

# Specifications


WindFree™ Avant  

- 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.
- Equipped with NASA communication protocol.
- 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.



Indoor Unit		AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU	AR24TXEAAWKNEU	
Outdoor Unit		AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU	AR24TXEAAWKXEU	
<b>Capacity</b>						
Capacity	Cooling (Nominal)	kW	2.5	3.5	5.0	6.5
	Cooling (Min-Max)	kW	1.0-3.4	1.0-4.0	1.6-6.7	1.4-7.6
	Heating @ +7 °C	kW	3.2	4.0	6.0	7.4
	Heating (Min-Max)	kW	0.72-5.00	0.74-5.50	1.30-8.00	1.20-9.70
	Heating @ -5 °C	kW	3.62	3.59	5.07	6.04
	Heating @ -10 °C	kW	3.37	3.33	4.70	5.65
	Heating @ -15 °C	kW	3.12	3.07	4.63	5.60
<b>Performance</b>						
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W	7.9/ <b>A++</b>	7.3/ <b>A++</b>	6.8/ <b>A++</b>	6.4/ <b>A++</b>
	Power Consumption	kWh/a	111	168	257	355
	Pdesignc	kW	2.5	3.5	5.0	6.5
	EER	W/W	4.39	3.76	3.60	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>	4.0/ <b>A+</b>
	Power Consumption	kWh/a	670	730	1,298	1,435
	Pdesignh (average)	kW	2.2	2.4	3.8	4.1
	COP <sup>1</sup>	W/W	4.21	3.74	3.53	3.15
Moisture Removal		l/h	1.0	1.5	2.0	2.5
Maximum Airflow (Cooling)	Indoor Unit	m <sup>3</sup> /min	9.5	10.5	15.7	17.6
	Outdoor Unit	m <sup>3</sup> /min	45.0	45.0	50.0	50.0
Sound Power	Indoor Unit (Cooling)	dB(A)	57	57	58	62
	Outdoor Unit (Cooling)	dB(A)	59	62	65	68
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)	38/16	40/16	41/25	45/26
	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
Compressor Type	Outdoor Unit	Type	BLDC Rotary	BLDC Rotary	BLDC Rotary	BLDC Rotary
Power Consumption	Cooling	W	570	930	1,390	1,950
	Heating	W	760	1,070	1,700	2,350
Operating Current	Cooling	A	3.4	4.5	6.4	8.8
	Heating	A	3.7	5.1	7.8	10.5
<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	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	12.2	12.5
	Outdoor Unit	kg	29.9	29.9	39.7	43.7
<b>Refrigerant</b>						
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)			
	Charging (for 5 m)	kg	0.94	0.94	1.30	1.30
	Charging Ton Equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	0.63	0.63	0.88	0.88
	Additional Refrigerant Charging	g/m	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)
	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
Piping Connections	Drain Pipe	ø, mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm

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<b>Functions</b>					
Airflow	WindFree™ Cooling		●	●	●
	Air Direction Control (Up/Down)	Auto		Auto	Auto
	Air Direction Control (Left/Right)	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		●	●	●	

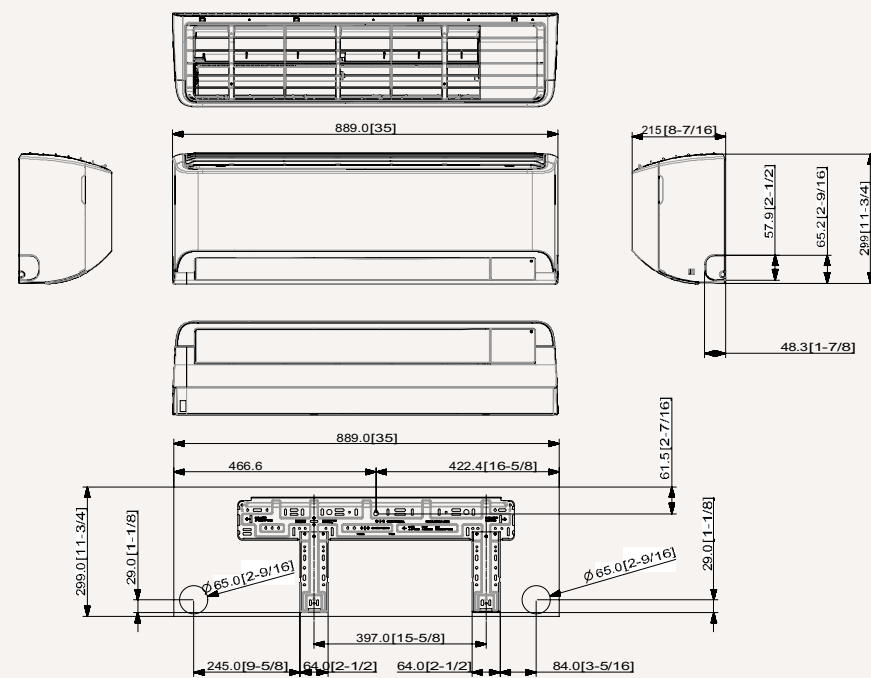
Accessory			
Wireless Remote Controller (Included)	Advanced Wired Controller	Simple Type Controller	Touch Controller
			
	MWR-WG00JN/MWR-WG00KN	MWR-SH00N	MWR-SH11N

<sup>1</sup> Energy labels as shown are according to EU No 626/2011 (LOT10) label classification 2019, on a scale from D to A+++.

