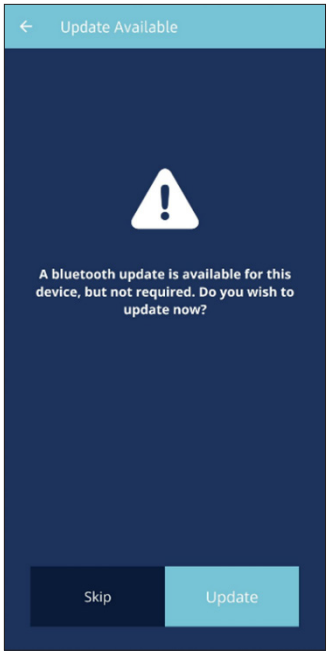
Bluetooth connections from the CoolCloud app may require security verification. Choose “Pair Device by Code” and enter the code displayed on the seven segment display of the HVAC control board. Note: *“Pair Device by Thermostat” authentication method is not currently supported.*

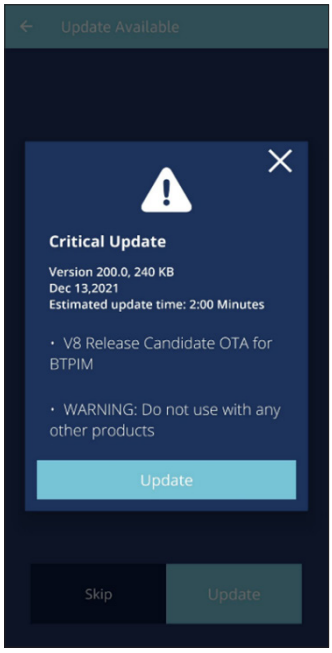
The code displayed on the HVAC equipment will clear automatically once authentication over Bluetooth is successful.

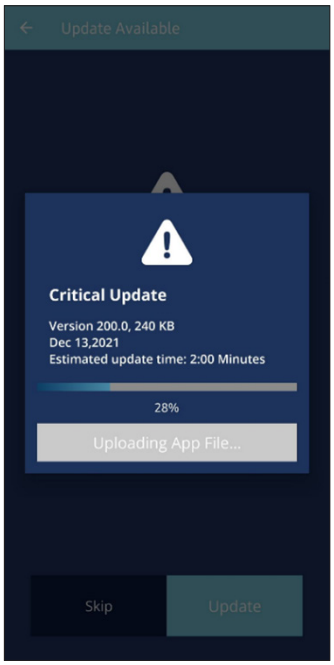
Over-The-Air (OTA) Updating the BTPIM01 Software

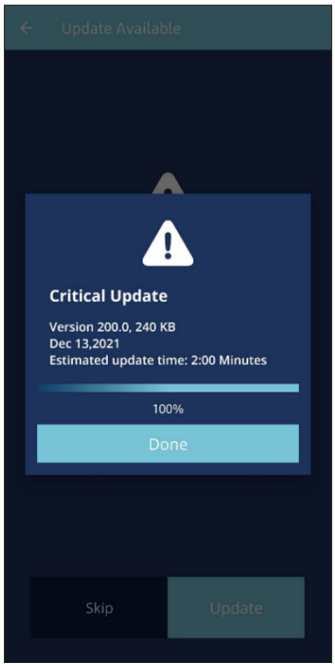
From time-to-time CoolCloud will show a prompt if an OTA software update is available for the BTPIM01 software. Goodman periodically enhances the BTPIM01 software so it is recommended to proceed with this update whenever possible. The update process should not take longer than 2 minutes. The BTPIM will restart automatically once OTA software update is complete. In the unlikely case that the BTPIM01 does not reboot after a software update, please un-plug and re-plug the BTPIM01.

Note: At the moment only OTA updates for the BTPIM01 software are supported. BTPIM01 is unable to update the software of the connected HVAC equipment, however, this may change in the future.



