AIRZONE

Climate Control Integration Solutions
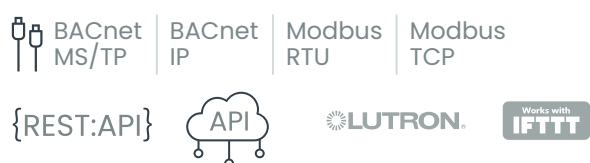
BRING INVERTER AC (MINI SPLIT & VRF) UNITS
INTO YOUR INTEGRATION PROJECTS

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 Wi-Fi	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} API ᴸᴜᵀᴿᴼᴺ LUTRON Works with IFTTT

DRIVERS

Control4 CRESTRON SAVANT Nice

ELAN RTI URC Home Assistant

Check Aidoo compatibility
for your unit ❯❯

+200 COMPATIBLE BRANDS   +40 INTEGRATION POSSIBILITIES

Heating, Ventilation, and Air Conditioning (HVAC)

DAIKIN · MITSUBISHI ELECTRIC AIR CONDITIONERS · LG · FUJITSU · SAMSUNG · Haier · HITACHI · Hisense · Midea

GREE · Carrier · bryant · TOSHIBA · YORK · LENNOX · Panasonic · TRANE

MITSUBISHI HEAVY INDUSTRIES · CH Cooper&Hunter · DURASTAR · CHIGO

Building Management Systems & Home Automation Platforms

CRESTRON · LUTRON · Control4 · RTI · SAVANT · JOSH · ELAN

bodhi · Home Assistant · URC · Schneider Electric · Nice · SMARTRENT

Hospitality Platforms

INTEREL · LUTRON · telkonet · VERDANT

Standard protocols

BACnet · Modbus · KNX · zigbee · ZWAVE

IoT & Voice Control

amazon alexa · works with the Google Assistant · Works with SmartThings · Works with IFTTT · MQTT · ecobee · Honeywell Home

G Nest · VENSTAR · PELICAN · ALARM.COM

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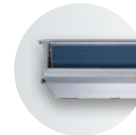
Plug & Play: Quick and simple 1:1 integration solution with no programming required

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

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:

amazon alexa   works with the Google Assistant   Works with SmartThings

Inverter/ VRF
Indoor Unit

Aidoo Controller
Wi-Fi

Airzone
Cloud

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:

  BACnet MS/TP Port BACnet IP | Modbus RTU Modbus TCP | {REST:API} | API

- **Downloadable drivers:**

  Control4 · CRESTRON · ELAN
  Home Assistant · Nice · RTI · SAVANT · URC

- **API integration**

  JOSH · LUTRON

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

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

  ecobee · G Nest · Honeywell Home
  PELICAN · VENSTAR

  » **Voice Control & Iot:**

  amazon alexa · works with the Google Assistant · Works with SmartThings
  Works with IFTTT · MQTT

- 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

Inverter (mini splits & VRF) units — Aidoo Pro — Airzone thermostat — BMS Control — 3er Party Cloud — Airzone Cloud

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
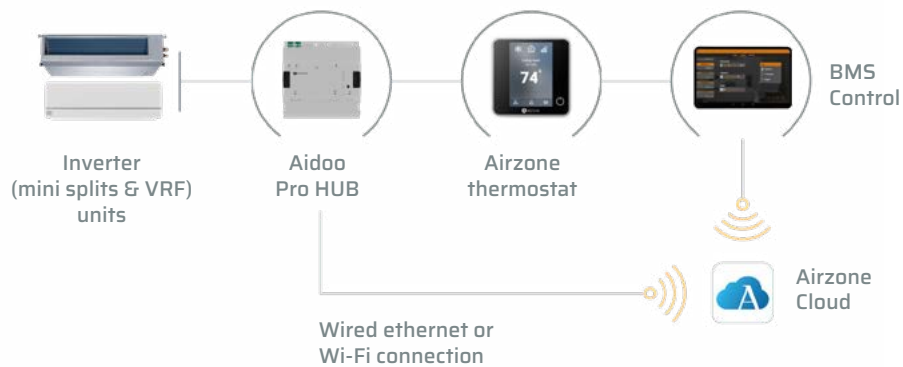- **Relay output** for auxiliary heat control

