

# Samsung Smart Inverter AR9500 2.0 WindFree™ air conditioner

Feel safe in your environment, knowing that you have good air quality for you and your family. The PM1.0 Filter captures ultrafine particles and sterilizes up to 99% of bacteria. Anti-dust. Anti-bacteria. Anti-Virus. Motion Detection Sensor efficiently and effectively cools you automatically according to your movement. The Freeze Wash function quickly freezes the heat exchanger to create frost, blows air to defrost and washes away dirt and 90% Microorganisms to assure that your Aircon is cleaning itself to ensure highest indoor quality. With its AI Auto cooling function, it provides convenience by analysing your preferred mode & room conditions and automatically switching to the most appropriate operating mode. Smart Wi-Fi enabled and works with voice control with SmartThings App, allowing remote control and monitoring of your aircon unit, anytime and anywhere.



| Model Code             |                                             | AR12BSAAWK/FA         | AR18BSAAWK/FA         | AR24BSAAWK/FA         |
|------------------------|---------------------------------------------|-----------------------|-----------------------|-----------------------|
| Capacity               | Capacity (Cooling, Btu/hr)                  | 11942 Btu/hr          | 17061 Btu/hr          | 22008 Btu/hr          |
|                        | Capacity (Heating, Btu/hr)                  | 11942 Btu/hr          | 20473 Btu/hr          | 22008 Btu/hr          |
|                        | Capacity (Cooling, Min - Max, Btu/hr)       | 3,412 ~ 13,649 Btu/hr | 5,459 ~ 22,179 Btu/hr | 4,777 ~ 26,956 Btu/hr |
|                        | Capacity (Heating, Min - Max, Btu/hr)       | 3,753 ~ 18,426 Btu/hr | 4,095 ~ 24,567 Btu/hr | 4,095 ~ 30,368 Btu/hr |
|                        | Capacity (Cooling, kW)                      | 3.50 kW               | 5.00 kW               | 6.45 kW               |
|                        | Capacity (Heating, kW)                      | 3.50 kW               | 6.00 kW               | 6.45 kW               |
|                        | Capacity (Cooling, Min - Max, kW)           | 1.0 ~ 4.0 kW          | 1.6 ~ 6.5 kW          | 1.4 ~ 7.9 kW          |
|                        | Capacity (Heating, Min - Max, kW)           | 1.1 ~ 5.4 kW          | 1.2 ~ 7.2 kW          | 1.2 ~ 8.9 kW          |
|                        | Capacity (Heating, Min - Max, kW)           | 1.1 ~ 5.4 kW          | 1.2 ~ 7.2 kW          | 1.2 ~ 8.9 kW          |
| Energy Efficiency      | EER (Cooling, W/W)                          | 3.3 W/W               | 3.45 W/W              | 3.23 W/W              |
|                        | COP (Heating, W/W)                          | 3.72 W/W              | 3.43 W/W              | 3.41 W/W              |
|                        | EER (Cooling, Btu/hW)                       | 11.27 Btu/hW          | 11.77 Btu/hW          | 11 Btu/hW             |
|                        | COP (Heating, Btu/hW)                       | 12.7 Btu/hW           | 11.7 Btu/hW           | 11.64 Btu/hW          |
|                        | Energy Efficiency Class for cooling (Grade) | A                     | A+                    | A                     |
| Noise Level            | Noise Level (Indoor, High/Low, dBA)         | 38 / 22 dBA           | 41 / 27 dBA           | 44 / 28 dBA           |
|                        | Noise Level (Outdoor, High/Low, dBA)        | 46 dBA                | 51 dBA                | 54 dBA                |
| Electrical Data        | Power Source(Ø/V/Hz)                        | 1 / 220-240~750       | 1 / 220-240~750       | 1 / 220-240~750       |
|                        | Power Consumption(Cooling, W)               | 1060 W                | 1450 W                | 2000 W                |
|                        | Power Consumption(Heating, W)               | 940 W                 | 1750 W                | 1890 W                |
|                        | Operating Current(Cooling, A)               | 5.0 A                 | 6.6 A                 | 9.2 A                 |
|                        | Operating Current(Heating, A)               | 4.5 A                 | 7.9 A                 | 8.5 A                 |
| Physical specification | Gross Dimension (Indoor, WxHxD)             | 880*290*410 mm        | 1115*290*410 mm       | 1115*290*410 mm       |
|                        | Gross Dimension (Outdoor, WxHxD)            | 844*622*353 mm        | 1023*724*413 mm       | 1023*724*413 mm       |
|                        | Net Dimension (Indoor, WxHxD)               | 820*345*215 mm        | 1055*345*215 mm       | 1055*345*215 mm       |
|                        | Net Dimension (Outdoor, WxHxD)              | 720*548*265 mm        | 880*638*310 mm        | 880*638*310 mm        |
|                        | Gross Weight (Indoor, kg)                   | 12 kg                 | 15.1 kg               | 15.1 kg               |
|                        | Gross Weight (Outdoor, kg)                  | 29.1 kg               | 43.1 kg               | 45.8 kg               |
|                        | Net Weight (Indoor, kg)                     | 10.4 kg               | 13.3 kg               | 13.3 kg               |
|                        | Net Weight (Outdoor, kg)                    | 27.1 kg               | 39.7 kg               | 42.7 kg               |
|                        | Loading Quantity (20/40/40Hft without Pipe) | 90 / 189 / 214        | 64 / 135 / 151        | 64 / 135 / 151        |
| Technical Information  | Piping Length (Max, m)                      | 15 m                  | 30 m                  | 30 m                  |
|                        | Piping Height (Max, m)                      | 8 m                   | 15 m                  | 15 m                  |
|                        | SVC Valve (Liquid (ODxL))                   | 6.35                  | 6.35                  | 6.35                  |
|                        | SVC Valve (Gas (ODxL))                      | 9.52                  | 12.7                  | 15.88                 |
|                        | Moisture Removal (l/hr)                     | 1.5 l/hr              | 2 l/hr                | 2.5 l/hr              |
