



Climate Control Integration Solutions

BRING INVERTER AC (MINI SPLIT & VRF) UNITS
INTO YOUR INTEGRATION PROJECTS



Integration options

	Direct Expansion	Chilled Water fan coil
BACnet MS/TP	Aidoo Pro DX Aidoo Pro STI Aidoo Pro HUB	Aidoo Pro Fan Coil
BACnet IP	Aidoo Pro DX Aidoo Pro STI Aidoo Pro HUB	Aidoo Pro Fan Coil
Modbus RTU	Aidoo Zigbee Aidoo Z-Wave Aidoo Pro DX Aidoo Pro STI Aidoo Pro HUB	Aidoo Pro Fan Coil
Modbus TCP	Aidoo Pro DX Aidoo Pro STI Aidoo Pro HUB	Aidoo Pro Fan Coil
KNX	Aidoo KNX	-
API Cloud	Aidoo Pro DX Aidoo Pro STI Aidoo Pro HUB	Aidoo Pro Fan Coil
API Rest	Aidoo Pro DX Aidoo Pro STI Aidoo Pro HUB	Aidoo Pro Fan Coil
Zigbee	Aidoo Zigbee	-
Z-Wave	Aidoo Z-Wave	-

INTEGRATION OPTIONS

 BACnet MS/TP
  BACnet IP
  Modbus RTU
  Modbus TCP

{REST:API}



Works with
IFTTT



DRIVERS

Control4

CRESTRON

SAVANT

Nice

ELAN

RTI

U-C

Home Assistant

Check Aidoo compatibility
for your unit >>



+200 COMPATIBLE BRANDS

+40 INTEGRATION POSSIBILITIES

Heating, Ventilation, and Air Conditioning (HVAC)



Building Management Systems & Home Automation Platforms



Hospitality Platforms



Standard protocols



IoT & Voice Control



Integration
Support >>



What is Aidoo?



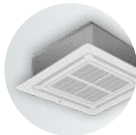
Aidoo is Airzone's range of plug & play gateways for climate control integration. Aidoo gateways enhance connectivity and control of Inverter (mini split & VRF) HVAC units, while preserving functionality.

Integration aims to centralize control of different technologies for seamless communication and efficient operation. Due to complex communication protocols, HVAC systems are among the most challenging to integrate, but thanks to Aidoo, integrating HVAC units becomes a breeze.

Suitable for individual indoor AC units



Consoles



Cassettes



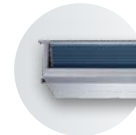
Ducted
AC units



Mini split
units



Vertical &
Multipositional
Units AHUs



Chilled water
fan coils



Heat pumps



Plug & Play: Quick and simple 1:1 integration solution with no programming required



Flexibility: Ideal for new and retrofit installations



Remote Control: Enhanced control and access from anywhere



Efficiency: Optimizes energy use while streamlining maintenance



Increased Profitability: Simplifies integration and boosts project efficiency

CONNECTIVITY AND BASIC INTEGRATION

Aidoo Wi-Fi responds to the most basic HVAC communication and integration needs.

Aidoo Wi-Fi Inverter/VRF

Acts as a **gateway for Inverter/VRF units, adding control through the Airzone Cloud app** thanks to full two-way communication with the indoor unit. It can be installed and configured in minutes, offering advanced features for both new installations and retrofits.

- **Bluetooth** configuration
- **Wi-Fi 2.4 GHz** communication
- **Modbus RTU** integration port
- **HVAC unit control**: on/off, fan speed, mode, scheduling, set point limits
- **Indoor unit remote error** code readings
- Control via:



PRO INTEGRATION

The Aidoo Pro line offers a fast and reliable solution for customizable, configurable integration, offering an array of options beyond closed communication protocols.

