

PRESENTERS - CoolAutomation <> URC



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COOLAUTOMATION

SOLUTIONS **FOUNDED FOR VRF** 2009 INTEGRATION, CONTROL, **MANAGEMENT** AND SERVICE

BASED IN ISRAEL

PRIVATELY HELD & FUNDED

worldwide presence 100+

COUNTRIES

5000 SITES ADDED ANNUALLY 100,000+

SYSTEMS WORLDWIDE

• 50+ Distributors worldwide

Local offices in North America, LATAM, EMEA, Australia and Asia





Agenda

- 1. HVAC Systems A quick overview
- 2. CoolAutomation Range of Solutions
- 3. CoolAutomation Compatibility & Connectivity Highlights
- 4. URC Configuration Details
- 5. HVAC Integration: The Solution Design
- 6. Use Cases and Q & A





HVAC SYSTEMS - OVERVIEW



Unitary / DX Split Systems



Minisplit / Multizone Systems



VRF Systems



HVAC SYSTEMS - APPLICATIONS



SMALL SCALE
Residential Sector





LARGE SCALE
Large-Commercial Sector



Multi-Split (multi-zone) (Inverter / Non-Inverter)





Chillers





Mini-Split (single zone) (Inverter)





Fan Coils (FCU)





mini VRF Systems
(Inverter, up to 32 zones)





Rooftop + Custom





Radiant Floor Heating (Hydronic or Electric)



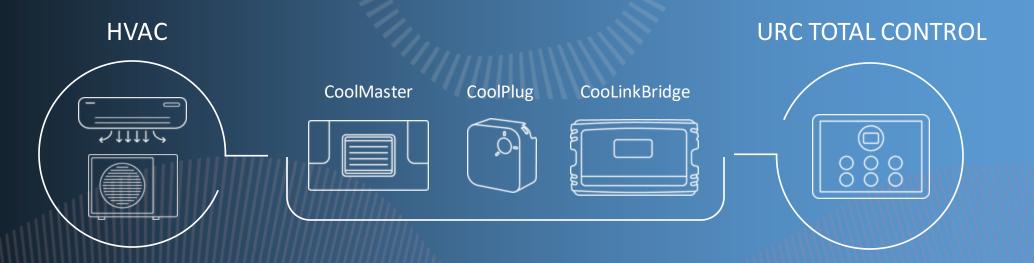


VRF Systems (Inverter, up to 256 zones)





INTEGRATION OPTIONS





VRF SYSTEMS - COOLMASTER

Simple-to-Commission Universal VRF Integration



- Support for all VRF manufacturers
- Plug & Play solution for on-site integration
- Auto-discovery of all connected indoor units
- Remote Access for Support
- User-friendly Touch Screen







Split/Multi Split - COOLPLUGS & COOLINKHUB

Cost-effective mini-split and multi-split HVAC integration



- Support for virtually all mini-split manufacturers
- Comprehensive solutions for on-site integration
- Wired & Wireless networking options
- Remote Access for Support







Conventional/Unitary - CooLinkBridge

Connecting all non inverter (Legacy) HVAC, underfloor heating



- Connect underfloor heating systems
- Connect environmental sensors
- Same plug and play integration process







