

Samsung Free Joint Multi Air Conditioning System



SAMSUNG



Air Conditioning solutions from a brand you can rely on

At the heart of family living is the home, a place full of special moments and wonderful memories where families live and grow in their own unique way.

At Samsung, we imagine all sorts of innovative ways to improve how your home functions and help it run smoothly – so you have more quality time for the joys of raising your family and looking after their well-being.

We're proud to say our Samsung brand is recognised as one of the world's leading intuitive and humanistic product design companies, and one of the world's top electronics producers.

Samsung air conditioners have been designed with the same passion for innovation and quality that has helped make Samsung one of the 2011 Best Global Brands*.

Samsung air conditioning systems are held in high esteem around the world and have been selected for a multitude of developments including shopping centres, airports, stadiums and hotels.

Samsung continues to invest heavily in R&D, performance testing and quality control to deliver quality air conditioning systems to market.



Our Samsung brand is recognised as one of the world's leading intuitive and humanistic product design companies, and one of the world's top electronics producers.

*Source: Best Global Brand 2011. Interbrand.



Free Joint Multi Air Conditioning System

Compact and powerful

Connect up to 5 indoor units to a single outdoor unit

The beauty of Samsung's Free Joint Multi Air Conditioning System (FJM) is that you can have up to 5 indoor units connected to just a single outdoor unit. This allows you to cool or heat multiple areas in your home from the same system.

Control indoor unit temperatures individually

With an FJM system you can set different temperatures on each indoor unit.* This means everyone can be comfortable in their own space.

*The system must run in either cooling or heating mode (any indoor units running are all either cooling or heating).

Combine indoor types and capacities to suit your home

An FJM system also supports a variety of combinations of indoor unit types and capacity sizes so you have the flexibility to choose the installation that best suits your home.

Looks good and saves space...

Using only 1 outdoor with multiple indoors saves space and improves the appearance of your home compared to single split types which require an outdoor for each indoor unit.

Talk to your installer

We recommend that you ask your licensed installer to confirm that this system is suitable for your building. They will consider factors such as refrigerant pipe length requirements.

Crowded and Space-Consuming
Multiple outdoor units

Neat and Simple
One outdoor unit



Single Split Type
(example shown with 3 indoor units)

FJM System
(with up to 5 indoor units)



Outdoor unit specifications



MODEL NAME			RJ040F2HXEAXSA	RJ050F2HXEAXSA	RJ060F3HXEAXSA	RJ070F4HXEAXSA	RJ080F4HXEAXSA	RJ100F5HXEAXSA		
Power Supply			Ø, #, V, Hz	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50	
Mode			-	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	
Performance	Capacity (Nominal)	Cooling ¹⁾	kW	4.0	5.0	5.9	7.0	8.0	10.0	
		Heating ²⁾	kW	4.4	5.7	6.3	8.6	9.3	12.0	
Power	Power Input (Nominal)	Cooling ¹⁾	W	1.11	1.43	1.60	1.90	2.30	2.90	
		Heating ²⁾		1.02	1.36	1.40	2.00	2.20	2.93	
	Current Input (Nominal)	Cooling ¹⁾	A	5.10	6.50	7.30	8.70	10.50	13.30	
		Heating ²⁾		4.70	6.20	6.40	9.20	10.10	13.40	
Energy Efficiency	EER (Outdoor Only) ¹⁾		-	3.6	3.51	3.69	3.68	3.48	3.45	
	COP (Outdoor Only) ²⁾		-	4.31	4.19	4.50	4.30	4.23	4.10	
Compressor	Type		-	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	Inverter Twin Rotary	
Fan	Air Flow Rate		l/s	506	551	683	746	756	551	
Piping Connections	Liquid Pipe	Ø mm		6.35 x 2	6.35 x 2	6.35 x 3	6.35 x 4	6.35 x 4	6.35 x 5	
		Ø inch		1/4 x 2	1/4 x 2	1/4 x 3	1/4 x 4	1/4 x 4	1/4x5	
	Gas Pipe	Ø mm		9.52 x 2	9.52 x 1 + 12.7 x 1	9.52 x 2 + 12.7 x 1	9.52 x 2 + 12.7 x 2	9.52 x 2 + 12.7 x 2	9.52 x 2 + 12.7 x 3	
		Ø inch		3/8 x 2	3/8 x 1 + 1/2 x 1	3/8 x 2 + 1/2 x 1	3/8 x 2 + 1/2 x 2	3/8 x 2 + 1/2 x 2	3/8 x 2 + 1/2 x 3	
	Installation Limitation	Total Piping Length		m	30.0	30.0	45.0	70.0	70.0	80.0
		Max Length (Outdoor to Indoors)		m	20.0	20.0	20.0	25	25	25.0
Max Height (Between indoors)		m	7.5	7.5	7.5	7.5	7.5	7.5		
Max Height (Between ID/OD)		m	15.0	15.0	15.0	15.0	15.0	15.0		
Refrigerant	Type		-	R410A	R410A	R410A	R410A	R410A	R410A	
	Factory Charging		kg	1.3 (Charged for 15m)	1.6 (Charged for 20m)	2.2 (Charged for 30m)	2.8 (Charged for 40m)	2.8 (Charged for 40m)	3.3 (Charged for 40m)	
Sound ³⁾	Sound Pressure		dB (A)	47	48	48	49	50	52	
Dimensions	Net Weight		kg	35	39	59	65	65	74.5	
	Shipping Weight		kg	38	42	63	70	70	80	
	Net Dimensions (W×H×D)		mm	790x545x285	790x545x285	880x798x310	880x798x310	880x798x310	940x998x330	
	Shipping Dimensions (W×H×D)		mm	926x599x382	926x599x382	1,023x889x413	1,023x889x413	1,023x889x413	995x1,096x426	
Operating Temp. Range	Cooling		°C	-5~46	-5~46	-5~46	-5~46	-5~46	-10~46	
	Heating		°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	

