

## Samsung "Novus", Wall Mounted Evaporator, Split System

Job Name \_\_\_\_\_  
Purchaser \_\_\_\_\_  
Submitted to \_\_\_\_\_  
Unit Designation \_\_\_\_\_

Location \_\_\_\_\_  
Engineer \_\_\_\_\_  
Reference \_\_\_\_\_ Approval \_\_\_\_\_ Construction \_\_\_\_\_  
Schedule # \_\_\_\_\_

### Specifications

|                             |                                                                |                                                                                                                                                                   |                                    |
|-----------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Model                       | System Model Number                                            |                                                                                                                                                                   | AR18JSFLBWKXCV                     |
|                             | Indoor Unit Model Number                                       |                                                                                                                                                                   | AR18JSFLBWKNCV                     |
|                             | Outdoor Unit Model Number                                      |                                                                                                                                                                   | AR18JSFLBWKXCV                     |
| Performance                 | Nominal Capacity                                               | Cooling / Heating (Btu/h)                                                                                                                                         | 18,000 / 19,000                    |
|                             | Capacity Range                                                 | Cooling (Btu/h)                                                                                                                                                   | 8,500 - 20,000                     |
|                             |                                                                | Heating (Btu/h)                                                                                                                                                   | 7,000 - 24,000                     |
| Power                       | Voltage                                                        | ø / V / Hz                                                                                                                                                        | 1 / 208-230 / 60                   |
|                             | Working Voltage Range (VAC)                                    |                                                                                                                                                                   | 187 - 254                          |
|                             | Operating Current (Low/Std./High)                              | Cooling (A)                                                                                                                                                       | 3.3 / 7.8 / 8.9                    |
|                             |                                                                | Heating (A)                                                                                                                                                       | 3.3 / 8.9 / 12.6                   |
|                             | Max. Breaker                                                   | Amps                                                                                                                                                              | 25                                 |
| Min. Circuit Ampacity (A)   |                                                                | 15                                                                                                                                                                |                                    |
| Dimensions                  | W X H X D (in.)                                                | Indoor Unit                                                                                                                                                       | 40 11/16 X 12 5/16 X 8             |
|                             |                                                                | Outdoor Unit                                                                                                                                                      | 35 1/2 X 25 9/16 X 12 1/16         |
|                             | Weight (lbs.)                                                  | Indoor Unit                                                                                                                                                       | 27.56                              |
|                             |                                                                | Outdoor Unit                                                                                                                                                      | 99.21                              |
| Condensate Connection       |                                                                | 13/16"                                                                                                                                                            |                                    |
| Heat Exchanger              | Indoor & Outdoor Unit                                          | Type                                                                                                                                                              | Aluminum Fin - Copper Tube         |
|                             |                                                                | Tube Diameter                                                                                                                                                     | 9/32                               |
|                             | Indoor Unit                                                    | 2 row / 17 step                                                                                                                                                   |                                    |
| Outdoor Unit                | 2 row / 28 step                                                |                                                                                                                                                                   |                                    |
| Sound Pressure Level        | Indoor Unit (dB)                                               | Quiet / High                                                                                                                                                      | 40 / 53                            |
|                             | Outdoor Unit (dB)                                              | High                                                                                                                                                              | 60                                 |
| Operating Temperatures (°F) | Outdoor                                                        | Cooling                                                                                                                                                           | 14 ≤ T ≤ 115                       |
|                             |                                                                | Heating                                                                                                                                                           | 5 ≤ T ≤ 75                         |
|                             | Indoor                                                         | Cooling                                                                                                                                                           | 62 ≤ T ≤ 90                        |
|                             |                                                                | Heating                                                                                                                                                           | 20 ≤ T ≤ 80                        |
| Pipe Connections            | Indoor & Outdoor                                               | High side (flare)                                                                                                                                                 | 1/4                                |
|                             |                                                                | Low side (flare)                                                                                                                                                  | 1/2                                |
|                             | Maximum / Minimum Line Set Length (ft.)                        |                                                                                                                                                                   | 50 / 9.8                           |
|                             | Maximum Vertical Separation (ft.)                              |                                                                                                                                                                   | 16.4                               |
| Refrigerant                 | Type                                                           |                                                                                                                                                                   | R410A                              |
|                             | Control Method                                                 |                                                                                                                                                                   | Electronic Expansion Valve         |
|                             | Factory Charge                                                 | oz.                                                                                                                                                               | 61.73                              |
|                             | Charged for                                                    |                                                                                                                                                                   | 25'                                |
|                             | Additional Refrigerant                                         |                                                                                                                                                                   | 0.32 oz./ft. over 25 ft.           |
| Compressor                  | Type                                                           |                                                                                                                                                                   | BLDC, Inverter Driven, Rotary      |
|                             | RLA                                                            | A                                                                                                                                                                 | 10.5                               |
| Evaporator Fan              | Type                                                           |                                                                                                                                                                   | BLDC motor with cross-flow fan (1) |
|                             | Air Volume                                                     | CFM (Turbo/H/M/L)                                                                                                                                                 | 635 / 530 / 460 / 425              |
|                             | FLA                                                            | Amps                                                                                                                                                              | 0.55                               |
| Condenser Fan               | Motor                                                          |                                                                                                                                                                   | BLDC motor with axial fan (1)      |
|                             | Air Volume                                                     | CFM (max.)                                                                                                                                                        | 2,048                              |
|                             | FLA                                                            | Amps                                                                                                                                                              | 0.85                               |
| Optional Accessories        | Condensate Pump                                                | Aspen                                                                                                                                                             | ASP-MO-UNIV 110-250                |
|                             |                                                                | Blue Diamond                                                                                                                                                      | BD-BLUE230                         |
|                             | Wall bracket (for outdoor unit)                                |                                                                                                                                                                   | CKN-250 or CKN-500                 |
|                             | Line sets - insulated and flared, interconnect cables included |                                                                                                                                                                   | 25' - SLS2507                      |
| 50' - SLS5007               |                                                                |                                                                                                                                                                   |                                    |
| Safety                      | Certifications                                                 | ETL (UL 1995)                                                                                                                                                     |                                    |
|                             | Devices                                                        | PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, temperature limit protection logic, compressor overload sensing |                                    |
| Warranty                    | 5 Years Compressor, 1 Year Parts                               |                                                                                                                                                                   |                                    |



