

SAMSUNG

Smart Airconditioning Solutions



FREE JOINT MULTI (FJM) Multi Room Air Conditioner Solution



- **High Efficiency:** Featuring a suite of energy-optimising technologies, the Samsung FJM delivers top-class efficiency to help businesses and residential properties reduce costs and protect the environment.
- **Easy installation:** Installation is a breeze with Samsung FJM units, thanks to the compact size, 5-port design and auto addressing.
- **Reliable performance:** The twin rotary BLDC compressor ensures comfortable and reliable performance throughout the year.
- **Silent comfort:** Innovative sine wave controller technology combined with double-layered sound insulation means Samsung FJM units produce less sound, without sacrificing power.
- **Compact size:** The small dimensions of the FJM outdoor unit make it simple to install, so it can fit into more places.
- **Connect to more indoor units than ever:** The FJM's 5 port design means that a single outdoor unit can be connected to up to five indoor units, so you can keep the building exterior clean and neat.
- **Easy one-touch setup:** The FJM system features auto addressing, allowing you to connect multiple indoor units with one touch. This mode enables the outdoor unit to automatically check the connections and gives the address numbers of connected indoor units, simplifying the set-up process.

Samsung Free Joint Multi Range (FJM)

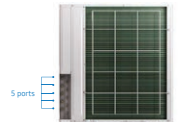
Samsung Free Joint Multi (FJM) Air Conditioning systems are designed to be flexible – allowing you to heat or cool multiple areas in your home from the one air conditioning system. An FJM System consists of three main components: an outdoor unit, compatible indoor unit(s) and a controller.* The flexibility of our FJM systems means that you can have up to 5 indoor units connected to a singular outdoor unit. They are compatible with a variety of indoor types, so you can choose the combination that suits you best. You can also set different temperatures on each indoor unit.