AIDOO PRO FEATURES

- **Dual W-Fi 2.4/ 5 Ghz** communications
- **Airzone Cloud App** control & configuration
- **Customizable Smart Home & Building Management System** integration through:



- **Downloadable drivers:**



- **API integration**



- **Integration with third-party installations:**

- » **Digital inputs** for occupancy and open window sensors
- » **Relay output** for supplemental heat.
- » **Smart Thermostat integration**



- » **Voice Control & IoT:**



- The Aidoo Pro line has **options available for:**

- » **Inverter/VRF**
- » **Fan coil units**

Aidoo Pro DX Inverter/VRF

Our most advanced, customizable integration gateway for bi-directional control of Inverter (mini split & VRF) units.

- **Control Parameters:** On/Off, Operation Mode, Room Temperature, Set-Point Temperature, Fan Speed
- **Indoor unit remote error** code readings
- **Digital inputs** for occupancy sensors and open window contact
- **12 VdC relay output** for auxiliary heat control
- **Compatible with Airzone's Blueface thermostat**
- **Dry contact** for Smart Thermostat integration
- **OpenADR Certified**



Aidoo Pro STI Inverter/VRF + New!

Streamlined **Smart thermostat integration** for Inverter (mini split & VRF) units.

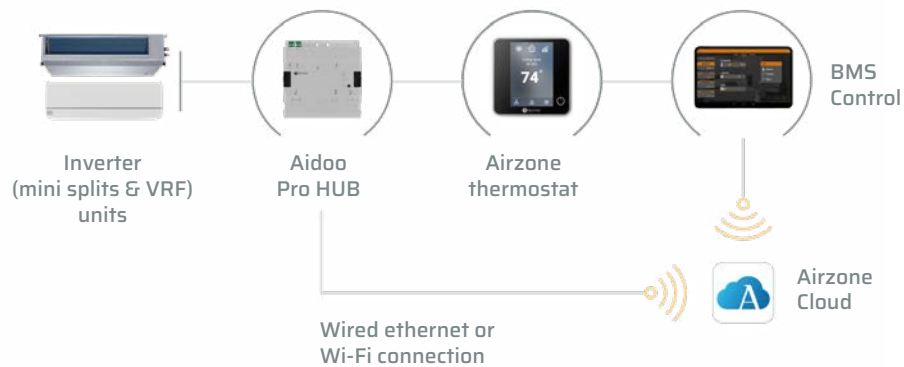
- **Power Supply:** 24VAC (Uses the field supplied smart thermostat power Supply)
- **Control Parameters:** On/Off, Operation Mode, Room Temperature, Set-Point Temperature, Fan Speed
- **Indoor unit remote error** code readings
- **Digital inputs** for occupancy sensors and open window contact
- **Relay output** for auxiliary heat control



Aidoo Pro HUB Inverter/VRF + New!

All the benefits of our Aidoo Pro system for **Inverter (mini split & VRF) units**, now with the added convenience of a **wired Ethernet port** for reliable, cabled installations.

- Integration port for **Modbus RTU/TCP, BACnet MS-TP/IP, Lutron Palladiom thermostat**
- **Compatible with Airzone`s Blueface thermostat**
- **Auxiliary heat management** and lock out temperature
- **Automatic mode switching** with the adjustment of two set-point temperatures
- Integration via **local API and Cloud API, multicast mDNS**



Aidoo Pro Fan coil + New!

Integration gateway with an array of customizable integration options for 0-10V and 3-speed chilled water fan coil units.

- **All/nothing or 0-10 V** solenoid valves control
- **Digital inputs** for occupancy sensors and open window contact
- **Supply temperature detection** for the automatic mode change
- **Blueface thermostat** or room temperature probe for temperature control



AIDOO PRO LINE

	AIDOO PRO WI-FI	AIDOO PRO HUB	AIDOO PRO STI
Type of AC unit	Inverter/VRF, Fan coil	Inverter/VRF	Inverter/VRF
Dual Wi-Fi 2.4–5 GHz	Yes	Yes	Yes
Ethernet	–	Yes	–
GYW input for smart thermostat	Yes	–	Yes
External power	12 VDC (external power supply included)	220 VAC	24 VAC (external power supply not included)*
RS-485 port	1 port (Airzone thermostat or integration)	2 ports (Airzone thermostat and integration)	1 port (Airzone thermostat or integration)
Digital input	1 configurable (inverter/VRF) 3 inputs: occupancy, window, and Eco (Fan coil)	1 configurable	1 configurable
Airzone thermostat	Yes (Inverter/VRF and Fan coil)	Yes (Inverter/VRF)	–
Auxiliary Heat	Yes (Inverter/VRF and Fan coil)	Yes (Inverter/VRF)	Yes

*Uses the same power supply as the smart thermostat.

