



COOLAUTOMATION

legrand®

Legrand & CoolAutomation Live Webinar

HVAC Integration Made Easy with Vantage Control Systems



COOLAUTOMATION



Presenters



David Diez-Perez

North America Sales Manager
Home Automation & Integration

- 9+ years in Building Automation & HVAC Controls
- Based in St. Petersburg, FL



COOLAUTOMATION



Michael Campagna

Sr. Product Manager
Shading & Residential Controls

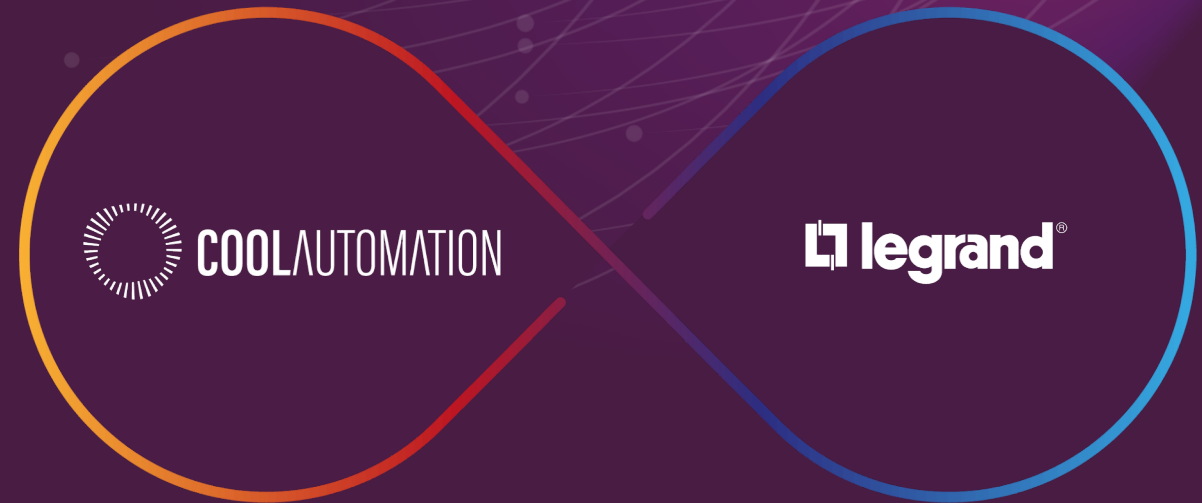
- 14 years in Home Automation & Lighting/Shade Control
- Based in Fort Lee, NJ



VANTAGE®

Agenda

- Introduction: CoolAutomation and Legrand Overview
- HVAC Market Segmentation
- CoolAutomation Solutions for each Segment
- Overview of Products and Connectivity Options
- Setup and Configuration Process in Design Center
- Solution Design Process
- Advantages of Working with Legrand and CoolAutomation
- Where to find materials and resources for integration



CoolAutomation

Founded
2009

Solutions
for HVAC
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

CoolAutomation Expertise

HVAC Gateways



Technology Partners



HVAC Big Data for Service



HVAC Private Cloud



About Vantage

Vantage Control Systems

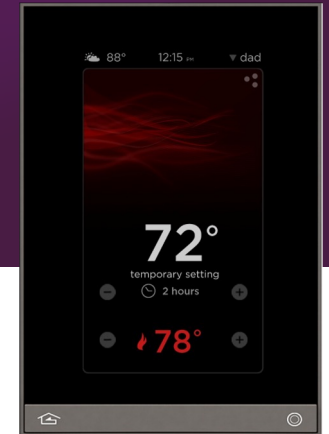
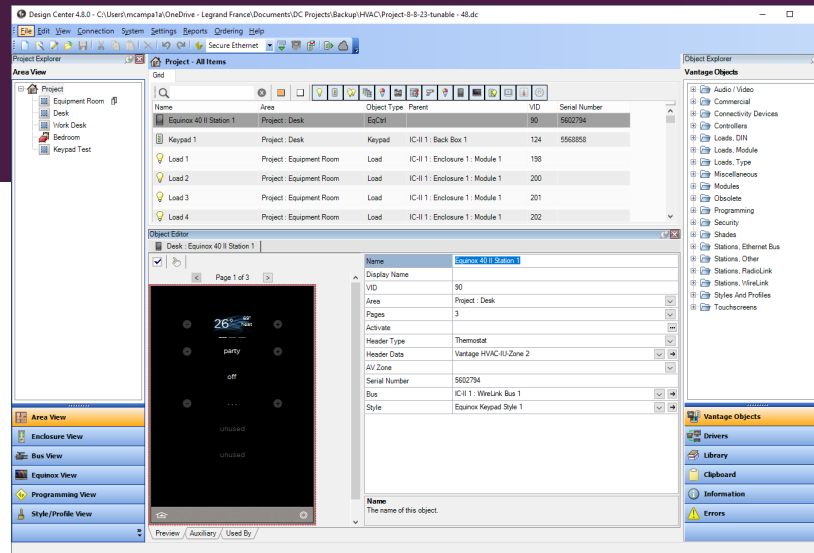
Established in 1986, adopted into the Legrand family in 2006

Vantage has continued to transform light and develop high-quality smart control solutions for the luxury residential market.



Why Vantage

- Proven pedigree of automation and advanced lighting control
- Premium luxury user interfaces
- Simple design and programming through Design Center
- Freedom of design