1) Nominal cooling capacities are based on; Indoor temperature: 27°C DB, 19°C WB/Outdoor temperature: 35°C DB, Equivalent refrigerant piping: 5m(4/5kW), 7.5m(6/7/8kW), 5m(10kW) Level differences: 0m

2) Nominal heating capacities are based on; Indoor temperature: 20°C DB, 15°C WB/Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m(4/5kW), 7.5m(6/7/8kW), 5m(10kW), Level differences: 0m

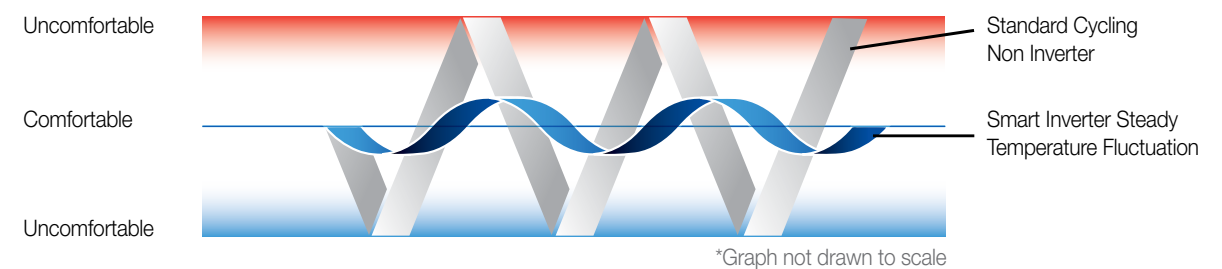
3) Sound level was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.



FJM Smart Inverter technology

Intelligent and effective

Samsung's Smart Inverter technology helps to maintain the ideal temperature without constantly shutting off and switching on the compressor. It automatically adjusts the capacity of the system to cope with any temperature variances, helping to ensure that you experience minimal temperature fluctuation for optimal comfort.



Comfortable and reliable

Samsung FJM systems are designed to keep on working, even on those extremely hot or cold days. With an operating range of -5°C to 46°C outside air temperature for cooling, and -15°C to 24°C for heating, you can rest assured that your unit will work when you need it the most.

*Whilst the unit will keep running up to 46°C for cooling, as the outside temperature rises above 35°C , the cooling capacity will reduce. Similarly for heating, the capacity begins to reduce below 7°C .

 -15°C to  46°C
Outside air temperature

An indoor unit to suit every home

Samsung's FJM air conditioning system supports a variety of indoor units. With a choice of wall mounted, cassette, ducted and console style indoor units, you can configure your air conditioning to perfectly match your needs.

Maldives Wall Mounted

Samsung Maldives Wall Mounted indoor units provide year round comfort for both summer and winter while offering great features such as HD80 Filtration and Good Sleep Mode.



Good Sleep Mode

Automatically adjusts the temperature to create the most ideal temperature which may help you fall asleep, maintain a comfortable sleep environment and awake refreshed.