TOUCH-SCREEN, WALL MOUNTED CONTROLLER - GS-SMT-131

HVAC unit

Main Functions

TFT touch screen interface

On/Off, Setpoint, Fan speed control

Onboard temperature sensor for Room temperature reading

Modbus RTU network interface

24VAC power and control

And more

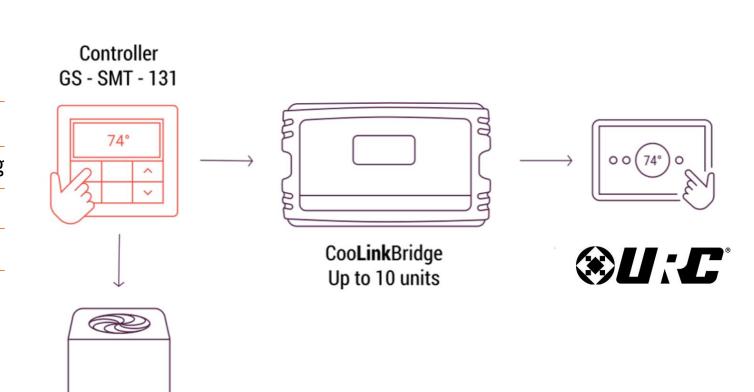
Technical info

Up to 10 units per CooLinkBridge

Up to 48 units per CoolMasterNet line

Power Input: 24Vac

Size: 113 x 103 x 25mm



UNDERFLOOR HEATING CONTROLLER - GS-SMT-HOA

Main Functions

Read Zone Temp from an external (included) sensor

Each zone is separately displayed/controlled in Cloud Apps

8 separate loops – each with Temp sensor, Setpoint, Output

Technical info

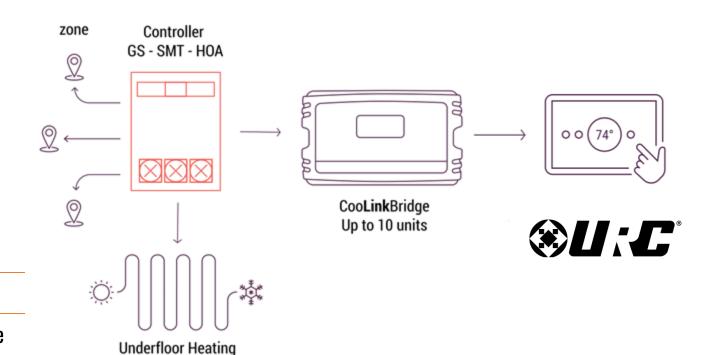
8 x 10K Temperature sensors

8 Relay Outputs, 5Amp

Up to 4 Controllers (total 32 zones) connected with CooLinkBridge

Up to 10 Controllers (total 80 zones) connected with CoolMasterNet

Power Input: 24Vdc, 0.5A





URC and CoolMaster - INTEGRATION

The CoolMaster Module

seamlessly integrates with the

CoolMaster Bridge

with

URC's Total Control system



Works with all CoolMaster products





URC and CoolMaster - INTEGRATION

Supported Features:

- Control multiple units
- Change Thermostat Modes, Fan Modes and Louver Positions
- Rename HVAC units
- Group view of thermostats
- Direct commands available (in macros)
 for any/all the above







URC and CoolMaster – FINDING THE MODULE

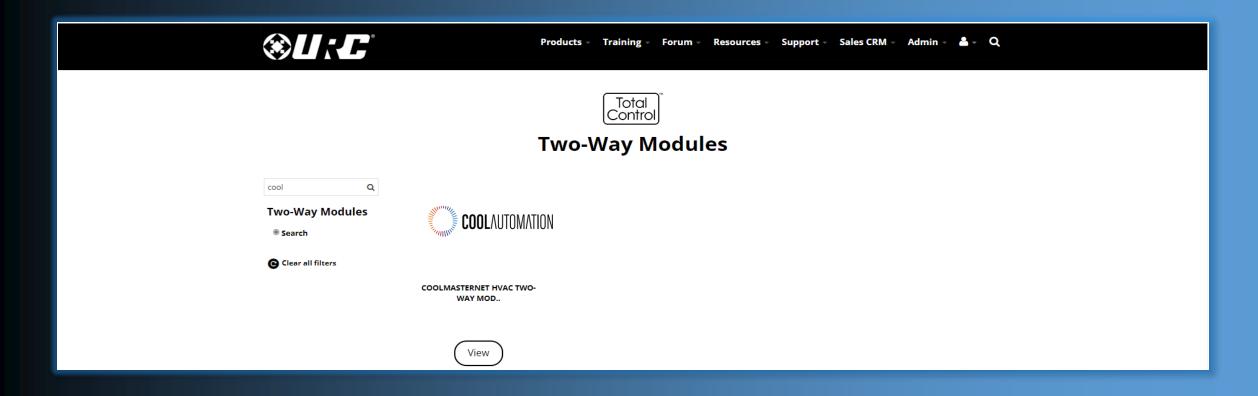


BROWSE to our Total Control Modules in the Resources section on the Dealer Portal. www.urcportal.com





