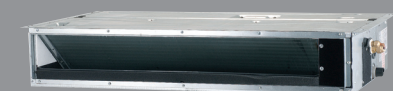


FREE JOINT MULTI



Multi-Zone Mini Split Air Conditioner

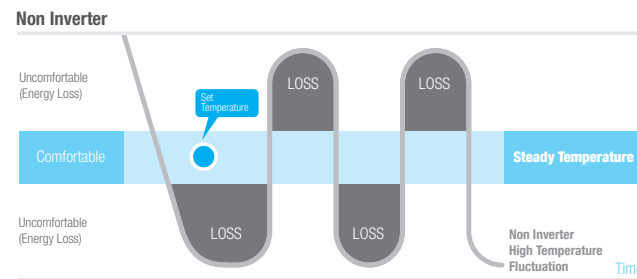




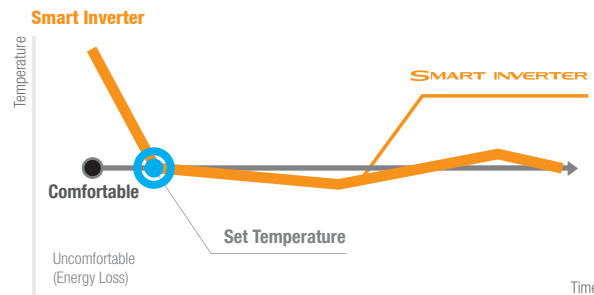
The Benefits of Free Joint Multi

▶ SMART INVERTER

The Free Joint Multi system employs Samsung's Smart Inverter control system, which enhances the efficiency of the outdoor unit - depending on the number of attached indoor units and the temperature setting. The Smart Inverter system works at maximum capacity at start up, and as soon as the set temperature is reached, it finely adjusts to cope with any changes. This translates to less temperature fluctuation and greater comfort - which can be achieved in minutes. Also, because the outdoor unit's compressor works at a low speed to maintain the desired set temperature, noise levels are at a minimum, allowing you to enjoy your FJM system in virtual silence. Another important benefit of Smart Inverter is the fact that it gives you powerful, quick cooling and heating with minimal energy consumption, reducing waste and ultimately, saving you money.

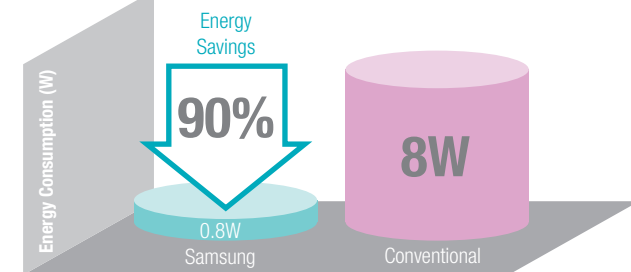


Non Inverter air conditioners shut off when the set temperature is reached and turns back on when the temperature variance is high. This causes large fluctuations in temperature and comfort.

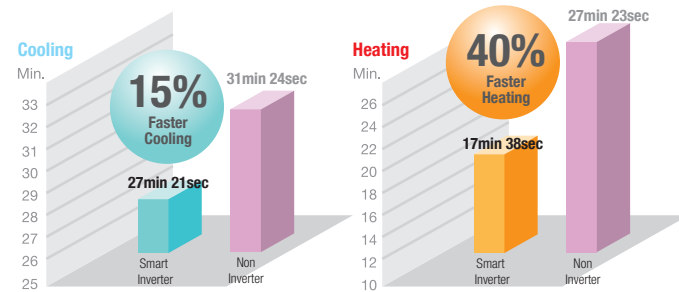


Smart Inverter automatically adjusts power to deal with any variances assuring you less temperature fluctuations.

Zero Standby Power



Samsung's Smart Inverter air conditioners have Zero Standby Power, which saves you money even when the system is turned off. The improved control board uses minuscule amounts of energy when off, resulting in 90% more savings than conventional air conditioners, which can use an incredible 8W.



Samsung's Smart Inverter system will use the compressor's maximum capacity to quickly reach the desired temperature.

▶ One Outdoor Unit - Multiple Indoor Units (up to 4)

Samsung's Free Joint Multi air conditioning system is perfect for multi-room applications. Connect up to 4 indoor units (mix and match 4 different styles) to 1 outdoor unit - each indoor unit is controlled independently from one another. And since you're only using 1 outdoor unit (which is also very slim in size) little space is wasted outside. The total connected capacity range is 18,000 - 36,000 BTU.

▶ Install Indoor Units on Multiple Floors

With the Free Joint Multi, the maximum pipe length is 100 feet for 2 indoor units and a total of 225 feet for 4. The maximum difference in height is 49 feet. This makes the FJM system ideal for residences up to 3 stories high and for rooms that are relatively far apart from each other.

