

# Specifications

## WindFree™ Avant Black & Avant S2

R32



- 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.
- Freezeshaw



Indoor Unit Black			AR70 F07C1ABNEU	AR70 F09C1ABNEU	AR70 F12C1ABNEU			
Indoor Unit			AR70 F07C1AWNEU	AR70 F09C1AWNEU	AR70 F12C1AWNEU	AR70 F15C1AWNEU	AR70 F18C1AWNEU	AR70 F24C1AWNEU
Outdoor Unit			AR70 F07C1AWXEU	AR70 F09C1AWXEU	AR70 F12C1AWXEU	AR70 F15C1AWXEU	AR70 F18C1AWXEU	AR70 F24C1AWXEU
<b>Capacity</b>								
Capacity	Cooling (Nominal)	kW	2	2.5	3.5	4.3	5	6.5
	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 @ +7 °C	kW	2.2	3.2	4.0	4.7	6	7.4
	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
	Heating @ -5 °C	kW	4.2	4.39	4.96	5.08	5.29	6.58
	Heating @ -10 °C	kW	4.17	4.35	4.74	4.71	4.88	5.97
	Heating @ -15 °C	kW	3.57	3.72	4.1	4.16	4.13	5.12
<b>Performance</b>								
Energy Efficiency Cooling	SEER <sup>1</sup>	W W	9/ A+++	8.8/ A+++	8.6/ A+++	8/ A++	7.2/ A++	7/ A++
	Power Consumption	kWh/a	77.78	99.43	142.44	188.13	243.06	325.00
	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/ A+++	4.8/ A++	4.8/ A++	4.6/ A++	4.1/ A+	4.3/ A+
	Power Consumption	kWh/a	641.67	670.83	700.00	821.74	1297.56	1334.88
	Pdesignh (average)	kW	2.2	2.3	2.4	2.7	3.8	4.1
	OOP <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	m <sup>3</sup> /min	10.5	11.1	12.1	14.2	15.7	17.6
	Outdoor Unit	m <sup>3</sup> /min	45	45	45	45	50	50
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
<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	1Φ, 220–240 V, 50 Hz	1Φ, 220–240 V, 50 Hz
Compressor Type	Outdoor Unit	Type	Twin Rotary					
Power Consumption	Cooling	W	430	570	910	1180	1390	1950
	Heating	W	460	760	1070	1260	1610	2200
Operating Current	Cooling	A	2.3	3	4.1	5.2	6.4	8.8
	Heating	A	2.3	3.4	4.7	5.6	7.8	9.8
<b>Dimensions</b>								
Net Dimensions (W x H x D)	Indoor Unit	mm	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	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

<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 MJM-R10N Interface is required to connect the Outdoor Unit (ODU) to the centralized controller.



Indoor Unit Black	AR70F07C1ABNEU	AR70F09C1ABNEU	AR70F12C1ABNEU			
Indoor Unit	AR70F07C1AWNEU	AR70F09C1AWNEU	AR70F12C1AWNEU	AR70F15C1AWNEU	AR70F18C1AWNEU	AR70F24C1AWNEU
Outdoor Unit	AR70F07C1AWXEU	AR70F09C1AWXEU	AR70F12C1AWXEU	AR70F15C1AWXEU	AR70F18C1AWXEU	AR70F24C1AWXEU

