

Specifications

WindFree™ Comfort R32

- 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.
- 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, fin and controller from power surges.
- Compatible with wired remote controller. The centralized controller is only compatible with bigger capacity ODU¹.



Indoor Unit		AR09TXFCWKNUEU		AR12TXFCWKNUEU		AR18TXFCWKNUEU		AR24TXFCWKNUEU	
Outdoor Unit		AR09TXFCWKKXEU		AR12TXFCWKKXEU		AR18TXFCWKKXEU		AR24TXFCWKKXEU	
Capacity									
Capacity	Cooling (Nominal)	kW	2.5	3.5	5.0	6.5			
	Cooling (Min→Max)	kW	0.9–3.4	0.9–4.0	1.6–6.7	1.4–7.6			
	Heating @ +7 °C	kW	3.2	3.5	6.0	7.4			
	Heating (Min→Max)	kW	0.9–4.5	0.9–5.0	1.3–8.0	1.2–9.4			
	Heating @ -5 °C	kW	2.74	3.09	4.84	6.00			
	Heating @ -10 °C	kW	2.48	2.87	4.57	5.55			
	Heating @ -15 °C	kW	2.29	2.58	4.58	5.66			
Performance									
Energy Efficiency Cooling	SEER ²	W/W	6.7, A++	6.5, A++	6.8, A++	6.4, A++			
	Power Consumption	kWh/a	131	188	257	355			
	Pdesignc	kW	2.5	3.5	5.0	6.5			
	EER	W/W	3.57	2.87	3.60	3.33			
Energy Efficiency Heating	SCOP ²	W/W	4.0, A+	4.0, A+	3.8, A	3.8, A			
	Power Consumption	kWh/a	735	770	1,400	1,511			
	Pdesignh (average)	kW	2.1	2.2	3.8	4.1			
	COP ²	W/W	3.81	3.72	3.51	3.15			
Moisture Removal		l/h	1.0	1.5	2.0	2.5			
Maximum Airflow (Cooling)	Indoor Unit	m³/min	10.3	10.7	16.6	17.3			
	Outdoor Unit	m³/min	28.0	28.0	50.0	50.0			
Sound Power	Indoor Unit (Cooling)	dB(A)	54	56	58	62			
	Outdoor Unit (Cooling)	dB(A)	63	64	65	68			
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)	37/19	38/19	41/25	45/26			
	Outdoor Unit High	dB(A)	46	47	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	10, 220–240 V, 50 Hz	10, 220–240 V, 50 Hz	10, 220–240 V, 50 Hz	10, 220–240 V, 50 Hz			
Compressor Type	Outdoor Unit	Type	BLDC Rotary	BLDC Rotary	BLDC Rotary	BLDC Rotary			
Power Consumption	Cooling	W	700	1,200	1,390	1,950			
	Heating	W	840	940	1,710	2,350			
Operating Current	Cooling	A	3.4	4.5	6.4	8.8			
	Heating	A	3.7	5.1	7.8	10.5			
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	660 x 475 x 242	660 x 475 x 242	880 x 638 x 310	880 x 638 x 310			
Net Weight	Indoor Unit	kg	8.9	8.9	11.5	11.6			
	Outdoor Unit	kg	23.0	23.0	39.7	43.2			
Refrigerant									
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)						
Charging (for 5 m)		kg	0.70	0.70	1.30	1.15			
	Charging Ton Equivalent CO ₂	tCO ₂ e	0.47	0.47	0.88	0.78			
	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)	12.70 (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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Functions									
AirFlow	WindFree™ Cooling		●		●		●		●
	Air Direction Control (Up/Down)		Auto		Auto		Auto		Auto
	Air Direction Control (Left/Right)		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		●		●		●		●