Popular HVAC Brands in the Market



HITACHI

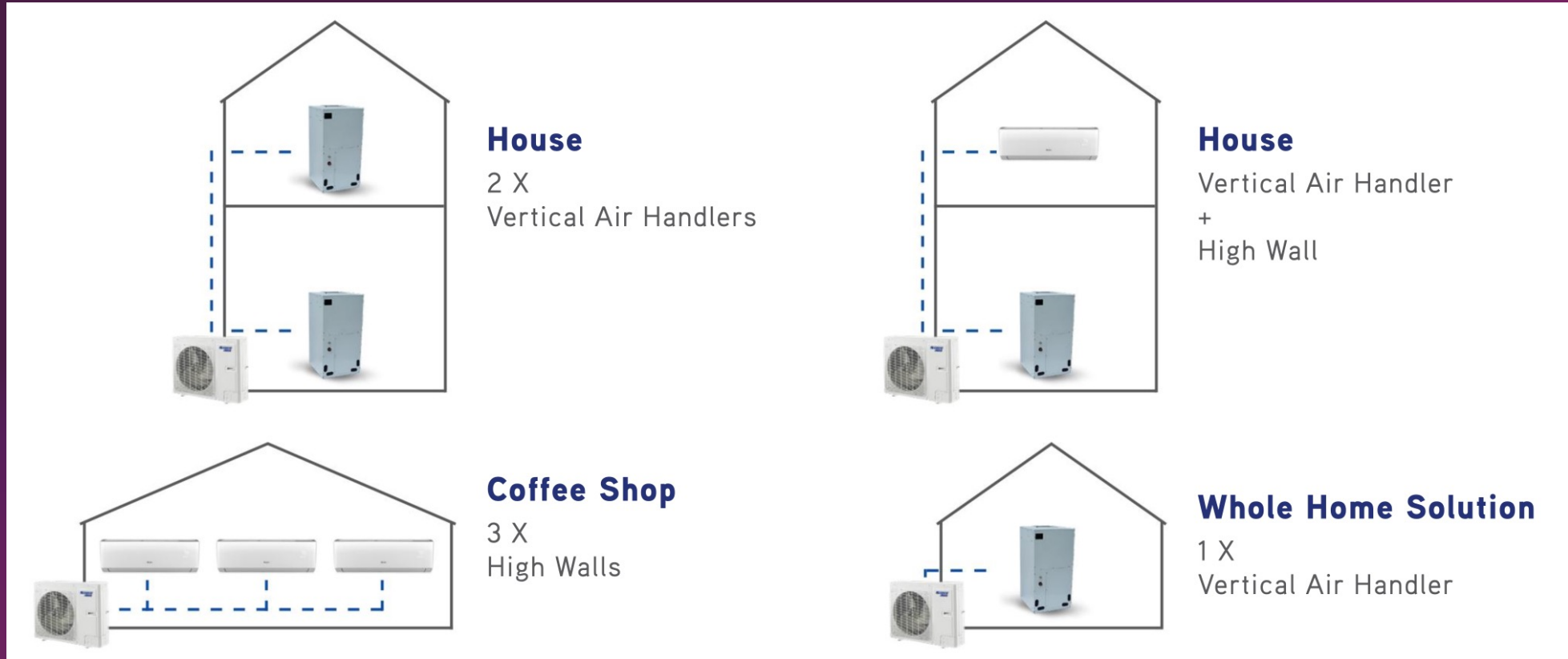


TOSHIBA



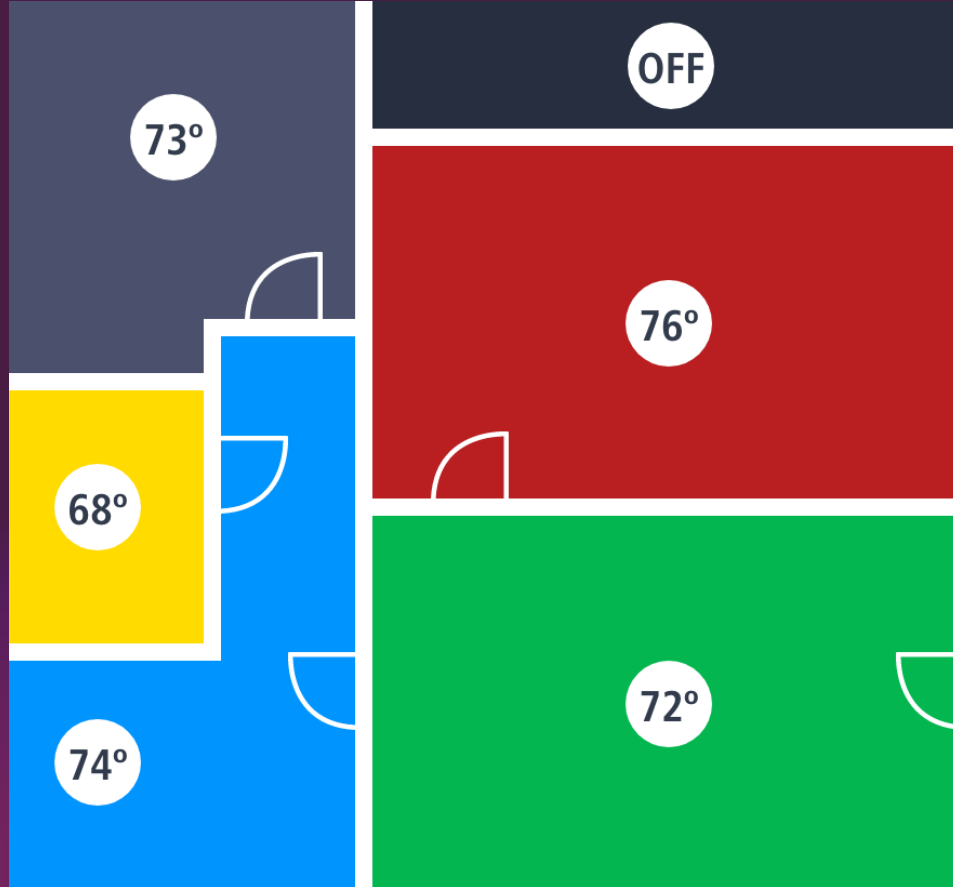
HVAC Systems - Overview

Common Options in North America

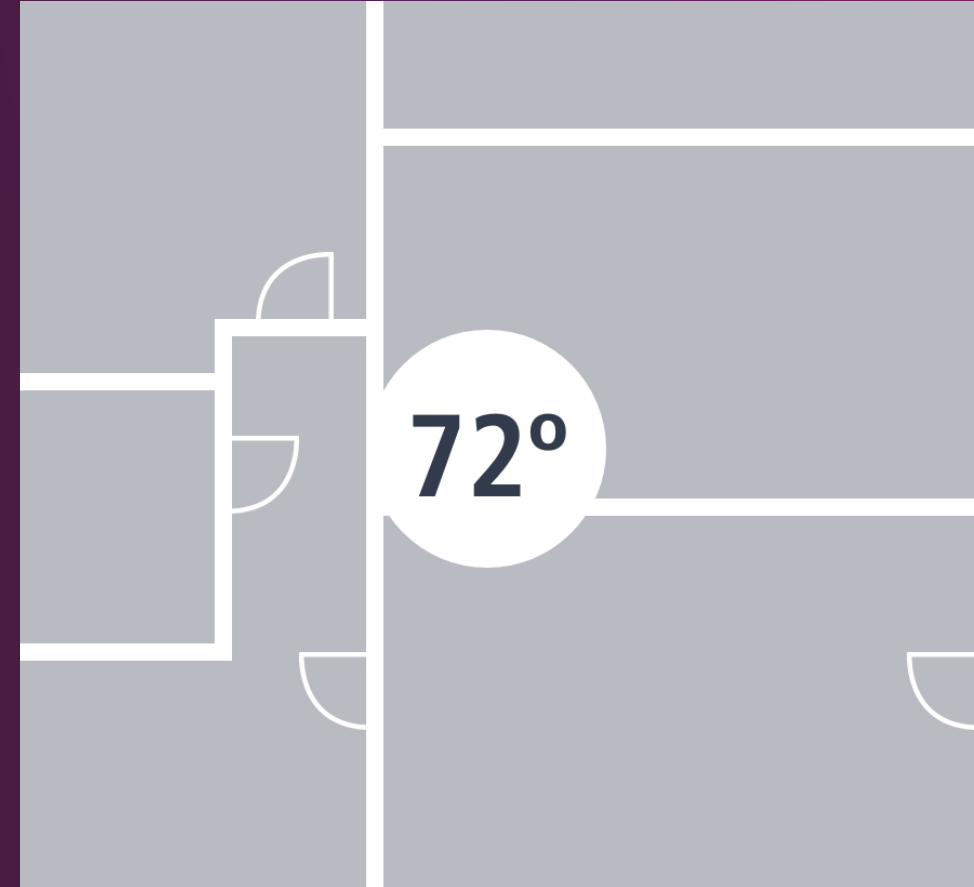


HVAC Systems - Overview

Advanced Multi-Zone Climate Comfort Options



Conventional Whole Home Solution



HVAC Systems - Overview

Advanced Multi-Zone Climate Comfort Options



HVAC Systems - Overview

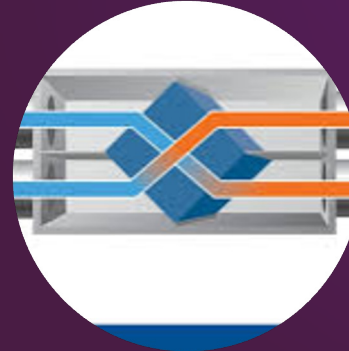
Heat Pumps



Underfloor heating



Heat recovery ventilation (HRV)



Zoning systems



Unitary / DX



Minisplit / Multi split Systems



VRF Systems



Chilled water systems



HVAC Systems - Applications

Small Scale

Residential Sector



Medium Scale

Large Residential / Light Commercial Sector



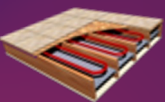
Multi-Split (Ductless)
(Inverter / Non-Inverter)



Mini-Splits



Zoning systems



Radiant Floor Heating
(Hydronic or Electric)



Unitary



Fan Coils (FCU)



Rooftop + Custom

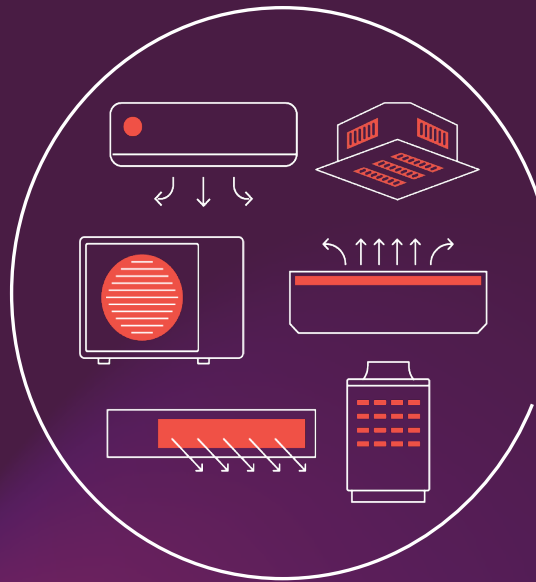


VRF Systems
(Inverter, up to 256 zones)

