

# SAMSUNG



## WindFree™ Family, Cebu S2 & Luzon S2



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# Comfort meets innovation

Discover our new residential air conditioning line-up for 2025. The new range of WindFree™ climate solutions offers optimal comfort for homes and light commercial environments.

## WindFree™ Elite S2

A+++ / A+++



WindFree™ Cooling



Wi-Fi Control



AI Auto Comfort



Tri-Care Filter



Motion Detect Sensor



R32 Refrigerant



Freeze Wash

## WindFree™ Avant S2

A+++ / A++



WindFree™ Cooling



Wi-Fi Control



AI Auto Comfort



Tri-Care Filter



R32 Refrigerant



Freeze Wash

## WindFree™ Avant Black

A+++ / A++



WindFree™ Cooling



Wi-Fi Control



AI Auto Comfort



Tri-Care Filter



R32 Refrigerant



Freeze Wash

## WindFree™ Comfort S2

A++ / A++



WindFree™ Cooling



Wi-Fi Control



AI Auto Comfort



R32 Refrigerant



Freeze Wash

## Cebu S2 & Luzon S2

A++ / A+



Wi-Fi Control



AI Auto Comfort



R32 Refrigerant

The 2025 residential air conditioner series includes the Cebu S2 and Luzon S2 models as well as the WindFree™ Comfort S2, WindFree™ Avant S2 and its Black edition, and the flagship model WindFree™ Elite S2. The WindFree™ Cooling mode ensures gentle and quiet<sup>1</sup> cooling. All models come with Wi-Fi Control via Samsung SmartThings and Bixby voice controls. The SmartThings App<sup>2</sup> allows users to adjust and control their air conditioner remotely, delivering smart and user-friendly climate control<sup>3</sup>.

<sup>1</sup> Tested on the AR12TXCAAWKNEU model in an anechoic environment. WindFree™ mode generates 23 dB(A) of noise, compared to 26 dB(A) produced by the conventional Samsung model. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions.

<sup>2</sup> A Wi-Fi connection and Samsung SmartThings application account are required. Requires iOS 10.0 or later & Android 5.0 or later.

<sup>3</sup> In normal default mode. End user may adjust the time interval by selecting Eco or Comfort mode or through SmartThings. The absence of movement is tracked after a minimum of five minutes and maximum of 60 minutes for each interval.

## WindFree™ Wall-Mounted models

The new residential air conditioner line-up offers Samsung's WindFree™ technology. WindFree™ Cooling mode helps to cool wider and larger areas evenly and comfortably. The complete line-up is further equipped with AI Auto Comfort, introducing residents to the experience of intelligent climate control<sup>4</sup>. To simplify climate control, it automatically optimizes the various modes by analyzing room conditions and usage patterns<sup>5</sup>.

<sup>4</sup> AI = Artificial Intelligence. A Wi-Fi connection and Samsung SmartThings application account are required.

<sup>5</sup> Stores user data, preferences and usage patterns, enabling it to suggest the most comfortable room temperature set point within a range of 22 °C to 26 °C.



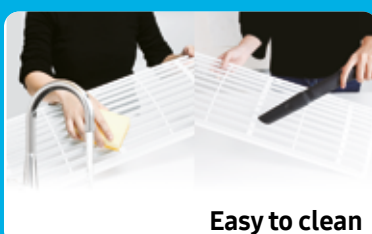
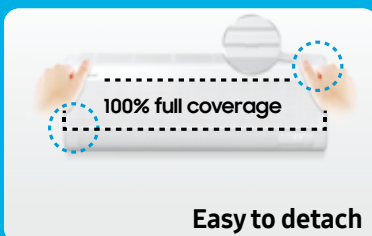
All WindFree™ wall-mounted models feature Freeze Wash<sup>6</sup>, simplifying maintenance. The indoor unit's heat exchanger cools to -15°C, creating a frost layer. When switching to defrost mode, the ice melts, helping to remove certain pollutants from the heat exchanger<sup>7</sup>. The Samsung WindFree™ range features this functionality and comes in up to six cooling capacities: 2 kW, 2.5 kW, 3.5 kW, 4.2 kW, 5 kW, and 6.5 kW. It has up to an A+++ energy label (SEER<sup>8</sup>) and uses R32 refrigerant, depending on your selection of one of the WindFree™ models.