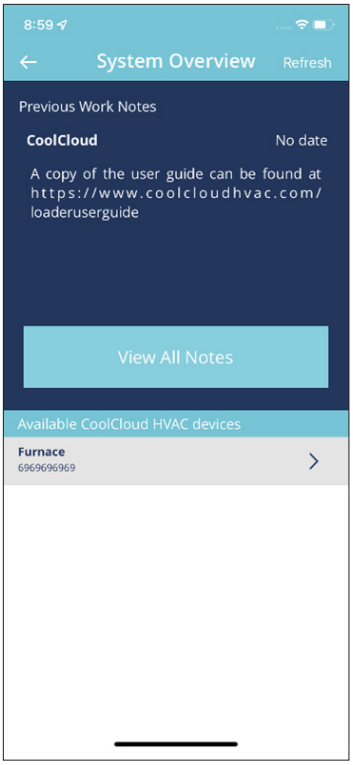


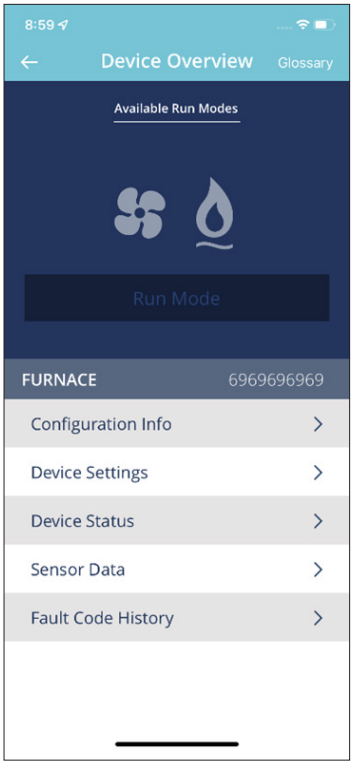


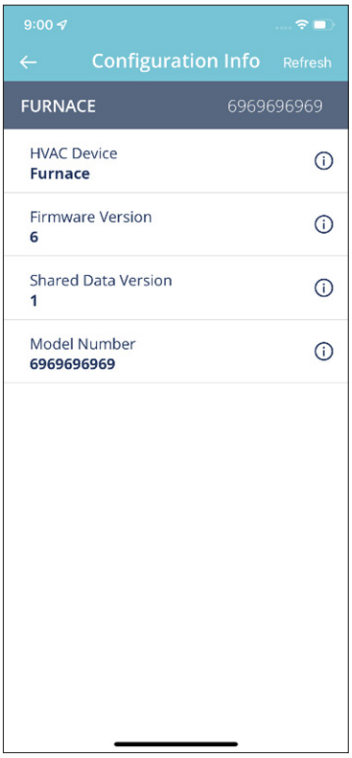


Viewing System Configuration

The connected equipment's configuration can be viewed by going to **Furnace > Configuration** from the **System Overview Screen**. *Note: currently only HVAC Device and Firmware Version is available to view.*







Reprogramming 9-Tap HVAC Equipment Shared Data Using BTPIM01

The connected equipment's Shared Data can be updated by going to **Furnace > Shared Data** from the **System Overview Screen**.

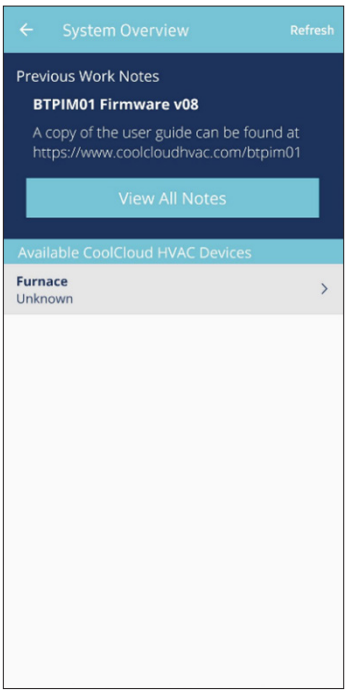
From here, the appropriate Shared Data can be selected by either scanning a barcode that can be found on the unit or by typing in the model number of the unit. If possible, scanning the 2D barcode is recommended to get the most accurate results. If this barcode is faded, damaged, or cannot be found, then it will be necessary to enter the model number instead.

