



A2L-Ready Integrated Zoning Solutions

NAVIGATE NEW REFRIGERANT STANDARDS WITH CONFIDENCE

New Refrigerant Standards Are Here: Are You Ready?

As a professional in the HVAC sector, you're facing significant changes with the transition to A2L refrigerants under ASHRAE Standards 15 and 34. **Stricter safety regulations and reduced refrigerant charge limits complicate compliance with applicable codes.**

Why is the industry switching to A2L Refrigerants?

- Lower global warming potential (GWP) and ozone depletion potential (ODP)
- Supports sustainability goals and global carbon reduction efforts
- Complies with evolving environmental regulations





A1
(R-410A)

OLD STANDARD

 **GWP**
2,088

 **Toxicity**
A

 **Flammability**
1



A2L
(R-32)
(R-454B)

NEW STANDARD

 **GWP**
675 (R-32), 466(R-454B)

 **Toxicity**
A

 **Flammability**
2L

How does the A2L transition affect HVAC pros?

Though much better for the environment, A2L refrigerants' mildly flammable nature requires **new installation considerations and careful system design**.



CONTRACTORS

Must achieve the HVAC performance specified in the project design, while ensuring all system components are fully compatible with A2L units.



ENGINEERS & SPECIFIERS

Must deliver the same HVAC design quality, meeting strict new refrigerant limits while achieving the same HVAC performance your clients expect.

Airzone: The Simple Solution for the A2L Transition

With Airzone integrated multi-zone control solutions, **a single ducted A2L unit can deliver independent temperature control in different rooms**, with one thermostat per zone, using the HVAC manufacturer's native protocol.

By significantly reducing overall refrigerant charge and increasing the available room volume for dispersion, our zoning solutions also help engineers and specifiers design A2L-compliant installations that meet ASHRAE 15 concentration limits, while maintaining high standards of comfort, safety, and energy efficiency.

Why HVAC Pros Choose Airzone's A2L Integrated Multi-Zone Solutions over conventional VRF?

- Simplified maintenance
- Reduced installation time
- Still have one thermostat per zone
- Lower A2L leakage risk
- Use combined spaces
- Additional accessories like shutoff valves may not be required