▶ Twin BLDC Compressor

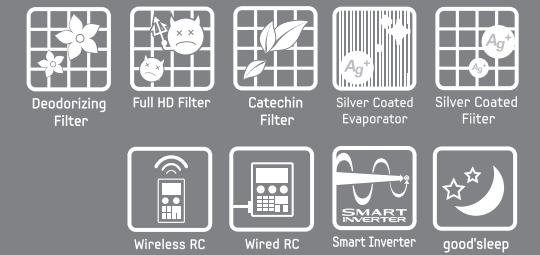
Free Joint Multi outdoor units use a twin BLDC compressors with highly stable moving parts which reduce torque variation by 70% when compared to a conventional single BLDC compressor.

▶ Low Noise

The FJM compressor is covered by a double-layered sound insulation material, which absorbs and minimizes the noise it generates during operation.

NEO FORTE

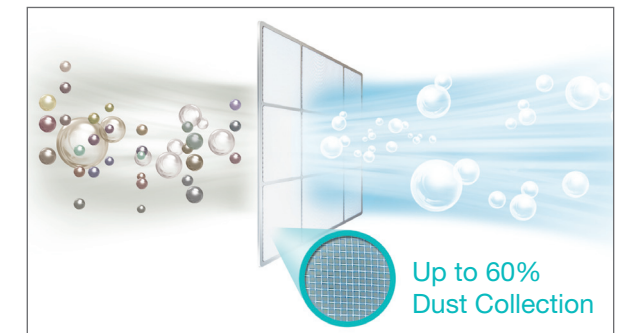
MH026FNCA - 9,000 BTU / MH035FNCA - 12,000 BTU / MH052FNCA - 18,000 BTU



▶ FULL HD FILTER

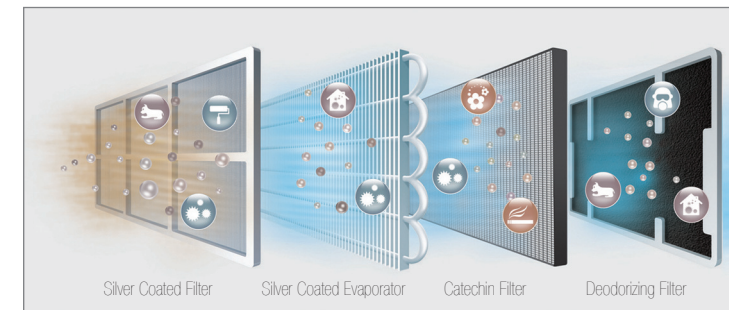
Samsung's Full High Density Filter ensures your room is kept fresh and clean. The Full HD Filter offers great filtration by removing even the smallest microscopic dust particles. It also transforms polluted air into clean, energized air.

- **Anti-bacteria Coating**
With the anti-bacterial coating on the Full HD Filter, it can collect even the smallest dust particles and viruses. Enjoy complete protection from unwanted bacteria so you can breathe clean, fresh air.
- **Easy and Care-Free Filter Cleaning**
Keeping your air clean and fresh has never been easier. To clean the Full HD Filter, simply wash out the dirt with flowing water.



▶ Multi-Step Air Purifying System

In addition to the Full HD Filter, the Neo Forte's Multi-Step Air Purifying system consists of several different types of air filters and technology that helps it eliminate and control the proliferation of bacteria and odor in the air.



- **Silver Coated Filter**
The silver coating applied to the filter serves to trap and remove dust particles from the air. It also helps eliminate fungi and unpleasant odors.
- **Silver Coated Evaporator**
The fins of the evaporator are triple coated - 2 layers of chrome-free neo silica and 1 layer of silver. This ensures the efficient removal of condensation, which in turn guarantees the production of clean, fresh air.
- **Catechin Filter**
Catechin, which originates from green tea, is contained in this filter, which deactivates captured bacteria. It also helps control the odor that is caused by bacteria.
- **Deodorizing Filter**
Incorporated with activated carbon, this filter efficiently absorbs cigarette smoke, pet odors and other unpleasant smells.

▶ Design



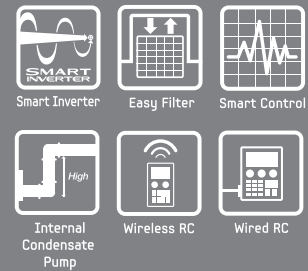
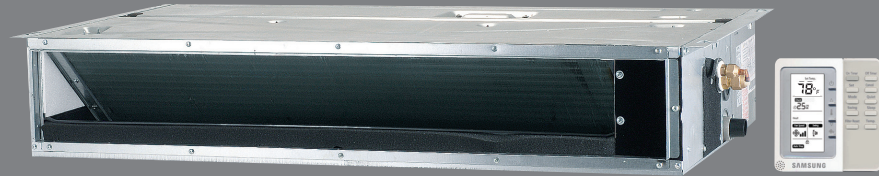
▶ Optional Wired Remote Controller

The Neo Forte can be operated with an optional wired remote controllers.



