

**SAMSUNG**

# FJM

# Technical Data Book

**Free Joint Multi for Europe  
(R32, 50Hz, HP)**

**KASETA-4**



Model : Outdoor unit (AJ\*\*\*TXJ\*KG/EU)

Indoor unit (Wall-mounted, Wind-Free 1Way Cassette, Wind-Free 4Way Cassette(600x600), Duct, Console)

# Nomenclature

## Indoor Unit

1Way Cassette, 4Way Cassette(600x600), Duct, Console Type

Model Name

<b>AJ</b>	<b>026</b>	<b>R</b>	<b>B</b>	<b>1</b>	<b>D</b>	<b>E</b>	<b>G</b>	/	<b>EU</b>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

### (1) Classification

<b>AC</b>	CAC
<b>AM</b>	DVM
<b>AJ</b>	FJM (Free Joint Multi)
<b>AE</b>	EHS

### (2) Capacity

X1/ 10 kW(3 digits)
---------------------

### (3) Version

<b>R</b>	2019
<b>T</b>	2020
<b>A</b>	2021
<b>B</b>	2022

### (4) Product Type

<b>S</b>	SET (NASA)
<b>N</b>	Indoor Unit (NASA)
<b>X</b>	Outdoor Unit (NASA)
<b>A</b>	SET (Non NASA)
<b>B</b>	Indoor Unit (Non NASA)
<b>C</b>	Outdoor Unit (Non NASA)

### (5) Product Notation

<b>1</b>	(Wind-Free) 1Way Cassette
<b>N</b>	(Wind-Free) 4Way Cassette (600x600)
<b>L</b>	Slim Duct
<b>M</b>	MSP Duct
<b>J</b>	Console

### (6) Feature

<b>D</b>	DELUXE
<b>P</b>	Premium

### (7) Rating Voltage







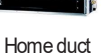
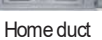
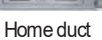
<b>A</b>	115V, 60Hz
<b>B</b>	220V, 60Hz
<b>C</b>	208~230V, 60Hz
<b>D</b>	200~220V, 50Hz
<b>E</b>	220~240V, 50Hz
<b>K</b>	220~240V, 50/60Hz

### (8) Mode

<b>C</b>	Cooling Only (R410A)
<b>H</b>	Heat Pump (R410A)
<b>F</b>	Cooling Only (R32)
<b>G</b>	Heat Pump (R32)

# 1. Line-up

## 1-3. Combination Table (Outdoor-Indoor)

Indoor Unit		Outdoor Unit		Model		Model		Model		Model	
		Model	Capacity (kW)	AJ040TXJ2KG/EU	AJ050TXJ2KG/EU	AJ052TXJ3KG/EU	AJ068TXJ3KG/EU	AJ080TXJ4KG/EU	AJ100TXJ5KG/EU		
 AR4500 (AIRSE)	AR07/09/ 12/ 18/ 24TXHZAWKNEU	2.0	●	●	●	●	●	●	●		
		2.5	●	●	●	●	●	●	●		
		3.5	●	●	●	●	●	●	●		
		5.0		●	●	●	●	●	●		
 AR5500 (GEO)	AR07/09/ 12/ 18/ 24TXFYAWKNEU	2.0	●	●	●	●	●	●	●		
		2.5	●	●	●	●	●	●	●		
		3.5	●	●	●	●	●	●	●		
		5.0		●	●	●	●	●	●		
 AR9500 (Wind-Free AIRSE)	AR07/09/ 12/ 18/ 24TXFCAWKNEU	2.0	●	●	●	●	●	●	●		
		2.5	●	●	●	●	●	●	●		
		3.5	●	●	●	●	●	●	●		
		5.0		●	●	●	●	●	●		
 AR9500 (Wind-Free GEO)	AR07/09/ 12/ 18/ 24TXEAAWKNEU	2.0	●	●	●	●	●	●	●		
		2.5	●	●	●	●	●	●	●		
		3.5	●	●	●	●	●	●	●		
		5.0		●	●	●	●	●	●		
	AR07/09/ 12TXCAAWKNEU	2.0	●	●	●	●	●	●	●		
		2.5	●	●	●	●	●	●	●		
		3.5	●	●	●	●	●	●	●		
	AR07/09/ 12CXCAAWKNEU	2.0	●	●	●	●	●	●	●		
		2.5	●	●	●	●	●	●	●		
		3.5	●	●	●	●	●	●	●		
	 Wind-Free 1Way CASSETTE	AJ026/035TN1DKG/EU	2.6	●	●	●	●	●	●		
			3.5	●	●	●	●	●	●		
 Wind-Free 4Way CASSETTE (600x600)	AJ016/020/026/035/052TNNDKG/EU	1.6		●	●	●	●	●			
		2.0		●	●	●	●	●			
		2.6		●	●	●	●	●			
		3.5		●	●	●	●	●			
		5.2				●	●	●			
 Home duct	AJ026/035TNL*EG/EU	2.6		●	●	●	●	●			
		3.5		●	●	●	●	●			
 Home duct	AJ052BNMDEG/EU	5.2				●	●	●			
 Home duct	AJ052TNMDEG/EU	5.2				●	●	●			