URC and CoolMaster - FINDING THE MODULE

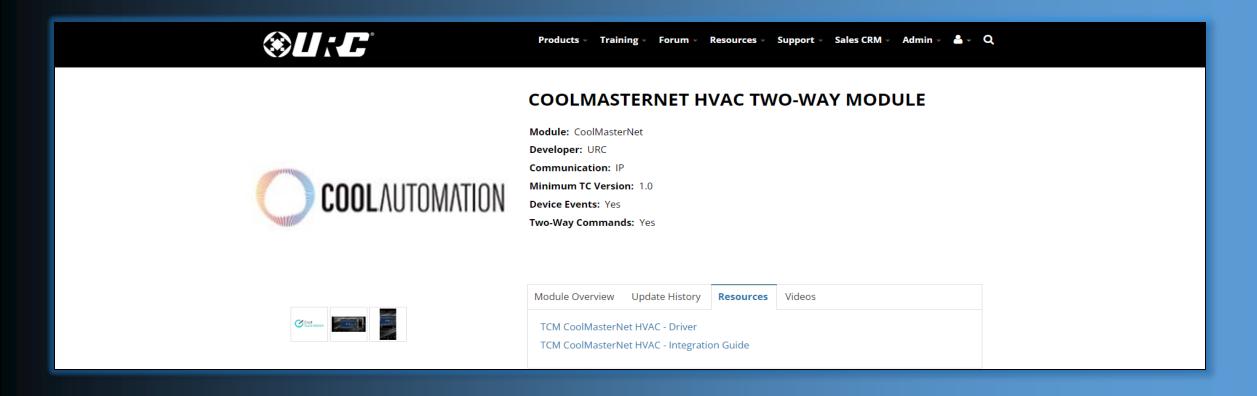


SEARCH for CoolMaster.





URC and CoolMaster - FINDING THE MODULE

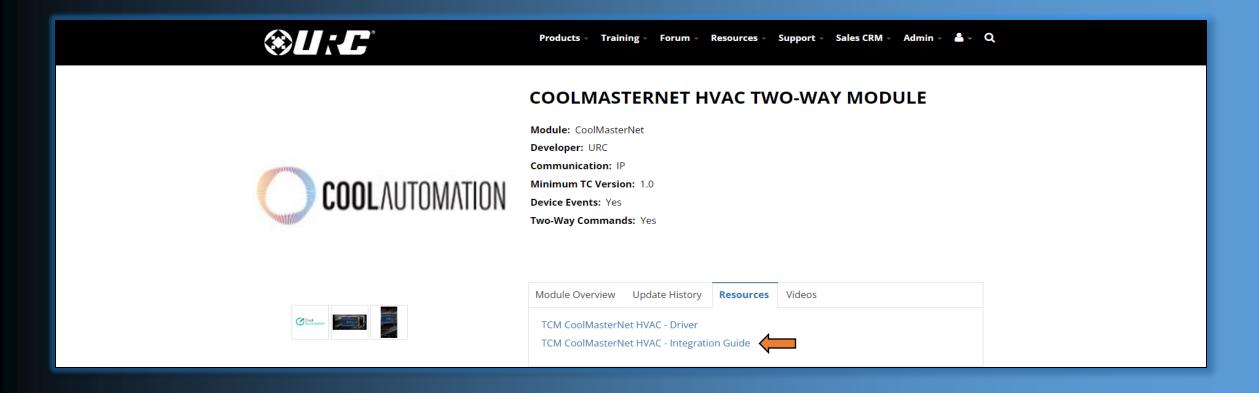


DOWNLOAD the TCM CoolMasterNet HVAC - Driver.