**intertek**  
Total Quality. Assured.

<sup>6</sup> Freeze Wash functionality is available on all WindFree™ (single split) air conditioning units in 2025, not on multi Split Outdoor Units.

<sup>7</sup> Intertek Report No.: RT20E-S0047 Date: DEC 02, 2020 Based on the data collected the Hypothesis is accepted: The "Wash Clean (Domestic)/Freeze Wash (Oversea)" course of Samsung Air conditioner can remove more than 90% of the bacteria (Escherichia coli ATCC 8739, Staphylococcus aureus ATCC 6538) on the surface of heat exchanger.

<sup>8</sup> Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++

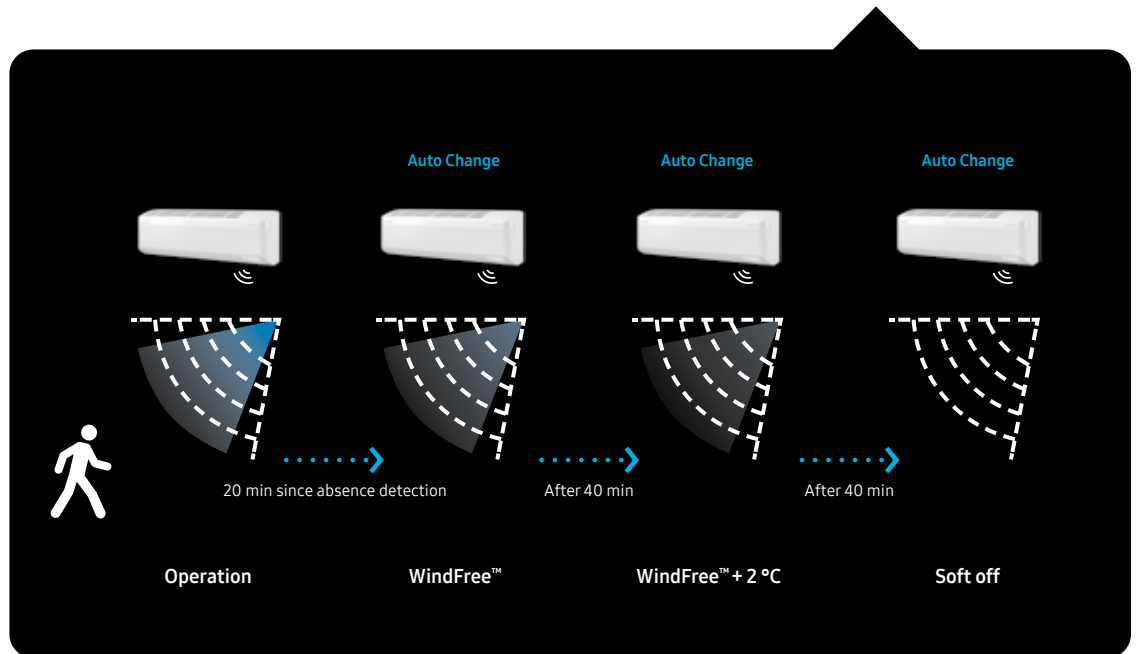


## Hassle-free installation and servicing

Engineered for quick and easy installation and maintenance, the new line-up helps professionals save time while delivering top service to their customers. The WindFree™ wall-mounted air conditioners also feature a snap-fit bottom cover that can be easily opened and closed. There are two screw points which allows for convenient installation and servicing. All models are designed with professionals in mind, prioritizing easy installation, maintenance and smart diagnostics to help simplify servicing.

WindFree™ wall-mounted models feature Easy Filter Plus, conveniently placed on top of the unit, allowing for hassle-free removal and cleaning. Its dense mesh captures certain types of dust, keeping the Heat Exchanger clean. A special coating traps additional airborne contaminants<sup>9</sup>, improving indoor air quality.

<sup>9</sup> Tested in Korean test lab (FITI). Data has been measured under specific testing conditions and may vary depending on environmental factors and individual use. Certain airborne contaminants referred to are Escherichia coli ATCC 25922, Staphylococcus aureus ATCC 6538.