SLIM DUCT

MHO26FECA - 9,000 BTU / MHO35FECA - 12,000 BTU / MHO52FECA - 18,000 BTU

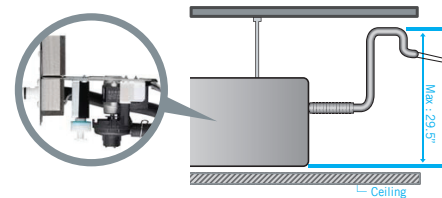


Smart Pressure Control

The Smart Pressure Control system automatically adjusts fan speed according to the external static pressure so the air conditioner always gives you consistent cooling and heating, regardless of the surrounding environment.

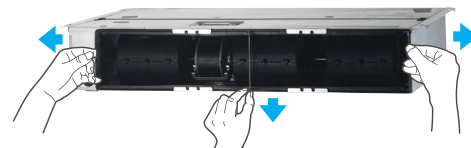
Internal Condensate Pump (Optional)

The pump lifts up to 29-1/2", making installation more flexible and convenient.



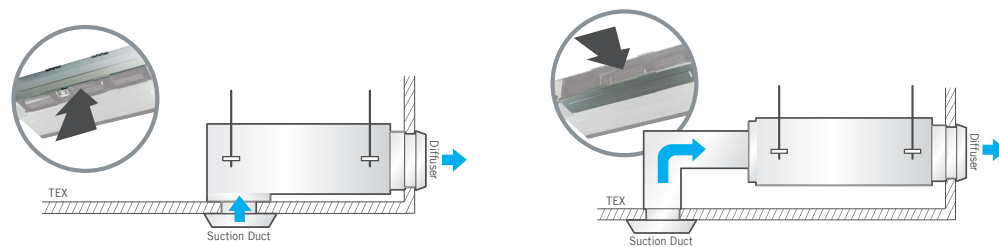
Easy Filter Cleaning

After 1,000 hours of operation, the filter clean indicator will notify you that the filter should be cleaned. 1,000 hours is the default set time, which can be adjusted to 2,000 hours on the internal PCB.



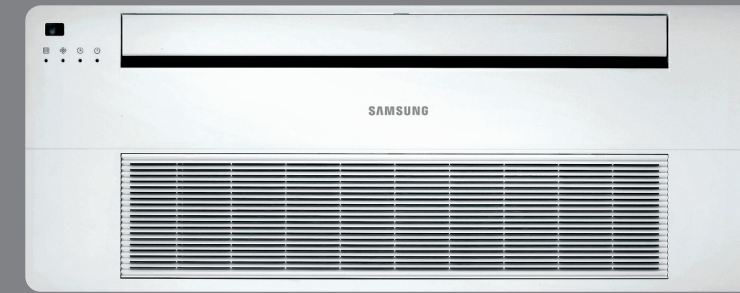
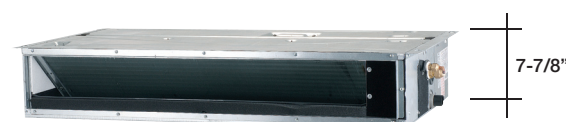
Flexible Installation

The air inlet can be set up on either the bottom or the rear of the unit, allowing for a more flexible installation options.



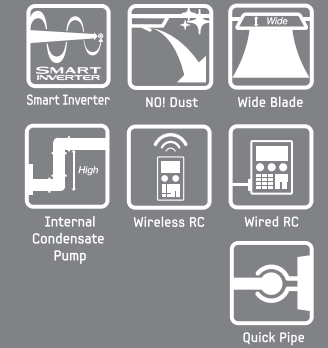
Slim Design

At only 7-7/8 inches thick, the slim design of this unit makes installation, maintenance and repair worry-free.



1 WAY CASSETTE

NJ0261HXCA - 9,000 BTU
NJ0351HXCA - 12,000 BTU



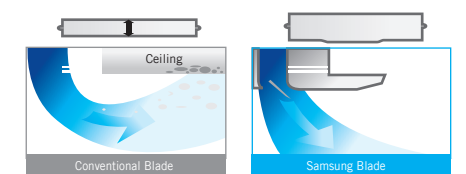
Powerful Airflow

Wide blades in the indoor unit deliver cool or warm air at greater distances to provide even cooling and heating throughout the room.