URC and CoolMaster - FINDING THE MODULE



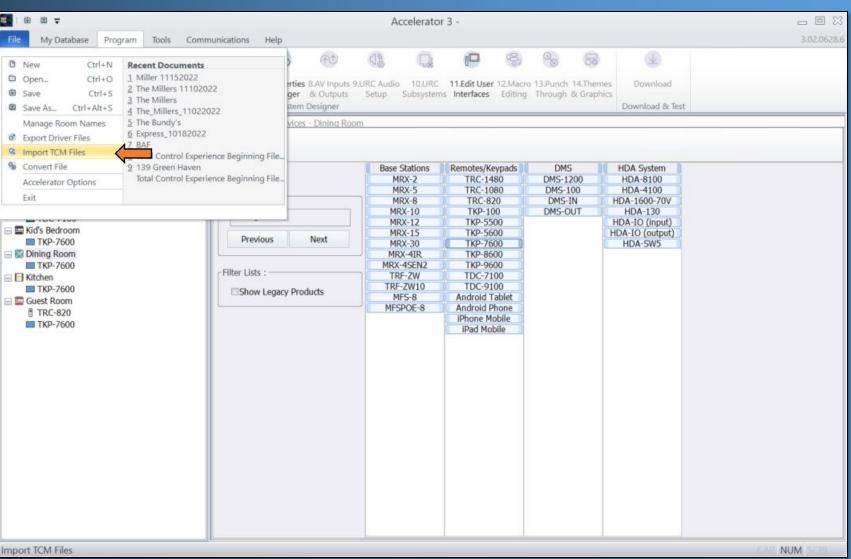
CoolMasterNet Integration Guide available for download





URC and CoolMaster - IMPORTING THE MODULE

Go to File > Import TCM Files and select the downloaded CoolMaster TCM file.



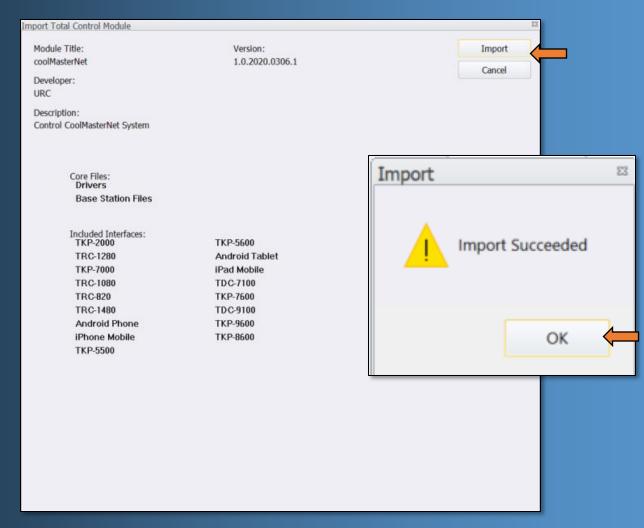




URC and CoolMaster – IMPORTING THE MODULE

Click on Import.

Click on **OK**.

