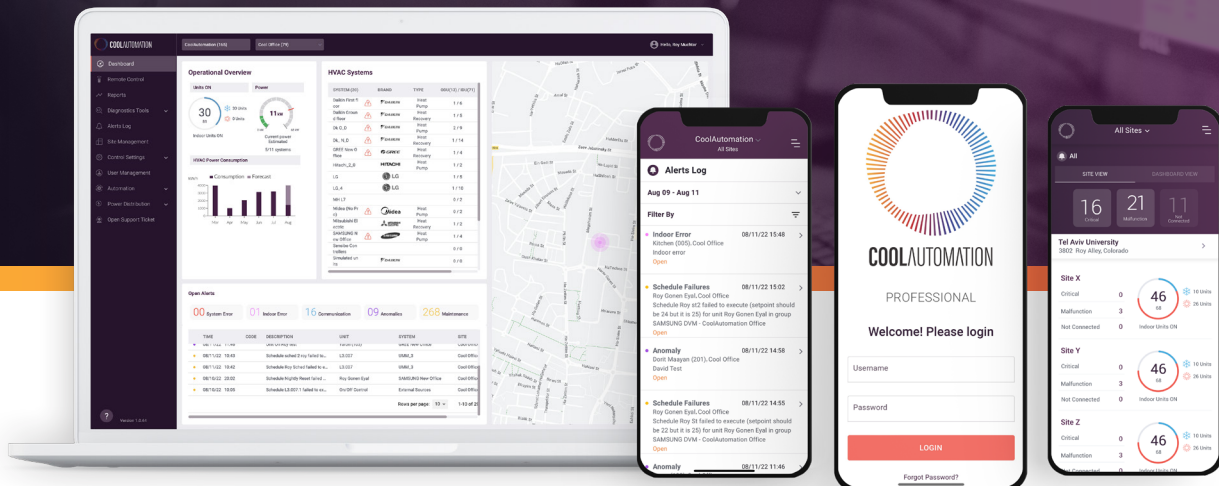# COOLAUTOMATION
ADVANCED HVAC OPERATIONS

ENSURE THE ENERGY AND OPERATIONAL EFFICIENCY OF YOUR HVAC

CoolAutomation's Advanced HVAC Operations allows you to be in full control of your HVAC status across any number of systems, brands and locations.

CoolAutomation's solution allows you to control energy efficiency and optimize it to ensure regulation compliance. Using innovative machine-learning tools, you can prevent excess power usage, detect performance malfunctions, enforce operational modes, receive alerts and more.

CONTINUOUS HVAC MONITORING AND CONTROL

Control and view the HVAC systems using mobile or desktop applications from anywhere using visual tools such as floor plans, annotated notes and other advanced functions. Access historical data at any time and receive detailed analysis of site performance.

PERIODIC SITE REPORTS

View trends of system performance across locations, set operational regiment for buildings as well as plan better service and replacement cycles.

ENERGY MONITORING

Get actual power usage of each system with VRF systems, drill down to the level of each indoor unit. Detect extreme and peak consumptions and address them on time to save on energy costs.

COOLAUTOMATION

HOW DOES IT WORK

The CoolAutomation Advanced Operations Solution is designed from end-to-end for simplicity and ease of use. The application becomes available through the Plug & Play installation of any CoolAutomation Hardware Device to an HVAC system. It operates through the CoolAutomation Cloud, allowing optimization of technical service calls through access to real-time system parameters.

Mini/Multi Split HVAC

CoolAutomation Advanced Operations — CoolAutomation Cloud — CloudBox — VRF HVAC

Zone Control & Others
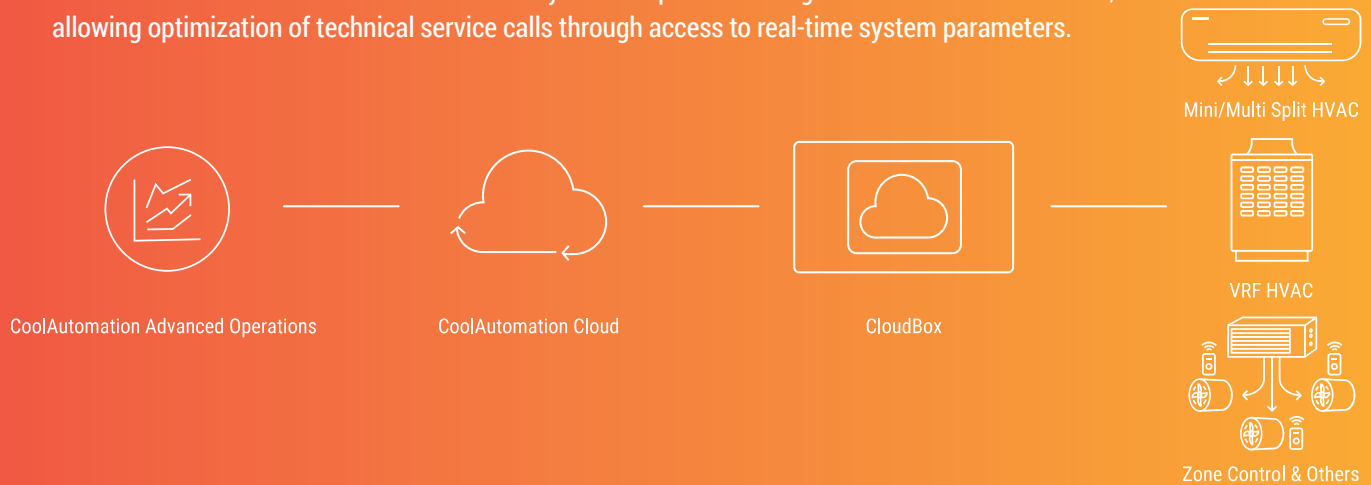
ADVANTAGES

CROSS-BRAND, CROSS-SITE CONTROL
Connect any compatible VRF HVAC brand to the solution, and gain total control over every HVAC unit within multiple buildings and facilities - through a single interface

HVAC ANALYSIS AND DIAGNOSTICS TOOLS
Review the HVAC system health and operation data, and ensure the system is consistently functioning optimally

REAL-TIME ALERTS FOR MALFUNCTIONS
Real-time notifications and malfunctions alerts, errors, and operational anomalies - with ability to view trends

AUTOMATIC, CUSTOMIZABLE PERIODIC & USAGE REPORTS
Receive periodic performance reports, and periodic operational statistic reports

USER MANAGEMENT TOOLS
Control which users are able to access the system, and which features approved users are permitted to access

COMPATIBLE HVAC BRANDS

GREE · Johnson Controls INGENUITY WELCOME · TRANE · HITACHI · LG · GENERAL FUJITSU GENERAL Ltd., Japan

DAIKIN · Haier · MITSUBISHI ELECTRIC · FUJITSU · SAMSUNG · TOSHIBA

ABOUT US

CoolAutomation is the industry leader of solutions that enable HVAC systems to be locally or remotely controlled, managed, and serviced. Our solutions are designed to allow any climate system to be internet-connected easily, securely, and reliably.

CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT. They are crucial to any professional in the HVAC, facility management and automation industries.

CoolAutomation is a global company headquartered in Israel, with tens of thousands of customers in over 90 countries and offices in the United States.
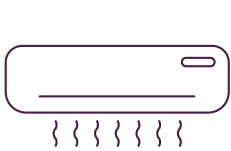
To check your system compatibility
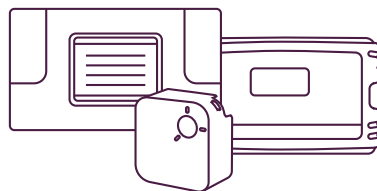**coolautomation.com/check-compatibility**

COOLAUTOMATION
THE INTERNET OF CLIMATE

CONTROL SOLUTION

Your cutting-edge Internet of Climate (IoC) solution
allowing you to remotely control and monitor your HVAC system

| VRF and Mini/Multi Split HVAC | CoolMasterNet, CoolPlug, CooLinkBridge | CoolRemote Cloud | Control App |

BENEFITS

Control your HVAC
Control the system setpoints, modes, fan speeds and louver operation