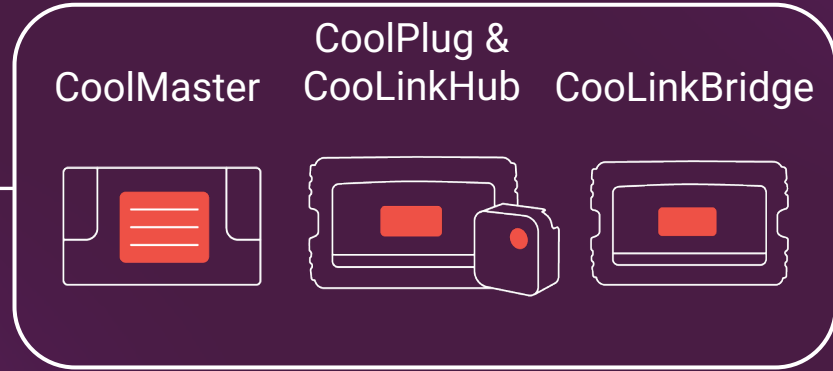


Universal HVAC Solution - **Single Driver**

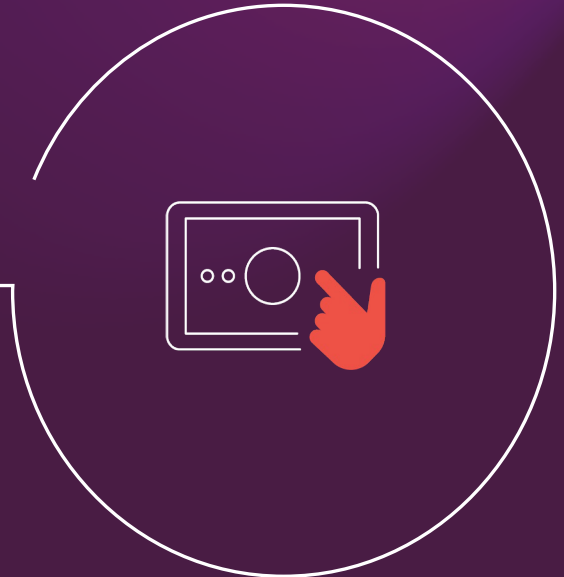
HVAC



CoolPlug &
CoolMaster CoolLinkHub CoolLinkBridge



Vantage Controls



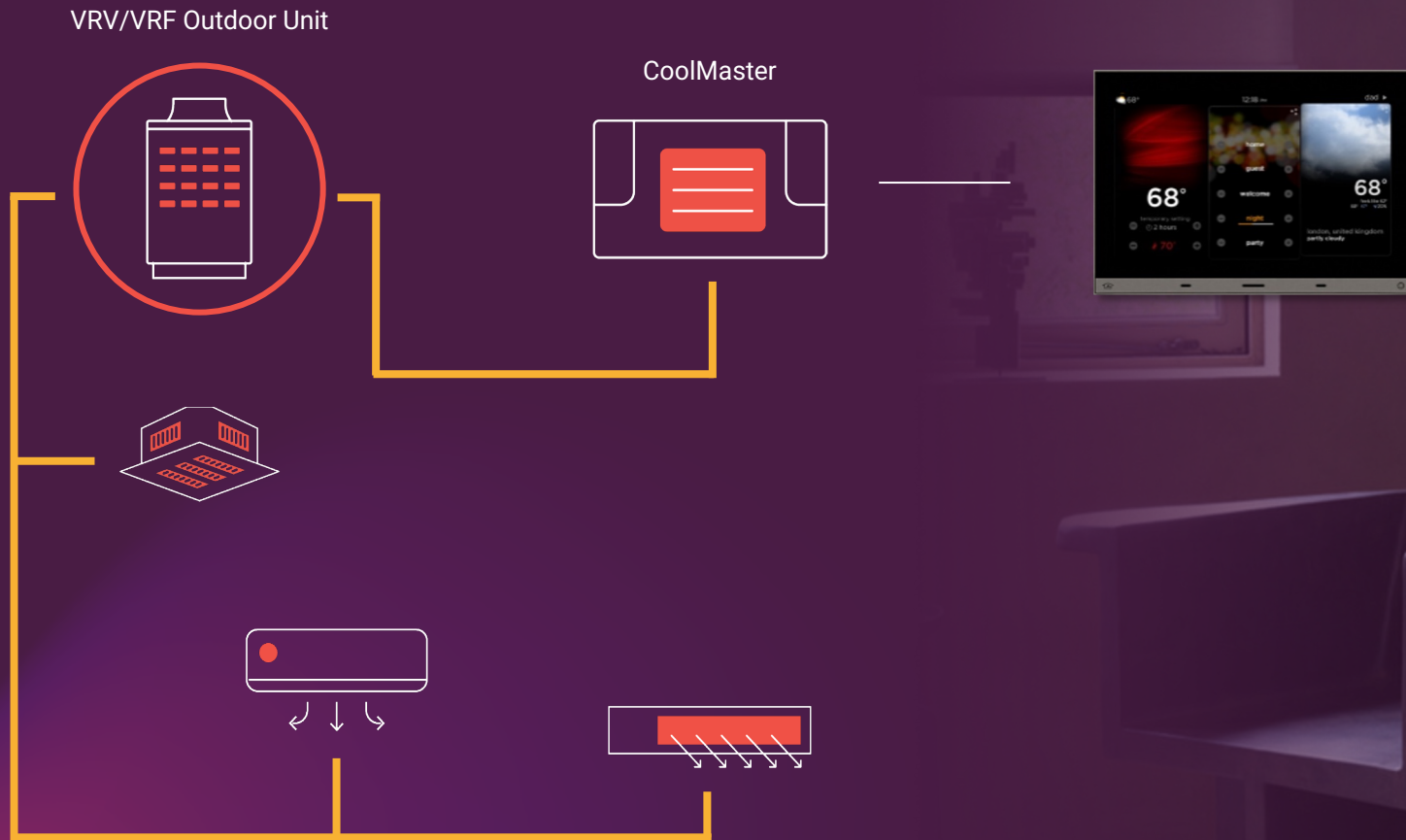
VRF Systems – CoolMaster Products

Simple-to-Commission Universal VRF Integration

- Supports all VRF manufacturers
- Plug & Play solution for on-site integration
- Auto-discovery of all connected indoor units
- Full two-way communication
- Remote Access for Support
- User-friendly Touch Screen
- Support up to 32 control Zones with CoolMaster
- Support up to 255 control Zones with CoolMasterPro



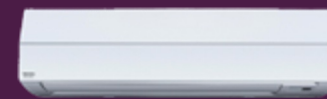
CoolMaster - Where to connect



Split/Multi Split - CoolPlugs & CoolLinkHub

Cost-effective single split and multi-split HVAC integration

- Support different HVAC manufacturers
- Comprehensive options for on-site integration
- Wired & Wireless connectivity allows flexibility onsite
- Remote Access for Support
- Full bi - directional communication (control and live monitoring)



DAIKIN

mitsubishi
ELECTRIC

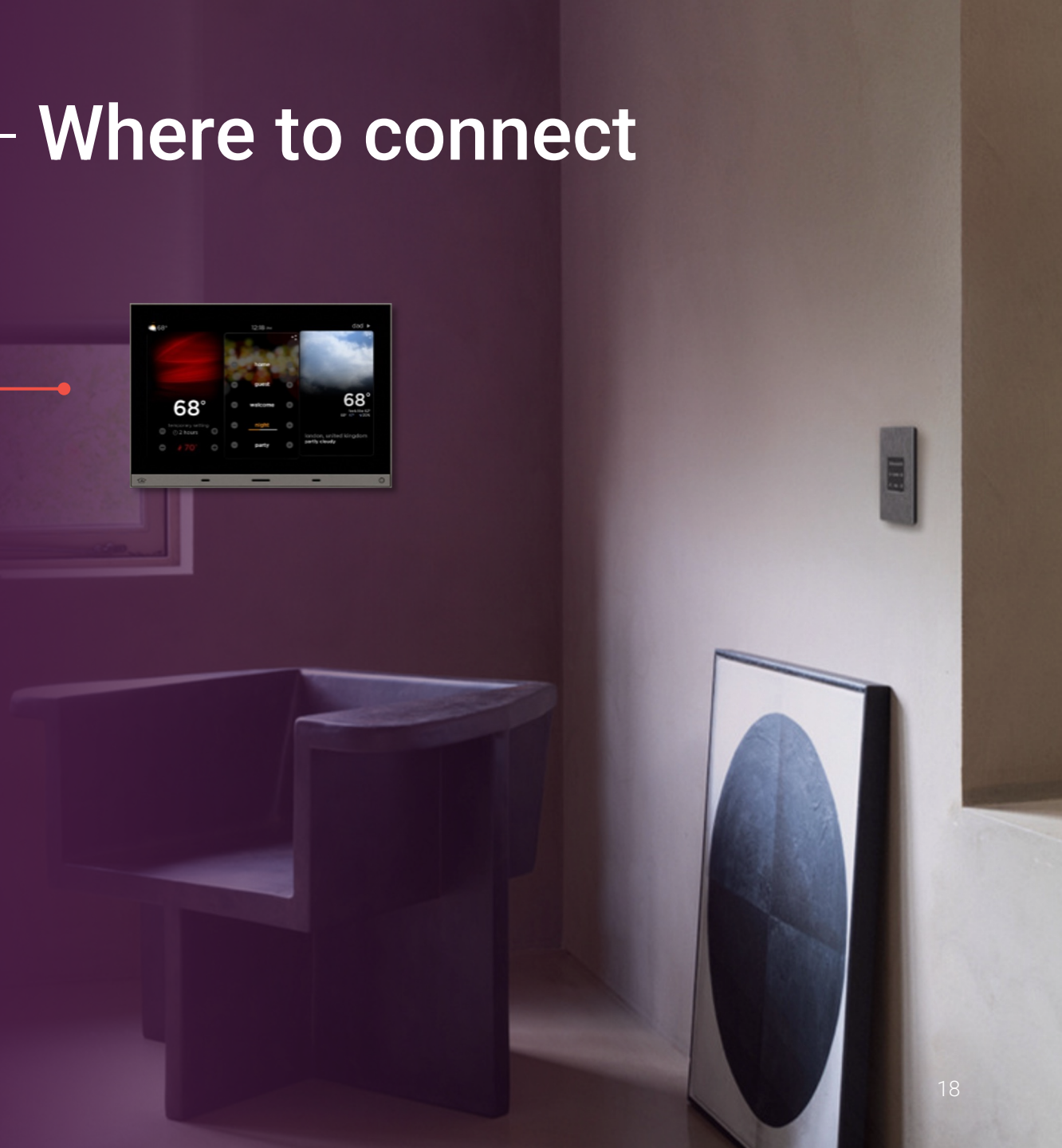
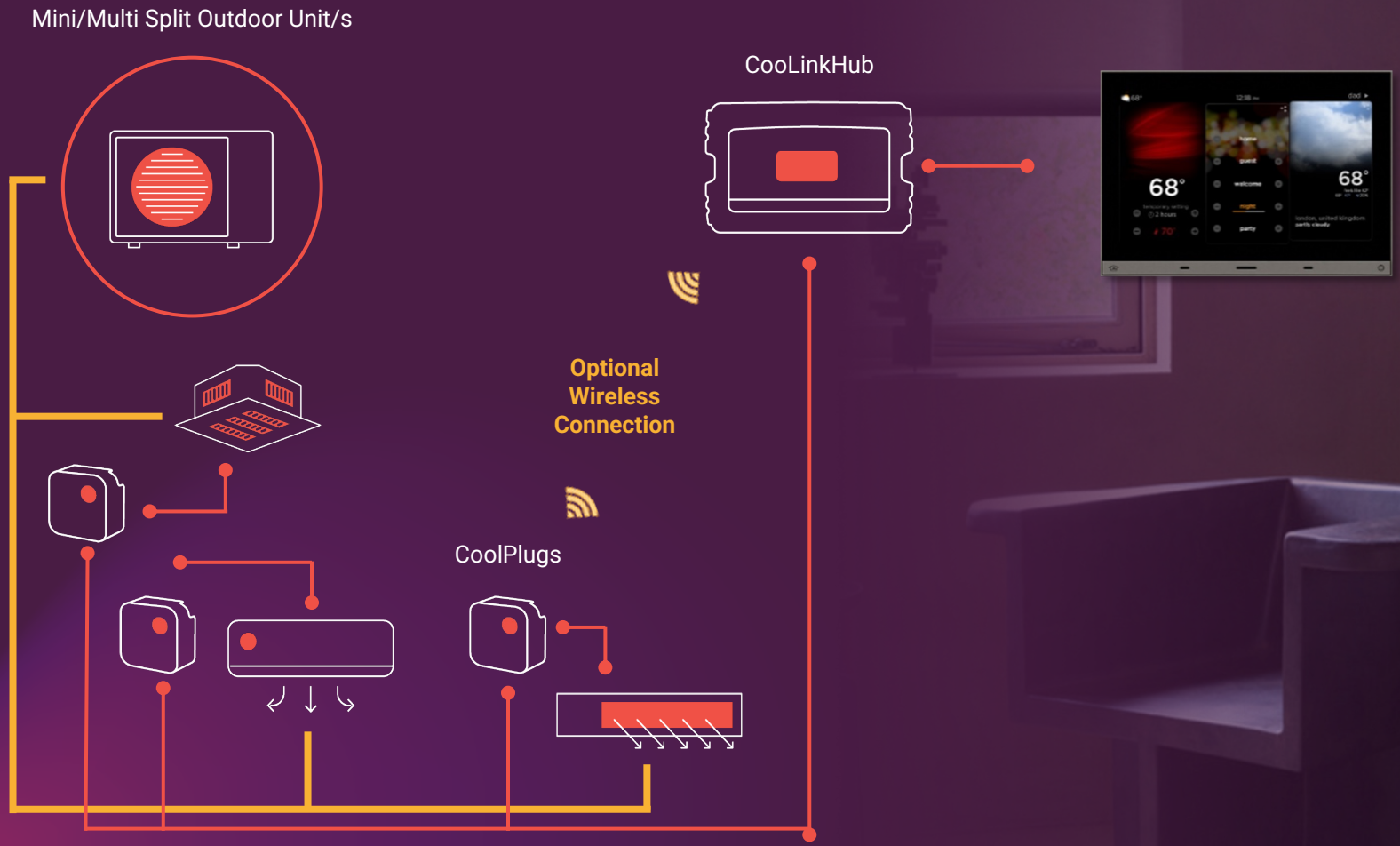
LG

