

# SAMSUNG

## Submittal Data

### AR07DXDAFWKNCV (RNX09AFD) For Multi-Zone Systems

#### WindFree™\* Premium, Wall Mounted Evaporator

Job name: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Submitted to: \_\_\_\_\_

Unit designation: \_\_\_\_\_

Location: \_\_\_\_\_

Engineer: \_\_\_\_\_

Reference                      Approval                      Construction                     

Schedule #: \_\_\_\_\_

#### General Information

- The indoor unit shall feature WindFree™\* mode. When activated in cooling mode the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants.
- The indoor unit shall have integral Wi-Fi capability as standard.
- The outdoor unit shall provide 208/230V power to the indoor unit via 14 AWG X 3 interconnect power cable.
- Interconnecting control wiring between the outdoor to indoor shall be 2-conductor/stranded copper/shielded cable between 18-16 AWG.
- Built-in motion sensor for airflow direction control and energy saving operation.

#### Construction

- The indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket
- The indoor unit shall have easy access to wire, pipe, and drain connections via the access panel on the bottom of the unit for simple installation and service

#### Refrigerant System

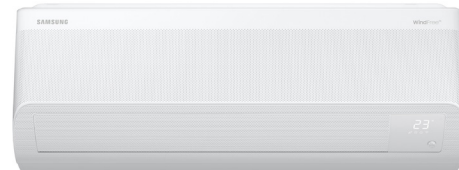
- The heat exchanger shall be mechanically bonded fin to copper tube
- Refrigerant flow shall be controlled by an electronic expansion valve at the outdoor unit

#### Indoor Fan

- The indoor fan shall be a single, antibacterial cross-flow type
- Three fan speeds and auto settings
- Automatic (motorized) vertical swing (up/down) and horizontal swing (left/right) louvers

#### Controls

- The indoor unit shall ship with a rechargeable, solar-cell wireless controller. The wireless controller battery shall be charged with a USB C cable or the integral solar panel.
- The included wireless controller shall have a pixel display that is visible in low light conditions.
- The indoor unit shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.
- Dual set temperature support when connected to supported wired controllers.
- The indoor unit shall have a simple connection for condensate overflow detection devices or any normally closed contact for simple unit shutdown.



#### Convenience

- 7-segment digital display on the front of the unit to display temperature and unit status
- Washable main filter as standard accessible from the top of the unit
- Unit energy consumption can be viewed using the Samsung SmartThings mobile app (conditions apply, not revenue grade).
- AI (artificial intelligence) Auto Mode technology monitors factors such as indoor temperature, outdoor temperature, set temperature, and operating time to learn the patterns within your home to automatically adjust system operation to maximize occupant comfort and efficiency (Wi-Fi connection required).
- AI Energy mode technology enhances energy saving operation using advanced compressor control techniques
- Other Features and functions: Auto changeover, Auto Clean Function, MAX mode to quickly reach set temperature, Good'sleep mode, Quiet mode, Dry mode, Simple ON/OFF time function (activated with wireless controller), Filter cleaning reminder

\*The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers).  
Samsung HVAC maintains a policy of ongoing development. Specifications are subject to change without notice.



Intertek

# Specifications

|                        |                          |                 |  |
|------------------------|--------------------------|-----------------|--|
| Model                  | US Code                  |                 | RNX07AFD   |
|                        | Model Number             |                 | AR07DXDAFWKNCV   |
| Performance            | Nominal Capacity         | Cooling (Btu/h) | 7,000  |
|                        |                          | Heating (Btu/h) | 7,500  |
| Power                  | Voltage                  | ø / V / Hz      | 1 / 208-230 / 60   |
|                        | Operating Current (max.) | Cooling (A)     | 0.4  |
|                        |                          | Heating (A)     | 0.4  |
| Evaporator Fan         | Type                     |                 | BLDC motor with cross-flow fan   |
|                        | FLA                      | Amps            | 0.12   |
|                        | Consumption              | Watts           | 27   |
| Airflow                | Air Volume (L/M/H/Turbo) | Cooling (CFM)   | 258 / 297 / 323 / 350  |
|                        |                          | Heating (CFM)   | 288 / 328 / 355 / 381  |
| Refrigerant            | Type                     |                 | R-32   |
|                        | A2L Leak Detection       |                 | Not Included   |
| Pipe Connections       | Indoor & Outdoor         | High side (In.) | 1/4  |
|                        |                          | Low side (In.)  | 3/8  |
|                        | Condensate Connection    |                 | 11/16" OD  |
| Dimensions             | W X H X D                | In.             | 35 X 11 3/4 X 8 7/16   |
|                        | Weight                   | lbs.            | 23.10  |
| Operating Temperatures | Indoor                   | Cooling         | 64 ~ 90°F (16 ~ 32°C)  |
|                        |                          | Heating         | T ≤ 86°F (30°C)  |
| Sound Pressure Level   | Silent / High            | dB(A)           | 22 / 34  |
| Safety                 | Certifications           |                 | UL 60335-2-40  |
|                        | Devices                  |                 | PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing |
|                        | Battery Chemistry        |                 | (Remote Control only) Lithium Ion  |

# Accessories

|   |  |                     |
|---|--|---------------------|
| Condensate pump   | Aspen Mini Orange                        | ASP-MO-UNIV 110-250 |
|   | Blue Diamond MaxiBlue                    | BD-BLUE-230         |
|   | Blue Diamond MicroBlue w/slim fascia kit | X86-011             |
| Wired controller (sub-PCB model MIM-A00UN is required)                          | Advanced                                 | MWR-WG01UN          |
|   | Touchscreen                              | MWR-SH12UN          |
| Wired controller sub-PCB  |  | MIM-A00UN           |
| 24 VAC Thermostat adapter (sub-PCB model MIM-A00UN is required)                 |  | MIM-A60UN           |
| External temperature sensor   |  | MRW-TAU             |
| External contact control interface module (sub-PCB model MIM-A00UN is required) |  | MIM-B14U            |
| Line set - insulated and flared, interconnect cables included                   | 25'                                      | ILS2506             |
|   | 50'                                      | ILS5006             |

# Dimensional Drawing AR07DXDAFWKNCV (RNx09AFD)

Unit: Inches