Inverter (mini splits & VRF) units — Aidoo Pro STI — Smart thermostat — 3er Party Cloud — Airzone Cloud

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**

Inverter (mini splits & VRF) units

Aidoo Pro HUB

Airzone thermostat

BMS Control

Airzone Cloud

Wired ethernet or Wi-Fi connection

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

Chilled Water Fan Coil Units

Aidoo Pro Fan coil

Airzone Cloud

BMS control

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**

Inverter
(mini splits & VRF)
units

Aidoo
KNX

KNX
system
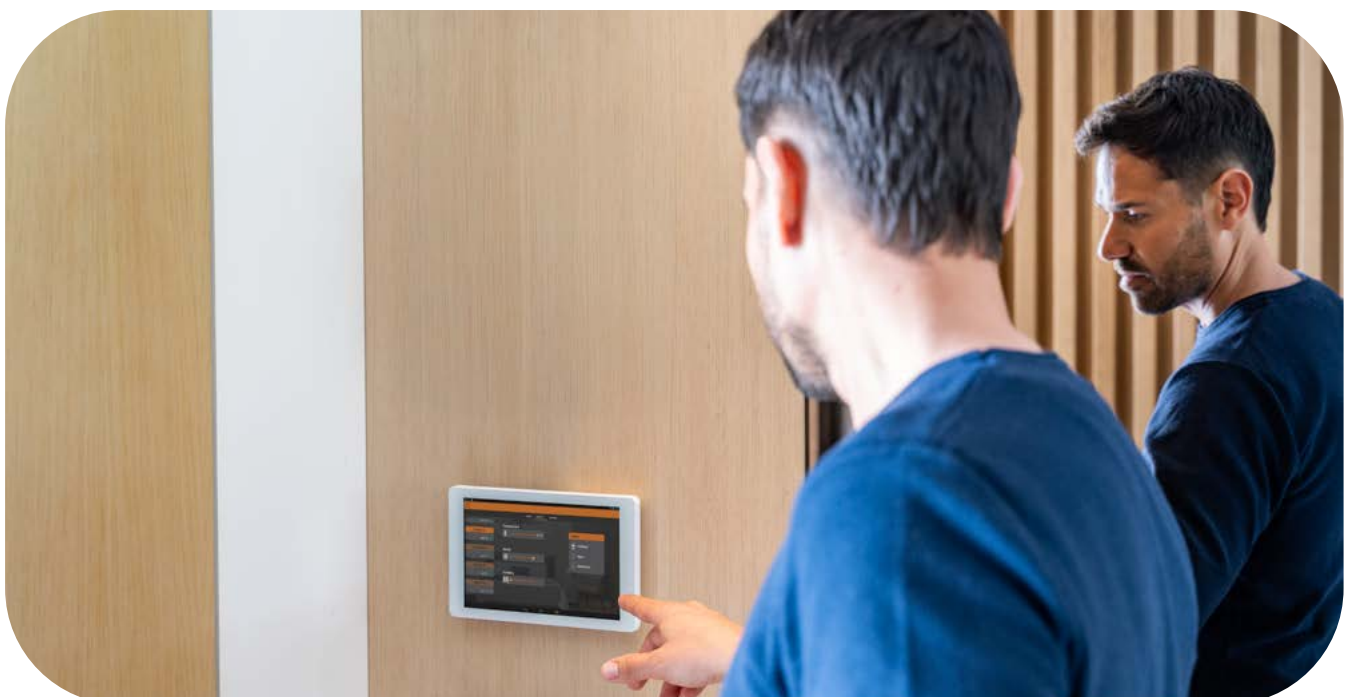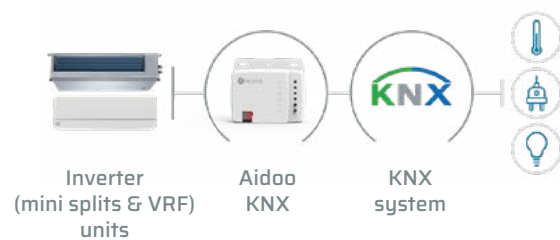
Aidoo Z-Wave Inverter/VRF