Accessory



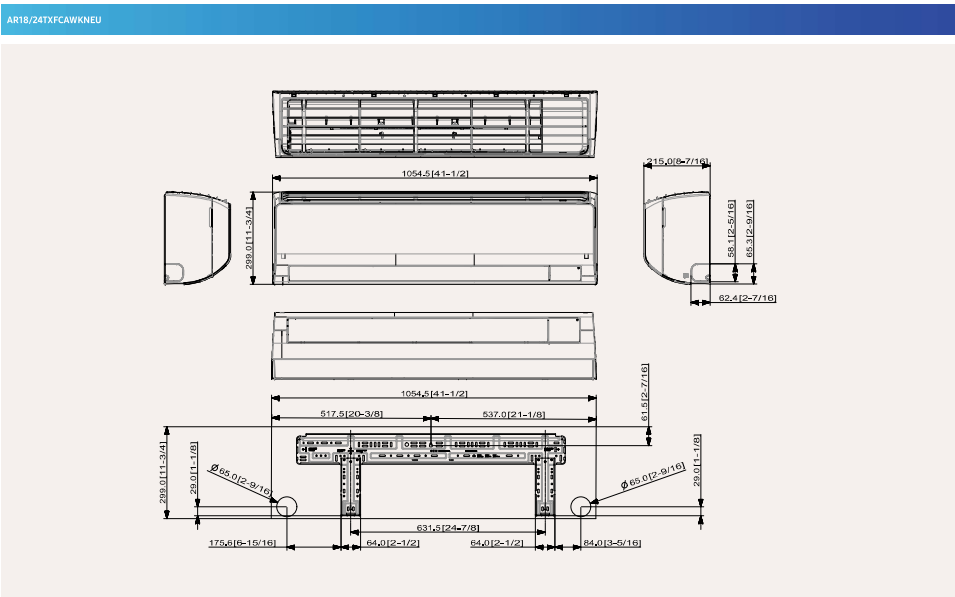
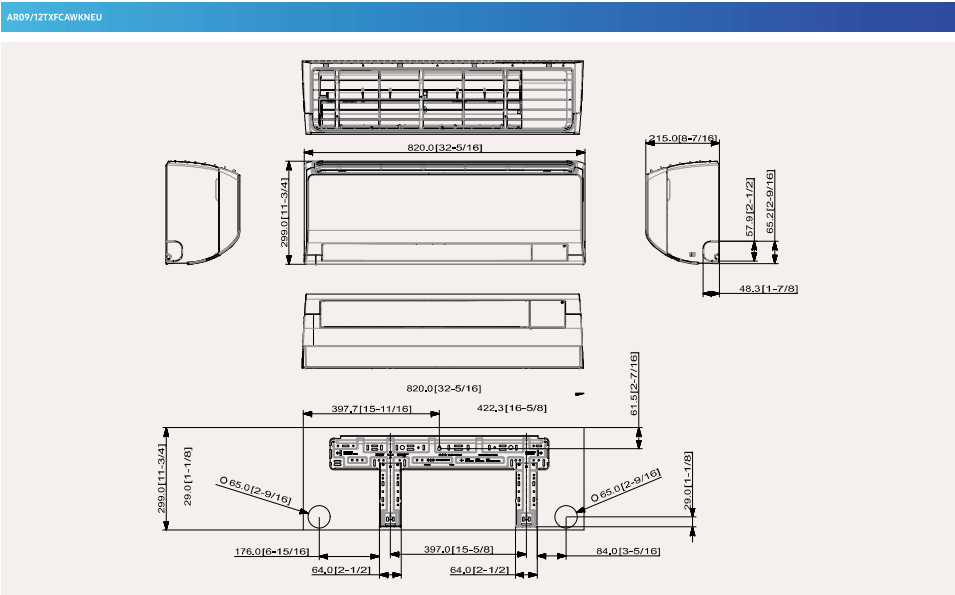
Wireless Remote Controller (included)	Advanced Wired Controller	Simple Type Controller	Touch Controller
	MWR-WG00JN/MWR-WG00KN	MWR-SH00N	MWR-SH11N

¹ The centralized controller is only compatible with specific bigger capacity ODU i.e. AR18TXFCWKKXEU and AR24TXFCWKKXEU. It is not compatible with the 2.5kW and 3.5kW RAC ODU.

² Energy labels as shown are according to EU No 626/2011 (LOT 10) label classification 2019, on a scale from D to A+++.

Dimensional drawings

WindFree™ Comfort - Indoor



WindFree™ Comfort - Outdoor