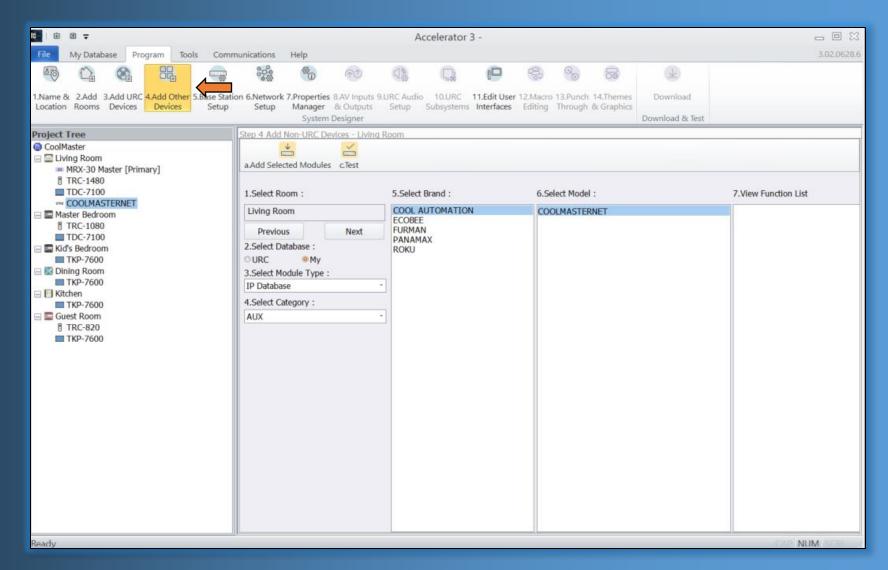






Step 4. Add Other Devices

- My Database
- IF
- Aux

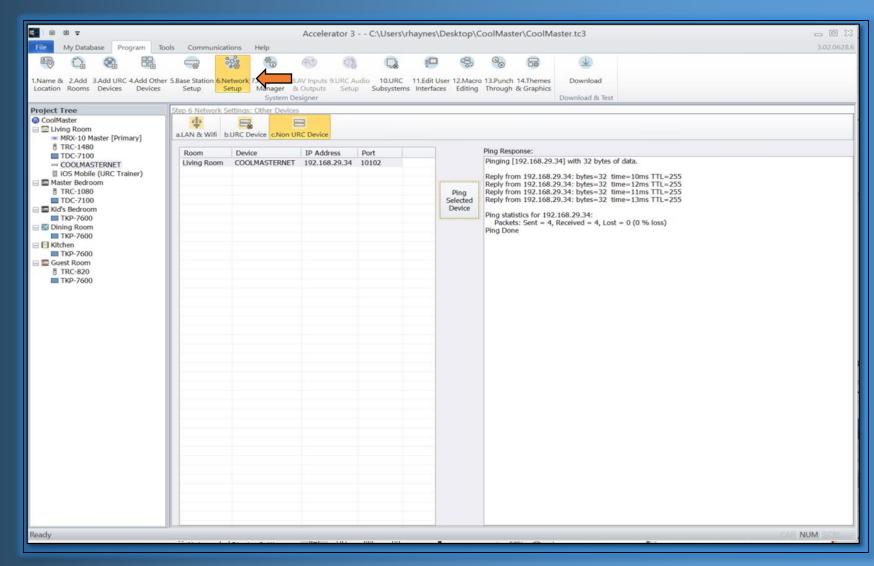






Step 6. Network Setup

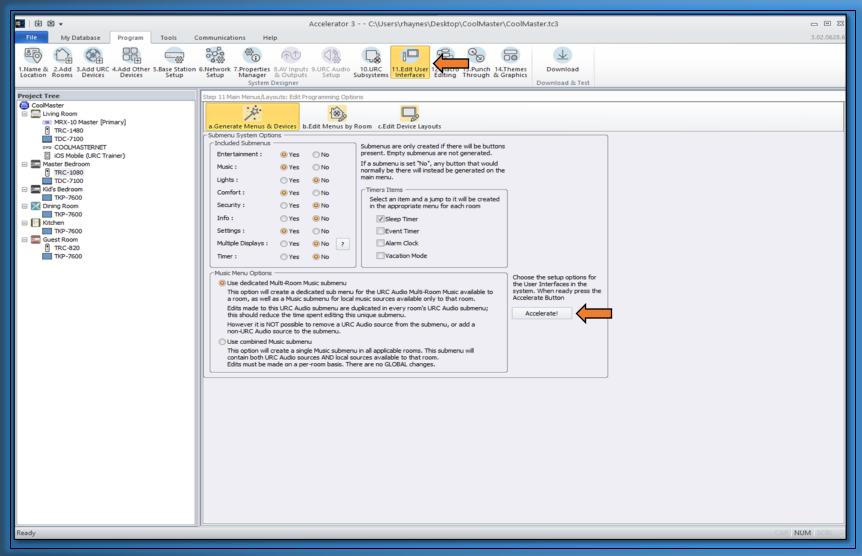