# 2. Specification

## 2-2. Indoor units

(Wind-Free) 4Way Cassette (600x600)

Type				(Wind-Free) 4Way Cassette (600x600)	(Wind-Free) 4Way Cassette (600x600)	(Wind-Free) 4Way Cassette (600x600)
Model Name				AJ016TNNDKG/ EU	AJ020TNNDKG/ EU	AJ026TNNDKG/ EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode				-	HP	HP
Performance	Capacity	Cooling	kW	1.60	2.00	2.60
			Btu/h	5,500	6,800	8,900
		Heating	kW	2.00	2.20	2.90
			Btu/h	6,800	7,500	9,900
Power	Power Input	Cooling	W	19.00	19.00	19.00
		Heating		19.00	19.00	19.00
	Current Input	Cooling	A	0.51	0.51	0.51
		Heating		0.51	0.51	0.51
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		EA	1	1	1
	Air Flow Rate		m <sup>3</sup> /min	9.0 / 8.2 / 6.9	9.0 / 8.2 / 6.9	9.0 / 8.2 / 6.9
			l/s	150 / 137 / 115	150 / 137 / 115	150 / 137 / 115
	External Static pressure	Max. (Min/ Std/ Max)	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Wiring connections	Communication	Min.	mm <sup>2</sup>	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	33 / 29 / 24	33 / 29 / 24	33 / 29 / 24
	Sound Power	Cooling		49	49	49
External Dimension	Net Weight		kg	11.5	11.5	11.5
	Shipping Weight		kg	13.5	13.5	13.5
	Net Dimensions (W×H×D)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
	Shipping Dimensions (W×H×D)		mm	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653
Casing	Material		-	Polypropylene	Polypropylene	Polypropylene

## 2. Specification

Type			(Wind-Free) 4Way Cassette (600x600)	(Wind-Free) 4Way Cassette (600x600)	(Wind-Free) 4Way Cassette (600x600)
Model Name			AJ016TNNDKG/ EU	AJ020TNNDKG/ EU	AJ026TNNDKG/ EU
Panel 1	Model Name	-	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
	Type	-	Wind-Free	Wind-Free	Wind-Free
	Material	-	HIPS	HIPS	HIPS
	Color	-	DA White	DA White	DA White
	Net Weight	kg	2.7	2.7	2.7
	Shipping Weight	kg	3.9	3.9	3.9
	Net Dimensions (W×H×D)	mm	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620
	Shipping Dimensions (W×H×D)	mm	670 x 120 x 655	670 x 120 x 655	670 x 120 x 655
Panel 2	Model Name	-	PC4SUSMBN	PC4SUSMBN	PC4SUSMBN
	Type	-	Normal (Waffle Type)	Normal (Waffle Type)	Normal (Waffle Type)
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	2.7	2.7	2.7
	Shipping Weight	kg	3.5	3.5	3.5
	Net Dimensions (W×H×D)	mm	620 x 45 x 620	620 x 45 x 620	620 x 45 x 620
	Shipping Dimensions (W×H×D)	mm	667 x 102 x 655	667 x 102 x 655	667 x 102 x 655
Drain pump	Drain pump	-	Included	Included	Included
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24
Additional Accessories	Drain pump	External Model	-	-	-
		Internal Model	-	-	-
		Max. lifting Height / Displacement	mm / liter/h	-	-
	Air Filter	-	Option (Removable / Washable)	Option (Removable / Washable)	Option (Removable / Washable)

### NOTE

- Specifications may be subject to change without prior notice.
- 1)\* Capacities are based on (Equivalent refrigerant piping : 5m, Level differences : 0m)
  - Cooling : Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
  - Heating : Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- 2)\* Select wire size based on the value of MCA
- 3)\* Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20uPa
- 4)\* Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level
  - Reference power : 1pW
  - Measured according to ISO 3741
- 5)\* These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