Good Sleep operation in Cooling:

1. Falling Asleep Stage: Eases you into sleep by dropping the temperature.
2. Sound Sleep Stage: Relaxes your body and raises the temperature slightly.
3. Wake up stage: The temperature will automatically rise in order to increase your body temperature for a refreshing start to the day.



HD80 Filtration

As well as cooling and heating, air conditioning units can improve the general quality of the air in your room. Samsung has designed our New High Density (HD) Filtration system with the opening size in the filter being a third of the opening size in Samsung's previous range of air conditioners. This may assist in reducing the dust levels in the room.



Turbo Cooling

Operates the unit at its maximum speed to quickly reach the set temperature.



Smart Mode

Enables the air conditioner's compressor to operate at a reduced intensity when the air conditioner is not required to be run at maximum cooling/heating capacity.



Quiet Mode

In Quiet Mode, the system will run at low fan speed to reduce noise levels when that quiet time is needed.



Auto Clean Indoor Coil

Runs the fan for a certain amount of time after the air conditioner stops. This helps to dry off the moisture within the unit.

Easy to use remote



- 24-Hour Timer
- Auto Air Direction (Up/Down)
- Adjustable Air Direction (Left/Right)
- Auto Mode
- Fan mode
- Auto Restart



Maldives Wall Mounted specifications



MODEL NAME				NJ020DHXEA/XSA	NJ025DHXEA/XSA	NJ035DHXEA/XSA	NJ050DHXEA/XSA	NJ068DHXEA/XSA
Power Supply		Ø, #, V, Hz		1,2,220~240,50	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50
Mode		–		Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
Performance	Capacity (Nominal)	Cooling ¹⁾	kW	2.0	2.5	3.5	5.0	6.8
		Heating ²⁾	kW	2.2	3.3	4.0	6.0	7.8
Power	Power Input (Nominal)	Cooling ¹⁾	W	30	50	50	40	60
		Heating ²⁾		30	50	50	40	60
	Current Input (Nominal)	Cooling ¹⁾	A	0.18	0.4	0.4	0.30	0.45
		Heating ²⁾		0.18	0.4	0.4	0.30	0.45
Fan	Air Flow Rate	High/Mid/Low	l/s	131/116/101	156/145/131	168/150/131	236/205/186	296/238/176
Piping Connections	Liquid Pipe		Ø mm	6.35	6.35	6.35	6.35	6.35
			Ø inch	1/4	1/4	1/4	1/4	1/4
	Gas Pipe		Ø mm	9.52	9.52	9.52	12.7	15.88
			Ø inch	3/8	3/8	3/8	1/2	5/8
Refrigerant	Type	–		R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure	High/Low	dBA	36/21	36/21	38/21	40/30	41/30
Dimensions	Net Weight		kg	9	9	9	13	13
	Shipping Weight		kg	11	11	11	16	16
	Net Dimensions (WxHxD)		mm	820x286x205	820x286x205	820x286x205	1,065x230x298	1,065x230x298
	Shipping Dimensions (WxHxD)		mm	892x355x263	892x355x263	892x355x263	1,137x377x299	1,137x377x299
Additional Accessories	Air Filter		–	Full HD Filter 80	Full HD Filter 80	Full HD Filter 80	Full HD Filter 80	Full HD Filter 80

The above specifications also apply to the following models with corresponding capacity: Aqv07PSBNXSA (2kW), Aqv09PSBNXSA (2.5kW), Aqv12PSBNXSA (3.5kW), Aqv18PSBNXSA (5.0kW), Aqv24PSBNXSA (6.8kW).
 1) Nominal cooling capacities are based on; Indoor temperature: 27°C DB, 19°C WB/Outdoor temperature: 35°C DB, Equivalent refrigerant piping: 5m, Level differences: 0m

2) Nominal heating capacities are based on; Indoor temperature: 20°C DB, 15°C WB/Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0m
 3) Sound level was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.



1 Way Cassette



A Samsung 1 Way Cassette indoor unit is a stylish alternative to a wall hung one. The unit is installed unobtrusively in the ceiling leaving wall space free for art or photographs and giving a clean look to the room. They are typically installed on the edges of a room.

Choose from a wireless remote controller or premium backlit LCD wired controller.