FUJITSU

Midea

SAMSUNG

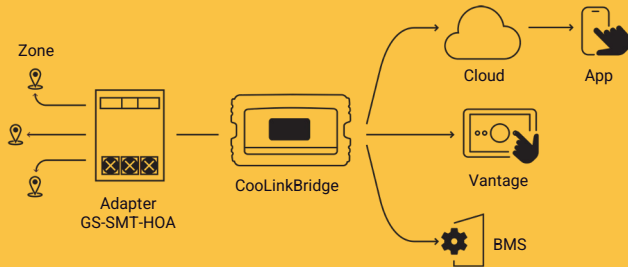
CoolPlugs & CoolLinkHub - Where to connect



CooLinkBridge – Integrate other HVAC systems

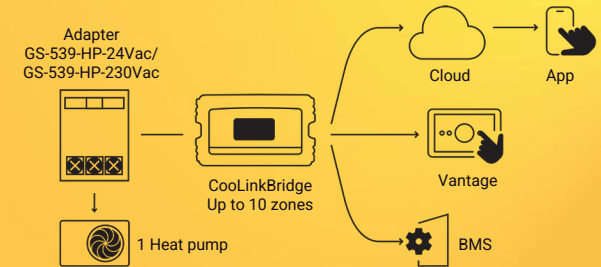
Radiant/electrical underfloor heating

*Additional controller card required



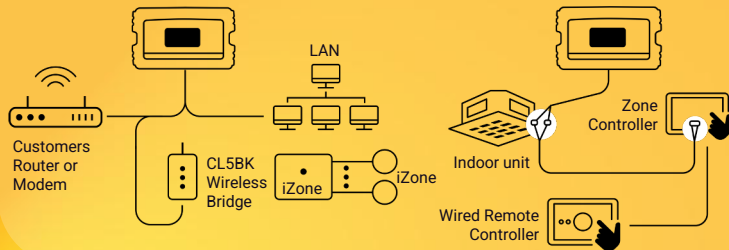
Fan Coils, Heat Pumps

*Compatible with different types of fan coil controllers



Zone control / Zoning Systems

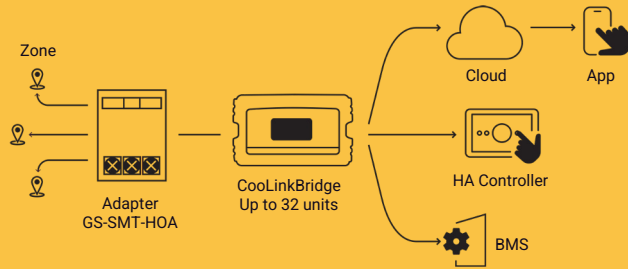
**Additional card might be required



CooLinkBridge – Integrate Underfloor Heating

Radiant/electrical underfloor heating

*Additional controller card required

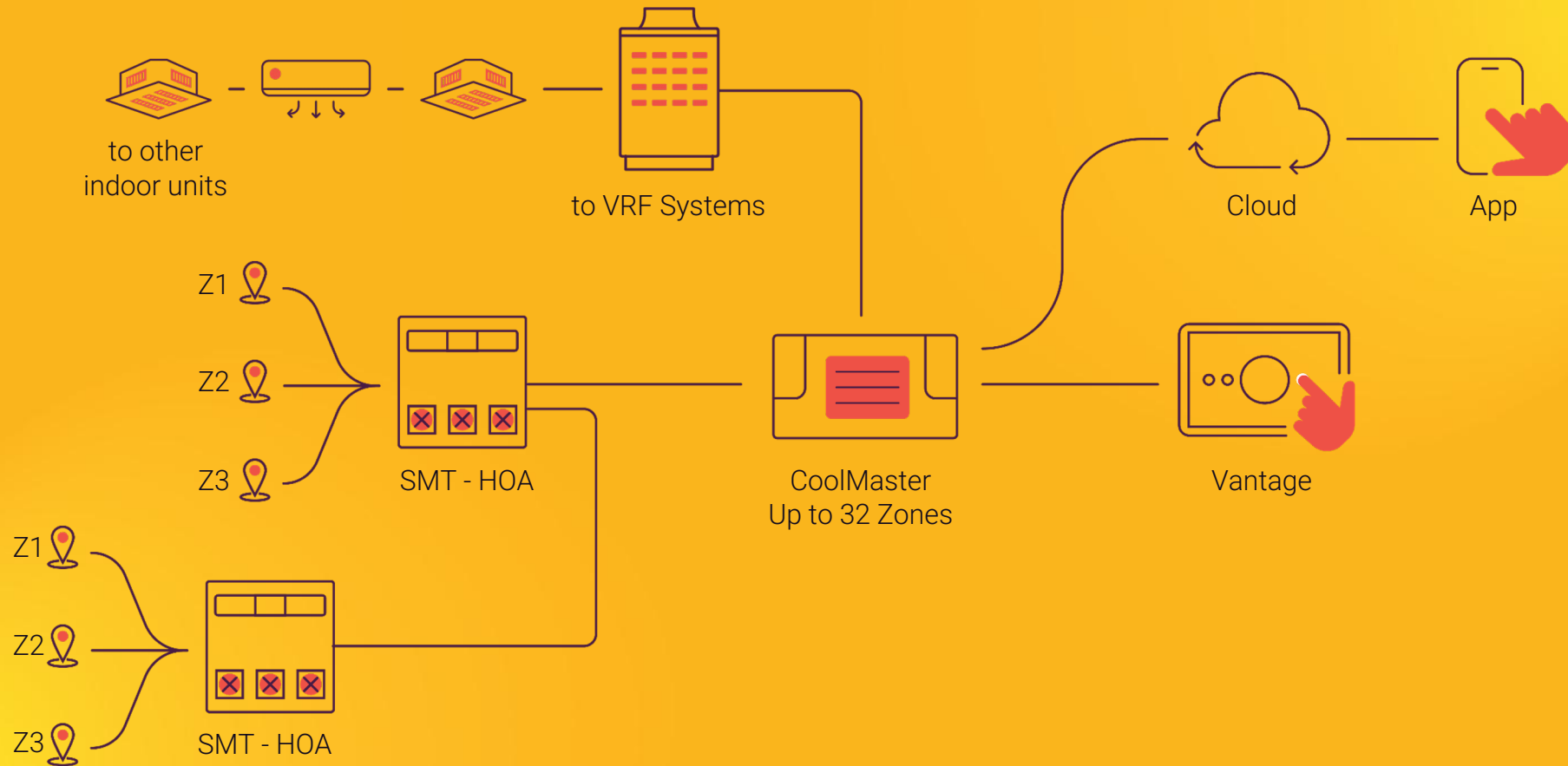


Features

- Allows integration of the underfloor heating by zones
- Controlling multiple zones individually
- Adding Logic to zone operation (future)
- Combining underfloor heating and air conditioning operation through the same device



GS-SMT-HOA – Integrate Underfloor Heating



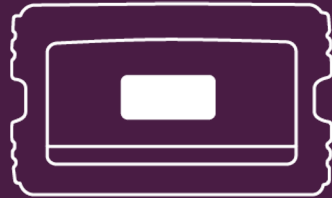
Where our products would be installed



CoolMaster

Connected to outdoor
(one of the indoors)

Installed in the rack,
near Vantage
controller



CoolLinkHub

Connected to CoolPlugs
(Wired or Wireless)

Installed in the rack,
near Vantage controller



CoolPlug

Connects to an
indoor unit's PCB

Installed at the HVAC
indoor unit



CoolLinkBridge

Connected to zone controller,
FC, HP, UF controller

Installed in the rack,
near Vantage controller

HVAC Integration: Solution Design Process

Step 1

What is the type and brand of the HVAC, required to integrate?



