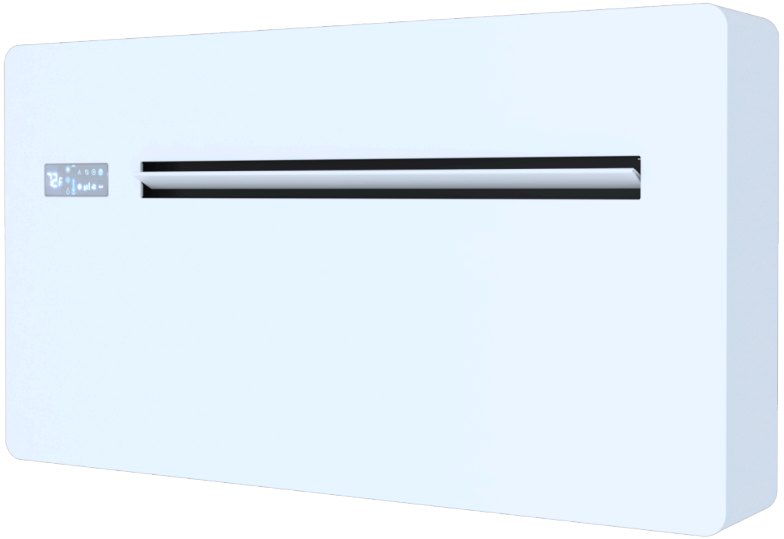
AIO® Gen 1 and Gen 2+ Wall Mounted Units

Summary Of Differences





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To Whom It May Concern,

This document outlines the key technical and installation differences between our Generation 1 (Gen 1) vs. Generation 2 (Gen 2) and Generation 3 (Gen 3) AIO® Wall Mounted heat pump units. These differences primarily impact system design, connectivity, compatibility, and installation flexibility.

This summary is intended to support installation clarity and compliance review. Should additional documentation or visual references be required, we would be happy to provide them.

1. ONBOARD TOUCH CONTROLLER

- Gen 1: Utilizes the original Gen 1 onboard touch controller interface.
- Gen 2 / Gen 3: Feature an updated onboard touch controller with improved interface and functionality.

Figure 1. ***Gen 1*** *Display:*



Figure 2. ***Gen 2 and 3*** *Display:*



2. PCB DESIGN

- **Gen 1:** Uses separate boards for driver, power, and MCU functions
- **Gen 2 / Gen 3:** Incorporate a redesigned, fully integrated PCB combining:
  - Driver board
  - Power board
  - MCU board

Figure 3. ***Gen 1*** *PCB Boards*

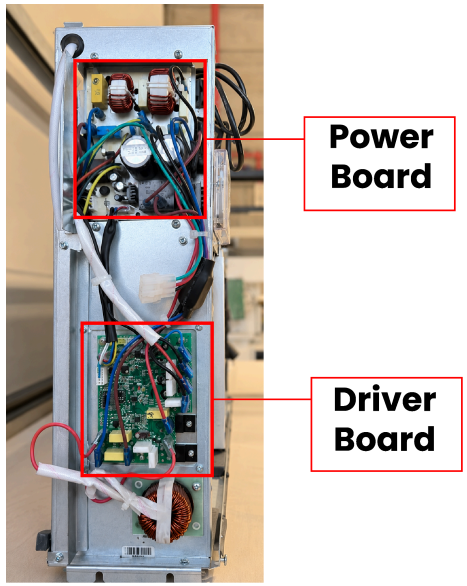
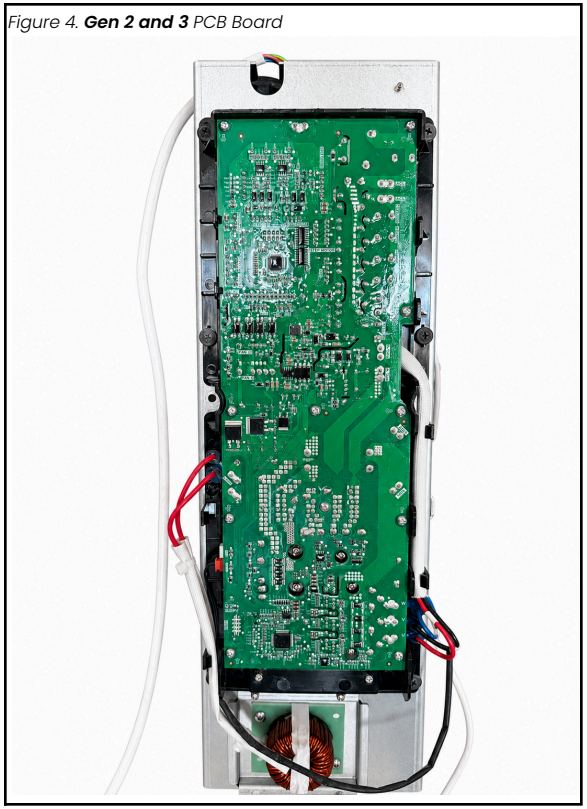