Error Codes
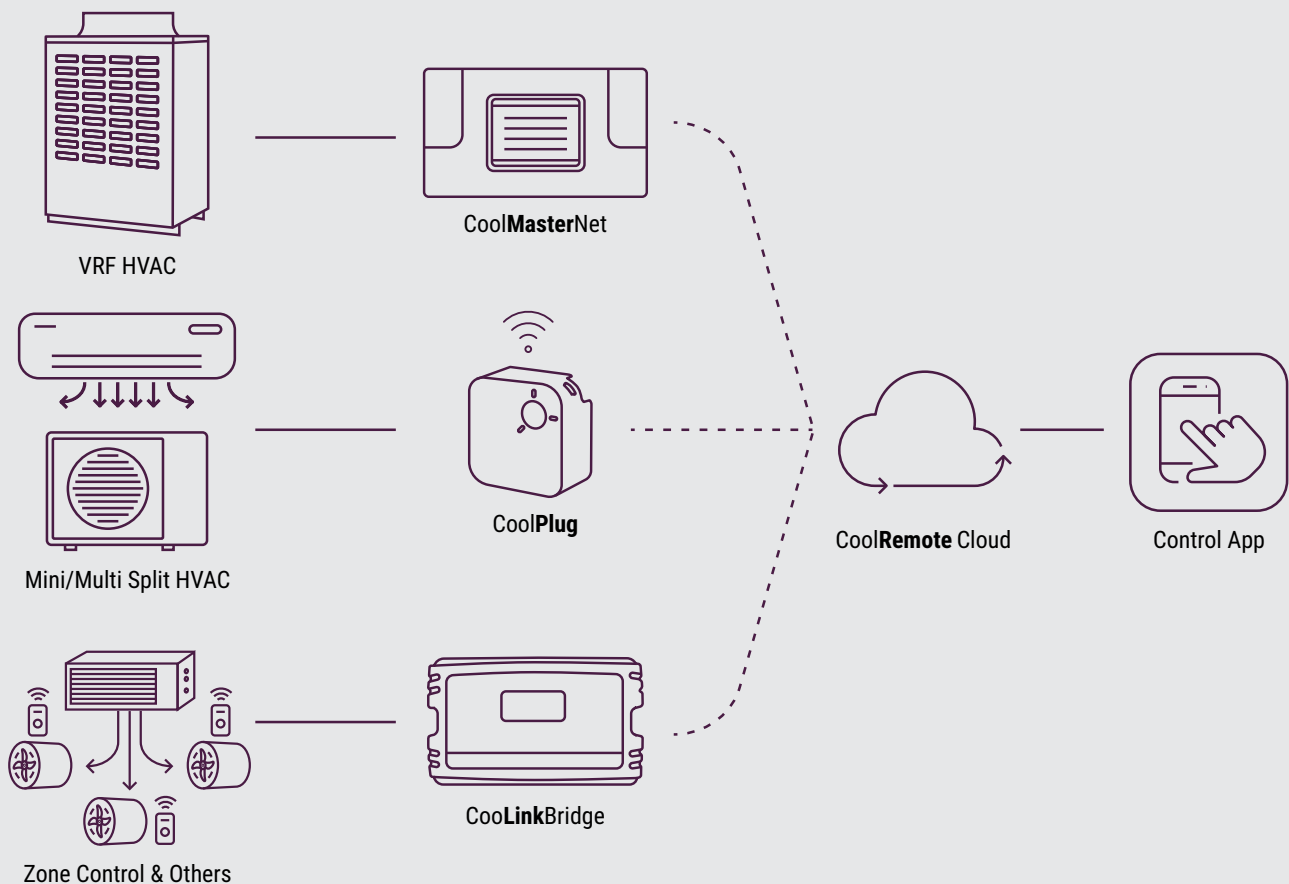Real-time indications for HVAC system errors and malfunctions

Scheduling
Set custom schedules to optimize the use of the indoor HVAC unit

Usage Reports
Visualized reports of your HVAC system operation

COOLAUTOMATION

HOW DOES IT WORK?

VRF HVAC — **Cool**Master**Net**

Mini/Multi Split HVAC — **Cool**Plug

Zone Control & Others — **Coo**Link**Bridge**

CoolRemote Cloud — Control App

COMPATIBLE HVAC BRANDS

DAIKIN · HITACHI · MITSUBISHI ELECTRIC · Haier · BLUE STAR · SAMSUNG · Midea · Rheem

YORK · GENERAL FUJITSU GENERAL Ltd., Japan · CHIGO · TRANE · FUJITSU · TOSHIBA · SANYO · LG

GREE · Johnson Controls INGENUITY WELCOME · Carrier · Kaisun Vakumlu Güneş Enerjisi · Panasonic · MITSUBISHI HEAVY INDUSTRIES · LENNOX · INTENSITY AIR CONDITIONING

ABOUT US

CoolAutomation is the industry leader in Internet of Climate (IoC) technologies and HVAC automation. Internet of Climate (IoC) is a universal concept designed to allow any indoor climate system to be internet-connected easily, securely, and reliably. CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT, and are crucial to any professional within the HVAC service, management, or home and building automation industries. CoolAutomation's solutions enable remote monitoring, diagnostics, service, and control of any HVAC system within the residential, commercial, and hospitality industries. CoolAutomation is a global company headquartered in Israel with thousands of customers in over 90 countries.

To check your system compatibility
coolautomation.com

COOLAUTOMATION
THE INTERNET OF CLIMATE

COOLAUTOMATION
BASIC HVAC OPERATIONS

START OPERATING YOUR HVAC SYSTEM EFFICIENTLY
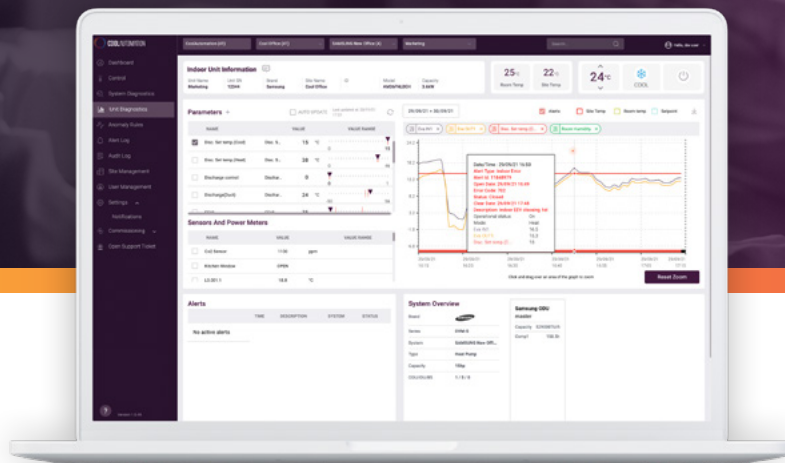
The CoolAutomation Basic Operations solution allows Facilities Managers to efficiently run multiple HVAC systems across all sites, via the same user interface - regardless of the HVAC manufacturers or brands.

## CONTROL AND SCHEDULE OPERATION HOURS

Regulate operation policies, restrict local thermostat operations, optimize the setpoints setting according to daily or yearly schedules, and monitor the system operation - and save on your energy consumption and costs

USER MANAGEMENT

Control which users are able to access the system, and which features users are permitted to access and use

COOLAUTOMATION

HOW DOES IT WORK

The CoolAutomation Basic Operations solution is an easy-to-use application. The application becomes available through the Plug & Play installation of any CoolAutomation Hardware Device to any HVAC system. It operates through CoolAutomation Cloud, allowing optimization of technical service calls through access to real-time system parameters.

Mini/Multi Split HVAC

CoolAutomation Basic Operations

CoolAutomation Cloud

CloudBox

VRF HVAC

Zone Control & Others
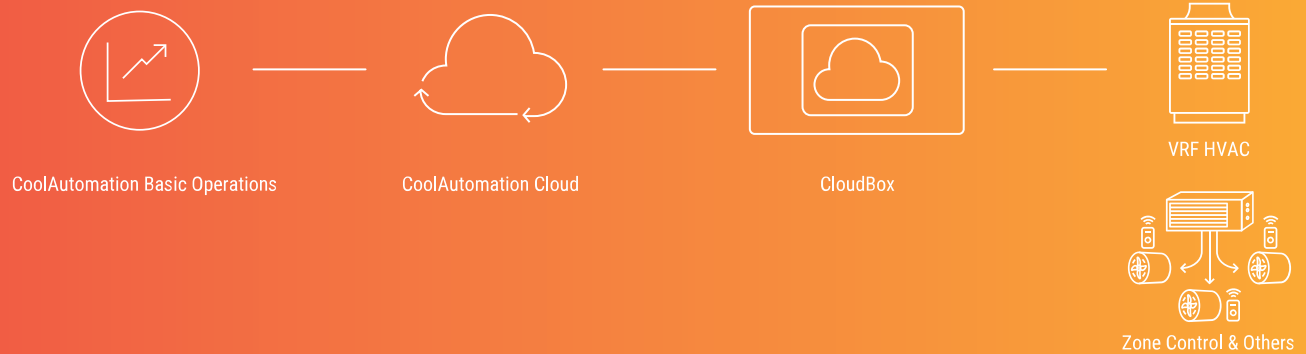
ADVANTAGES

CROSS-BRAND, CROSS-SITE CONTROL
Connect any compatible VRF HVAC brand to the solution, and gain total control over every HVAC unit within multiple buildings and facilities - through a single interface

REGULATE OPERATING POLICIES
Set unit and system operational limits, and set user access restrictions in accordance to your organizational policies and needs

USAGE STATISTICS
Review HVAC usage reports and statistics

PUSH NOTIFICATIONS
Real-time notifications for malfunctions, errors, and alerts logs

COMPATIBLE HVAC BRANDS

GREE

Johnson Controls
INGENUITY WELCOME

TRANE®

HITACHI

LG

GENERAL
FUJITSU GENERAL Ltd., Japan

DAIKIN

Haier

MITSUBISHI ELECTRIC

FUJITSU

SAMSUNG

TOSHIBA

COOLAUTOMATION
VRF PREDICTIVE MAINTENANCE

TAKE THE LEAP FROM LOCAL AND REACTIVE - TO REMOTE AND PROACTIVE
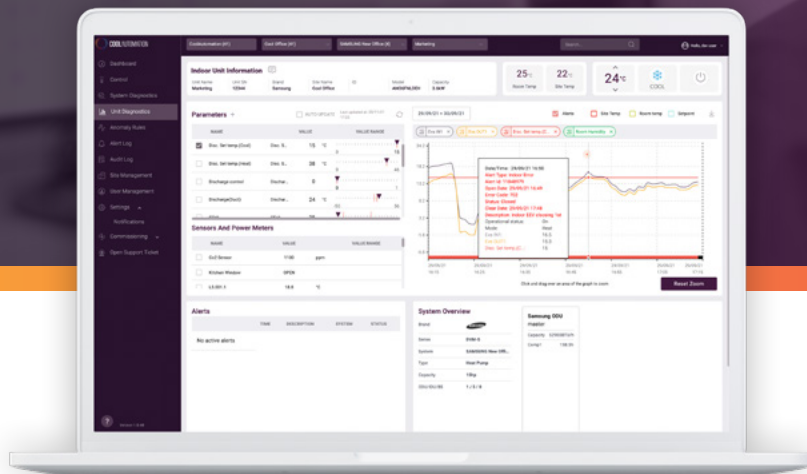
Remotely detect VRF system anomalies early while they are still minor – or even before they happen, and prevent system downtime. By receiving push notifications on malfunctions that are about to happen, you can fix system issues before they occur, thus preventing their deterioration into system failure. Keep your clients' VRF system at top performance, by configuring a set of anomaly rules that are constantly monitored by the software.