|                        | Air Circulation (Cooling, °C/min)           | 12.1 °C/min           | 16.6 °C/min           | 17.1 °C/min           |
|                        | Refrigerant (Type)                          | R410A                 | R410A                 | R410A                 |
|                        | Refrigerant (Charging, kg)                  | 1.00 kg               | 1.30 kg               | 1.40 kg               |
|                        | Refrigerant (Charging, tCO2e)               | 2.09 tCO2e            | 2.71 tCO2e            | 2.92 tCO2e            |
|                        | Low Ambient (Cooling, °C)                   | -10 ~ 46 °C           | -10 ~ 46 °C           | -10 ~ 46 °C           |
|                        | Low Ambient (Heating, °C)                   | -15 ~ 24 °C           | -15 ~ 24 °C           | -15 ~ 24 °C           |
|                        | Outdoor Unit (Compressor Type)              | BLDC                  | BLDC                  | BLDC                  |
|                        | Outdoor Unit (Anti-Corrosion Fin)           | Yes                   | Yes                   | Yes                   |
|                        | Outdoor Unit (Anti-Corrosion Fin)           | Yes                   | Yes                   | Yes                   |
| Air Flow               | WindFree Cooling                            | Yes                   | Yes                   | Yes                   |
|                        | Air Direction Control (Up/Down)             | Auto                  | Auto                  | Auto                  |
|                        | Air Direction Control (Left/Right)          | Auto                  | Auto                  | Auto                  |
|                        | Air Flow Control Step (Cool/Fan)            | 5/4                   | 5/4                   | 5/4                   |
| Air Purification       | PM1.0 Filter                                | Yes                   | Yes                   | Yes                   |
|                        | Tri Care Filter                             | No                    | No                    | No                    |
|                        | Easy Filter Plus (Anti-Bacteria)            | No                    | No                    | No                    |
|                        | Auto Clean (Self Cleaning)                  | Yes                   | Yes                   | Yes                   |
| Convenience            | SmartThings                                 | Yes                   | Yes                   | Yes                   |
|                        | AI Auto Cooling                             | Yes                   | Yes                   | Yes                   |
|                        | Motion Detect Sensor                        | Yes                   | Yes                   | Yes                   |
|                        | Filter Cleaning Indicator                   | Yes                   | Yes                   | Yes                   |
|                        | Indoor Temp. Display                        | Yes                   | Yes                   | Yes                   |
|                        | Display On/Off                              | Yes                   | Yes                   | Yes                   |
|                        | Beep On/Off                                 | Yes                   | Yes                   | Yes                   |
|                        | 24-Hour Timer                               | Yes                   | Yes                   | Yes                   |
|                        | Auto Changeover                             | Yes                   | Yes                   | Yes                   |
|                        | Auto Restart                                | Yes                   | Yes                   | Yes                   |
| Operating Mode         | Auto Mode                                   | Yes                   | Yes                   | Yes                   |
|                        | Fast Cool                                   | Yes                   | Yes                   | Yes                   |
|                        | Good Sleep                                  | Yes                   | Yes                   | Yes                   |
|                        | Eco Mode                                    | Yes                   | Yes                   | Yes                   |
|                        | Dehumidification                            | Yes                   | Yes                   | Yes                   |
|                        | Fan Mode                                    | Yes                   | Yes                   | Yes                   |
|                        | Quiet Mode                                  | Yes                   | Yes                   | Yes                   |
| Smart                  | WiFi Embedded                               | Yes                   | Yes                   | Yes                   |
| App Connectivity       | SmartThings App Support                     | Yes                   | Yes                   | Yes                   |

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Helderberg: (021) 854-5233

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Intelligent Cooling.  
No Cold Draft



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- PM1.0 Filter - Captures ultrafine particles and sterilizes up to 99% of bacteria. Anti-dust. Anti-bacteria. Anti-Virus.
  - Motion Detect Sensor - Efficiently and effectively cools you automatically according to your movement.
  - Freeze wash - Quickly freezes the heat exchanger to create frost. Blows air to defrost and washes away dirt and 90% Microorganisms.
  - Wi-Fi enabled - through the Samsung SmartThings App, control and monitor your aircon unit remotely, anytime, anywhere.
- AI Auto Cooling - the power of artificial intelligence automatically optimizes the various modes by analyzing the room conditions and your usage patterns.
- WindFree™ Cooling - uses 77% less energy than Fast Cooling to save costs.
- Powerful & farther airflow - more airflow up to 15m.