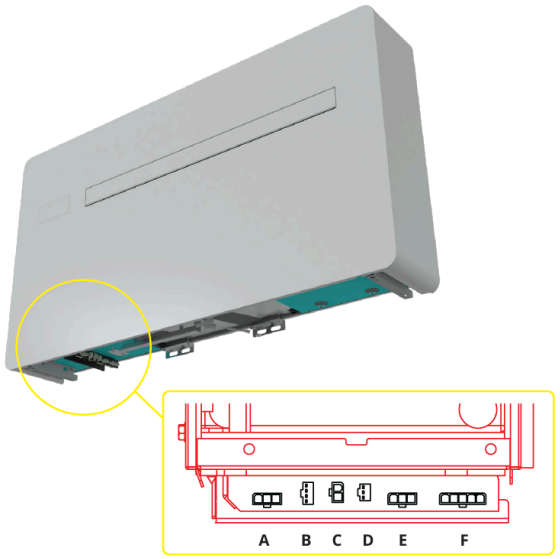
*Figure 4. **Gen 2 and 3** PCB Board*



3. ACCESSORY CONNECTIONS

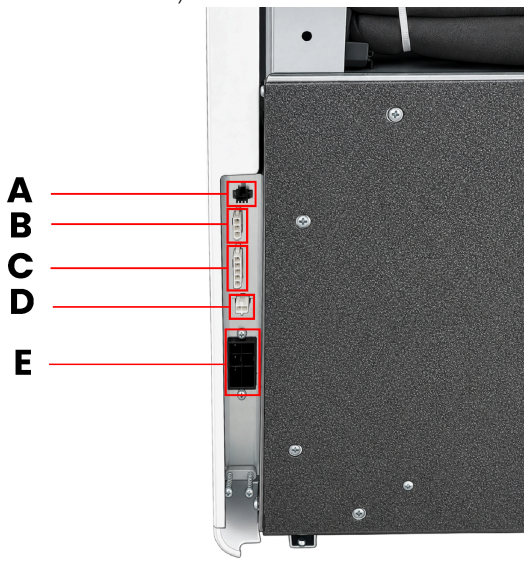
- **Gen 1:** Does not include standardized accessory connection points.
- **Gen 2 / Gen 3:** Include a block of Molex connectors for accessories that is accessible from either the bottom or side of the unit (see locations in Figures 3 and 4). This block simplifies installation and accessory integration.

*Figure 5. **Gen 2** Accessory connection locations*



A	Power supply for Controller Gateway	**D**	Communication port for ERV
B	Communication port for Controller Gateway	**E**	Power for ERV
C	Power for heat trace on condensate line	**F**	Not used

*Figure 6. **Gen 3** Accessory connection locations*



A	ECM axial condenser fan	**D**	Heat trace power
B	ERV power	**E**	Quick-connect line power
C	ERV communication		

4. HEAT TRACE COMPATIBILITY

- **Gen 1**: Not compatible with heat trace wire
- **Gen 2 / Gen 3**: Fully compatible with heat trace wire for condensate management (GB1119 for Gen 2 and GB1120 for Gen 3).

Figure 7. Heat trace wire



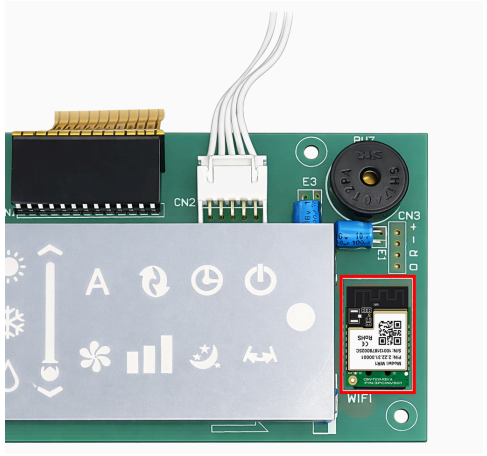
5. NEBULIZER COMPATIBILITY

- **Gen 1:** Is not compatible with the wall-mounted nebulizer.
- **Gen 2 and 3:** Are compatible with the wall-mounted nebulizer.

6. WI-FI CHIP LOCATION

- **Gen 1:** The built-in Wi-Fi chip is located on the onboard touch controller.
- **Gen 2 and 3:** The built-in Wi-Fi chip is located on the integrated PCB board.

*Figure 8. **Gen 1** Wi-Fi chip location*



7. ERV MODULE COMPATIBILITY

- **Gen 1 and 2**: Compatible with the **AWERV30** ERV module.
- **Gen 3:** Compatible with the **AWERV30-3** ERV Module.

With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance..

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