Get the exact HVAC equipment list

- Mechanical Drawings
- Equipment list

Step 2

How many indoors/zones need to be integrated?



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

Step 3

Device Selection
CoolAutomation provides advice on the right device + connection instructions

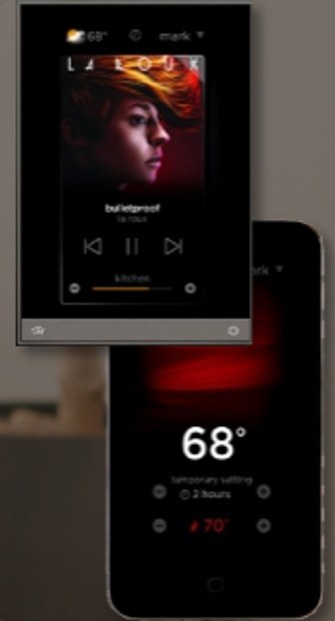
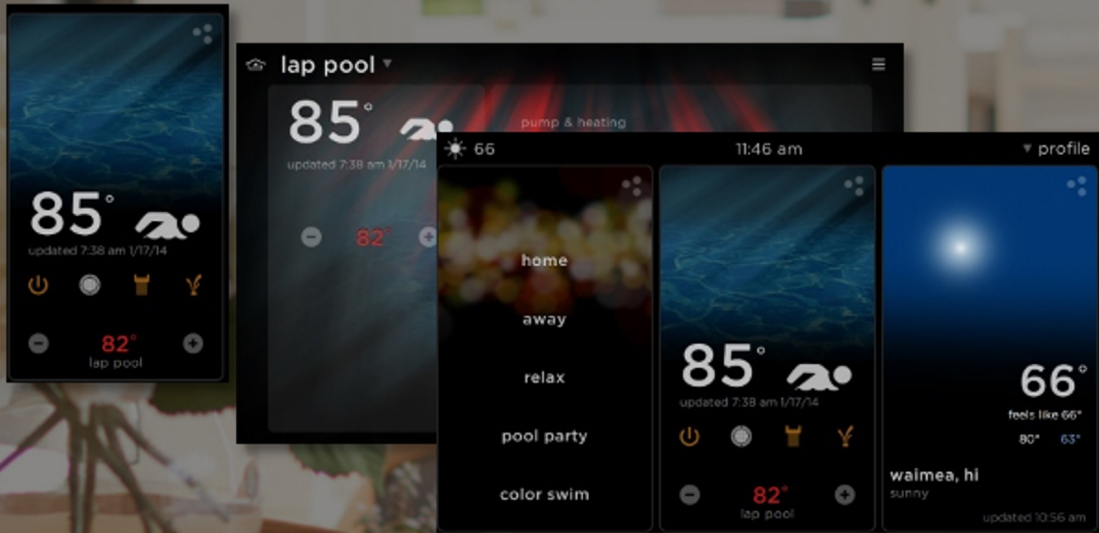


Step 4

Add the CoolMaster driver named **HVAC-IU** through the Vantage Design Center Software



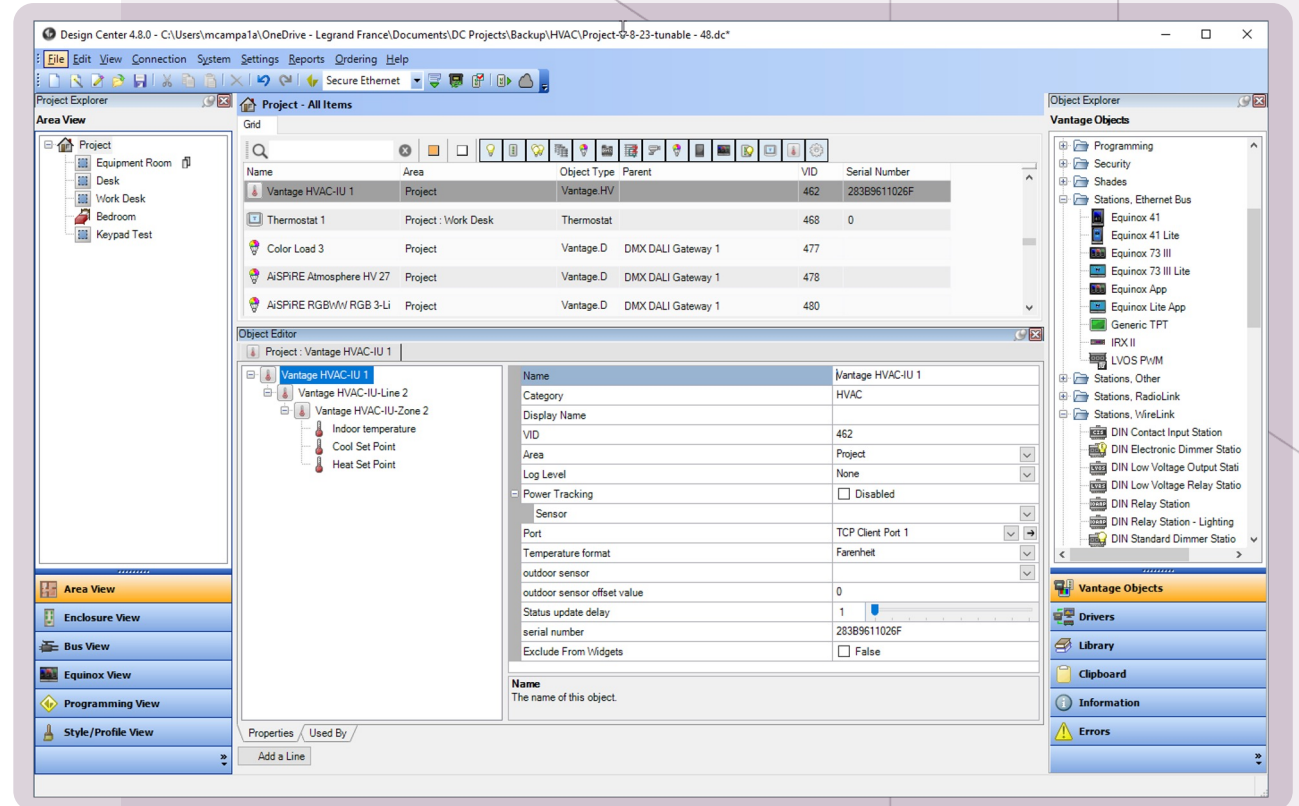
Vantage Configuration Steps



Vantage & CoolMaster - Integration

The CoolMaster Driver seamlessly integrates with Vantage InFusion systems over IP

* The process in the presentation shows CoolMaster, but the same steps apply for all CoolAutomation products



Vantage & CoolMaster - Integration

Supported Features

- Control multiple units
- Ambient and setpoint temperature values, change thermostat modes, fan modes and louver positions
- Rename and relocate HVAC units
- Group view of thermostats
- Direct commands available for any/all the above



Vantage & CoolMaster – Equinox Setup

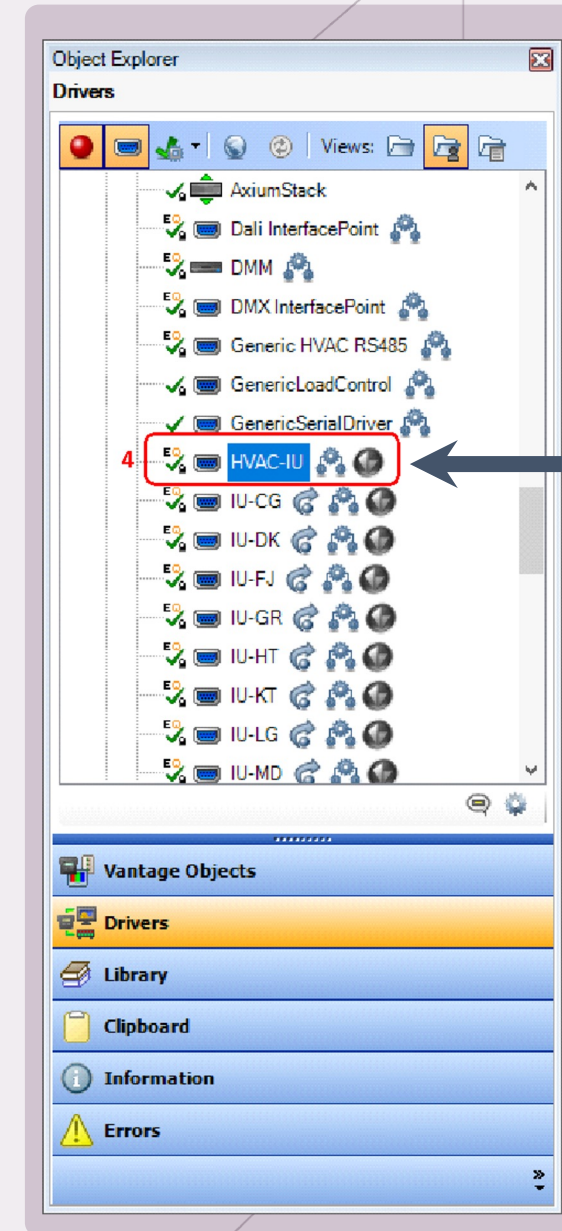
1. Click on Settings | Project Information| Owner (tab).
2. Fill out the Equinox Mobile Passcode: (alpha/numeric)
3. Fill out the Equinox Admin PIN: (numeric).