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

Inverter (mini splits & VRF) units — Aidoo Z-Wave — Z-Wave system

Partners:

SMARTRENT®   Building36 AN ALARM.COM COMPANY   ALARM.COM®

Through Modbus

INTEREL   telkonet

Aidoo Zigbee Inverter/VRF

Integration gateway with the Zigbee closed communication protocol for bi-directional control and communications for I**nverter/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

Inverter (mini splits & VRF) units — Aidoo Zigbee — Zigbee system

Comparison of Aidoo solutions

	AIDO WI-FI	AIDOO PRO LINE	AIDOO KNX	AIDOO Z-WAVE	AIDOO ZIGBEE
AC Unit Type	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	KNX	Z-Wave Plus	Zigbee
App Airzone Cloud	Yes	Yes	-	-	-
Voice Control	Yes	Yes	-	-	-
Modbus	-	Modbus RTU and TCP	-	Modbus RTU	Modbus RTU
Port Ethernet	-	Aidoo Pro HUB	-	-	-
BACnet MS/TP BACnet IP	-	Available for Inverter/VRF, Fan coil	-	-	-
GYW Input for Smart Thermostats	-	Available for Inverter/VRF and Pro HUB	-	-	-
Rest API & Integration Drivers	-	Yes	-	-	-
Cloud API	Yes	Yes	-	-	-
Airzone Thermostat	-	Available for Inverter/VRF and Fan coil	-	-	-
Digital Input	-	Occupancy and window sensors	3 configurable inputs	-	-
Auxiliary Heat Output	-	Available for Inverter/VRF, Fan coil and Pro HUB	-	-	-