ON-SITE VISITS OPTIMIZATION

The CoolAutomation Predictive Maintenance solution provides another layer of insurance for the period between regular maintenance visits, allowing you to optimize your schedules and planning.

MACHINE LEARNING

Smart algorithms monitor specific system parameters, enabling predictive maintenance through the detection of technical and operational anomalies. Complimentary reports analyze up to a year's worth of data to provide targeted optimization and remediation targets.

AWARDS

Software category finalist in the AHR expo 2022 innovation award.

Winner of the "Smart Heating and Cooling Product of the Year" Award of the 2022 annual IoT Breakthrough Awards program.

HOW DOES IT WORK

The Predictive Maintenance solution consists of an intuitive cloud-based application and an IoT-enabling edge device - the CloudBox, which natively communicates with any VRF HVAC system. The solution is Plug & Play. It automatically detects the VRF system and available units. Once connected to the cloud, all brand-specific parameters of the connected systems will be immediately and continuously collected, analyzed and presented in the application.

Once the system is set, the data is streamed into the system, and the algorithm starts monitoring the VRF system remotely - detecting and notifying of any system anomaly or deviations from the regular system performance.

The system also offers a predefined anomaly detection library, that allows users to quickly and easily leverage the analytic power of the platform.

CoolAutomation Predictive Maintenance	CoolAutomation Cloud	CloudBox	VRF HVAC

ADVANTAGES

CROSS-BRAND, CROSS-SITE
Connect any compatible VRF HVAC brands to the solution, and diagnose them on all connected sites - from the comfort of your office or home

REAL-TIME ALERT NOTIFICATION
Receive real-time push notifications via text or email, for abnormal system behaviour

AUTOMATIC, CUSTOMIZABLE PERIODIC & USAGE REPORTS
Schedule a periodic VRF performance reports

CONTINUOUS MONITORING
Use continuous monitoring for early detection and handling of errors

REMOTE FIX VERIFICATION
Remotely set and run an automatic test procedure on the fixed system, followed by remote verification that all works as expected

365 DAYS OF HISTORICAL DATA
The solution automatically retains all of the data for up to a year

COMPATIBLE HVAC BRANDS

GREE · Johnson Controls INGENUITY WELCOME · TRANE · HITACHI · LG

GENERAL FUJITSU GENERAL Ltd., Japan · DAIKIN · MITSUBISHI ELECTRIC · FUJITSU · SAMSUNG

COOLAUTOMATION
VRF REMOTE DIAGNOSTICS

TURBOCHARGE THE PRODUCTIVITY OF YOUR VRF SPECIALISTS!
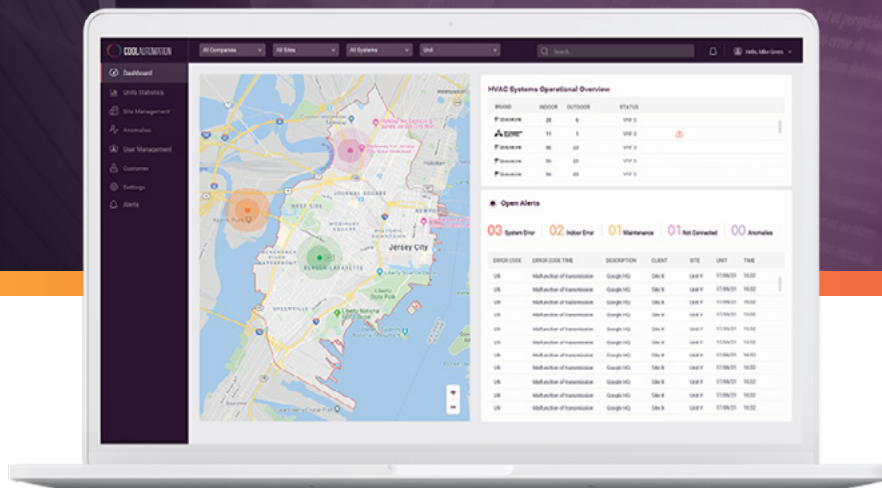
Did you know that 50% of your senior VRF engineer's time is spent on the road, or waiting?

With CoolAutomation's VRF Remote Diagnostics, your most precious expert can diagnose a faulty system remotely, before leaving the office and attending to the fault on-site. The ability to diagnose from afar helps assign the right professional and the right tools to resolve the problem, even before visiting the site. This maximizes the productivity of your most skilled professionals, allowing them to invest more time troubleshooting the really complex cases, or travel on-site only when really needed.

REMOTE VRF DIAGNOSTICS

Intelligently diagnose and control any VRF system remotely, by applying a cutting-edge solution for VRF Technical Service Companies and professionals like yourself.

CONTINUOUS VRF SYSTEM MONITORING

Technicians, installers and service professionals can access, diagnose and resolve errors remotely.

AWARDS

Software category finalist in the AHR expo 2022 innovation award.

Winner of the "Smart Heating and Cooling Product of the Year" Award of the 2022 annual IoT Breakthrough Awards program.

HOW DOES IT WORK

The CoolAutomation Remote Diagnostics solution consists of an intuitive cloud-based application and an IoT-enabling edge device - the CloudBox, which easily plugs into any VRF HVAC system. The solution is Plug & Play. It automatically detects the VRF system and available units. Once connected to the cloud, all brand-specific parameters of the connected systems will be immediately and continuously collected, analyzed and presented in the application.

The technician can then register to receive real time alerts and have 24/7 access to the remote systems, with all its service related parameters - for deep diagnostics where needed.

CoolAutomation Remote Diagnostics   CoolAutomation Cloud   CloudBox   VRF HVAC
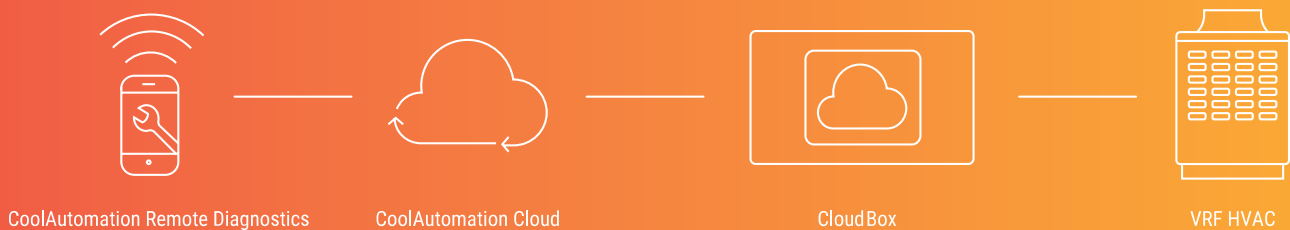
ADVANTAGES

CROSS-BRAND, CROSS-SITE
Connect any compatible VRF HVAC brand to the solution, use a unified user interface and tools to diagnose the connected systems on all connected sites - from the comfort of your office

REMOTE MONITORING
Constantly monitor the system's performance, receive error alerts and analyze the system data in real time, by using an intuitive graphical interface

REAL-TIME ALERT NOTIFICATION
Receive real-time push notifications via text or email, for abnormal system behaviour

COMPATIBLE BRANDS

GREE   Johnson Controls INGENUITY WELCOME   TRANE   HITACHI   LG   Haier

GENERAL FUJITSU GENERAL Ltd., Japan   DAIKIN   MITSUBISHI ELECTRIC   FUJITSU   SAMSUNG   TOSHIBA

ABOUT US

CoolAutomation is the industry leader of solutions that enable HVAC systems to be locally or remotely controlled, managed, and serviced. Our solutions are designed to allow any climate system to be internet-connected easily, securely, and reliably.

CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT. They are crucial to any professional in the HVAC, facility management and automation industries.

CoolAutomation is a global company headquartered in Israel, with tens of thousands of customers in over 90 countries and offices in the United States.

To check your system compatibility
Toll Free Number: 800-210-7103 | coolautomation.com

COOLAUTOMATION
THE INTERNET OF CLIMATE

HVAC SMART CONTROL DEVICES

CoolAutomation provides a 360˚ experience for HVAC automation - a one stop solution for all HVAC systems.

We have enhanced our offering beyond connecting VRF and Split systems, and we are complementing it a variety of controllers for non-VRF HVAC systems, such as heat pumps, fan coils, rooftop & packaged units, chillers, on/off controllers and analog & digital external sensors.