The screenshot shows a software window titled "Project Information" with a tabbed interface. The "Owner" tab is selected and highlighted with a red box and a red "1". The form contains several input fields: "Owner Name", "Address", "Email Address", "Phone", "Fax", "Modem", "Controller IP Address", "Port" (with a dropdown menu showing "2001"), "Equinox Mobile Passcode" (containing "Vantage123" and highlighted with a red box and a red "2"), and "Equinox Admin PIN" (containing "1234" and highlighted with a red box and a red "3"). At the bottom right, there are "OK" and "Cancel" buttons.

Vantage & CoolMaster – Driver

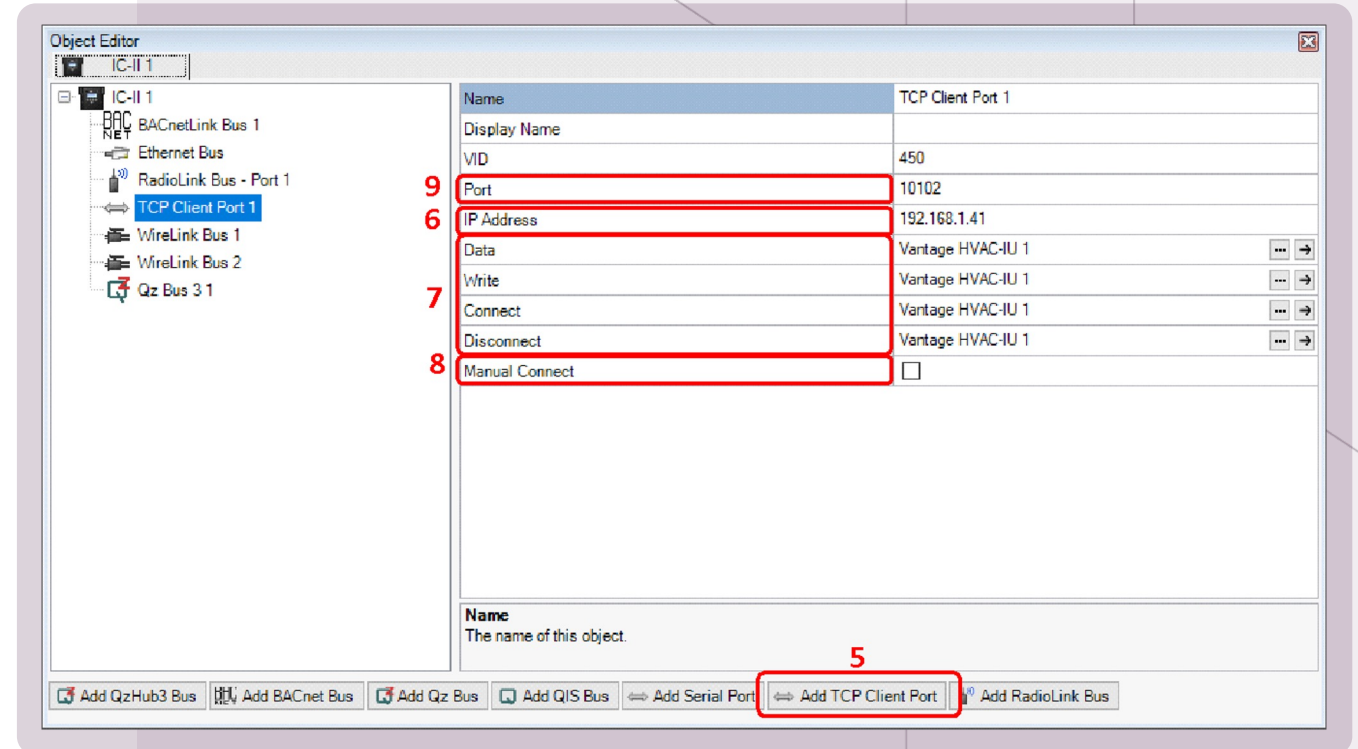
4. Browse our **Driver Database** and add **HVAC-UI** driver to the project, not type dependent;

- CoolMaster
- CoolLinkHub
- CoolLinkBridge



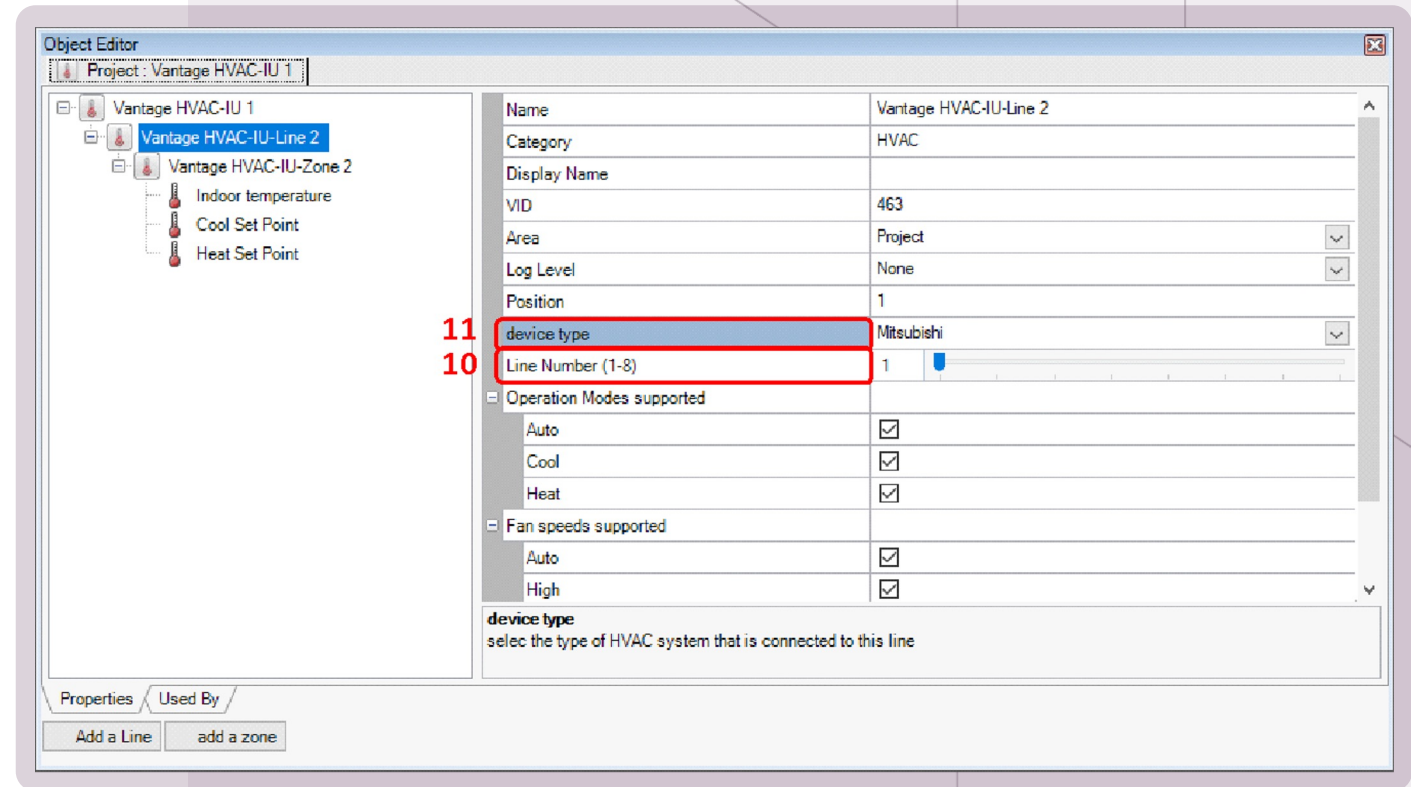
Vantage & CoolMaster – TCP Port Setup

5. Add Port – Select a new TCP port.
6. For the TCP port, add the CoolDevice IP address
7. Add the Driver to the Data, Write, Connect, and Disconnect fields of the port.
8. Leave Manual Connect unchecked.
9. Set the Port to **10102**