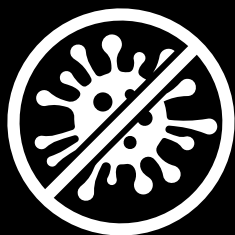
## The WindFree™ showpiece: Elite S2

The flagship WindFree™ Elite S2 comes with the most extensive set of features, including a Motion Detect Sensor (MDS) to cool the home efficiently whether someone is there or not. If no movement is detected for 20 minutes<sup>10</sup>, it switches to WindFree™ mode to save energy. After 40 minutes, it increases the temperature by 2°C, and after another 40 minutes, it enters standby mode. Users can customize detection settings with the SmartThings app<sup>11</sup>. The Elite S2 is available in 2.5 kW and 3.5 kW, both with an A+++ energy label (SEER<sup>12</sup>/SCOP<sup>12</sup>) and R32 refrigerant.

<sup>10</sup> In normal default mode. End user may adjust the time interval by selecting Eco or Comfort mode or through SmartThings. The absence of movement is tracked after a minimum of five minutes and maximum of 60 minutes for each interval.

<sup>11</sup> A Wi-Fi connection and Samsung SmartThings application account are required. Requires iOS 10.0 or later & Android 5.0 or later.

<sup>12</sup> Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++



**Up to 99%**  
Anti-bacteria

The WindFree™ Avant S2 line-up now includes the Avant Black, a sleek black edition that blends seamlessly in modern interiors. Elite S2 and the Avant S2 & Black models feature advanced air purification with a Tri-Care Filter<sup>13</sup>, which captures dust, allergens, and certain bacteria and viruses<sup>14</sup>.

<sup>13</sup> Only applicable for WindFree™ Elite S2 and WindFree™ Avant S2 and Avant Black

<sup>14</sup> Verified by Intertek testing samples of Samsung AR9500T in a continuous airflow condition (to KS K 0693:2016 protocol using bacteriophage MS2 virus ATCC 15597-B1 and Escherichiacoli strain C3000 ATCC 15597) and antiviral Tri-Care Filter (to Samsung-defined test criteria using Staphylococcus aureus ATCC 6538 and Klebsiella pneumoniae ATCC 4352).

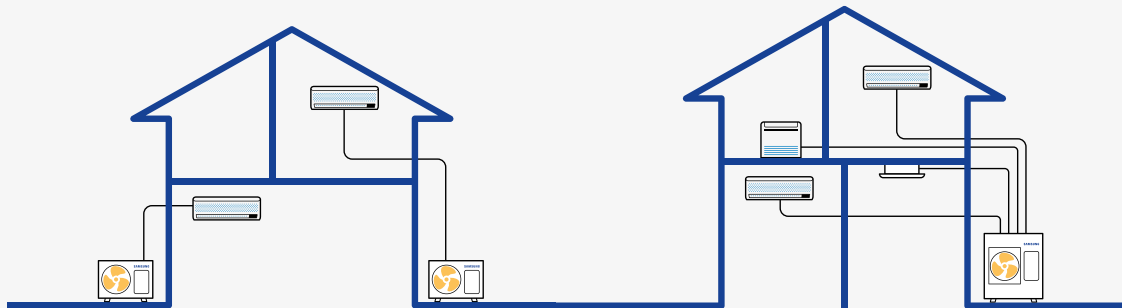


## Capacity Chart (kW)

Solutions	2	2.5	3.5	4.3	5	6.5
<b>Single Split (RAC)</b>						
WindFree™ Elite S2	-	●	●	-	-	-
WindFree™ Avant S2	●	●	●	●	●	●
WindFree™ Avant Black	●	●	●	-	-	-
WindFree™ Comfort S2	-	●	●	-	●	●
Cebu S2	●	●	●	●	●	●
Luzon S2	-	●	●	-	●	●
<b>Multi Split (FJM)</b>						
WindFree™ Elite S2	●	●	●	-	●	●
WindFree™ Avant S2	●	●	●	-	●	●
WindFree™ Avant Black	●	●	●	-	-	-
WindFree™ Comfort S2	●	●	●	-	●	●
Cebu S2	●	●	●	-	●	●
Luzon S2	●	●	●	-	●	●

### Schematic of Single Split + Multi Split

Any air conditioning system needs both an indoor and an outdoor unit. Depending on the system you choose, multiple indoor units can be connected to the same outdoor unit. The system which is right for you depends on your needs, your home and the way your home is built.