These smart devices provide a complete view of all the systems that are installed on-site, enabling the systems to be remotely managed, diagnosed, serviced, and controlled through CoolAutomation's cloud solutions.

Once connected to the CoolAutomation devices, these controllers also allow for an easy and seamless integration into Home Automation systems.

COOLAUTOMATION

Underfloor Heating Controller

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 information

- 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
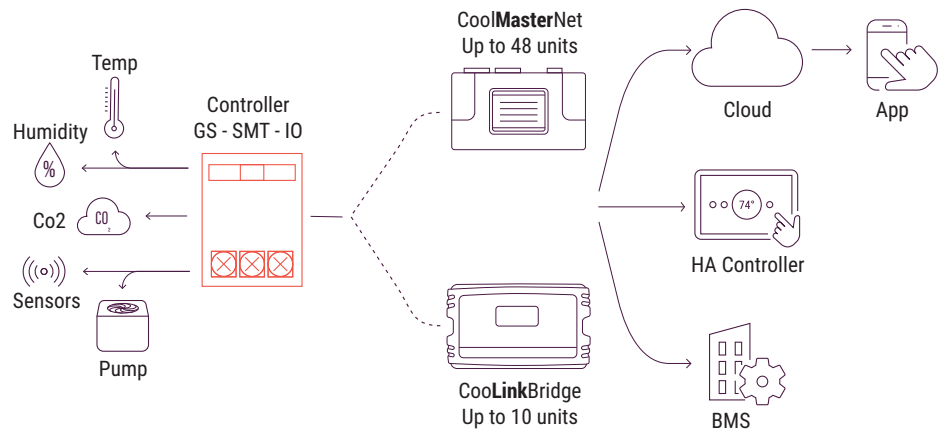- Power Input: 24Vdc, 0.5A

zone

Controller
GS - SMT - HOA

Up to 8 Controllers/
80 Zones

Up to 4 Controllers/
32 Zones

Cloud

App

HA Controller

BMS
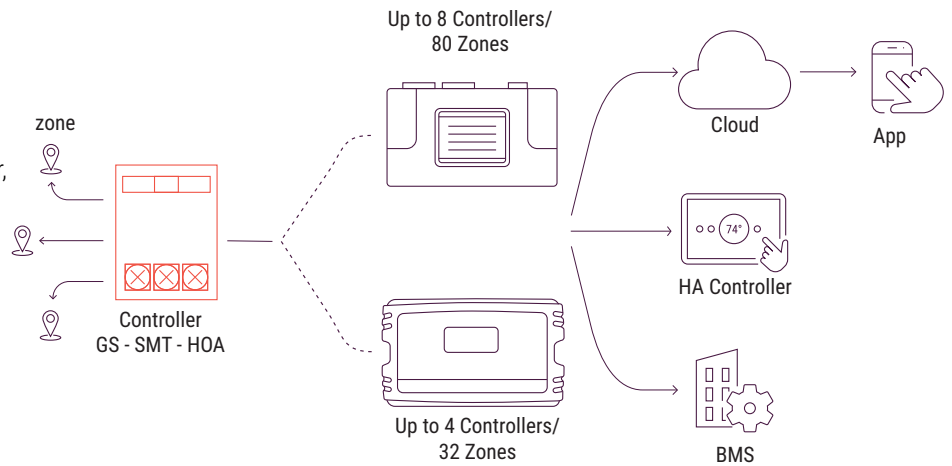
Multi-Purpose I/O Controller

Main Functions

- Control ON/OFF systems – Fans, Pumps, Blowers, Lights
- Get System/Fault status over dry contact
- Monitor sensors with standard control signals
- Each I/O point is separately displayed in Cloud Apps

Technical information

- 8 Universal Inputs.
  Each can be set as either:
  ° 10K Temp Sensor
  ° 0-10Vdc or 4-20mA (with resistor)
  ° Digital inputs
- 10 relay Outputs- Volt Free- NO/NC
- 2 Analog outputs 0-10Vdc
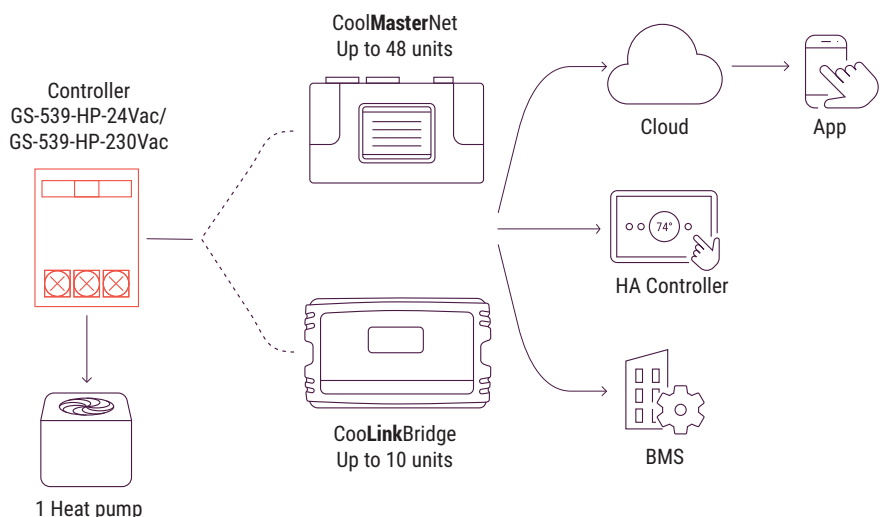- Power Input: 24Vdc, 0.5A

Temp

Humidity

Co2

Sensors

Pump

Controller
GS - SMT - IO

Cool**Master**Net
Up to 48 units

Coo**Link**Bridge
Up to 10 units

Cloud

App

HA Controller

BMS

Heat Pump Controller

Main Functions

- Din rail mounting
- Detachable connectors
- I/O and communication LED indication
- Modbus RTU network interface
- Each unit is separately displayed/controlled in Cloud Apps
- Control voltage options:
  ° 24Vac (GS-539-HP-24Vac)
  ° 230Vac (GS-539-HP-230Vac)

Technical Information

- Up to 10 Controllers connected with CooLinkBridge
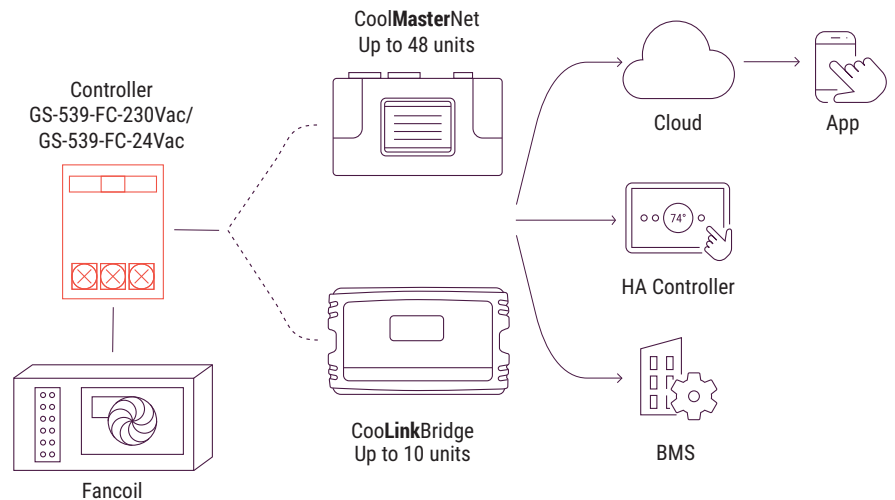- Up to 48 Controllers connected with CoolMasterNet port

Controller
GS-539-HP-24Vac/
GS-539-HP-230Vac

1 Heat pump

Cool**Master**Net
Up to 48 units

Coo**Link**Bridge
Up to 10 units

Cloud

App

HA Controller

BMS

Fan Coil Controller

Main Functions
- Din rail mounting
- Detachable connectors
- I/O and communication LED indication
- Modbus RTU network interface
- Each unit is separately displayed/ controlled in Cloud Apps

Technical information
- Up to 10 Controllers connected with CooLinkBridge
- Up to 48 Controllers connected with CoolMasterNet port

Controller
GS-539-FC-230Vac/
GS-539-FC-24Vac

Fancoil

CoolMasterNet
Up to 48 units

CooLinkBridge
Up to 10 units

Cloud

App

HA Controller

BMS

Touch-Screen, Wall Mounted Controller

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
- Selectable fan type and cool/heat outputs
- PIR, door and window inputs (Dry contact Volt Free)
- Relay and 0-10V equipment control logic outputs
- Each controller is separately displayed/ controlled in Cloud Apps

Technical information
- Up to 10 units per CooLinkBridge
- Up to 48 units per CoolMasterNet line
- Power Input: 24Vac
- Size: 113 x 103 x 25mm

Controller
GS - SMT - 131

CoolMasterNet
Up to 48 units

CooLinkBridge
Up to 10 units

Cloud

App

HA Controller

BMS
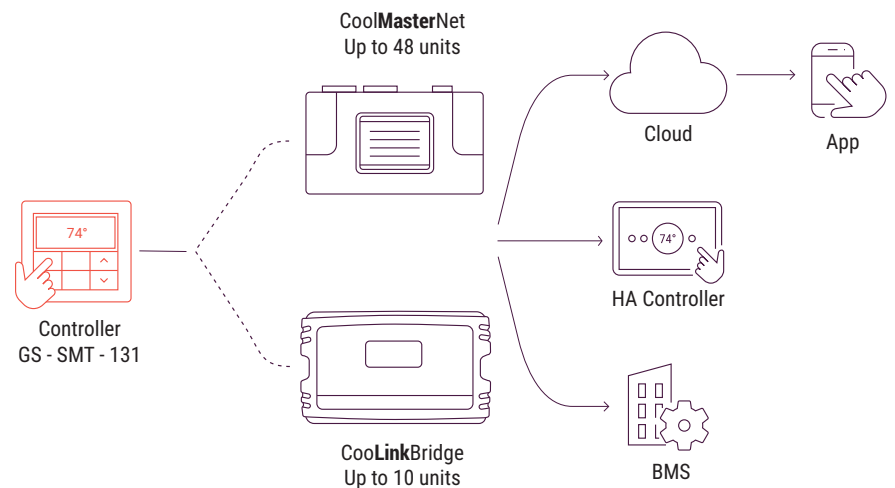
ABOUT COOLAUTOMATION

Founded in 2009, CoolAutomation is the industry leader of solutions that enable HVAC systems to be locally or remotely controlled, managed, and serviced. Our solutions are designed to allow any climate system to be internet-connected easily, securely, and reliably.

CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT. They are crucial to any professional in the HVAC, facility management and automation industries.

Our solutions enable remote management, diagnostics, service, and control of any HVAC system within the residential and commercial realms. Our specialization in HVAC, hardware, firmware, and cloud development, position us as experts in HVAC standardization; allowing us to provide our clients with a one-stop solution, for accessing and interfacing with HVAC systems.

CoolAutomation is a global company, with offices in the US, and with tens of thousands of customers in over 100 countries.

For more information, please visit CoolAutomation's website:
coolautomation.com

COOLAUTOMATION

COOLAUTOMATION
POWER DISTRIBUTION (CAPD) SOLUTION

The CoolAutomation Power Consumption Distribution (CAPD) solution tracks outdoor unit energy consumption broken down by the indoor unit operation ratio. The CAPD requires a field supply wattmeter with a Modbus RTU interface and can support multiple VRF systems and mixed VRF brand topologies.
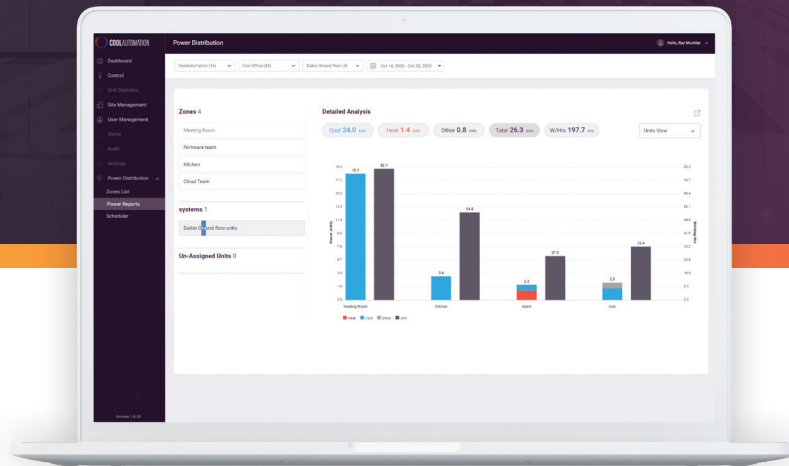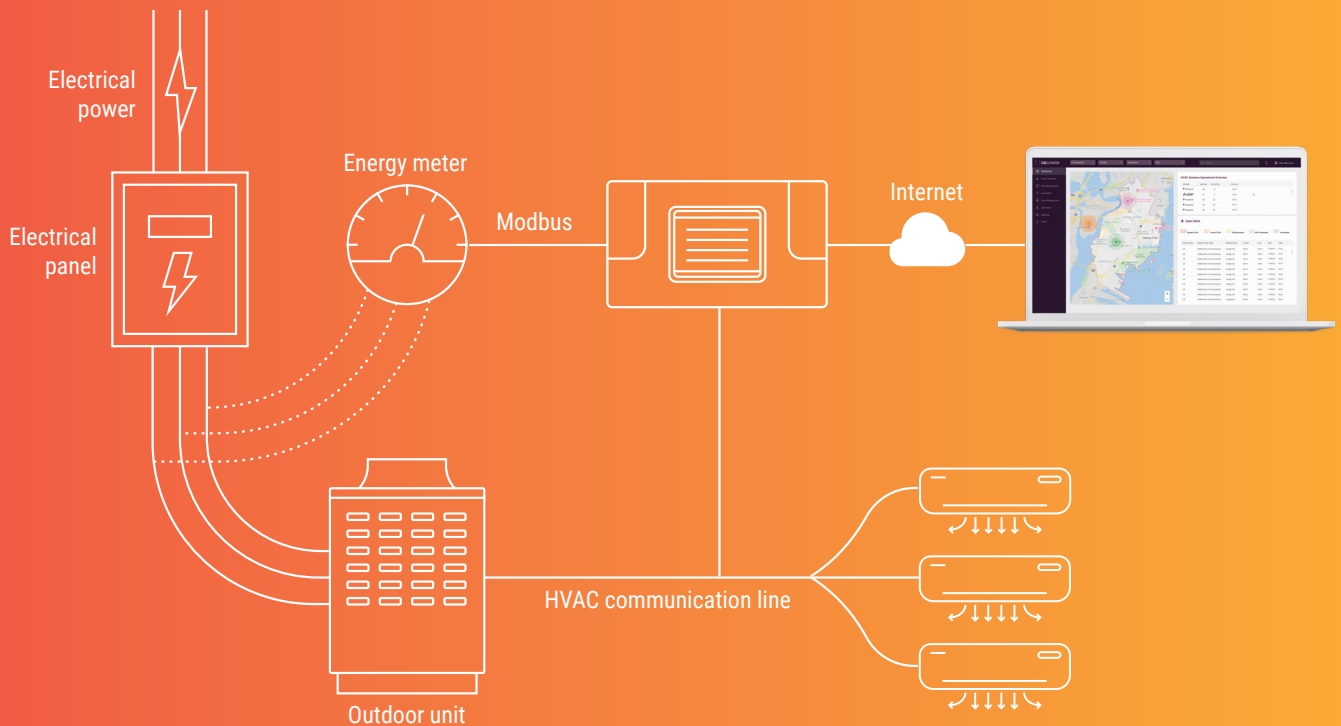

THE CHALLENGE WITH VRF METERING

Many multi-space building managers want to measure the energy consumption of every space, for the purpose of improving operational performance, tenant billing and more. With CAPD tools, they can remotely and easily access the energy consumption data they need from anywhere.

THE SOLUTION

WattMeters measure the actual condenser power consumption and push this data continuously over Modbus RTU to CoolMasterNet, which then transfers the periodic readings to CoolAutomation's cloud for analysis. The cloud -based application then breaks the overall consumption to each of the individual indoor units, based on an algorithm that looks at the actual operational ratio of each indoor unit.

COOLAUTOMATION

THE SOLUTION TOPOLOGY

Electrical power

Electrical panel

Energy meter

Modbus

Internet

Outdoor unit

HVAC communication line

KEY BENEFITS

Get real power consumption of each of the indoor units in the VRF system

Automatic, customizable periodic reports

Breakdown of consumption between HEAT and COOL modes

Graphic tool for review and analysis of historic power consumption

Support for all leading VRF brands

Easy export of data to CSV for downloading or integrating with billing systems

Remotely access the data from your web browser

Easy installation and commissioning of the solution

ABOUT US

CoolAutomation is the industry leader in Internet of Climate (IoC) technologies and HVAC automation. Internet of Climate (IoC) is a universal concept designed to allow any indoor climate system to be internet-connected easily, securely, and reliably. CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT, and are crucial to any professional within the HVAC service, management, or home and building automation industries. CoolAutomation's solutions enable remote monitoring, diagnostics, service, and control of any HVAC system within the residential, commercial, and hospitality industries. CoolAutomation is a global company headquartered in Israel with thousands of customers in over 90 countries.

To check your system compatibility
coolautomation.com

COOLAUTOMATION
THE INTERNET OF CLIMATE

COO**LINK**BRIDGE

Your connectivity and integration device for controlling and managing Zone Control systems, Heat Pumps, Underfloor Heating, and Chilled Water units

CooLinkBridge provides HVAC professionals, automation integrators, and facilities managers with the ability to remotely control, monitor, and manage auxiliary HVAC systems by creating a bi-directional and universal communication bridge between the HVAC and Automation Systems.