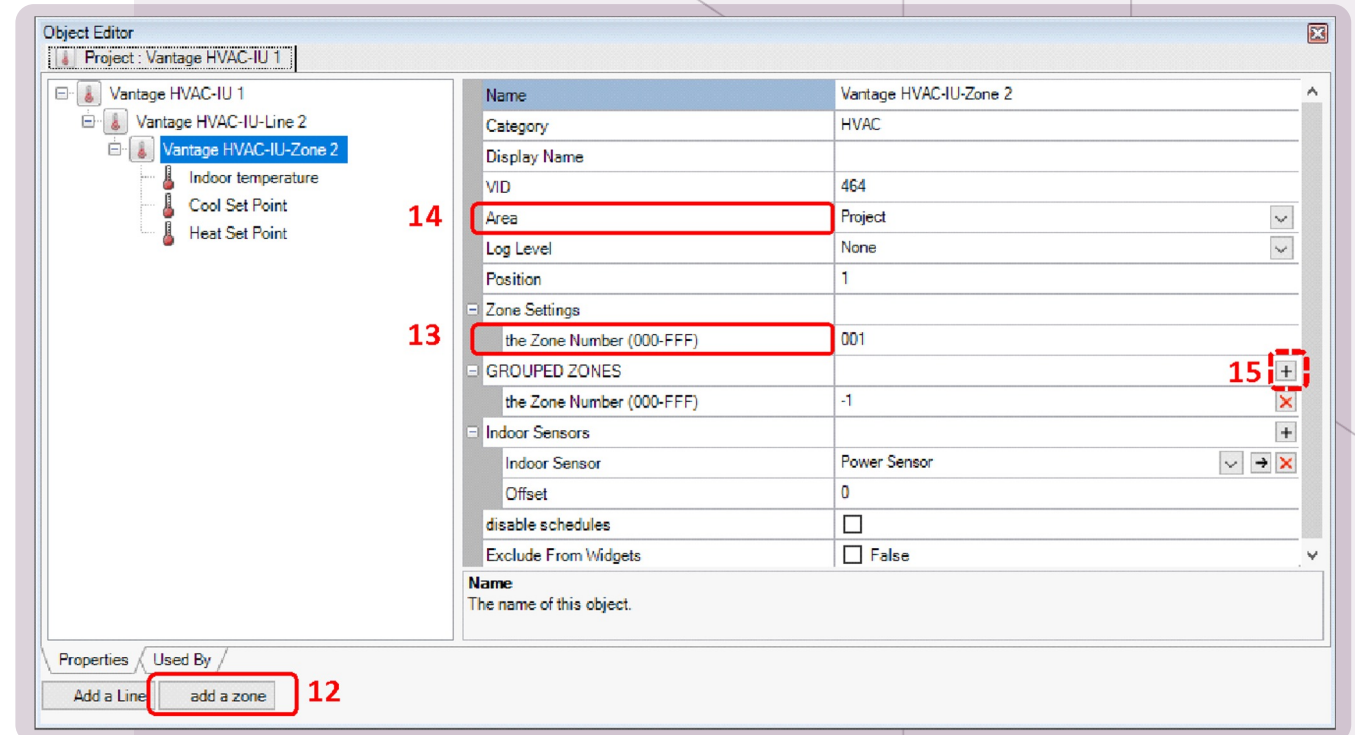
Vantage & CoolMaster – Driver Setup

10. Set the Line Number (1-8) for each line added. Default is Line Number 1.
11. Set the device type: use the drop-down list to select the brand of the interface used.



Vantage & CoolMaster - Driver Setup

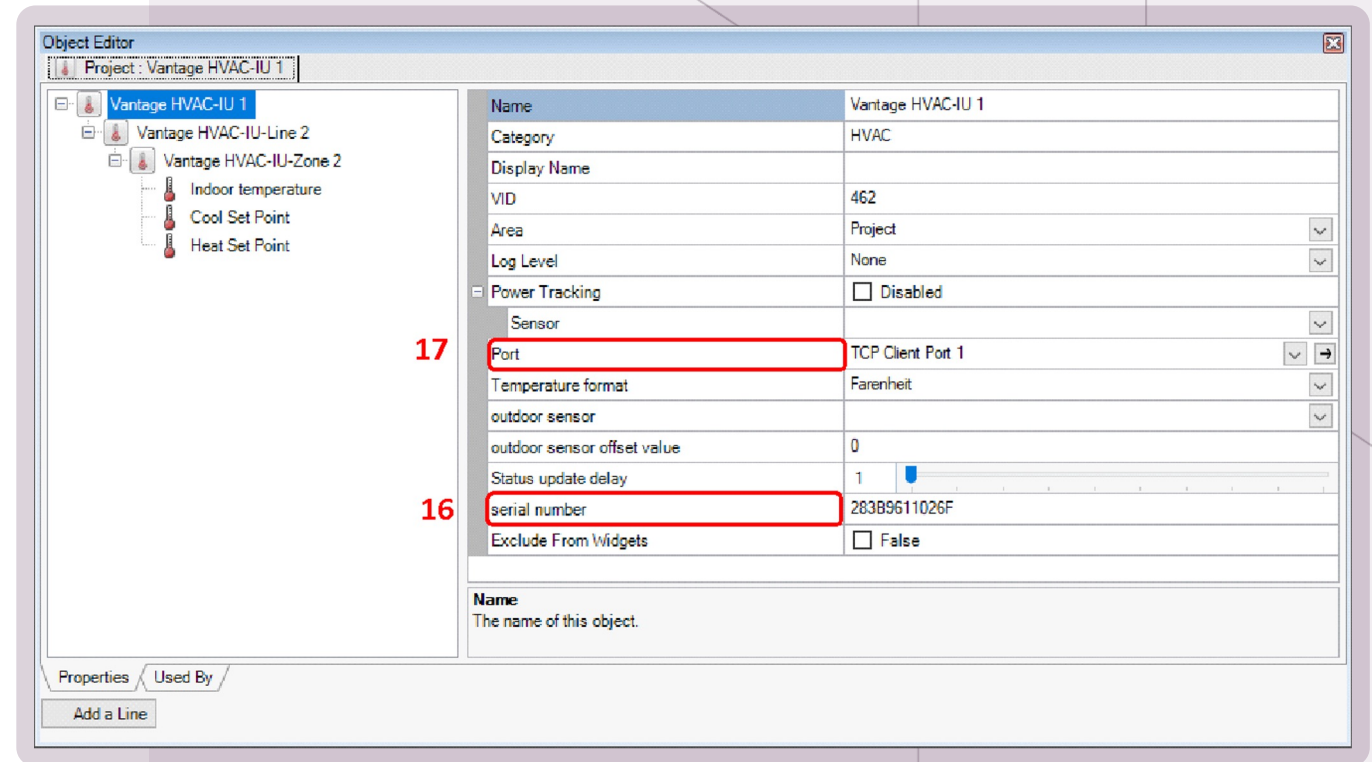
12. Add one zone for each individual UID on the CoolDevice Line
13. Set the main **Zone Number (000-FFF)** for each zone added to that Line. (3 digits, should match the ID on the CoolDevice Line)
14. Set the Areas – Each zone can be assigned its own area as well
15. Optional – if zones are grouped on the CoolDevice, use the + icon to add them to the driver



Vantage & CoolMaster – Driver Setup

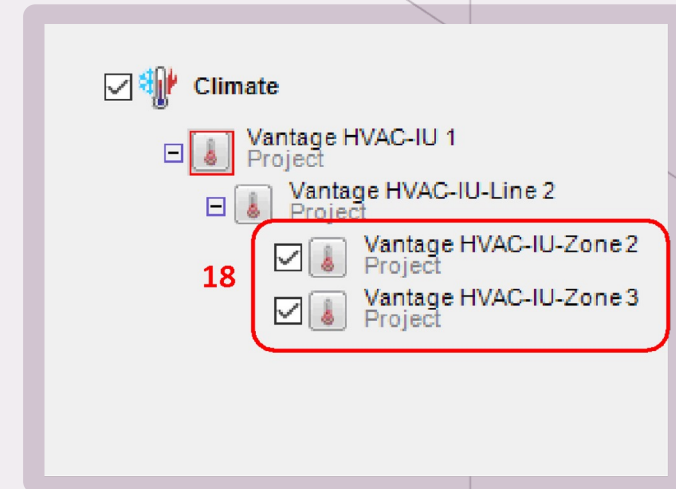
16. Enter the serial number that is found on the back of the CoolDevice (or the box). This is required when you want to use the TCP/IP connection.

17. Set Port that was setup in step 9



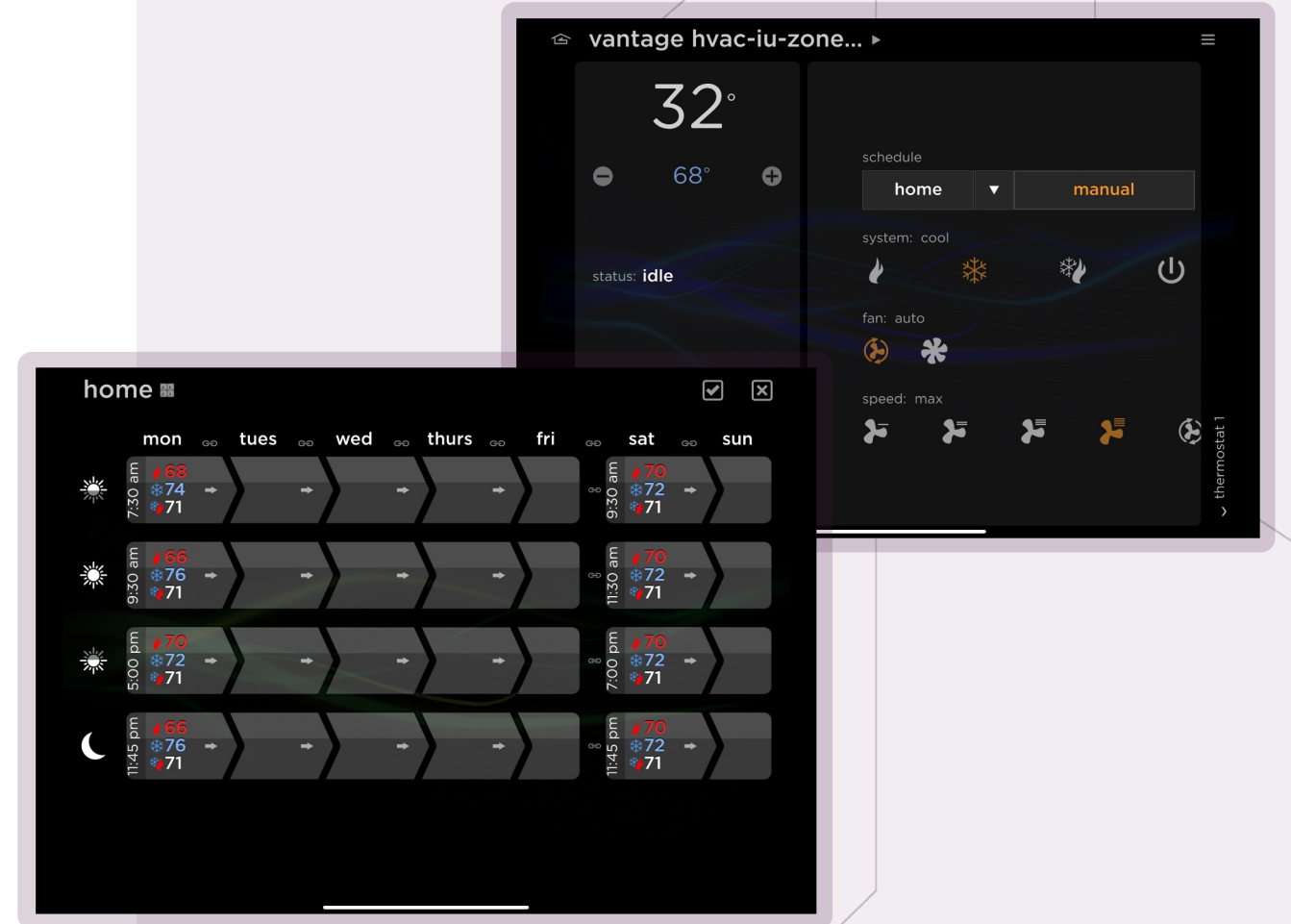
Vantage & CoolMaster – Equinox Setup

18. Activate widget - On the Equinox view
select the climate widget and select which
zones are valid per profile.



Vantage & CoolMaster – Equinox

Programming within **Design Center** and interaction with the CoolAutomation devices in **Equinox** works just like the native Vantage Thermostats



Vantage Configuration Steps Completed



Why Work With CoolAutomation & Vantage?