# 2. Specification

## 2-2. Indoor units

(Wind-Free) 4Way Cassette (600x600)

Type				(Wind-Free) 4Way Cassette (600x600)	(Wind-Free) 4Way Cassette (600x600)	
Model Name				AJ035TNNDKG EU	AJ052TNNDKG EU	
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
Mode			-	HP	HP	
Performance	Capacity	Cooling	kW	3.50	5.20	
			Btu/h	11,900	17,700	
		Heating	kW	3.80	5.60	
			Btu/h	13,000	19,100	
Power	Power Input	Cooling	W	22.00	28.00	
		Heating		22.00	28.00	
	Current Input	Cooling	A	0.52	0.53	
		Heating		0.52	0.53	
Heat exchanger	Type	-	-	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
	Fin Treatment	-	-	Green Hydrophile	Green Hydrophile	
Fan	Type	-	-	Turbo Fan	Turbo Fan	
	Quantity	-	EA	1	1	
	Air Flow Rate	-	m <sup>3</sup> /min	10.5 / 9.0 / 7.4	10.5 / 9.0 / 7.4	
		-	l/s	175 / 150 / 123	175 / 150 / 123	
	External Static pressure	Max. (Min/ Std/ Max)	-	mmAq	-	-
			-	Pa	-	-
Fan Motor	Type	-	-	BLDC Motor	BLDC Motor	
	Output x n	-	W	65 x 1	65 x 1	
Piping Connections	Liquid Pipe	Type	-	Flare connection	Flare connection	
		Φ, mm (inch)	-	6.35 (1/4)	6.35 (1/4)	
	Gas Pipe	Type	-	Flare connection	Flare connection	
		Φ, mm (inch)	-	9.52 (3/8)	12.7 (1/2)	
	Heat Insulation	-	-	Both liquid and gas pipes	Both liquid and gas pipes	
Drain Pipe	-	Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)		
Wiring connections	Communication	Min.	mm <sup>2</sup>	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type	-	-	R32	R32	
	Electronic Expansion Valve	-	-	EEV NOT INCLUDED	EEV NOT INCLUDED	
Sound	Sound Pressure	H/M/L	dB(A)	35 / 31 / 27	39 / 36 / 32	
	Sound Power	Cooling		53	55	
External Dimension	Net Weight		kg	11.5	11.8	
	Shipping Weight		kg	13.5	13.8	
	Net Dimensions (W×H×D)		mm	575 x 250 x 575	575 x 250 x 575	
	Shipping Dimensions (W×H×D)		mm	623 x 298 x 653	623 x 298 x 653	
Casing	Material		-	Polypropylene	Polypropylene	

## 2. Specification

Type		(Wind-Free) 4Way Cassette (600x600)	(Wind-Free) 4Way Cassette (600x600)
Model Name		AJ035TNNDKG/ EU	AJ052TNNDKG/ EU
Panel 1	Model Name	-	PC4SUFMAN
	Type	-	Wind-Free
	Material	-	HIPS
	Color	-	DA White
	Net Weight	kg	2.7
	Shipping Weight	kg	3.9
	Net Dimensions (W×H×D)	mm	620 x 57 x 620
	Shipping Dimensions (W×H×D)	mm	670 x 120 x 655
Panel 2	Model Name	-	PC4SUSMBN
	Type	-	Normal (Waffle Type)
	Material	-	HIPS
	Color	-	White
	Net Weight	kg	2.7
	Shipping Weight	kg	3.5
	Net Dimensions (W×H×D)	mm	620 x 45 x 620
	Shipping Dimensions (W×H×D)	mm	667 x 102 x 655
Drain pump	Drain pump	-	Included
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24
Additional Accessories	Drain pump	External Model	-
		Internal Model	-
		Max. lifting Height / Displacement	mm / liter/h
	Air Filter	-	Option (Removable / Washable)