## Controls and Accessories



Wireless SolarCell  
Remote Controller (included)<sup>1</sup>



Wireless Remote Controller<sup>2</sup>



Advanced Wired Controller<sup>3</sup>

MWR-WG01JN/MWR-WG01KN



Simple Type Controller<sup>3</sup>

MWR-SH00N



Touch Controller<sup>3</sup>

MWR-SH11N

<sup>1</sup> Available for all WindFree™ models and Cebu S2

<sup>2</sup> Included for Luzon S2

<sup>3</sup> MIM-A00N Interface is required for the connection to wired remote controllers.

## Specifications

# WindFree™ Elite S2

- Three-step cooling:  
Fast Cooling mode, Dehumidification mode and Wind Free™ Cooling mode.
- Tri-Care Filter system with Zeolite Coating.
- AI Auto Comfort.
- Wi-Fi Control with Samsung SmartThings and Bixby voice controls.
- Twin Rotary Compressor with Digital Inverter Boost technology.
- Motion Detect Sensor.
- Triple Protector Plus to protect compressor, fan and controller from power surges.
- Compatible with wired remote controller and with centralized controller.
- SolarCell remote controller included.
- Freezewash.



			Indoor Unit	AR70F09CAAWNEU	AR70F12CAAWNEU
			Outdoor Unit	AR70F09CAAWXEU	AR70F12CAAWXEU
<b>Capacity</b>					
	Cooling (Min–Max)	kW		1.0–4.0	1.0–4.8
	Heating (Min–Max)	kW		0.7–7.1	0.7–7.3
<b>Performance</b>					
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W		9.5/ <b>A+++</b>	8.8/ <b>A+++</b>
	Pdesignnc	kW		2.5	3.5
	EER	W/W		4,67	4,07
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W		5.1/ <b>A+++</b>	5.1/ <b>A+++</b>
	Pdesignnh (average)	kW		2.4	2.4
	COP <sup>1</sup>	W/W		4,74	4,26
Moisture Removal		l/h		1.0	1.5
Maximum Airflow (Cooling)	Indoor Unit	m³/min		11.1	12.1
Sound Power	Indoor Unit (Cooling)	dB(A)		56	58
	Outdoor Unit (Cooling)	dB(A)		59	62
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)		38/16	40/16
	Outdoor Unit High	dB(A)		45	46
Operating Temperature Range	Cooling	°C		-10–46	-10–46
	Heating	°C		-15–24	-15–24
<b>Electrical Data</b>					
Power Source		Φ, V, Hz		1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz
Power Consumption	Cooling	W		535	860
	Heating	W		675	940
<b>Dimensions</b>					
Net Dimensions (W x H x D)	Indoor Unit	mm		889 x 299 x 215	889 x 299 x 215
	Outdoor Unit	mm		790 x 548 x 285	790 x 548 x 285
Net Weight	Indoor Unit	kg		10.5	10.5
	Outdoor Unit	kg		30,7	30,7
<b>Refrigerant</b>					
Refrigerant	Type			R32 (contains fluorinated greenhouse gases. GWP = 675)	
	Charging (for 7.5 m)	kg		0.97	0.97
	Charging Ton Equivalent CO <sub>2</sub>	tCO <sub>2</sub> e		0.65	0.65
Piping Connections	Liquid Pipe	ø, mm (inch)		6.35 (1/4)	6.35 (1/4)
	Gas Pipe	ø, mm (inch)		9.52 (3/8)	9.52 (3/8)
Piping Length	Min/Max (ODU to IDU)	m		3/20	3/20
Piping Height	Max	m		10	10

<sup>1</sup> Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++.

## Controls and Accessories



Wireless SolarCell Remote Controller (included)	Advanced Wired Controller <sup>3</sup>	Simple Type Controller <sup>3</sup>	Touch Controller <sup>3</sup>
	MWR-WG01JN/MWR-WG01KN	MWR-SH00N	MWR-SH11N

<sup>3</sup> MIM-A00N Interface is required for the connection to wired remote controllers.

# WindFree™ Avant Black & Avant S2

- Three-step cooling: Fast Cooling mode, Dehumidification mode and WindFree™ Cooling mode.
- Tri-Care Filter system with Zeolite Coating.
- AI Auto Comfort.
- Wi-Fi Control with Samsung SmartThings and Bixby voice controls.
- Compressor with Digital Inverter Boost technology.
- Direct drive fan powered by a BLDC motor.
- Triple Protector Plus to protect compressor, fin and controller from power surges.
- Compatible with wired remote controller and with centralized controller<sup>2</sup>.
- SolarCell remote controller included.
- Freezewash.