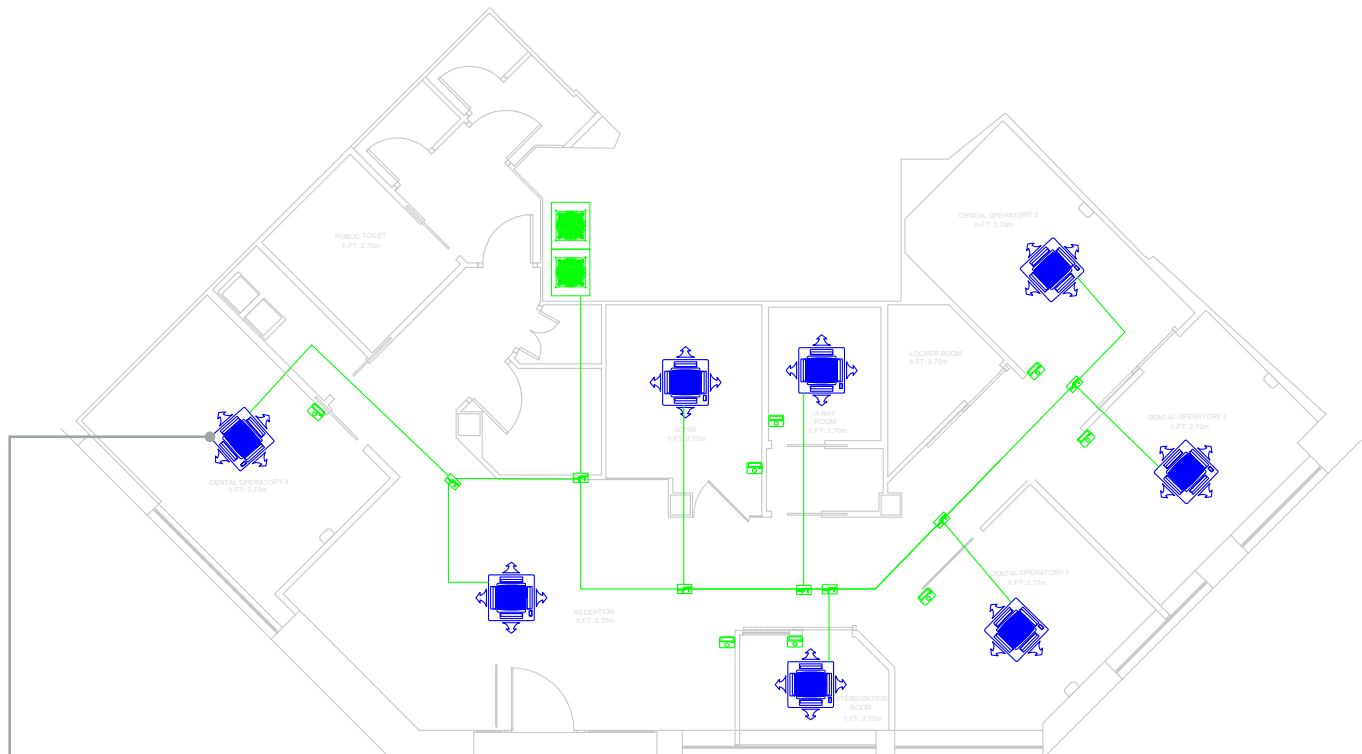


CASE STUDY > DENTAL CLINIC

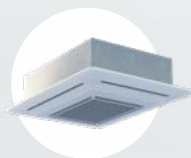
Conventional VRF Installation VS
Airzone's A2L-Ready Multi-Zone Control Solution