72° Off 75° 70°
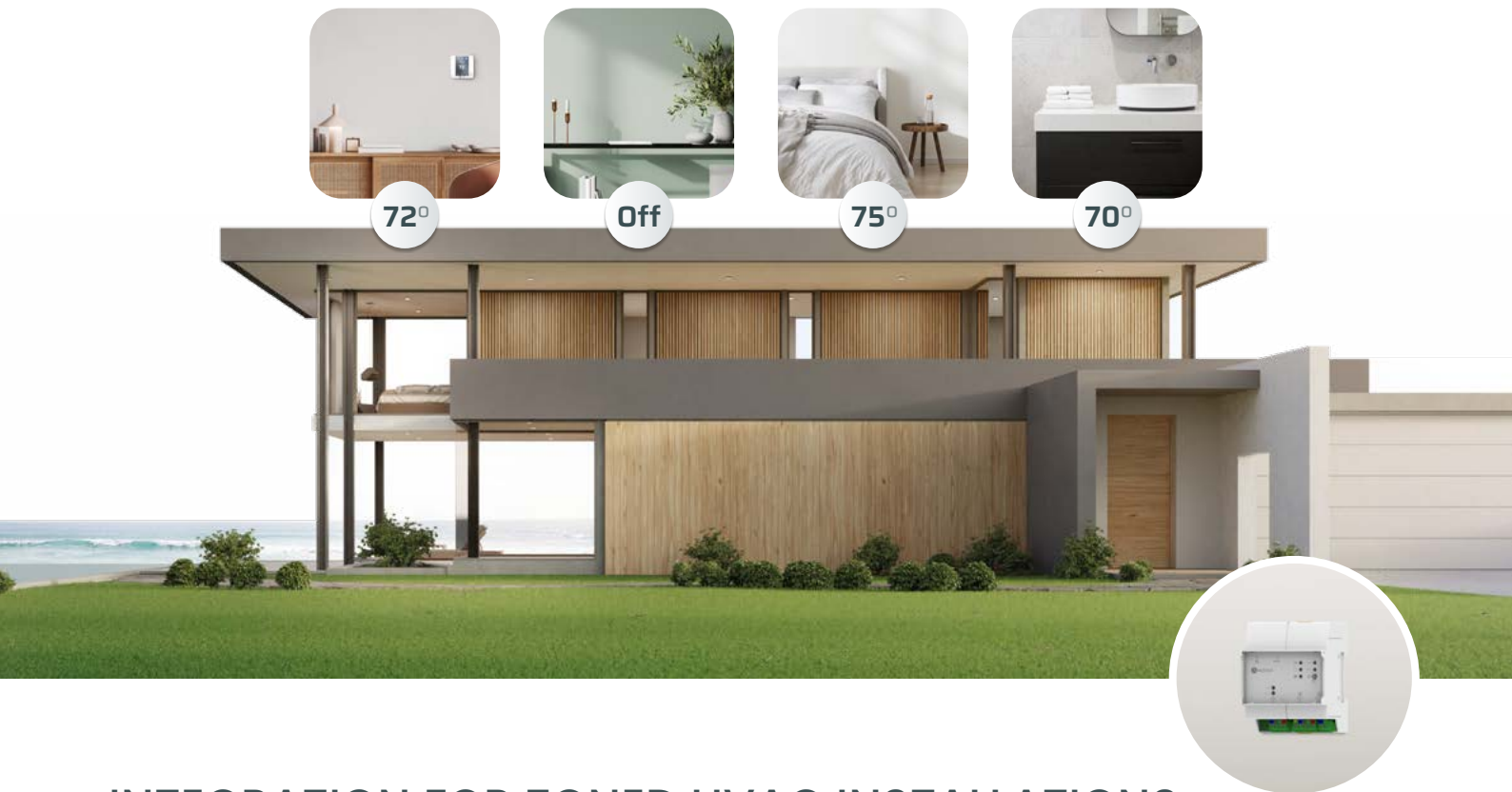
INTEGRATION FOR ZONED HVAC INSTALLATIONS

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 potencial 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:

amazon alexa   works with the Google Assistant

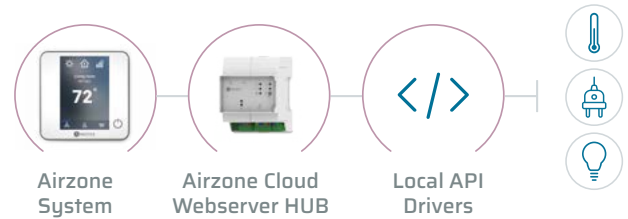Works with SmartThings   Works with IFTTT
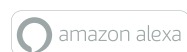
LOCAL API

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   URC

- **API integration:**

  JOSH   LUTRON.

Airzone System — Airzone Cloud Webserver HUB — Local API Drivers

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
BAX = Baxi R410A
DA0 = Daikin Residential
DA1 = Daikin Sky Air/VRV
FUJ =Fujitsu 3 wires
FU2 = Fujitsu GEN2
GR1 = Gree U-Match R32
GRE = Gree U-Match R410A
GR2 = Gree VRF
HAI = Haier
HS1 = Hisense 1x1

HS2 = Hisense VRF
HIT = Hitachi RPI
HI2 = Hitachi RAD
HI3 = Hitachi Primairy
LGE = LG
MD1= Midea V5
MD2= Midea V6
MD4 = MideaV5 (HAHB)
MEL = Mitsubishi Electric
MHI = Mitsubishi Heavy

PAN = Panasonic PACi
PA0 = Panasonic RAC Domestic
SA2= Samsung Nasa
TOS = Toshiba