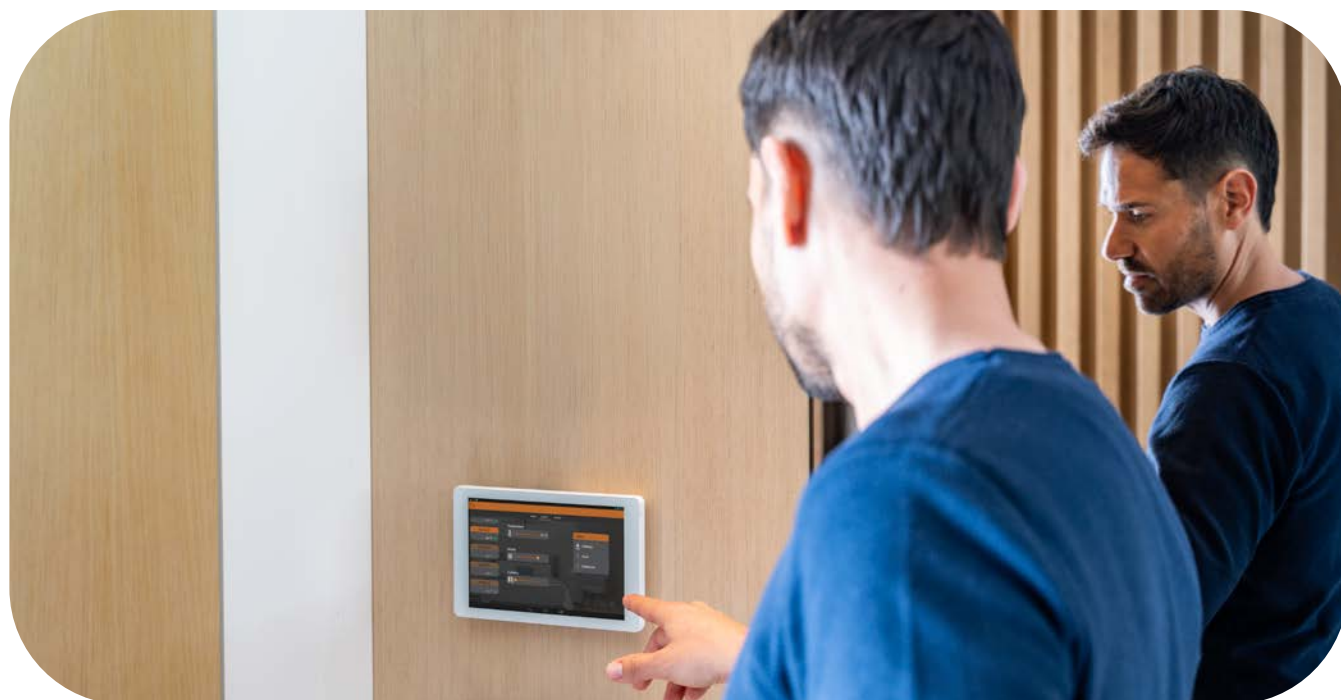
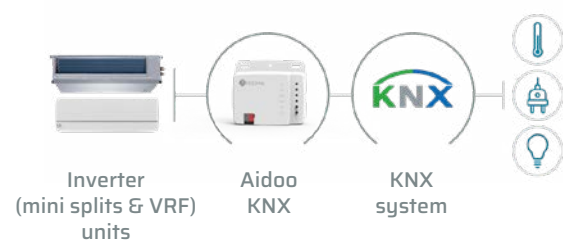
STANDARD PROTOCOL INTEGRATION

The Aidoo range supports most major closed communication protocols.