MODEL NAME			NJ0261HXEA/XSA	NJ0351HXEA/XSA	
Power Supply			Ø, #, V, Hz	1,2,220~240,50	1,2,220~240,50
Mode			-	Reverse Cycle	Reverse Cycle
Performance	Capacity (Nominal)	Cooling ¹⁾	kW	2.6	3.5
		Heating ²⁾	kW	2.9	3.8
Power	Power Input (Nominal)	Cooling ¹⁾	W	45	50
		Heating ²⁾		45	50
	Current Input (Nominal)	Cooling ¹⁾	A	0.23	0.25
		Heating ²⁾		0.23	0.25
Fan	Air Flow Rate	High/Mid/Low	l/s	103/-/-	126/-/-
Piping Connections	Liquid Pipe	Ø mm		6.35	6.35
		Ø inch		1/4	1/4
	Gas Pipe	Ø mm		9.52	9.52
		Ø inch		3/8	3/8
Refrigerant	Type	-	R410A	R410A	
Sound	Sound Pressure	High/Low	dB(A)	30/25	32/27
Dimensions	Net Weight		kg	11	11
	Shipping Weight		kg	14	14
	Net Dimensions (WxHxD)		mm	970x135x410	970x135x410
	Shipping Dimensions (WxHxD)		mm	1,164x212x478	1,164x212x478
	Panel Model		-	PSSMA	PSSMA
Panel Size	Panel Net Weight		kg	3	3
	Shipping Weight		kg	5	5
	Net Dimensions (WxHxD)		mm	1,180x25x460	1,180x25x460
	Shipping Dimensions (WxHxD)		mm	1,259x144x539	1,259x144x539
	Additional Accessories	Drain Pump	Drain Pump	-	Built-in
Max. lifting Height/ Displacement			mm/litres/hr	750/24	750/24

- 1) Nominal cooling capacities are based on; Indoor temperature: 27°C DB, 19°C WB/Outdoor temperature: 35°C DB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
 2) Nominal heating capacities are based on; Indoor temperature: 20°C DB, 15°C WB/Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
 3) Sound level was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

Mini 4 Way Cassette



Mini 4 Way Cassettes are similar to a 1 way cassette in that they also are installed unobtrusively in the ceiling, however the air is distributed in up to 4 directions. They are typically installed in the centre of a room.

Choose from a wireless remote controller or premium backlit LCD wired controller.



MODEL NAME			MH030FMEA/XSA	MH035FMEA/XSA	MH052FMEA/XSA
Power Supply			Ø, #, V, Hz	1,2,220~240,50	1,2,220~240,50
Mode			-	Reverse Cycle	Reverse Cycle
Performance	Capacity (Nominal)	Cooling ¹⁾	kW	3	3.5
		Heating ²⁾	kW	3.4	3.8
Power	Power Input (Nominal)	Cooling ¹⁾	W	85	85
		Heating ²⁾		85	85
	Current Input (Nominal)	Cooling ¹⁾	A	0.37	0.37
		Heating ²⁾		0.37	0.37
Fan	Air Flow Rate	High/Mid/Low	l/s	180/-/-	180/-/-
Piping Connections	Liquid Pipe	Ø mm		6.35	6.35
		Ø inch		1/4	1/4
	Gas Pipe	Ø mm		9.52	9.52
		Ø inch		3/8	3/8
Refrigerant	Type	-	R410A	R410A	
Sound	Sound Pressure	High/Low	dB(A)	30/25	34/27
Dimensions	Net Weight		kg	17	17
	Shipping Weight		kg	20	20
	Net Dimensions (WxHxD)		mm	575x260x575	575x260x575
	Shipping Dimensions (WxHxD)		mm	660x310x635	660x310x635
	Panel Model		-	PMSMA	PMSMA
Panel Size	Panel Net Weight		kg	3.5	3.5
	Shipping Weight		kg	6.2	6.2
	Net Dimensions (WxHxD)		mm	670x35x670	670x35x670
	Shipping Dimensions (WxHxD)		mm	717x93x717	717x93x717
	Additional Accessories	Drain Pump	Drain Pump	-	Built-in
Max. lifting Height/ Displacement			mm/litres/hr	750/24	750/24

- 1) Nominal cooling capacities are based on; Indoor temperature: 27°C DB, 19°C WB/Outdoor temperature: 35°C DB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
 2) Nominal heating capacities are based on; Indoor temperature: 20°C DB, 15°C WB/Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
 3) Sound level was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

Floor Standing Console



A Floor Standing Console is installed at floor level, usually against a wall or in a recessed space.

Wireless remote controller included. Optional premium backlit LCD wired controller available.



