

# Specifications

## Outdoor units R32

- 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.



Outdoor Unit			AJ040TXJ2KG/EU	AJ050TXJ2KG/EU	AJ052TXJ3KG/EU	AJ068TXJ3KG/EU
Maximum number of connectable indoor units			2	2	3	3
<b>Capacity</b>						
Capacity	Cooling (Nominal)	kW	4.0	5.0	5.2	6.8
	Heating @ +7 °C	kW	4.2	5.6	6.3	8.0
	Heating @ -5 °C	kW	3.16	4.22	4.22	6.02
	Heating @ -10 °C	kW	2.70	3.60	3.60	5.14
	Heating @ -15 °C	kW	2.23	2.98	2.98	4.25
<b>Performance</b>						
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W	8.54	8.54	8.51	7.75
	Power Consumption	kWh/a	164	205	206	293
	Pdesignc	kW	4.0	5.0	5.0	6.5
	EER	W/W	4.44	4.10	4.16	3.78
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W	4.60	4.64	4.60	4.32
	Power Consumption	kWh/a	922	1,270	1,400	1,833
	Pdesignh (average)	kW	3.1	4.2	4.6	5.7
	COP <sup>1</sup>	W/W	4.64	4.38	4.77	4.42
Airflow Rate	m <sup>3</sup> /min	29.7	33.1	38.0	47.5	
Sound Power	dB(A)	60	61	61	64	
Sound Pressure	Cooling	dB(A)	45	46	46	48
	Heating	dB(A)	46	47	48	50
Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Discharge direction		Front (horizontal)	Front (horizontal)	Front (horizontal)	Front (horizontal)
	Power	W	40	40	125	125
	Number of Fans	-	1	1	1	1
Operating Temperature Range	Cooling	°C	-5.0~46.0	-5.0~46.0	-10.0~46.0	-10.0~46.0
	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			Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Power Consumption	Cooling	kW	0.90	1.22	1.25	1.80
	Heating	kW	0.90	1.28	1.32	1.81
Operating Current	Cooling	A	4.1	5.6	5.5	8.1
	Heating	A	4.1	5.9	6.1	8.2
<b>Dimensions</b>						
Net Dimensions (W x H x D)	mm		790 x 548 x 285	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310
Net Weight	kg		32.0	33.0	44.5	57.5
<b>Refrigerant</b>						
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)			
Refrigerant	Factory Charging	kg	0.98	1.18	1.55	2.00
	Chargeless Piping Length	m	30.0	30.0	30.0	30.0
	Charging Ton equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	0.66	0.80	1.05	1.35
	Additional Refrigerant Charging	g/m				10
Piping Connections	Liquid Pipe	ø, inch	1/4 x 2	1/4 x 2	1/4 x 3	1/4 x 3
	Gas Pipe	ø, inch	3/8 x 2	3/8 x 2	3/8 x 2 + 1/2	3/8 + 1/2 x 2
Piping Length	Total Piping Length	m	30	30	50	50
	Min/Max	m	3/25	3/25	3/25	3/25
Piping Height	Max Height (ID-ID)	m	7.5	7.5	7.5	7.5
	Max Height (OD-ID)	m	15	15	15	15