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

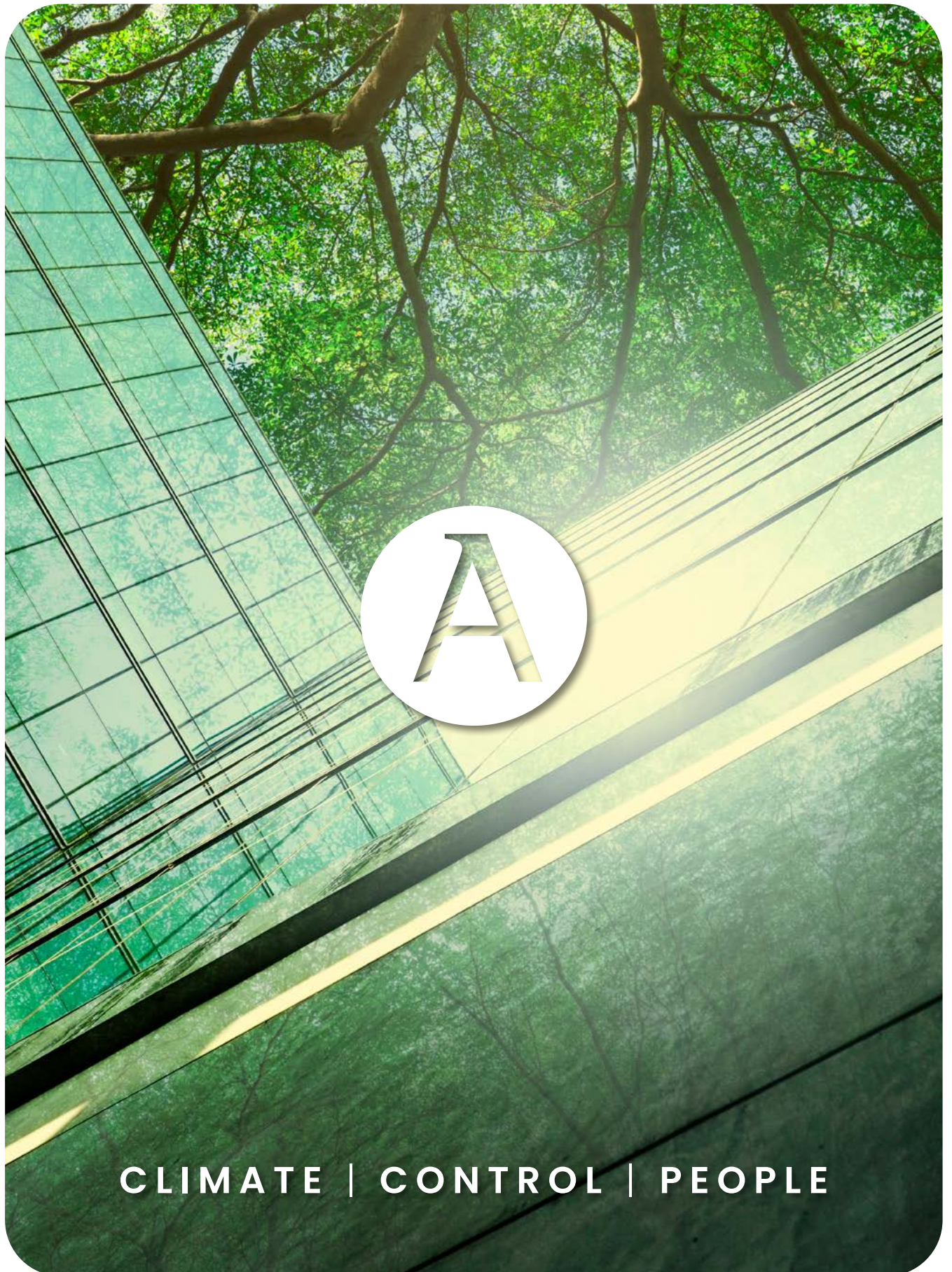| Aidoo Wi-Fi | Aidoo KNX | Aidoo Pro | Aidoo Pro Fan coil | Aidoo Pro HUB | Aidoo Pro STI | Aidoo Z-Wave | Aidoo Zigbee |

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.

CLIMATE | **CONTROL** | **PEOPLE**

AIRZONE

Contact Airzone

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Airzone North America
Designed and manufactured in Spain

airzonecontrol.com

Information & Sales:
azna-staff@airzonecontrol.com

Project Planning:
projects_na@airzonecontrol.com

Tech Support:
techsupport_na@airzonecontrol.com
866-521-0263