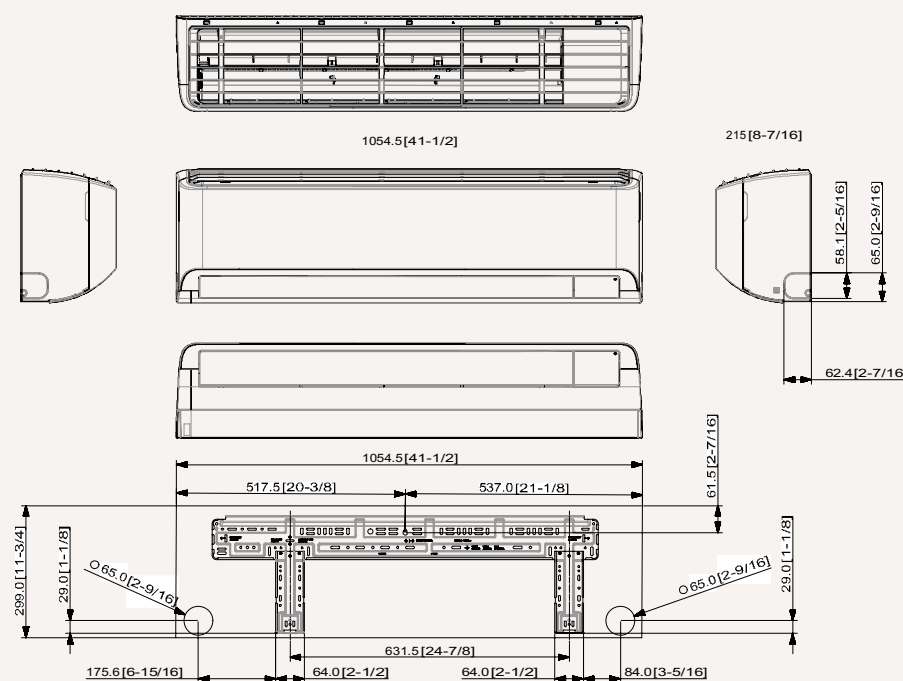
# Dimensional drawings

WindFree™ Avant - Indoor

AR09/12TXEAAWKNEU

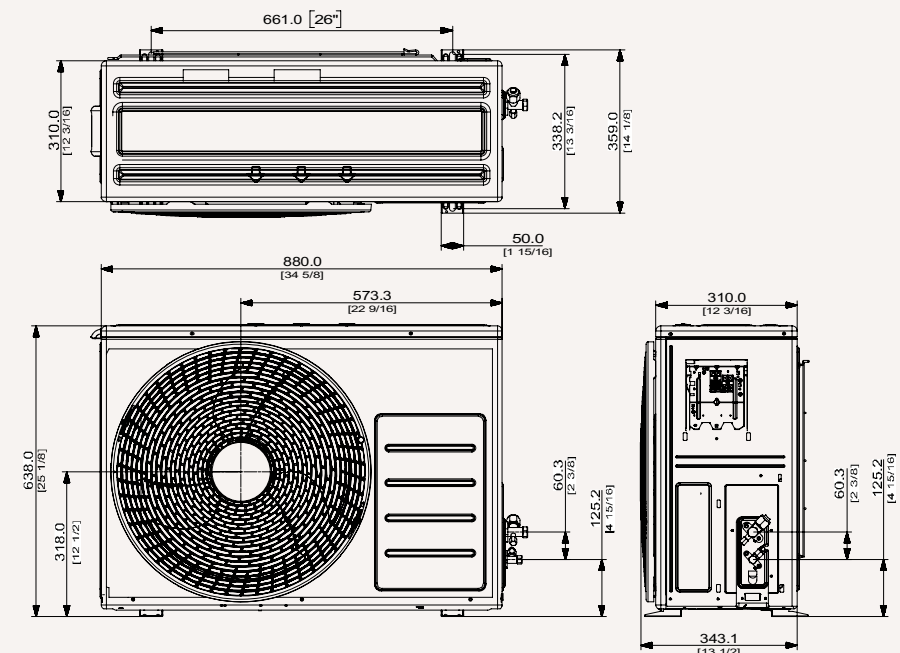


AR18/24TXEAAWKNEU



WindFree™ Avant - Outdoor

AR18/24TXEAAWKXEU



AR18/24TXEAAWKXEU