Indoor Unit Black			AR70F07C1ABNEU	AR70F09C1ABNEU	AR70F12C1ABNEU			
Indoor Unit			AR70F07C1AWNEU	AR70F09C1AWNEU	AR70F12C1AWNEU	AR70F15C1AWNEU	AR70F18C1AWNEU	AR70F24C1AWNEU
Outdoor Unit			AR70F07C1AWXEU	AR70F09C1AWXEU	AR70F12C1AWXEU	AR70F15C1AWXEU	AR70F18C1AWXEU	AR70F24C1AWXEU
Capacity								
	Cooling (Min–Max)	kW	0.96 - 3.2	0.96 - 3.7	1 - 4.6	1 - 5	1.6 - 6.7	1.4 - 7.6
	Heating (Min–Max)	kW	0.7 - 6.7	0.7 - 7	0.7 - 7.2	0.7 - 7.6	1.3 - 8	1.2 - 9.7
Performance								
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W	9/ <b>A+++</b>	8.8/ <b>A+++</b>	8.6/ <b>A+++</b>	8/ <b>A++</b>	7.2/ <b>A++</b>	7/ <b>A++</b>
	Pdesignc	kW	2	2.5	3.5	4.3	5	6.5
	EER	W/W	4.65	4.39	3.85	3.64	3.6	3.33
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W	4.8/ <b>A++</b>	4.8/ <b>A++</b>	4.8/ <b>A++</b>	4.6/ <b>A++</b>	4.1/ <b>A+</b>	4.3/ <b>A+</b>
	Pdesignh (average)	kW	2.2	2.3	2.4	2.7	3.8	4.1
	COP <sup>1</sup>	W/W	4.78	4.21	3.74	3.73	3.73	3.36
Moisture Removal		l/h	1.0	1.0	1.5	1.5	2	2.5
Maximum Airflow (Cooling)	Indoor Unit	m³/min	9	9.5	10.5	14.2	15.7	17.6
Sound Power	Indoor Unit (Cooling)	dB(A)	56	56	58	58	58	62
	Outdoor Unit (Cooling)	dB(A)	59	59	62	65	65	68
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)	38 / 16	38 / 16	40 / 16	41 / 25	41 / 25	45 / 27
	Outdoor Unit High	dB(A)	45	45	46	48	51	54
Operating Temperature Range	Cooling	°C	-10–46	-10–46	-10–46	-10–46	-10–46	-10–46
	Heating	°C	-15–24	-15–24	-15–24	-15–24	-15–24	-15–24
Electrical Data								
Power Source		Φ, V, Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz
Power Consumption	Cooling	W	430	570	910	1180	1390	1950
	Heating	W	460	760	1070	1260	1610	2200
Dimensions								
Net Dimensions (W x H x D)	Indoor Unit	mm	889 x 299 x 215	889 x 299 x 215	889 x 299 x 215	889 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
	Outdoor Unit	mm	790 x 548 x 285	790 x 548 x 285	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310	880 x 638 x 310
Net Weight	Indoor Unit	kg	9.9	9.9	9.9	9.9	12.3	12.3
	Outdoor Unit	kg	30.7	30.7	30.7	30.7	30.7	30.7
Refrigerant								
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)					
	Charging (for 7.5 m)	kg	0.95	0.95	0.95	0.95	1.3	1.3
	Charging Ton Equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	0.64	0.64	0.64	0.64	0.88	0.88
Piping Connections	Liquid Pipe	ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Piping Length	Min/Max (ODU to IDU)	m	3/20	3/20	3/20	3/20	3/30	3/30
Piping Height	Max	m	10	10	10	10	15	15

<sup>1</sup> Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++.

<sup>2</sup> A MIM-R10N Interface is required to connect the Outdoor Unit (ODU) to the centralized controller.

## Controls and Accessories



Wireless Remote Controller SolarCell (included)	Advanced Wired Controller <sup>3</sup>	Simple Type Controller <sup>3</sup>	Touch Controller <sup>3</sup>
	MWR-WG01JN MWR-WG01KN	MWR-SH00N	MWR-SH11N

<sup>3</sup> MIM-A00N Interface is required for the connection to wired remote controllers.