Aidoo KNX Inverter/VRF

Integration gateway with the KNX TP-1 closed communication protocol for bi-directional control for Inverter/VRF units.

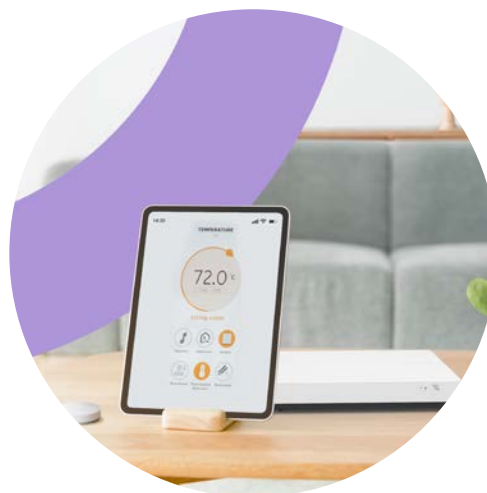
- **ETS configuration**
- **Indoor unit remote error** code readings
- **Power Supply** through the KNX bus cable
- **3 Configurable digital inputs**



Aidoo Z-Wave Inverter/VRF

Integration gateway with the **Z-Wave closed communication protocol** for bi-directional control and communications **for Inverter/VRF units**.

- **Control Parameters:** On/Off, Operation Mode, Room Temperature, Set-Point Temperature, Fan Speed
- **Acts as a Z-wave repeater**, improving network reliability
- **Standard & Z-Wave SmartStart Configuration**
- **Indoor unit remote error** code readings
- **Power supply** through the indoor unit or external power source
- **Standard thermostat command** classes defined by the Z-Wave Protocol



Partners:



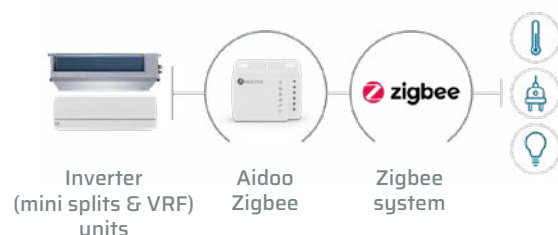
Aidoo Zigbee Inverter/VRF

Integration gateway with the **Zigbee closed communication protocol** for bi-directional control and communications **for Inverter/VRF units**.

- **Control Parameters:** On/Off, Operation Mode, Room Temperature, Set-Point Temperature, Fan Speed
- **Acts as a Zigbee repeater**, improving network reliability
- **Wireless Zigbee configuration**
- **Power supply** through the indoor unit or external power source



Through Modbus



Comparison of the Aidoo product line

	AIDOO WI-FI	AIDOO PRO	AIDOO KNX	AIDOO Z-WAVE	AIDOO ZIGBEE
Type of AC unit	Inverter/VRF	Inverter/VRF, Fan coil	Inverter/VRF	Inverter/VRF	Inverter/VRF
Connectivity	Wi-Fi 2.4 GHz	Dual Wi-Fi 2.4–5 GHz, Ethernet	KNX	Z-Wave Plus	Zigbee
Airzone Cloud app	Yes	Yes	–	–	–
Voice control	Yes	Yes	–	–	–
Modbus	–	Modbus RTU and TCP	–	Modbus RTU	Modbus RTU
BACnet	–	BACnet MS/TP and IP	–	–	–
REST API and integration drivers	–	Yes	–	–	–
Cloud API	Yes	Yes	–	–	–

AIDOO
climate econnection





INTEGRATION FOR ZONED HVAC INSTALLATIONS

When it comes to complex luxury builds, requiring the combination of various HVAC technologies to maximize energy efficiency and optimize thermal comfort, **Airzone's multizone control & integration systems offer a reliable and scalable technical solution.**

Airzone's smart zoning solutions are designed to incorporate HVAC installations into a home or building's

centralized management, offering precise zoned control in each space and HVAC automation. This ensures improved user comfort and energy savings, as the system only air conditions based on real demand.