(actual equipment appearance may vary)

### General Information

- Outdoor unit shall provide 208/230V power to indoor unit via 14 AWG X 5 interconnect power cable (4 wire + ground).
- Electro-static, washable, main filter as standard

### Construction

- Indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket
- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

### Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube

### Refrigerant System

- The compressor shall be hermetically sealed, inverter controlled, BLDC Rotary
- Refrigerant flow shall be controlled by electronic expansion valve at outdoor unit

### Indoor Fan

- The indoor fan shall be a single, antibacterial cross-flow type
- Three fan speed settings and auto setting
- Automatic (motorized) vertical (up and down) swing louvers (2)

### Controls

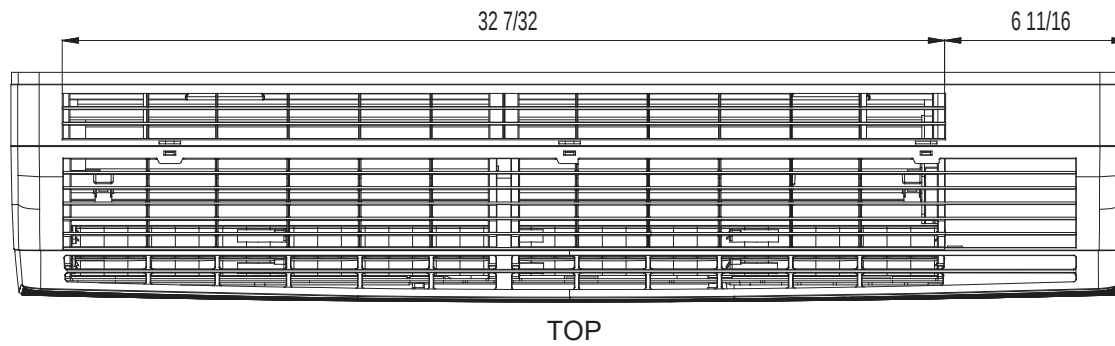
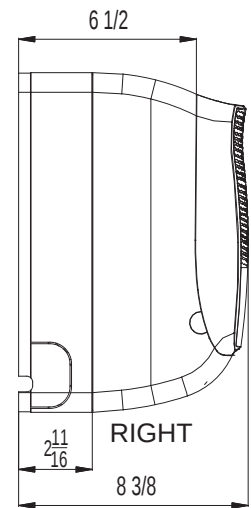
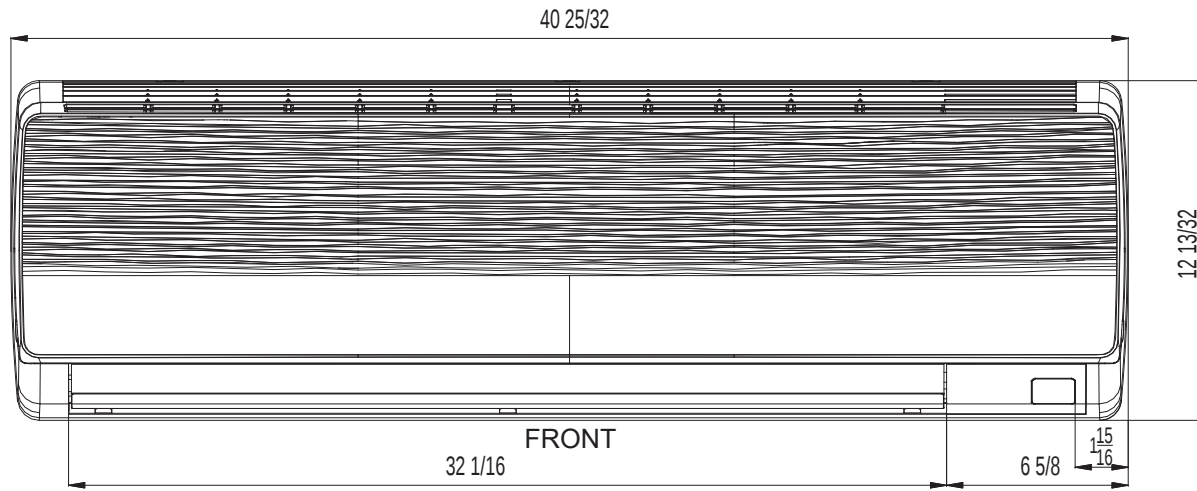
- Control signal shall be DDC type signal
- Interconnect wiring shall be 14 AWG X 5 wire between outdoor and indoor unit
- Unit shall be operated via wireless controller as standard
- The indoor unit shall ship with a wireless controller and batteries as standard