Non compliance



CONVENTIONAL VRF INSTALLATION



8 cassette units



339.9 ft of piping



69,000 BTU/h
> Outdoor Unit Capacity



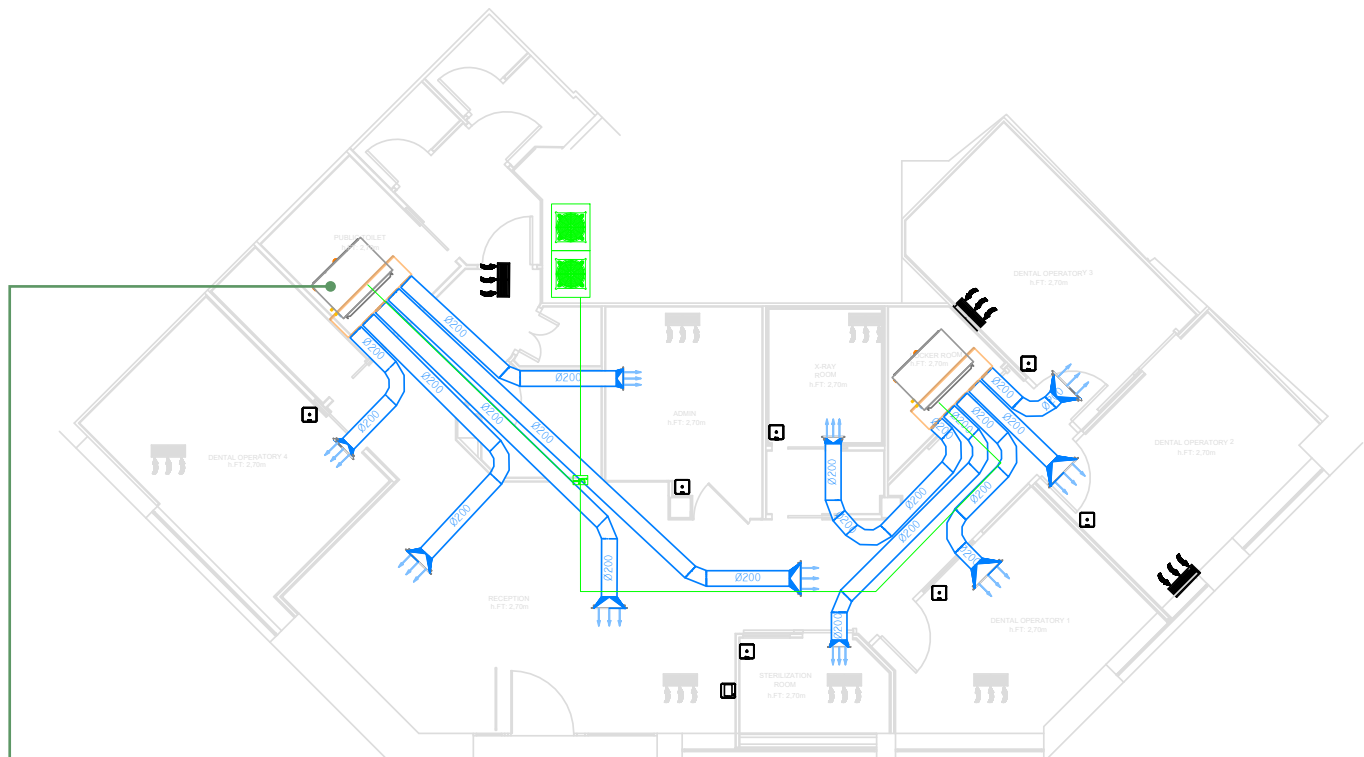
16.03 lbs of R-32

CASE STUDY > DENTAL CLINIC

Conventional VRF Installation VS
Airzone's A2L-Ready Multi-Zone Control Solution



Compliance



AIRZONE'S INTEGRATED A2L-READY MULTI-ZONE CONTROL SOLUTION



2 Ducted Units
> With Airzone's Zoning Solution



221.1 ft of piping

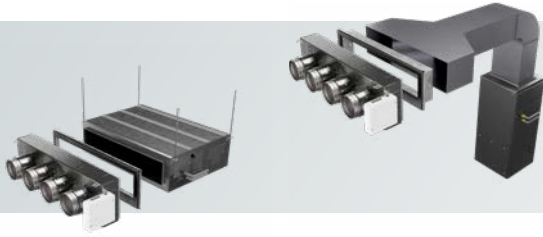


52,000 BTU/h
> Outdoor Unit Capacity



10.29 lbs of R-32

Airzone Integrated A2L-Ready Multi-zone Control Solutions

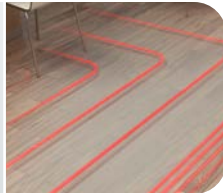


E A S Y Z O N E

Plug & Play Motorized Zoning Plenum

Compatible with horizontal, vertical, and multi-position ducted units, Easyzone offers an efficient and flexible approach to HVAC management. Ideal for both commercial and residential applications.

- Pre-wired and pre-insulated from factory
- Simplifies setup and reduces risk of installation errors
- Minimizes delays and unnecessary labor costs
- Supports up to 6 zones



V A F

Modular Integrated Multi-Zone Solution for Centralized Control

Airzone's integrated zone control solution that adapts to any HVAC installation because of its modular architecture. Perfect for residential applications.

- Uses individual, multi-sized, motorized dampers to zone ducted units
- Supports individual zone control modules for single-zone ducted or ductless units and supplemental heating control
- Manage every element of the system through the Airzone thermostat or the Airzone Cloud App for precise, coordinated comfort

Sequence of Operations

All Airzone solutions are future-proof, fully compatible with A2L units, and can respond to refrigerant leak alerts by opening dampers and releasing control to let the manufacturer's safety sequence take over. There are no small zones: the open dampers combine the separate zones into a single larger releasable area.

More A2L Compatible Products

Need control and integration for just one zone? **Airzone** offers a complete range of A2L compatible devices designed for single-zone control.

With Aidoo you can:

- Integrate AC control into BMS and Home Automation systems
- Make the AC unit compatible with a smart thermostat without losing efficiency
- Add Wi-Fi remote access control from the Airzone Cloud App



AIDOO
climate econnection

Get in touch about your A2L project!



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our A2L-Ready Solutions