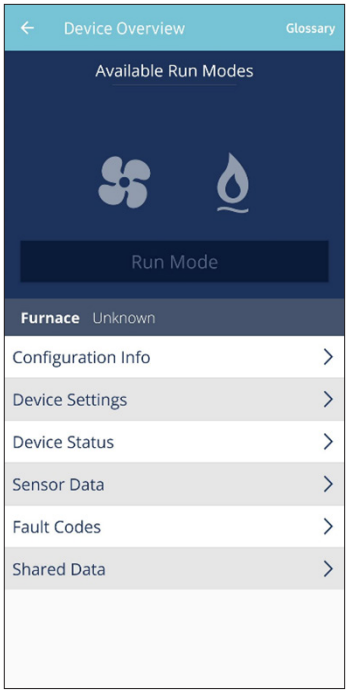
The 2D barcode can typically be found somewhere inside the unit. The barcode can typically be found on the blower deck. This 2D barcode will always have the model number of the unit printed next to it.

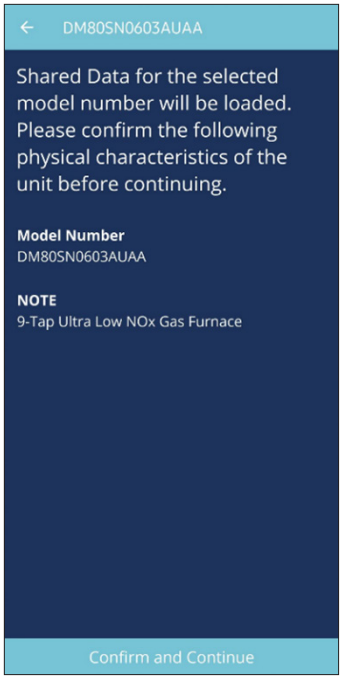
After selecting the desired model number, the app will present a confirmation screen. Review the information on this screen, then, if the information looks correct, click "Confirm and Continue" to program the selected Shared Data onto the card.

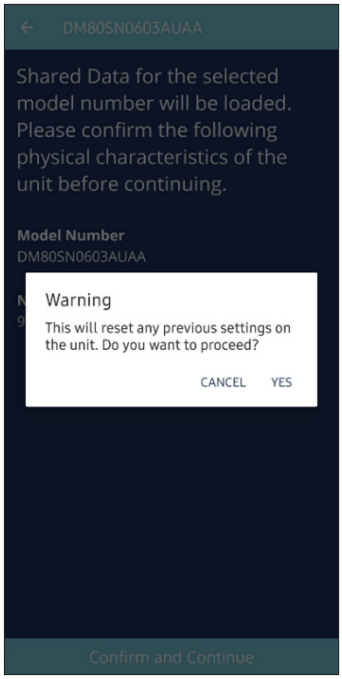
If the information shown on the confirmation screen does not look correct, it may be necessary to choose a different set of Shared Data. Return to the previous screens and ensure the model number provided in the app is correct. If possible, use the camera to scan the 2D barcode instead of manually selecting the model number from the list.

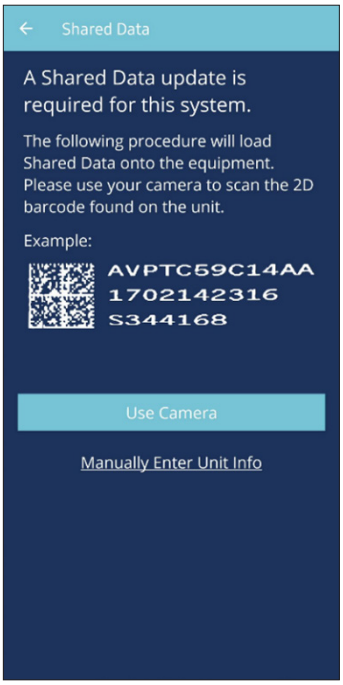
Note: Not all HVAC equipment support shared data.