MODEL NAME			MH026FJEA/XSA	MH035FJEA/XSA	
Power Supply		Ø, #, V, Hz	1,2,220~240,50	1,2,220~240,50	
Mode		-	Reverse Cycle	Reverse Cycle	
Performance	Capacity (Nominal)	Cooling ¹⁾	kW	2.6	3.5
		Heating ²⁾	kW	2.9	3.8
Power	Power Input (Nominal)	Cooling ¹⁾	W	30	35
		Heating ²⁾		30	35
	Current Input (Nominal)	Cooling ¹⁾	A	0.25	0.29
		Heating ²⁾		0.25	0.29
Fan	Air Flow Rate	High/Mid/Low	l/s	150/-/-	175/-/-
Piping Connections	Liquid Pipe	Ø mm	6.35	6.35	
		Ø inch	1/4	1/4	
	Gas Pipe	Ø mm	9.52	9.52	
		Ø inch	3/8	3/8	
Refrigerant	Type	-	R410A	R410A	
Sound	Sound Pressure	High/Low	dBA	28/23	39/24
Dimensions	Net Weight		kg	15	15
	Shipping Weight		kg	19	19
	Net Dimensions (WxHxD)		mm	720x620x199	720x620x199
	Shipping Dimensions (WxHxD)		mm	810x710x295	810x710x295

- 1) Nominal cooling capacities are based on; Indoor temperature: 27°C DB, 19°C WB/Outdoor temperature: 35°C DB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
- 2) Nominal heating capacities are based on; Indoor temperature: 20°C DB, 15°C WB/Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
- 3) Sound level was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

Slim Ducted and MSP Ducted



A ducted indoor unit is installed out of sight, normally in the roof or ceiling cavity. The air is distributed into a room through unobtrusive vents.

Standard wired controller included. Optional premium backlit LCD wired controller available.



MODEL NAME			MH026FEEA/XSA	MH035FEEA/XSA	MH052FUEA/XSA	
Power Supply		Ø, #, V, Hz	1,2,220~240,50	1,2,220~240,50	1,2,220~240,50	
Mode		-	Reverse Cycle	Reverse Cycle	Reverse Cycle	
Performance	Capacity (Nominal)	Cooling ¹⁾	kW	2.6	3.5	5.2
		Heating ²⁾	kW	2.9	3.8	6
Power	Power Input (Nominal)	Cooling ¹⁾	W	80	80	170
		Heating ²⁾		80	80	170
	Current Input (Nominal)	Cooling ¹⁾	A	0.40	0.40	1.04
		Heating ²⁾		0.40	0.40	1.04
Fan	Air Flow Rate	High/Mid/Low	l/s	143/-/-	163/-/-	271/-/-
	External Pressure	Max/Std/Min	Pa	39.2/19.6/0	39.2/19.6/0	78.5/39.2/0
Piping Connections	Liquid Pipe	Ø mm	6.35	6.35	6.35	
		Ø inch	1/4	1/4	1/4	
	Gas Pipe	Ø mm	9.52	9.52	12.7	
		Ø inch	3/8	3/8	1/2	
Refrigerant	Type	-	R410A	R410A	R410A	
Sound	Sound Pressure	High/Low	dBA	30/25	32/27	37/33
Dimensions	Net Weight		kg	26	26	29
	Shipping Weight		kg	31	31	34
	Net Dimensions (WxHxD)		mm	900x199x600	900x199x600	900x260x480
	Shipping Dimensions (WxHxD)		mm	1133x330x730	1133x330x730	1146x345x584

- 1) Nominal cooling capacities are based on; Indoor temperature: 27°C DB, 19°C WB/Outdoor temperature: 35°C DB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
- 2) Nominal heating capacities are based on; Indoor temperature: 20°C DB, 15°C WB/Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 7.5m, Level differences: 0m
- 3) Sound level was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

Samsung is fully committed to after sales and warranty support

Peace of Mind

Rest assured that you are buying a quality air conditioner with Samsung's 5 year parts and labour warranty on products featured in this brochure when used for human comfort. Refer to the warranty card included with your product for full details.



Product Support Line

If you have any concerns about your product simply call 1300 362 603 and our friendly staff will assist with your enquiry and book a service call if required.

National Samsung Service Network

Our national network of Authorised Service Centres and Customer Service Plazas are on hand to support your product. Our specialist technicians will provide a fast and effective response.



Learn more about
Samsung Air Conditioning at
www.samsung.com.au

Samsung Electronics Australia
Quad Samsung, 8 Parkview Drive
Homebush Bay NSW 2127 Australia