BENEFITS

Enables access to the CoolAutomation Application Suite which includes: Facilities Management and Control apps

Support for major Zone Control, Heat Pumps, Underfloor Heating, and Chiller HVAC systems

Native integration with all Home Automation and Building Management Systems

Native cloud integration with popular smart devices, including: Google Assistant, Ecobee and Amazon Alexa

COOL**AUTOMATION**

SIMPLE DIGITALIZATION

CoolAutomation Application Suite

Smart Devices

Home & Building Automation Controller

74°

74°

CoolRemote Cloud

CoolRemote Cloud

74°

Heat Pumps / Underfloor Heating / HRV

Zone Control

Special HVAC
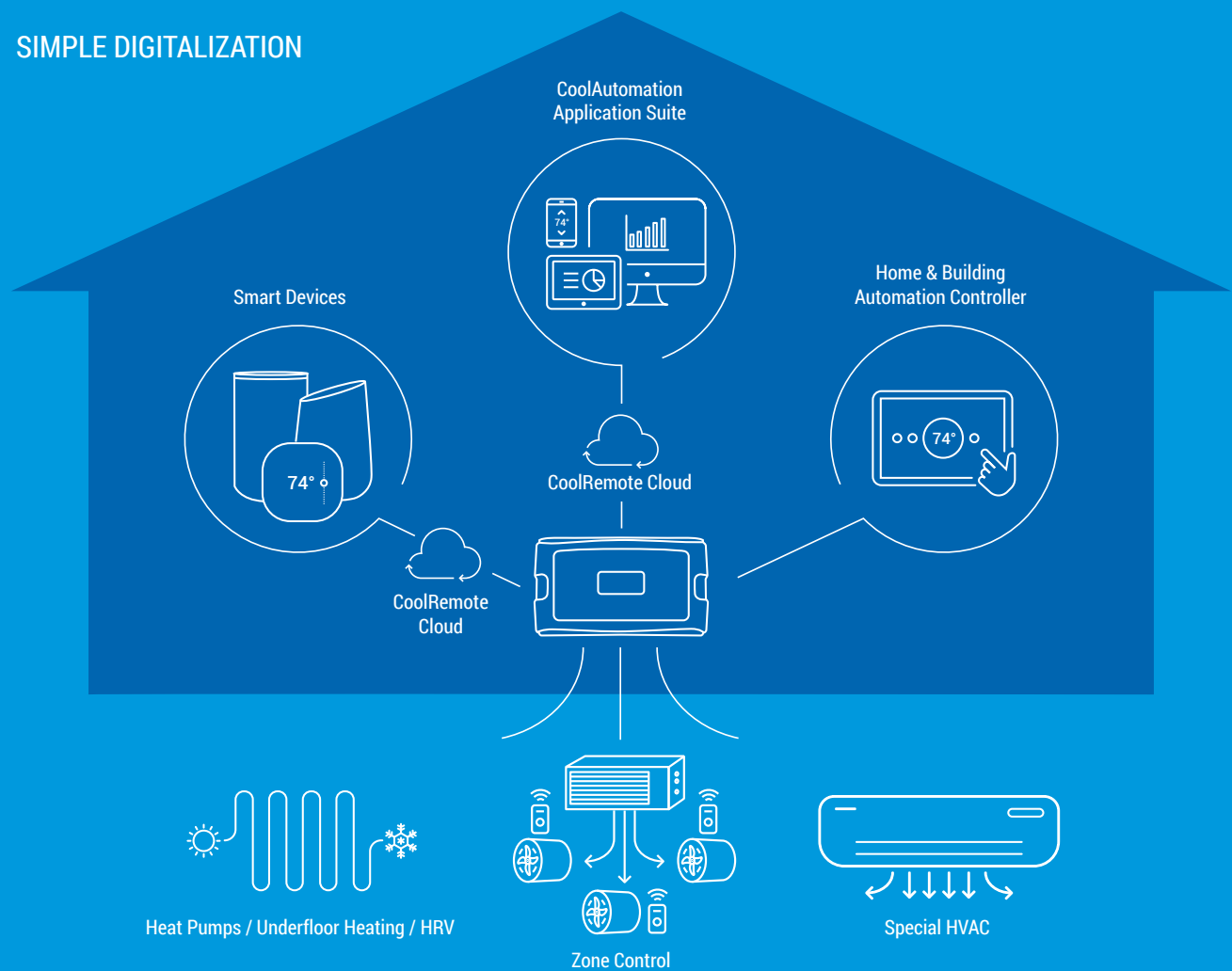
FEATURES

Communication through ASCII, MODBUS RTU, MODBUS IP, BACNET MSTP, BACNET IP, and REST API protocols

Automatic driver detection and installation for Home Automation systems

Configurable I/O's (optional)

Full control of each individual ducted unit

74°

To check your system compatibility
coolautomation.com

COOLAUTOMATION
THE INTERNET OF CLIMATE

COOL**MASTER**

Your universal connectivity and integration device for controlling and managing VRF HVAC systems in medium commercial and high end residential buildings.

Your product of choice for VRF HVAC integration, designed for medium size deployments with medium number of VRF/VRV indoor units on the same site. CoolMaster allows control of all the VRF/VRV system units and can also aggregate units from multiple systems and multiple brands, over multiple physical lines.

CoolMaster allows automation integrators, facilities managers, service providers and HVAC professionals the ability to control, monitor, service, and manage any VRF, by enabling a bi-directional universal communication channel between the VRF HVAC and the automation systems. CoolMaster is a Plug & Play device, simply unbox it and connect it to your VRF HVAC System

Benefits

Universal interface to all major VRF HVAC brands

Intuitive Mobile Applications for remote Control and basic diagnostics

Native out-of-the-box integration with all Home Automation Systems

Enables access to CoolAutomation Professional Application packages (additional license)
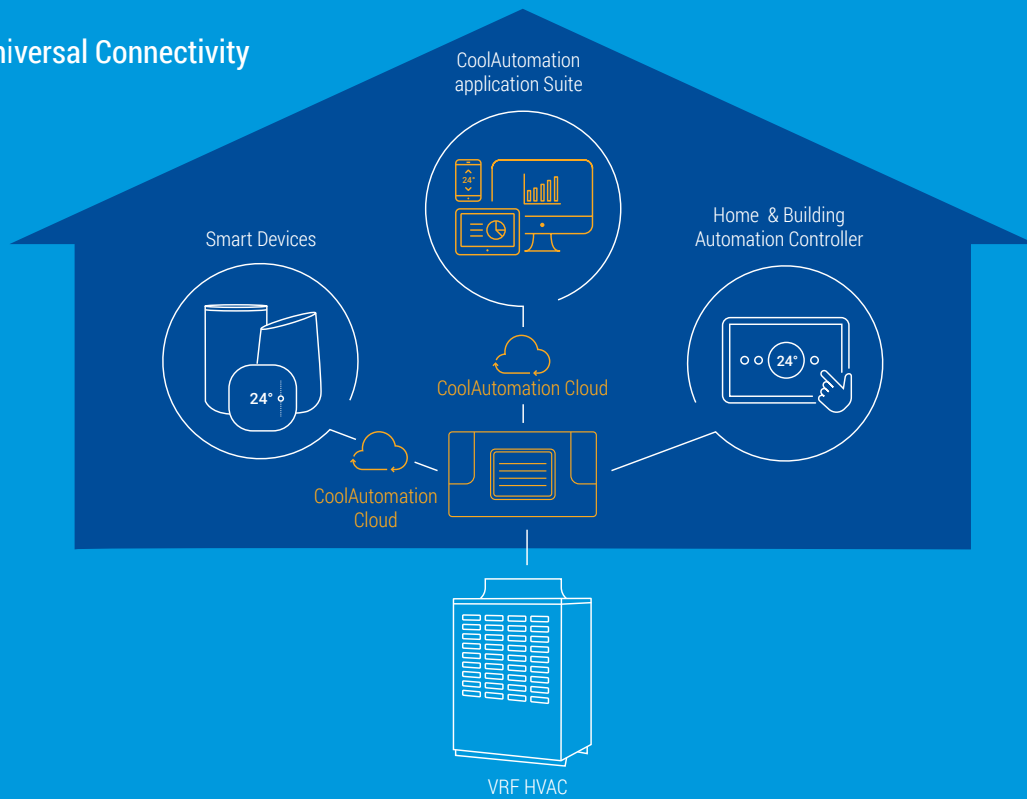
Standard protocols to integrate with Building Management Systems (BMS)

Native integration with leading cloud services including Google Assistant, Amazon Alexa, Smart Thermostats and many more

COOLAUTOMATION

Versatile Universal Connectivity

CoolAutomation
application Suite

Smart Devices

24°

Home & Building
Automation Controller

24°

CoolAutomation Cloud

CoolAutomation
Cloud

VRF HVAC

Key Features:

Interfaces include RS232, RS485, Ethernet, and KNX, for flexible connection with all major Home Automation brands

Communication protocols include MODBUS RTU, MODBUS IP, BACNET MSTP, BACNET IP, ASCII and REST API

Automatic driver detection and connection to all Home Automation systems

Touch screen display for local & simple device configuration , including centralized control of the VRF HVAC system

Connect multiple lines and brands on single device, for sites with physically separated systems

Configurable I/O's

To check your system compatibility
coolautomation.com

COOLAUTOMATION
THE INTERNET OF CLIMATE

COOL**MASTER PRODUCT LINE**

Your universal connectivity and integration device for controlling
and managing VRF HVAC systems.