With Airzone, **the integration of hybrid HVAC applications has the potential of becoming a sustainable competitive advantage.**

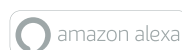
Airzone HUB

THE KEY TO INTEGRATION FOR AIRZONE ZONING SYSTEMS: VAF & EASYZONE

The Webserver HUB acts as a bidirectional communication gateway, connecting HVAC units to protocols such as BACnet and Modbus. However, the integration options go beyond standard protocols, **offering a library of integration drivers to connect HVAC systems into the leading Home Automation and BMS platforms**

Designed for multi-brand, multiprotocol environments, it enables centralized management of sophisticated HVAC systems, offering precise control across multiple zones and technologies.

- Control up to **32 Airzone systems**
- **Ethernet port**
- RS485 port for **BACnet MS/TP, Modbus RTU**
- **Dual Wi-Fi 2.4/5 GHz**
- **Bluetooth Low Energy (BLE)** connectivity for configuration
- **Firmware and system remote updates**
- **Remote error code readings**
- Control via:



LOCAL API

Direct IP communication with the local web server,
Airzone Cloud Webserver HUB.

The local API is open to allow the integration of HVAC applications with home automation systems.

- **Drivers:**

Control4

CRESTRON ELAN

Home Assistant

Nice

RTI

SAVANT

U-C



Airzone System



Airzone Cloud Webserver HUB



Local API Drivers



- **API integration:**

JOSH

LUTRON.



Aidoo

REFERENCE	DESCRIPTION
AZAI6WSC [XXX] ¹	Aidoo Wi-Fi [brand]
AZAI6KNX [XXX] ¹	Aidoo [brand] KNX Inverter/VRF
AZAI6WSP [XXX] ¹	Aidoo [brand] Pro Inverter/VRF controller
AZAI6WSPFAN	Aidoo Pro Fan coil
AZAI8HB2 [XXX] ¹	Aidoo Pro HUB Airzone-[brand] Inverter/ VRF
AZAI6WP2 [XXX] ¹	Aidoo Pro Smart Thermostat Interface [brand]
AZAI6BLUEZEROC [B/N] ²	Airzone Aidoo wired thermostat - Blueface Zero [white/black]
AZAI6ZWU[XXX] ¹	Aidoo [brand] Z-Wave controller
AZAI6ZBE [XXX] ¹	Aidoo Zigbee [brand]



Check the availability and compatibility
with manufacturers' units

Replace [XXX] with the corresponding acronym, depending on the brand of the unit:

¹[XXX] :

BA1 = Baxi R32	HS2 = Hisense VRF	PAN = Panasonic PACi
BAX = Baxi R410A	HIT = Hitachi RPI	PA0 = Panasonic RAC
DA0 = Daikin Residential	HI2 = Hitachi RAD	Domestic
DA1 = Daikin Sky Air/VRV	HI3 = Hitachi Primary	SA2= Samsung Nasa
FUJ =Fujitsu 3 wires	LGE = LG	TOS = Toshiba
FU2 = Fujitsu GEN2	MD1= Midea V5	
GR1 = Gree U-Match R32	MD2= Midea V6	
GRE = Gree U-Match R410A	MD4 = MideaV5 (HAHB)	
GR2 = Gree VRF	MEL = Mitsubishi Electric	
HAI = Haier	MHI = Mitsubishi Heavy	
HS1 = Hisense 1x1		

BA1, BAX and HS1 not available with Aidoo Wi-Fi, Aidoo Z-Wave and Aidoo Zigbee.



Aidoo
Wi-Fi



Aidoo
KNX



Aidoo
Pro



Aidoo Pro
Fan coil



Aidoo
Pro HUB



Aidoo
Pro STI



Aidoo
Z-Wave



Aidoo
Zigbee

Zoning Systems' Key to Integration

REFERENCE	DESCRIPTION
AZX6WSPHUB ³	Webserver HUB Airzone Cloud Dual 2.4-5 GHz/Ethernet



Airzone Cloud Webserver HUB

² Compatible with Aidoo Pro for Inverter/VRF units and Aidoo Pro Fancoil.

³ Must be ordered as an integration component with a complete Airzone Zoning System: Easyzone or VAF.

Contact Airzone



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