# WindFree™ Comfort S2

- Three-step cooling: Fast Cooling mode, Dehumidification mode and WindFree™ Cooling mode.
- AI Auto Comfort.
- Wi-Fi Control with Samsung SmartThings and Bixby voice controls.
- Twin Rotary Compressor with Digital Inverter Boost technology.
- Direct drive fan powered by a BLDC motor.
- Triple Protector Plus to protect compressor, fan and controller from power surges.
- Compatible with wired remote controller and with centralized controller.
- SolarCell remote controller.
- Freezewash.



			Indoor Unit	AR60F09C1AWNEU	AR60F12C1AWNEU	AR60F18C1AWNEU	AR60F24C1AWNEU
			Outdoor Unit	AR60F09C1AWXEU	AR60F12C1AWXEU	AR60F18C1AWXEU	AR60F24C1AWXEU
<b>Capacity</b>							
	Cooling (Min–Max)	kW		1 - 3.5	0.9 - 4.2	1.6 - 6.7	1.4 - 7.6
	Heating @ +7 °C	kW		3.2	4.0	6	7.4
<b>Performance</b>							
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W		79/ <b>A++</b>	7.6/ <b>A++</b>	7.2/ <b>A++</b>	7/ <b>A++</b>
	Pdesignc	kW		2,5	3,5	5	6,5
	EER	W/W		4	3,54	3,6	3,33
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W		4,6/ <b>A++</b>	4,6/ <b>A++</b>	4,1/ <b>A+</b>	4,3/ <b>A+</b>
	Pdesignh (average)	kW		2.2	2.3	3.8	4.1
	COP <sup>1</sup>	W/W		4,16	3,92	3,73	3,36
Moisture Removal		l/h		1.0	1.5	2	2.5
Maximum Airflow (Cooling)	Indoor Unit	m³/min		12.1	13.1	15.7	17.6
Sound Power	Indoor Unit (Cooling)	dB(A)		56	58	58	62
	Outdoor Unit (Cooling)	dB(A)		63	63	65	68
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)		38 / 16	40 / 16	41 / 25	45 / 27
	Outdoor Unit High	dB(A)		45	46	51	54
Operating Temperature Range	Cooling	°C		-10–46	-10–46	-10–46	-10–46
	Heating	°C		-15–24	-15–24	-15–24	-15–24
<b>Electrical Data</b>							
Power Source		Φ, V, Hz		1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz
Power Consumption	Cooling	W		625	990	1390	1950
	Heating	W		770	1020	1610	2200
<b>Dimensions</b>							
Net Dimensions (W x H x D)	Indoor Unit	mm		889 x 299 x 215	889 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
	Outdoor Unit	mm		710 x 540 x 220	710 x 540 x 220	880 x 638 x 310	880 x 638 x 310
Net Weight	Indoor Unit	kg		9,9	9,9	12,3	12,3
	Outdoor Unit	kg		24	24	36,8	38,6
<b>Refrigerant</b>							
Refrigerant	Type			R32 (contains fluorinated greenhouse gases. GWP = 675)			
	Charging (for 7.5 m)	kg		0,7	0,7	1,3	1,3
	Charging Ton Equivalent CO <sub>2</sub>	tCO <sub>2</sub> e		0.47	0.47	0.88	0.88
Piping Connections	Liquid Pipe	ø, mm (inch)		6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe	ø, mm (inch)		9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Piping Length	Min/Max (ODU to IDU)	m		3/15	3/15	3/30	3/30
Piping Height	Max	m		8	8	15	15

<sup>1</sup> Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++.

<sup>2</sup> The centralized controller is only compatible with specific bigger capacity ODU i.e. AR18TXFCAWKXEU and AR24TXFCAWKXEU. It is not compatible with the 2.5kW and 3.5kW RAC ODU. A MIM-R10N Interface is required for the Outdoor Unit (ODU).

## Controls and Accessories



Wireless Remote Controller SolarCell (Included)	Advanced Wired Controller <sup>3</sup>	Simple Type Controller <sup>3</sup>	Touch Controller <sup>3</sup>
	MWR-WG01JN MWR-WG01KN	MWR-SH00N	MWR-SH11N

<sup>3</sup> MIM-A00N Interface is required for the connection to wired remote controllers.

# Cebu S2

- AI Auto Comfort.
- Wi-Fi Control with Samsung SmartThings and Bixby voice controls.
- Twin Rotary Compressor with Digital Inverter Boost technology.
- Direct drive fan powered by a BLDC motor.
- Triple Protector Plus to protect compressor, fan and controller from power surges.
- Compatible with wired remote controller and with centralized controller.
- SolarCell remote controller.