Enter IP Address







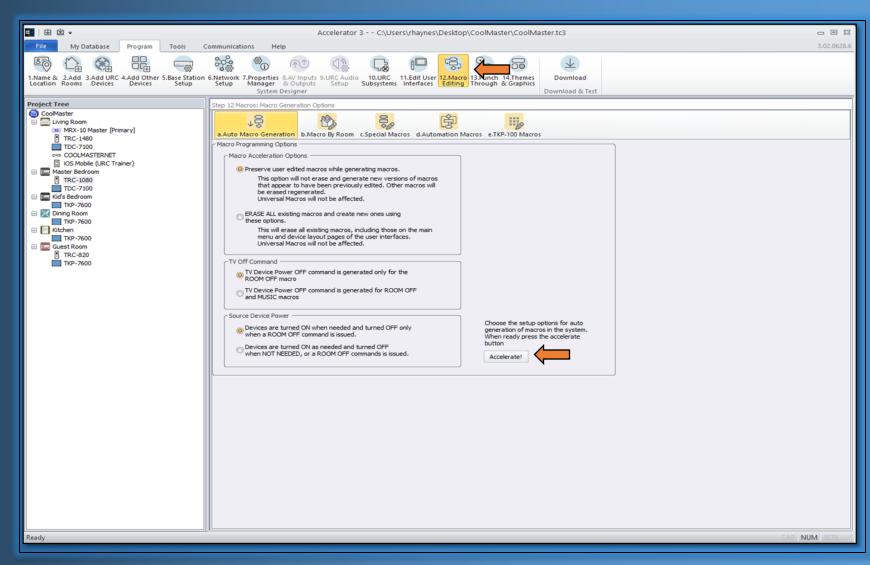
Step 11. Edit User Interfaces and hit Accelerate!







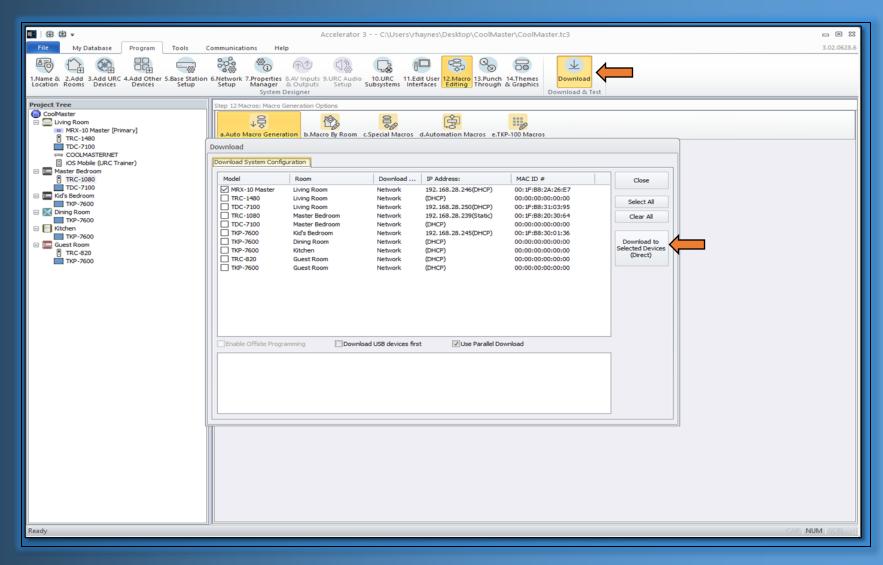
Step 12. Macro Editing and hit Accelerate!