The CoolMaster product line allows home automation specialists, building automation integrators, facilities managers and HVAC professionals the ability to integrate, control, monitor, service and manage any VRF or VRV HVAC system through a single device. The devices are plug-and-play and do not require prior technical HVAC knowledge. Simply unbox, ensure it is configured to the right HVAC brand using the built-in display, connect as indicated, and…that's it…

The product line includes 2 type of devices: CoolMaster fits most residential and small-medium commercial settings where the number of indoor units is limited whereas CoolMasterPro is targeted for large commercial settings that not only have numerous indoor units connected, but also require local access to technical and operational data for commercial building or facility management solutions

Benefits with all CoolMaster models

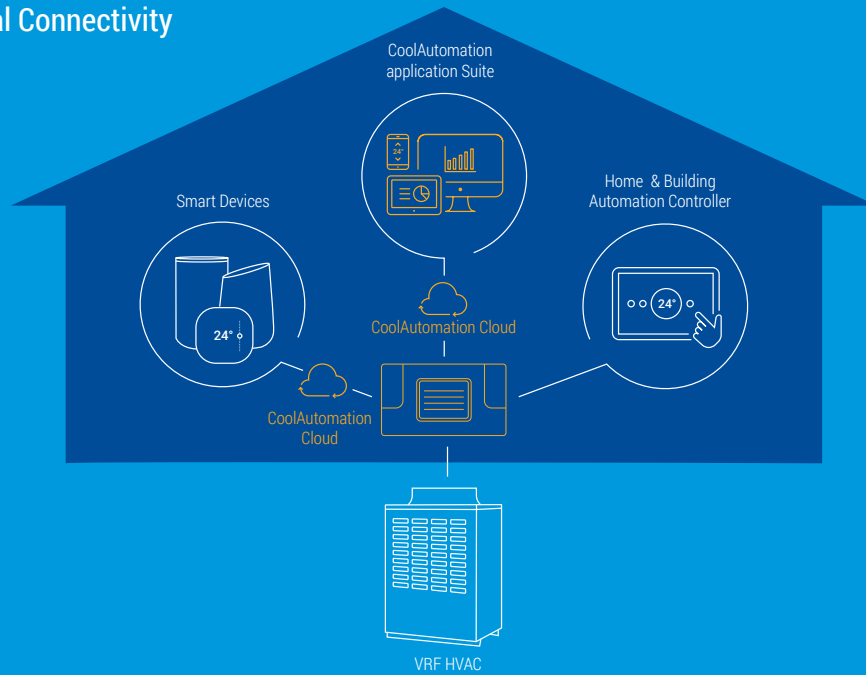|	
Universal interface to all major VRF HVAC brands	Intuitive Mobile Applications for remote Control and basic diagnostics
Native out-of-the-box integration with all Home Automation Systems	Enables access to CoolAutomation Professional Application suites
Standard protocols to integrate with Building Management Systems (BMS)	Native integration with leading cloud services including Google Assistant, Amazon Alexa, Smart Thermostats and many more

COOLAUTOMATION

Versatile Universal Connectivity

CoolAutomation application Suite

Smart Devices

Home & Building Automation Controller

CoolAutomation Cloud

24°

CoolAutomation Cloud

24°

VRF HVAC

Key Features:

Interfaces include RS232, RS485, Ethernet, and KNX, for flexible connection with all major Home Automation brands	Communication protocols include MODBUS RTU, MODBUS IP, BACNET MSTP, BACNET IP, ASCII and REST API
Automatic driver detection and connection with all Home Automation systems	Touch screen display for local & simple device configuration , including centralized control of the VRF HVAC system
Connect multiple lines and brands on single device, for sites with physically separated systems	Configurable I/O's

	CoolMaster	CoolMasterPro
Market segment	High end residential Commercial	Large Commercial
Max Connected units*	32	256
Local access to service data	✕	✓

*Units refers to any type of connected controlled/monitored unit: VRF indoor, CP, sensor, fan coil, any other HVAC unit

ABOUT US

Founded in 2009, CoolAutomation is the industry leader of solutions that enable HVAC systems to be locally or remotely controlled, managed, and serviced. Our solutions are designed to allow any climate system to be internet-connected easily, securely, and reliably. CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT.

Our solutions enable remote management, diagnostics, service, and control of any HVAC system within the residential and commercial realms. Our specialization in HVAC, hardware, firmware, and cloud development, position us as experts in HVAC standardization; allowing us to provide our clients with a one-stop solution, for accessing and interfacing with HVAC systems.

CoolAutomation is a global company headquartered in Israel, with tens of thousands of customers in over 90 countries.

To check your system compatibility
coolautomation.com

COOLAUTOMATION
THE INTERNET OF CLIMATE

COOL**MASTER**PRO

Your universal connectivity and integration device for controlling, monitoring and managing VRF HVAC systems in large commercial deployments.

CoolMasterPro allows automation integrators, facilities managers, service providers and HVAC professionals the ability to control, monitor, service, and manage any VRF system, by enabling a bi-directional universal communication channel between the VRF HVAC and the automation systems. CoolMaster is a Plug & Play device, simply unbox it and connect it to your VRF HVAC System.

CoolMasterPro can connect with multiple VRF systems, multiple brands, over multiple physical lines. It enables access to systems' valuable service data, for integrating localy with Building Management Systems , allowing advanced performance monitoring.

Benefits

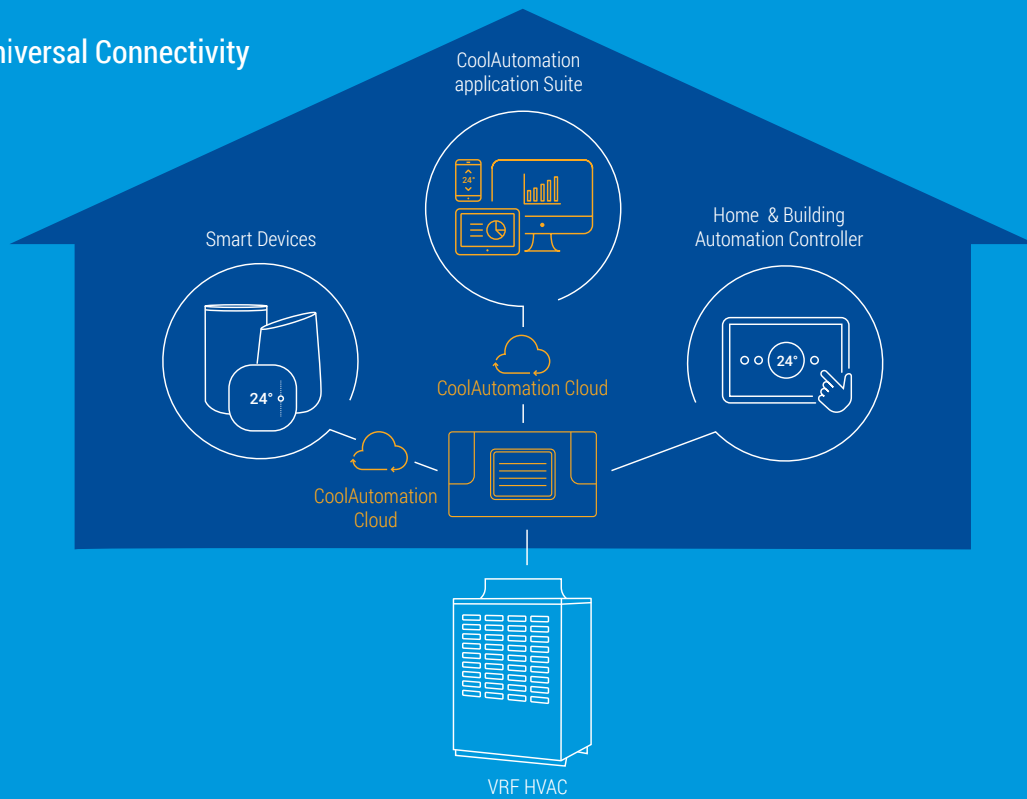|	
Universal interface to all major VRF HVAC brands	Standard protocols to integrate with Building Management Systems (BMS)
Local access to systems' valuable service data for BMS advanced performance monitoring	Native out-of-the-box integration with all Home Automation Systems
Enables access to CoolAutomation Professional Application packages (additional license)	Intuitive Mobile Applications for remote Control and basic diagnostics

COOL**AUTOMATION**

Versatile Universal Connectivity

CoolAutomation
application Suite

Smart Devices

Home & Building
Automation Controller

24°

CoolAutomation Cloud

24°

CoolAutomation
Cloud

VRF HVAC

Key Features:

Interfaces include RS232, RS485, Ethernet, and KNX, for flexible connection with all major Home Automation brands

Communication protocols include MODBUS RTU, MODBUS IP, BACNET MSTP, BACNET IP, ASCII and REST API

Connect multiple lines and brands on single device, for sites with physically separated systems

Touch screen display for local & simple device configuration , including centralized control of the VRF HVAC system

Local access to VRF/VRV systems' service data points, over standard protocols, for advanced performance monitoring.

Configurable I/O's

To check your system compatibility
coolautomation.com

COOLAUTOMATION
THE INTERNET OF CLIMATE

COOL**PLUG** AND COO**LINK**HUB

Your connectivity and integration devices
for controlling and managing Mini/Multi Split HVAC systems

CoolPlug provides automation integrators, facilities managers, and HVAC professionals with the ability to remotely control, monitor, and manage Mini/Multi Split HVAC systems through a bi-directional and universal communication bridge between the HVAC and Automation Systems.

CoolPlug is a Plug & Play device with simple, seamless, and straight-forward integration and installation processes. CoolPlug can be linked to CooLinkHub via a wired or wireless connection. CoolPlug's wireless capabilities are ideal for retrofit projects, as it eliminates the need for opening walls and ceilings.