			Indoor Unit	AR50F07C1AHNEU	AR50F09C1AHNEU	AR50F12C1AHNEU	AR50F15C1AHNEU	AR50F18C1AHNEU	AR50F24C1AHNEU
			Outdoor Unit	AR50F07C1AHXEU	AR50F09C1AHXEU	AR50F12C1AHXEU	AR50F15C1AHXEU	AR50F18C1AHXEU	AR50F24C1AHXEU
Capacity									
	Cooling (Min–Max)	kW		1.05 - 3	1.05 - 3.5	1.05 - 4	0.95 - 4.8	1.6 - 6.7	1.4 - 7.6
	Heating (Min–Max)	kW		0.85 - 4.5	0.85 - 4.5	0.85 - 5	0.75 - 7	1.3 - 8	1.2 - 9.7
Performance									
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W		7.6/ <b>A++</b>	7.4/ <b>A++</b>	7/ <b>A++</b>	7.6/ <b>A++</b>	7/ <b>A++</b>	6.8/ <b>A++</b>
	Pdesign <sub>cl</sub>	kW		2	2.5	3.5	4.3	5	6.5
	EER	W/W		4.35	4.17	3.3	3.39	3.6	3.33
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W		4.2/ <b>A+</b>	4.2/ <b>A+</b>	4.2/ <b>A+</b>	4.5/ <b>A+</b>	4.1/ <b>A+</b>	4.3/ <b>A+</b>
	Pdesign <sub>h</sub> (average)	kW		2.1	2.1	2.2	2.7	3.8	4.1
	COP <sup>1</sup>	W/W		4.68	3.76	3.76	3.47	3.73	3.36
Moisture Removal		L/h		1.0	1.0	1.5	1.5	2	2.5
Maximum Airflow (Cooling)	Indoor Unit	m <sup>3</sup> /min		10	10.5	10.9	12.4	15.7	17.7
Sound Power	Indoor Unit (Cooling)	dB(A)		56	56	58	58	58	62
	Outdoor Unit (Cooling)	dB(A)		60	63	63	65	65	68
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)		37 / 19	37 / 19	38 / 19	41 / 25	41 / 25	45 / 27
	Outdoor Unit High	dB(A)		45	45	46	48	51	54
Operating Temperature Range	Cooling	°C		-10–46	-10–46	-10–46	-10–46	-10–46	-10–46
	Heating	°C		-15–24	-15–24	-15–24	-15–24	-15–24	-15–24
Electrical Data									
Power Source		Φ, V, Hz		1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz
Power Consumption	Cooling	W		460	600	1060	1270	127	1390
	Heating	W		470	850	930	1240	1610	2200
Dimensions									
Net Dimensions (W x H x D)	Indoor Unit	mm		820 x 299 x 215	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
	Outdoor Unit	mm		710 x 540 x 220	710 x 540 x 220	710 x 540 x 220	790 x 548 x 285	880 x 638 x 310	880 x 638 x 310
Net Weight	Indoor Unit	kg		9,1	9,1	9,1	9,1	12,5	12,5
	Outdoor Unit	kg		24	24	24,4	30,7	36,8	38,6
Refrigerant									
Refrigerant	Type			R32 (contains fluorinated greenhouse gases. GWP = 675)					
	Charging (for 7.5 m)	kg		0,7	0,7	0,7	0,93	1,3	1,3
	Charging Ton Equivalent CO <sub>2</sub>	tCO <sub>2</sub> e		0.47	0.47	0.47	0.63	0.88	0.88
Piping Connections	Liquid Pipe	ø, mm (inch)		6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe	ø, mm (inch)		9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Piping Length	Min/Max (ODU to IDU)	m		3/15	3/15	3/15	3/15	3/30	3/30
Piping Height	Max	m		8	8	8	8	15	15

<sup>1</sup> Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++.

<sup>2</sup> The centralized controller is only compatible with specific bigger capacity ODU i.e. AR18TXFYAWKXEU and AR24TXFYAWKXEU. It is not compatible with the 2.5kW and 3.5kW RAC ODU. A MIM-R10N Interface is required for the Outdoor Unit (ODU).