Download







URC and CoolMaster – MODULE CONTROL

COOLMASTERNET

Now COOLMASTERNET

Module Control

Within the GUI provided, use sliders/buttons to control the thermostat



Living Room





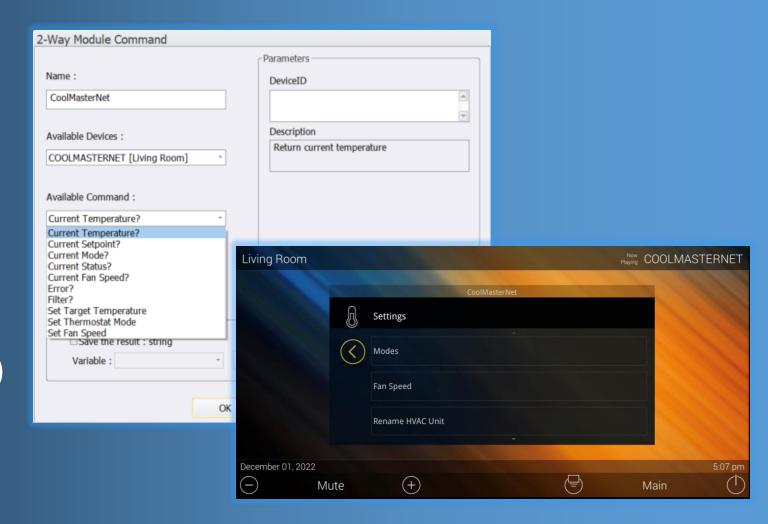


URC and CoolMaster - CONTROLLING COOLMASTERNET

Macro Control

Ability to create a "button" that can control any/all of the following:

- Setpoint
- Thermostat Mode (Heat/Cool/Auto/Off)
- Fan Speed (Low/Med/High/Auto)







URC and CoolMaster – Summary

Adding The Module To Accelerator

- Download The Module
- Install the Module

Adding The Module To Project

- Add device
- Add IP address
- Accelerate/Download









HVAC INTEGRATIONS: SOLUTION DESIGN PROCESS



What is the type and brand of the required HVAC?



Get the exact HVAC equipment list

- Mechanical
- Drawings Equipment Scope



How many indoors/zones need to be integrated?



Share the list with your local CoolAutomation Pre-Sale and Solution **Design team**



STEP



Complete Driver Integration into the URC Total Control System

STEP



COMMONLY ASKED QUESTIONS

- Can the original vendor's thermostats/central controllers be removed, or should they remain?
- Where is the temperature measured on the HVAC side if wired remotes are removed?
- Can the CoolMaster work with different systems simultaneously?

- Are there any additional components required from the HVAC Vendors for integration with CA and URC Total Control? BACnet Adapters? 24VAC Thermostat Adapters? etc
- How to control every indoor individually?
- What to do, if HVAC contractor left the job and/or doesn't support the equipment anymore?





WHY WORK WITH COOLAUTOMATION?

- Leverage CoolAutomation's Expertise in Complex HVAC Connections and closed-up Protocols
- Plug & Play auto detects all connected HVAC units for all brands and manufacturers
- Bi-directional communication with HVAC systems for passing commands, reading errors and all technical service data
- Built in Support for the major Industrial protocols/platforms on a single device BACnet, Modbus
- Open ASCII protocol and REST API for easy integration with any other control system
- URC <> CoolAutomation Partnership: Native driver for direct integration into URC Total Control Systems
- Superior Support with Remote Support and Remote Service Capabilities
- Ready for connectivity to all available CoolAutomation Cloud Solutions for Multi-site Management

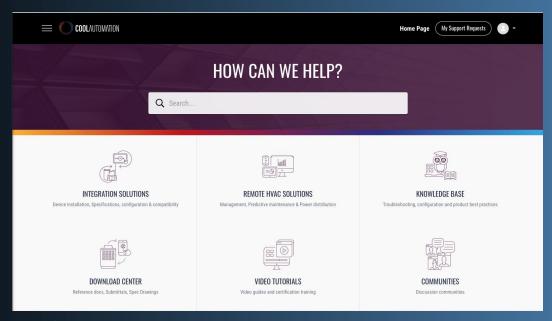




Resources

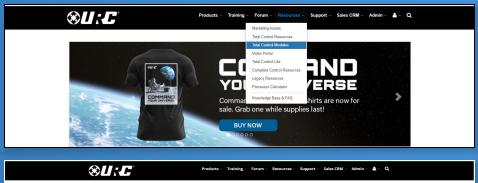
CoolAutomation





Online Support Center Installation Guides, Video Tutorials, Software Configuration Tool Downloads, etc

www.coolautomation.com/support





BROWSE to Total Control Modules in the Resources section on the Dealer Portal.

www.urcportal.com

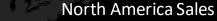




CoolAutomation Contact Details

Global Tech Support

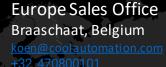
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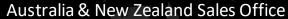
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