### Convenience

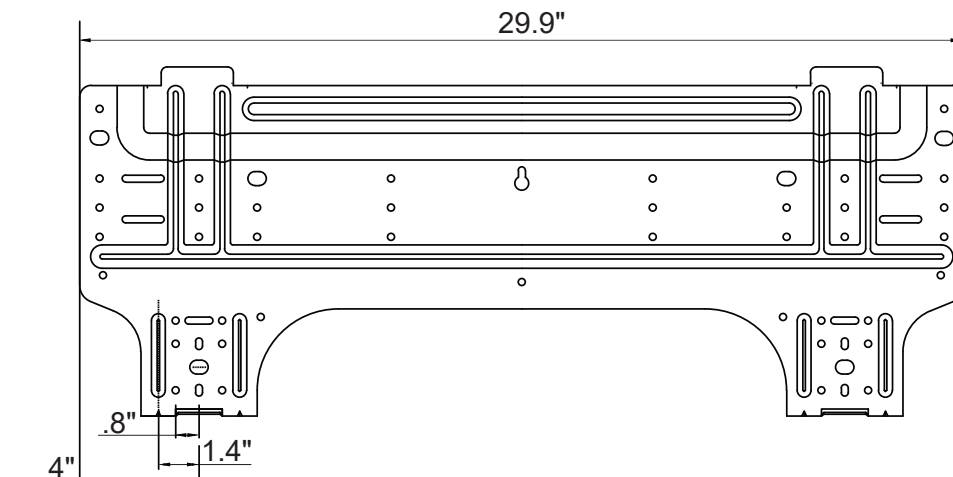
- Auto restart
- "Turbo Mode" to quickly reach set temperature
- Auto changeover
- 24 hour, single event timer
- Good'sleep mode
- Quiet mode
- Dry mode
- Single event, ON/OFF timer
- Single User Mode to reduce energy consumption during low demand operation
- Auto Clean function to help prevent dust and contaminant buildup on the evaporator coil.
- Temperature display on front of indoor unit.

\* Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB

\* Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB

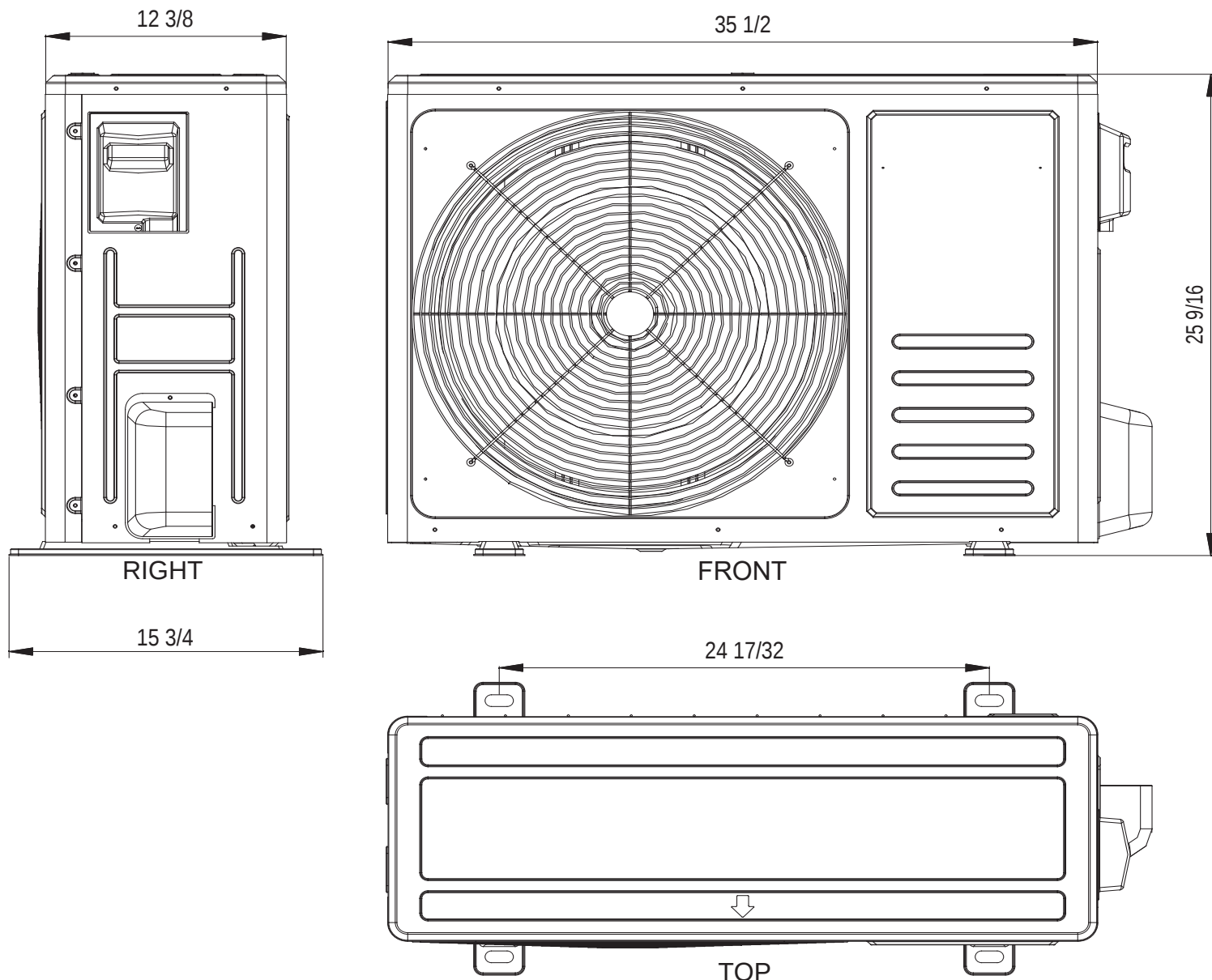


Indoor unit mounting plate



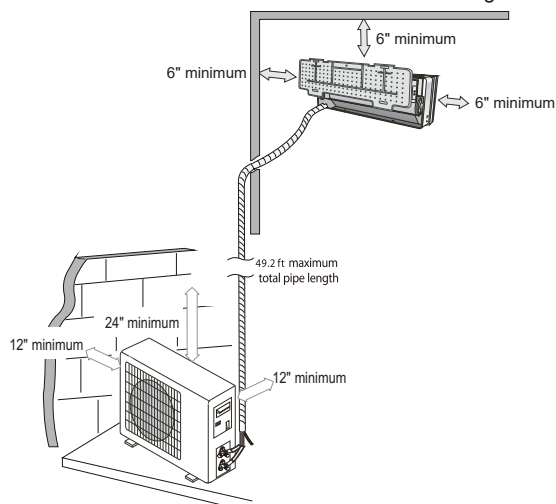
Samsung "Novus", Wall Mounted Evaporator, Split System  
Outdoor unit dimensional drawing

Unit: inches

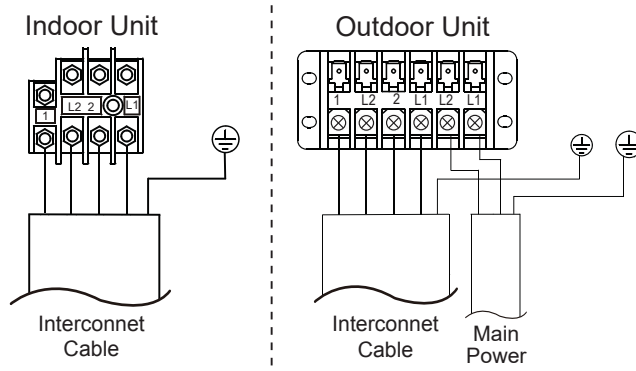


For reference only. Always refer to installation manual for complete details.

Minimum clearance from walls and ceiling



Basic power wiring between indoor and outdoor units (208/230V)



Minimum clearance from nearby obstructions  
(See installation manual for full details. Be aware of national, state, and local codes)

888-699-6067  
[www.SamsungHVAC.com](http://www.SamsungHVAC.com)