## Controls and Accessories



Wireless Remote Controller SolarCell (Included)	Advanced Wired Controller <sup>3</sup>	Simple Type Controller <sup>3</sup>	Touch Controller <sup>3</sup>
	MWR-WG01JN MWR-WG01KN	MWR-SH00N	MWR-SH11N

<sup>3</sup> MIM-A00N Interface is required for the connection to wired remote controllers.



# Luzon S2

- Wi-Fi Control with Samsung SmartThings and Bixby voice controls.
- Twin Rotary Compressor with Digital Inverter Boost technology.
- Triple Protector Plus to protect compressor, fan and controller from power surges.
- Direct drive fan powered by a BLDC motor.
- Compatible with wired remote controller and with centralized controller.
- AI Auto Comfort.



			Indoor Unit	AR50F09C1BHNEU	AR50F12C1BHNEU	AR50F18C1BHNEU	AR50F24C1BHNEU
			Outdoor Unit	AR50F09C1BHXEU	AR50F12C1BHXEU	AR50F18C1BHXEU	AR50F24C1BHXEU
Capacity							
	Cooling (Min–Max)	kW		0.9 - 3.35	0.9 - 3.8	1.6 - 6.7	1.4 - 7.6
	Heating (Min–Max)	kW		0.9 - 4.3	0.9 - 4.7	1.3 - 8	1.2 - 9.7
Performance							
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W		6.7/ <b>A++</b>	6.6/ <b>A++</b>	7/ <b>A++</b>	6.8/ <b>A++</b>
	Pdesignc	kW		2,5	3,5	5	6,5
	EER	W/W		3,29	2,6	3,6	3,33
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W		4.0/ <b>A+</b>	4.0/ <b>A+</b>	4.1/ <b>A+</b>	4.3/ <b>A+</b>
	Pdesignh (average)	kW		2.1	2.2	3.8	4.1
	COP <sup>1</sup>	W/W		3,64	3,61	3,73	3,36
Moisture Removal		l/h		1.0	1.5	2	2.5
Maximum Airflow (Cooling)	Indoor Unit	m³/min		10.5	10.9	15.7	17.7
Sound Power	Indoor Unit (Cooling)	dB(A)		54	56	58	62
	Outdoor Unit (Cooling)	dB(A)		63	63	65	68
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)		37 / 19	38 / 19	41 / 25	45 / 27
	Outdoor Unit High	dB(A)		45	46	51	54
Operating Temperature Range	Cooling	°C		-10–46	-10–46	-10–46	-10–46
	Heating	°C		-15–24	-15–24	-15–24	-15–24
Electrical Data							
Power Source		Φ, V, Hz		1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz
Power Consumption	Cooling	W		760	1345	1390	1950
	Heating	W		880	970	1610	220
Dimensions							
Net Dimensions (W x H x D)	Indoor Unit	mm		820 x 299 x 215	820 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
	Outdoor Unit	mm		710 x 540 x 220	710 x 540 x 220	880 x 638 x 310	880 x 638 x 310
Net Weight	Indoor Unit	kg		9,1	9,1	12,5	12,5
	Outdoor Unit	kg		24,8	24,8	40,1	42
Refrigerant							
Refrigerant	Type			R32 (contains fluorinated greenhouse gases. GWP = 675)			
	Charging (for 7.5 m)	kg		0,53	0,53	1,3	1,3
	Charging Ton Equivalent CO <sub>2</sub>	tCO <sub>2</sub> e		0.36	0.36	0.88	0.88
Piping Connections	Liquid Pipe	ø, mm (inch)		6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe	ø, mm (inch)		9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
Piping Length	Min/Max (ODU to IDU)	m		3/15	3/15	3/30	3/30
Piping Height	Max	m		8	8	15	15

<sup>1</sup> Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++.

<sup>2</sup> The centralized controller is only compatible with specific bigger capacity ODU i.e. AR18TXHZAWKXEU and AR24TXHZAWKXEU. It is not compatible with the 2.5kW and 3.5kW RAC ODU. A MIM-R10N Interface is required for the Outdoor Unit (ODU).

## Controls and Accessories



Wireless Remote Controller	Advanced Wired Controller <sup>3</sup>	Simple Type Controller <sup>3</sup>	Touch Controller <sup>3</sup>
	MWR-WG01JN MWR-WG01KN	MWR-SH00N	MWR-SH11N

<sup>3</sup> MIM-A00N Interface is required for the connection to wired remote controllers.



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