System Overview
Refresh
Previous Work Notes
BTPIM01 Firmware v08
A copy of the user guide can be found at https://www.coolcloudhvac.com/btpim01
View All Notes
Available CoolCloud HVAC Devices
Furnace
Unknown

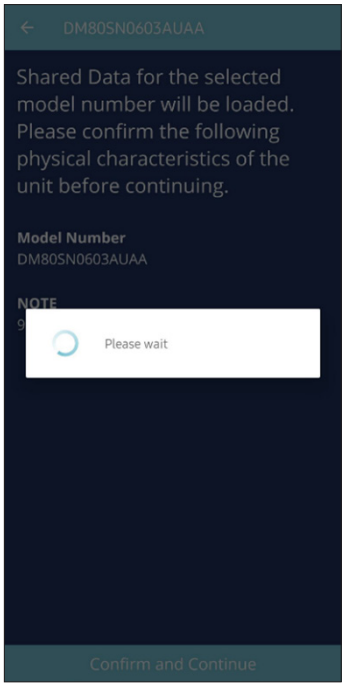

Device Overview
Glossary
Available Run Modes
Run Mode
Furnace Unknown
Configuration Info
Device Settings
Device Status
Sensor Data
Fault Codes
Shared Data

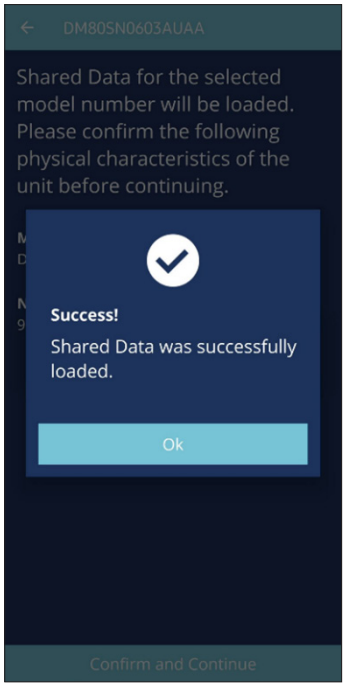

DM80SN0603AUAA
Shared Data for the selected model number will be loaded. Please confirm the following physical characteristics of the unit before continuing.
Model Number
DM80SN0603AUAA
NOTE
9-Tap Ultra Low NOx Gas Furnace
Confirm and Continue


DM80SN0603AUAA
Shared Data for the selected model number will be loaded. Please confirm the following physical characteristics of the unit before continuing.
Model Number
DM80SN0603AUAA
Warning
This will reset any previous settings on the unit. Do you want to proceed?
CANCEL
YES
Confirm and Continue


Shared Data
A Shared Data update is required for this system.
The following procedure will load Shared Data onto the equipment. Please use your camera to scan the 2D barcode found on the unit.
Example:
AVPTC59C14AA
1702142316
S344168
Use Camera
Manually Enter Unit Info


Shared Data
Camera
Search Model Numbers...
Select a Model Number
DM80SN0603AUAA
GM9S960403BUAA
DM96SN0603BUAA
AM9S800804BUAA
GM9S800805CUAA
DM80SN0604BUAA
GM9S800804BUAA
GM9S800603AUAA
DM96SN0805CUAA
AM9S800604BUAA
DM80SN0805CUAA


DM80SN0603AUAA
Shared Data for the selected model number will be loaded. Please confirm the following physical characteristics of the unit before continuing.
Model Number
DM80SN0603AUAA
NOTE
Please wait
Confirm and Continue


DM80SN0603AUAA
Shared Data for the selected model number will be loaded. Please confirm the following physical characteristics of the unit before continuing.
Success!
Shared Data was successfully loaded.
Ok
Confirm and Continue

Additional Notes

What is Shared Data?

There are many different models of equipment offered under the 9-Tap platforms; however, all these models use only a small handful of control boards. To make sure each control board can work inside its intended chassis, we load each board with a small amount of chassis-specific data when the equipment is assembled. Not all 9-Tap control use shared data.

When is it Necessary to Load Shared Data?

Shared Data update is typically only needed when switching out the 9-Tap HVAC equipment control board if performance enhancements were made to the existing shared data set.