Outdoor Unit			AJ080TXJ4KG/EU	AJ100TXJ5KG/EU
Maximum number of connectable indoor units			4	5
<b>Capacity</b>				
Capacity	Cooling (Nominal)	kW	8.0	10.0
	Heating @ +7 °C	kW	9.3	12.0
	Heating @ -5 °C	kW	7.00	9.03
	Heating @ -10 °C	kW	5.97	7.70
	Heating @ -15 °C	kW	4.94	6.38
<b>Performance</b>				
Energy Efficiency Cooling	SEER <sup>1</sup>	W/W	7.75	8.00
	Power Consumption	kWh/a	330	TBA
	Pdesignc	kW	7.3	TBA
	EER	W/W	4.06	3.64
Energy Efficiency Heating	SCOP <sup>1</sup>	W/W	4.10	4.32
	Power Consumption	kWh/a	2,009	TBA
	Pdesignh (average)	kW	5.9	TBA
	COP <sup>1</sup>	W/W	4.37	4.26
Airflow Rate	m <sup>3</sup> /min	47.5	75.0	
Sound Power	dB(A)	64	70	
Sound Pressure	Cooling	dB(A)	48	54
	Heating	dB(A)	50	56
Fan	Type		Propeller Fan	Propeller Fan
	Discharge direction		Front (horizontal)	Front (horizontal)
	Power	W	125	125
	Number of Fans	-	1	1
Operating Temperature Range	Cooling	°C	-10.0~46.0	-10.0~46.0
	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
Compressor Type			Twin BLDC Rotary	Twin BLDC Rotary
Power Consumption	Cooling	kW	1.97	2.75
	Heating	kW	2.13	2.82
Operating Current	Cooling	A	8.9	12.2
	Heating	A	9.5	12.8
<b>Dimensions</b>				
Net Dimensions (W x H x D)	mm		880 x 798 x 310	940 x 998 x 330
Net Weight	kg		57.5	76.5
<b>Refrigerant</b>				
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)	
Refrigerant	Factory Charging	kg	2.00	2.70
	Chargeless Piping Length	m	40.0	40.0
	Charging Ton equivalent CO <sub>2</sub>	tCO <sub>2</sub> e	1.35	1.82
	Additional Refrigerant Charging	g/m	10	10
Piping Connections	Liquid Pipe	ø, inch	1/4 x 4	1/4 x 5
	Gas Pipe	ø, inch	3/8 x 2 + 1/2 x 2	3/8 x 2 + 1/2 x 3
Piping Length	Total Piping Length	m	70	75
	Min/Max	m	3/25	3/25
Piping Height	Max Height (ID-ID)	m	7.5	7.5
	Max Height (OD-ID)	m	15	15

<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+++.

# Specifications

## Wind-Free™ Avant R32

- 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.



Indoor Unit			AR07XEAAWKNEU	AR09XEAAWKNEU	AR12XEAAWKNEU	AR18XEAAWKNEU
<b>Capacity</b>						
Capacity	Cooling	kW	2.0	2.5	3.5	5.0
	Heating @ +7 °C	kW	2.2	3.2	4.0	6.0
<b>Performance</b>						
Moisture Removal		l/h	TBA	1.0	1.5	2.0
Airflow Rate		m <sup>3</sup> /min	10.7	9.5	10.5	15.7
Sound Power	Cooling	dB(A)	56	57	57	58
Sound Pressure	H/L	dB(A)	37/19	38/16	40/16	41/25
<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	40	40	40	40
	Heating	W	40	40	40	40
Current Input	Cooling	A	0.4	0.4	0.4	0.4
	Heating	A	0.4	0.4	0.4	7.8
<b>Dimensions</b>						
Net Dimensions (W x H x D)		mm	828 x 267 x 265	828 x 267 x 265	828 x 267 x 265	1,065 x 301 x 311
Net Weight		kg	9.4	9.4	9.4	13.2
<b>Refrigerant</b>						
Piping Connections	Liquid Pipe	ø, inch	1/4	1/4	1/4	1/4
	Gas Pipe	ø, inch	3/8	3/8	3/8	1/2
Piping Connections	Drain Pipe	ø, mm	ID 16	ID 16	ID 16	ID 16
<b>Functions</b>						
Airflow	Wind-Free™ 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	88 Display	●	●	●	●
	Display On/Off		●	●	●	●
	Beep On/Off		●	●	●	●
	Auto Changeover		●	●	●	●
Auto Restart		●	●	●	●	

AR24XEAAWKNEU			
<b>Capacity</b>			
Capacity	Cooling	kW	6.5
	Heating @ +7 °C	kW	7.4
<b>Performance</b>			
Moisture Removal		l/h	2.5
Airflow Rate		m <sup>3</sup> /min	17.6
Sound Power	Cooling	dB(A)	62
Sound Pressure	H/L	dB(A)	45/26
<b>Electrical Data</b>			
Power Source		Φ, V, Hz	1Φ, 220-240 V, 50 Hz
Power Consumption	Cooling	W	40
	Heating	W	40
Current Input	Cooling	A	0.4
	Heating	A	0.4
<b>Dimensions</b>			
Net Dimensions (W x H x D)		mm	1,065 x 301 x 311
Net Weight		kg	13.4
<b>Refrigerant</b>			
Piping Connections	Liquid Pipe	ø, inch	1/4
	Gas Pipe	ø, inch	5/8
Piping Connections	Drain Pipe	ø, mm	ID 16
<b>Functions</b>			
Airflow	Wind-Free™ Cooling		●
	Air Direction Control (Up/Down)		Auto
	Air Direction Control (Left/Right)		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	88 Display	●
	Display On/Off		●
	Beep On/Off		●
	Auto Changeover		●
Auto Restart		●	

Accessory



Wireless Remote Controller (included)