BENEFITS

Enables access to the CoolAutomation Application Suite including: Facilities Management and Control Apps

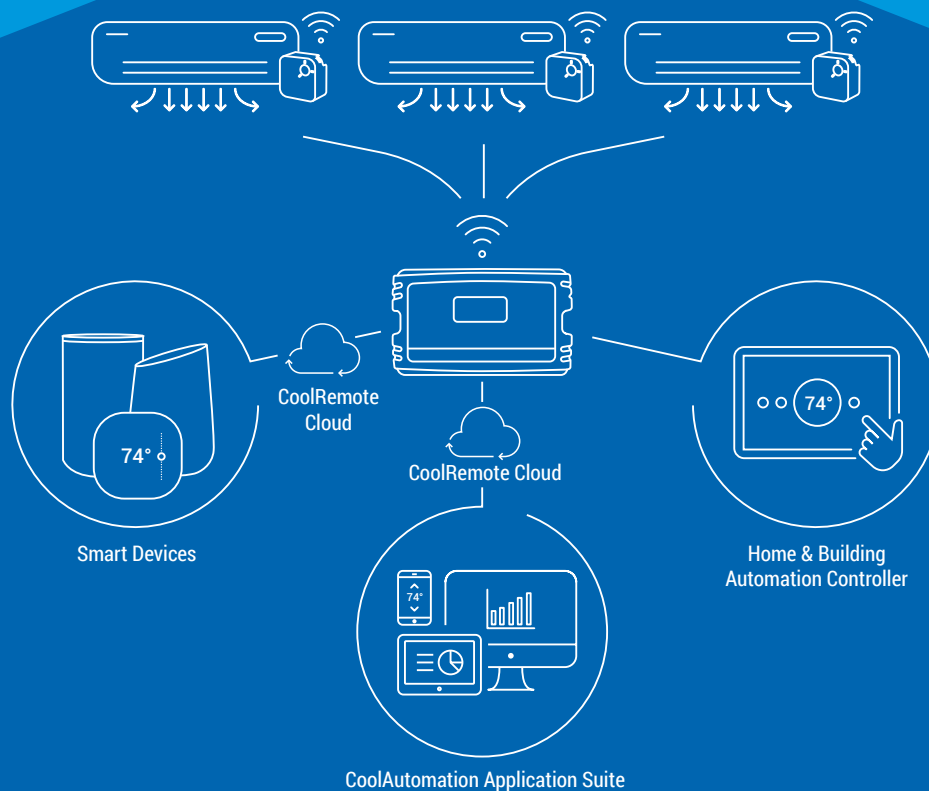Single interface for Mini/Multi Split HVAC systems

Native integration with Home Automation and Building Management Systems

Native cloud integration with popular smart devices, including: Google Assistant, Ecobee and Amazon Alexa

COOLAUTOMATION

SIMPLE DIGITALIZATION

CoolRemote Cloud

CoolRemote Cloud

Smart Devices

Home & Building Automation Controller

CoolAutomation Application Suite

FEATURES

Connectivity through RS232, RS485, or Ethernet physical layers

Automatic driver detection and installation for all Home Automation Systems

Wireless connectivity between CoolPlug and CooLinkHub

BMS connectivity (Modbus, BACNet)

Rest API for local and remote access

ABOUT US

CoolAutomation is the industry leader in Internet of Climate (IoC) technologies and HVAC automation. Internet of Climate (IoC) is a universal concept designed to allow any indoor climate system to be internet-connected easily, securely, and reliably. CoolAutomation's unique combination of devices and cloud-based technologies are the next evolution of IoT, and are crucial to any professional within the HVAC service, management, or home and building automation industries. CoolAutomation's solutions enable remote monitoring, diagnostics, service, and control of any HVAC system within the residential, commercial, and hospitality industries. CoolAutomation is a global company headquartered in Israel with thousands of customers in over 90 countries.

To check your system compatibility
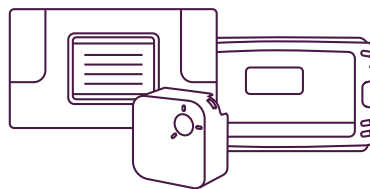**coolautomation.com**

COOLAUTOMATION
THE INTERNET OF CLIMATE

SMART DEVICE INTEGRATION SOLUTION

Your cutting-edge Internet of Climate (IoC) solution for connecting and controlling
your VRF and Split HVAC systems with the leading smart devices such as
Google Assistant, Amazon Alexa, and ecobee SmartThermostat

works with **Google** Assistant

JUST ASK **alexa**

VRF and Mini/Multi Split HVAC

Cool**Master**Net, Cool**Plug,** Coo**Link**Bridge

Cool **Remote** Cloud
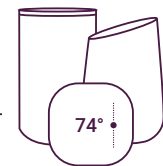
Smart Device Cloud

Smart Devices

FEATURES

VRF & Split HVAC System Connectivity
The integration is available for all major VRF and Split HVAC brands

Full Smart Device Functionality
Utilize all functions of your smart device and enable voice control of your HVAC system
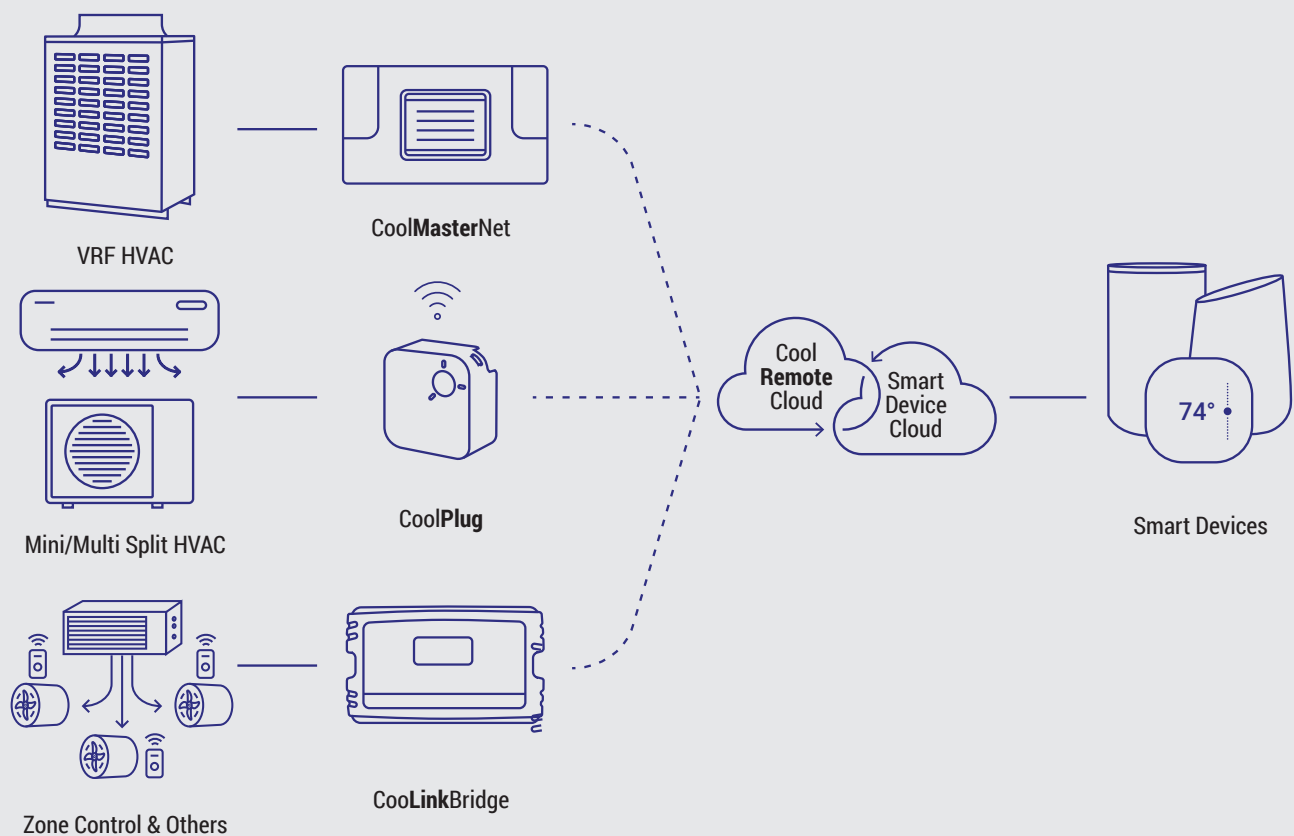
Real-Time Feedback
Bi-directional communication between the smart device and the HVAC unit, providing real-time feedback.

Full HVAC Functionality
Enable the full range of functionality for your VRF or Multi/Mini Split HVAC system through any compatible smart device

COOLAUTOMATION

HOW DOES IT WORK?

VRF HVAC

Cool**Master**Net

Mini/Multi Split HVAC

Cool**Plug**

Cool
Remote
Cloud

Smart
Device
Cloud

74°

Smart Devices

Zone Control & Others

Coo**Link**Bridge

COMPATIBLE HVAC BRANDS

DAIKIN   **HITACHI**   **MITSUBISHI ELECTRIC**   **Haier**   **BLUE STAR**   **SAMSUNG**   **Midea**   **Rheem**

YORK   **GENERAL** FUJITSU GENERAL Ltd., Japan   **CHIGO**   **TRANE**   **FUJITSU**   **TOSHIBA**   **SANYO**   **LG**

GREE   **Johnson Controls** INGENUITY WELCOME   **Carrier**   **Kaisun** Yakurullu Güneş Enerjisi   **Panasonic**   **MITSUBISHI HEAVY INDUSTRIES**   **LENNOX**   **INTENSITY** AIR CONDITIONING

COMPATIBLE SMART DEVICES

Google Assistant   **ecobee**   **amazon alexa**

COOLAUTOMATION
THE INTERNET OF CLIMATE