### NOTE

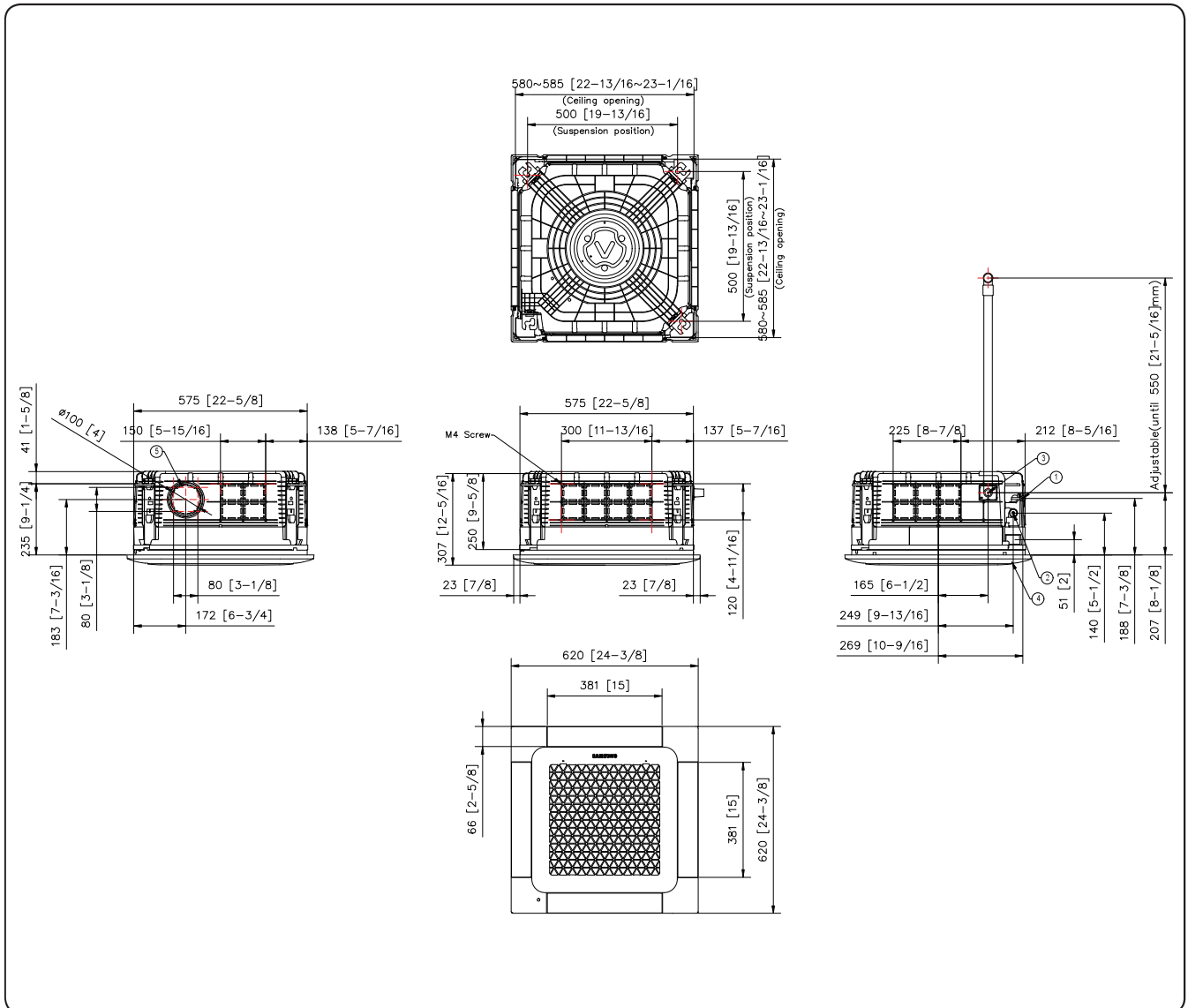
- Specifications may be subject to change without prior notice.
- 1)\* Capacities are based on (Equivalent refrigerant piping : 5m, Level differences : 0m)
  - Cooling : Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB
  - Heating : Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB
- 2)\* Select wire size based on the value of MCA
- 3)\* Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A-weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20uPa
- 4)\* Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level
  - Reference power : 1pW
  - Measured according to ISO 3741
- 5)\* These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

# 5. Dimensional Drawing

## 5-2. Indoor unit

5 Wind-Free 4Way Cassette (600x600) : AJ016TNNDKG/ EU, AJ020TNNDKG/ EU, AJ026TNNDKG/ EU, AJ035TNNDKG/ EU, AJ052TNNDKG/ EU

Units : mm [inches]



NO	Name	Description				
		1.6 kW	2.0 kW	2.6 kW	3.5 kW	5.2 kW
1	Liquid pipe connection	Φ6.35 (1/4)				
2	Gas pipe connection	Φ9.52 (3/8)				Φ12.7(1/2)
3	Drain pipe connection	VP-25 (OD 32 mm, ID 25 mm)				
4	Power & Communication wiring conduit	-				
5	Knock hole for Fresh air intake	Φ101(4), Use M4 Screw				

### NOTE

- As for suspension bolt, please use M10. (Produced at local site)