Compatible With Most HVAC Systems

- Enables integration for most HVAC systems brands & technologies

Simple Installation

- Devices connect to A/C systems via two wire communication lines & communicates with Vantage over TCP connection on LAN

Robust Communication

- No external cloud-based connections enable integration & communication to be reliable, secure, & fast - that is tested & proven for projects around the world

Multiple Control Options

- Full HVAC control through touchscreens & app, with motion sensor & timer support

Control Convenience

- Equinox touchscreens give feedback from actual temperature & setpoints

Innovative Features

- Unmatched features include HVAC remote management, service, diagnostics, & universal system control

Resources

INTEGRATION SOLUTIONS
Device installation, Specifications, configuration & compatibility

REMOTE HVAC SOLUTIONS
Management, Predictive maintenance & Power distribution

KNOWLEDGE BASE
Troubleshooting, configuration and product best practices

DOWNLOAD CENTER
Reference docs, Submittals, Spec Drawings

VIDEO TUTORIALS
Video guides and certification training

COMMUNITIES
Discussion communities

Comfort in your Control with Vantage & CoolAutomation

Step into luxury with an innovative solution that provides complete comfort control. Vantage is partnered with CoolAutomation, a global leader in smart solutions for HVAC systems, providing the perfect climate control for today's smart homes. The Vantage Universal HVAC Interface Point makes it easy to integrate most HVAC systems into the Vantage Infusion System.

Specializing in VRF, VRV, Split Systems, and heat pumps, CoolAutomation solutions are the next evolution of climate and IoT technologies. Their products connect to the local network using open communication protocols to enable seamless HVAC integration, remote management, service, diagnostics, and universal system control.

The pairing of Vantage and CoolAutomation has been tested and proven successful in projects throughout the world. Vantage continues to put each day at your control by integrating lighting, shading, and climate control for your comfort and convenience.

Compatible With Most HVAC Systems

- o CoolAutomation enables integration for most HVAC systems brands and HVAC technologies into the Vantage Infusion System.

Innovative Features

- o CoolAutomation's offering includes unmatched features like HVAC remote management, service, diagnostics, and universal system control.

Robust Communication

- o No external cloud-based connections, enabling integration and communication to be reliable, secure, fast and unaffected by Internet connection challenges.

Simple Installation

- o CoolAutomation's Edge devices connect directly to air conditioning systems via two wire communication lines, and communicates with Vantage over a TCP port connection on the LAN.

Control Convenience

- o Equinox touchscreens give feedback from actual temperature and setpoints.

Multiple Control Options

- o Full HVAC control through the Equinox touchscreens (EQ41, EQ73) and EQ mobile app, with motion sensor and timer support. The EQ40 digital keypad sets HVAC parameters by assigning it to a digital keypad button.

CoolAutomation North America

- Individual Product Brochures and Spec Cut sheets
- Product Installation Videos and Resources
- USA Pre-Sale Project Design Support
- <https://coolautomation.com/home-automation/>

Legrand US – Vantage

- Comfort Control Sell Sheet
- FAQ PDF
- Integration Guide
- <https://www.legrand.us/vantage/shading-systems/resources>

Become a Dealer

ASK US A QUESTION

If you are an existing CoolAutomation customer, looking for technical support for your CoolAutomation device, please [CLICK HERE](#) to contact our Customer Support

First name *

Last name *

Business email *

Company name *

I'm interested in... *

Your message *

CoolAutomation

Interested in CoolAutomation Products? Complete the online form and a CoolAutomation representative will contact you.

<https://coolautomation.com/contact-us/>

legrand™ designed to be better.™

Become a Vantage & Shading Systems Dealer

Contact Us Form

First Name

Last Name

Email

Country ▼

City

Company

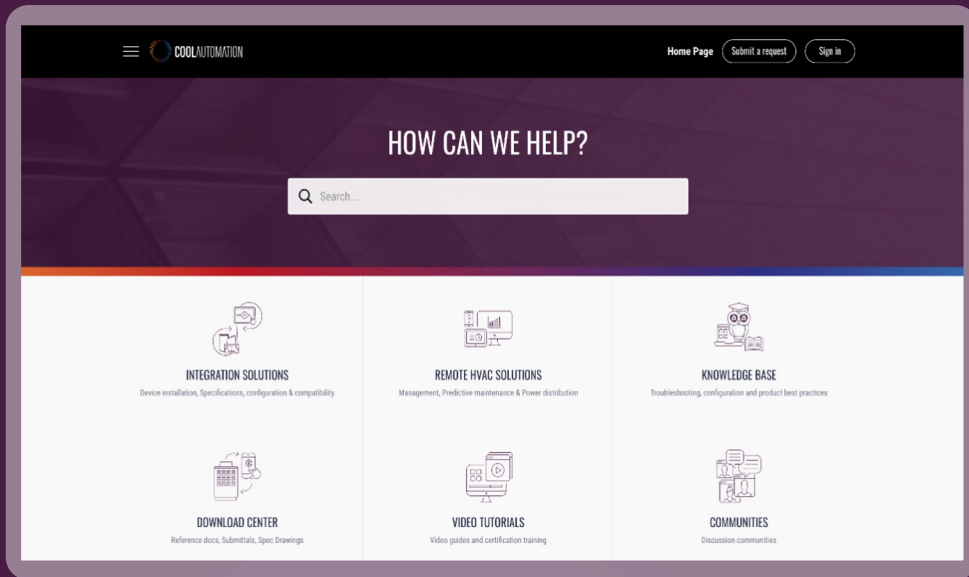
Phone

Vantage

Interested in becoming a certified Vantage Dealer? Complete the online form and a Vantage representative will contact you.

<https://go.legrand.us/become-a-vantage-and-shading-systems-dealer>

Technical Support



CoolAutomation North America

Technical Support

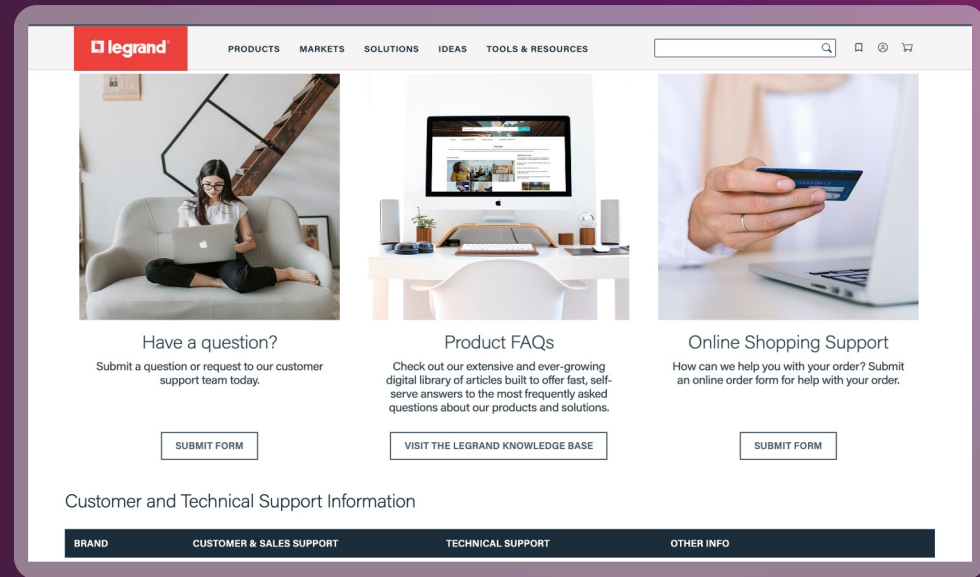
Phone: [1-206-360-5769](tel:1-206-360-5769) (Call or Text)

Mon – Fri: 8AM – 6PM EST

[Online Support Center](#)

Installation Guides, Video Tutorials, Software Downloads & more

<https://support.coolautomation.com/>



Legrand US – Vantage Product Support

Technical Support

Phone: [1-800-555-9891](tel:1-800-555-9891) - Option 1 then Option 3

Mon – Fri: 8AM – 6PM CST (excluding holidays)

[Email Us: vantagetech@legrand.com](mailto:vantagetech@legrand.com)

<https://www.legrand.us/contact-and-support>

<https://www.legrand.us/vantage/shading-systems/resources>

Thank You!



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MEET VANTAGE AT CEDIA EXPO 2023!

Denver, CO – September 7-9