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
	Additional Refrigerant Charging	g/m	15	15	15	15	15	15
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
Piping Connections	Drain Pipe	ø, mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm
Functions								
Airflow	WindFree™ Cooling		●	●	●	●	●	●
	Air Direction Control (Up/ Down)		Auto	Auto	Auto	Auto	Auto	Auto
	Air Direction Control (Left/ Right)		Auto	Auto	Auto	Auto	Auto	Auto
	Auto Fan Speed		●	●	●	●	●	●
Air Purification	Tri-Care Filter		●	●	●	●	●	●
	Easy Filter Plus		●	●	●	●	●	●
	Auto Clean (Self-Cleaning)		●	●	●	●	●	●
Operating Mode	AI Auto Comfort with Wi-Fi & MDS (direct/ indirect)		-	-	-	-	-	-
	AI Auto Comfort with Wi-Fi		●	●	●	●	●	●
	Auto Mode (without Wi-Fi)		-	-	-	-	-	-
	Fast Cooling		●	●	●	●	●	●
	Good Sleep		●	●	●	●	●	●
	Eco		●	●	●	●	●	●
	Dehumidification		●	●	●	●	●	●
	Fan		●	●	●	●	●	●
	Quiet		●	●	●	●	●	●
	Other Functions	Samsung SmartThings		●	●	●	●	●
	MDS (Motion Detect Sensor)		●	●	●	●	●	●
	Indoor Temperature Display		●	●	●	●	●	●
	Display On/ Off	88 Display	●	●	●	●	●	●
	Beep On/ Off		●	●	●	●	●	●
	Auto Changeover		●	●	●	●	●	●
	Auto Restart		●	●	●	●	●	●

## 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

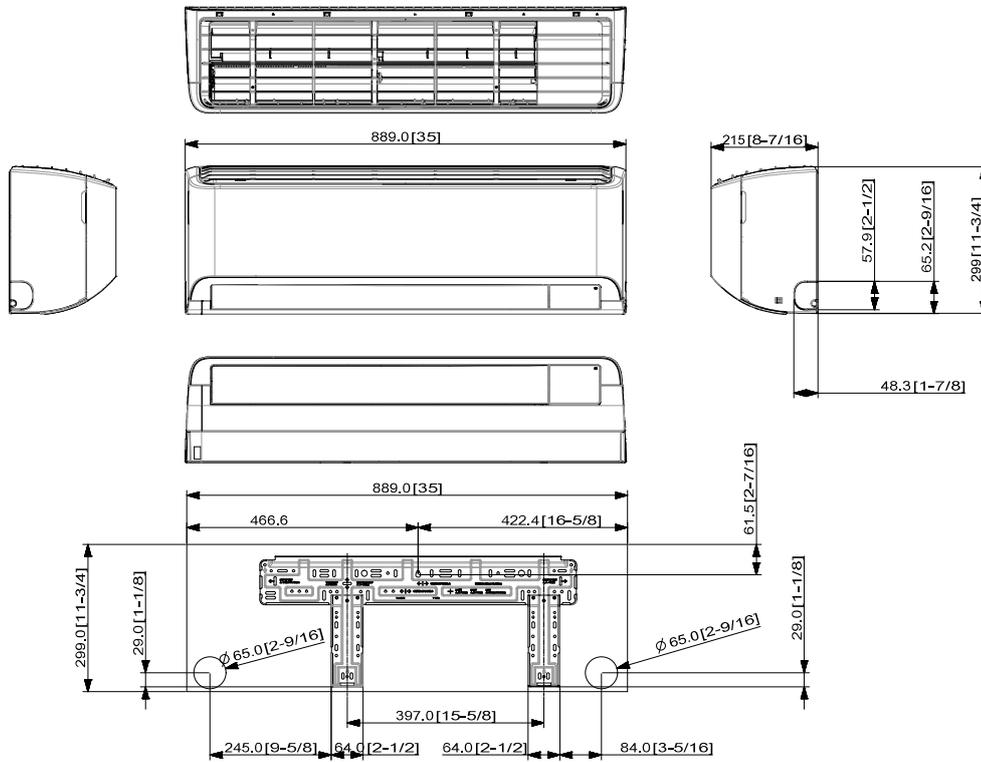
<sup>3</sup> MJM-A00N Interface is required for the connection to wired remote controllers.

# Dimensional drawings

## WindFree™ Avant Black & Avant S2 - Indoor

AR70F07C1AWNEU, AR70F09C1AWNEU, AR70F12C1AWNEU, AR70F15C1AWNEU, AR70F07C1ABNEU, AR70F09C1ABNEU, AR70F12C1ABNEU

Units: mm [inches]



AR70F18/24C1AWNEU

Units: mm [inches]