Model Code		AJ040TXJ2KH/EA	AJ050TXJ2KH/EA	AJ068TXJ3KH/EA	AJ080TXJ4KH/EA	AJ100TXJ5KH/EA	AJ125TXJ5KH/EA	AJ140TXJ5KH/EA
Power Supply (Outdoor Unit) [Ø, #, V, Hz]		1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60
System	Mode	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Capacity	Cooling [kW]	4.0 kW	5.0 kW	6.8 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW
	Cooling [Btu/h]	13,600 Btu/h	17,100 Btu/h	23,200 Btu/h	27,300 Btu/h	34,100 Btu/h	42,600 Btu/h	47,700 Btu/h
	Heating [kW]	4.4 kW	5.7 kW	8.0 kW	9.0 kW	12.0 kW	13.5 kW	15.0 kW
	Heating [Btu/h]	15,000 Btu/h	19,400 Btu/h	27,300 Btu/h	30,700 Btu/h	40,900 Btu/h	46,000 Btu/h	51,100 Btu/h
Power Input (Nominal)	Cooling 1)	1.02 kW	1.32 kW	2.00 kW	2.38 kW	2.90 kW	3.95 kW	4.84 kW
	Heating 2)	0.99 kW	1.35 kW	1.91 kW	2.13 kW	2.93 kW	3.46 kW	4.28 kW
Current Input (Nominal)	Cooling 1)	4.7 A	6.0 A	9.2 A	10.9 A	13.3 A	18.1 A	22.1 A
	Heating 2)	4.5 A	6.2 A	8.7 A	9.7 A	13.4 A	15.8 A	19.6 A
Current	MCA [A]	9.3 A	11.9 A	15.2 A	18.2 A	25.0 A	34.0 A	34.0 A
	MFA [A]	10.6 A	13.8 A	17.5 A	20.8 A	28.8 A	40.0 A	40.0 A
Energy Efficiency	EER (Nominal Cooling)	3.92	3.79	3.40	3.36	3.45	3.16	2.89
	COP (Nominal Heating)	4.44	4.22	4.19	4.23	4.10	3.90	3.50
	Energy Grade (Cooling)	-	6.70(A++)	6.50(A++)	6.50(A++)	6.60(A++)	-	6.60(A++)
	Energy Grade (Heating)	-	4.01(A+)	4.00(A+)	3.90(A)	4.10(A+)	-	4.33(A+)
Compressor	Type	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Output(kW x n)	4,57	4,57	5,92	7,77	9,17	10,01	10,01
	Model	UG9TK3150FE4	UG9TK3150FE4	UG4T200FUA4	G8T260FUA4EW	UG8T300FUBJU	KTF310D43UMT	KTF310D43UMT
	Oil (Type)	POE	POE	POE	POE	PVE	ESTER OIL VG74	ESTER OIL VG74
	Oil (Initial Charge) [cc]	500 cc	500 cc	650 cc	700 cc	1200 cc	1000 cc	1000 cc
Fan	Type	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
	Motor (Output) [W]	40 W	40 W	125 W	125 W	125 W	125 W	125 W
	Air Flow Rate (High / Mid / Low)	34.5 CMM	34.5 CMM	55.4 CMM	55.4 CMM	72.7 CMM	94.0 CMM	94.0 CMM
	Air Flow Rate(High/Mid/Low)[L/S]	574	574	923	923	1,212	1,567	1,567
Piping Connections	Liquid Pipe (Ø,mm x EA)	6.35 x 2	6.35 x 2	6.35 x 3	6.35 x 4	6.35 x 5	6.35 x 5	6.35 x 5
	Liquid Pipe (Ø,inch x EA)	1/4 x 2	1/4 x 2	1/4 x 3	1/4 x 4	1/4 x 5	1/4 x 5	1/4 x 5
	Gas Pipe (Ø,mm x EA)	9.52 x 2	9.52 x 2	9.52 x 12.70 x 2	9.52 x 2 x 12.70 x 2	9.52 x 2 x 12.70 x 3	9.52 x 2 x 12.70 x 3	9.52 x 2 x 12.70 x 3
	Gas Pipe (Ø,inch x EA)	3/8 x 1/2	3/8 x 1/2	3/8 x 1/2 x 2	3/8 x 2 x 1/2 x 2	3/8 x 2 x 1/2 x 3	3/8 x 2 x 1/2 x 3	3/8 x 2 x 1/2 x 3
	Installation Max. Length [m]	30 m	30 m	50 m	70 m	70 m	70 m	70 m
	Installation Max. Height [m]	15 m	15 m	15 m	15 m	15 m	15 m	15 m
Field Wiring	Power Source Wire	2.5 ~ 2.5	2.5 ~ 2.5	2.5 ~ 2.5	2.5 ~ 2.5	4.0 ~ 4.0	4.0 ~ 4.0	4.0 ~ 4.0
	Transmission Cable	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Factory Charging (kg)	1.6 kg	1.6 kg	2.2 kg	2.8 kg	3.3 kg	3.8 kg	3.8 kg
	Factory Charging (tCO2e)	3.34 tCO2e	3.34 tCO2e	4.59 tCO2e	5.85 tCO2e	6.89 tCO2e	7.93 tCO2e	7.93 tCO2e
Sound	Sound Pressure	45 dBA	46 dBA	48 dBA	48 dBA	54 dBA	52 dBA	52 dBA
	Sound Power	60 dBA	61 dBA	64 dBA	64 dBA	70 dBA	70 dBA	70 dBA
External Dimension (Outdoor)	Net Weight(kg)	35.5 kg	36.0 kg	53.5 kg	57.5 kg	76.5 kg	87.5 kg	87.5 kg
	Shipping Weight (kg)	38.0 kg	38.5 kg	57.5 kg	62.0 kg	82.0 kg	99.0 kg	99.0 kg
	Net Dimensions (WxHxD) (mm)	790 x 548 x 285	790 x 548 x 285	880 x 798 x 310	880 x 798 x 310	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330
	Shipping Dimensions (WxHxD) (mm)	913 x 622 x 371	913 x 622 x 371	1,023 x 896 x 413	1,023 x 896 x 413	995 x 1,096 x 426	1,093 x 1,388 x 426	1,093 x 1,388 x 426
Operating Temp. Range	Cooling (°C)	-10.0 ~ 46.0 °C	-10.0 ~ 46.0 °C	-10.0 ~ 46.0 °C	-10.0 ~ 46.0 °C	-10.0 ~ 46.0 °C	-10.0 ~ 46.0 °C	-10.0 ~ 46.0 °C
	Heating (°C)	-15.0 ~ 24.0 °C	-15.0 ~ 24.0 °C	-15.0 ~ 24.0 °C	-15.0 ~ 24.0 °C	-15.0 ~ 24.0 °C	-15.0 ~ 24.0 °C	-15.0 ~ 24.0 °C
Smart	WiFi Kit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
App Connectivity	SmartThings App Support	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Connect to more indoor units than ever

The FJM's 5 port design means that a single outdoor unit can be connected to up to five indoor units, so you can keep the building exterior clean and neat.



Indoor Model



1 Way Cassette



WindFree™ 4 Way (600x600)



WindFree™ Wall-Mounted



Duct

Controls to meet your needs

MWR-WE13N
Standard Wired
Controller



AR-EH03E
Wireless
Controller



MIM-B14
External Contact
Interface Module



MWR-WG00JN
UX Wired
Controller



MWR-SH11N
LED Touch Screen
Wired Controller