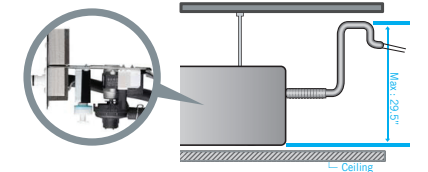
Ceiling Dust Prevention

The newly designed panel will control air direction in a way to avoid contact with the ceiling. This new design will prevent dust from accumulating on the ceiling after long periods of operation, keeping your interior space cleaner than ever.



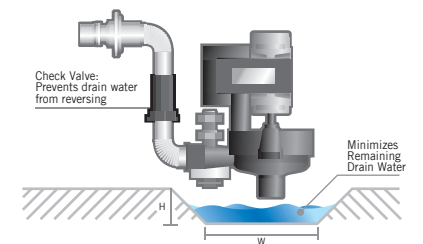
Internal Condensate Pump

The pump lifts up to 29-1/2", making installation more flexible and convenient.



No Condensate Overflow

The check valve on the drain pump prevents condensate from returning to the drain pan. This minimizes the drain pan's water level so you won't have to worry about water stagnation or condensate overflow.



Quick Drain Pipe Connection

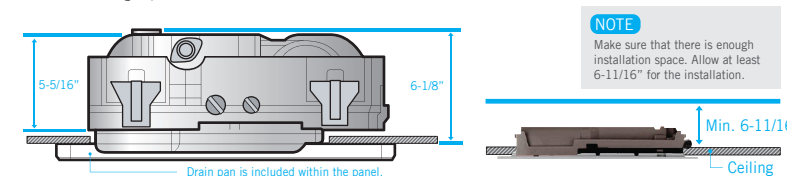
Samsung's unique drain pipe prevents leaks, and is easier to install because tape or adhesives are not required.

Quiet Operation

Samsung's new blade design drastically reduces noise levels so you can relax in peace and quiet.

Slim Design

The 1 Way Cassette indoor unit is only 5-5/16 inches thick and takes up very little ceiling space.



Optional Wireless Remote Controller

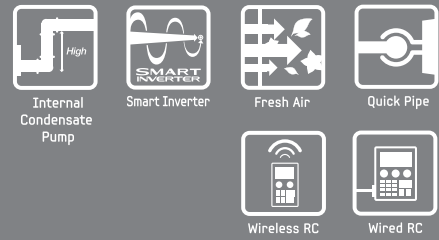
The 1 Way Cassette can be controlled via an optional wireless remote controller (receiver is built-in to the indoor unit).





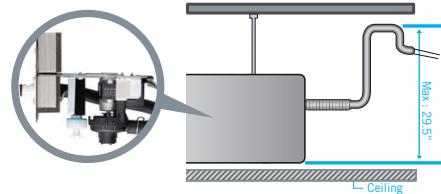
MINI 4 WAY CASSETTE

NJ030MHXCA - 9,000 BTU
 NJ035MHXCA - 12,000 BTU
 NJ052MHXCA - 18,000 BTU



► Internal Condensate Pump

The pump lifts up to 29-1/2", making installation more flexible and convenient.

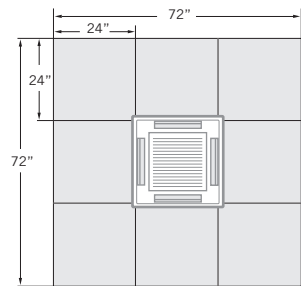


► Quick Drain Pipe Connection

Samsung's unique drain pipe prevents leaks, and is easier to install because tape or adhesives are not required.

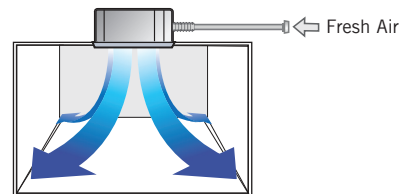
► Ideal Compact Size

The Mini 4 Way Cassette can be installed on one standard 24" ceiling tile.



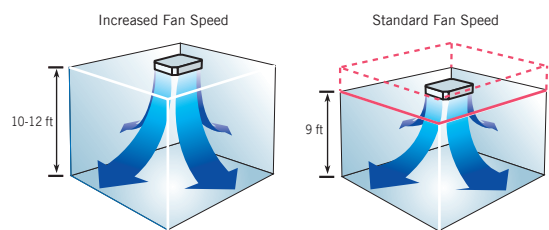
► Fresh Air

Fresh air can enter through the indoor unit so you can enjoy even fresher air in your room.



► Fan Speed Adjustment

The fan speed can be adjusted according to the ceiling height by adjusting the dip switch of the indoor unit's PCB.



► Optional Wireless Remote Controller

The FJM Mini 4 Way Cassette can be controlled via a wireless remote controller (separate receiver not necessary as it is built-in).



Free Joint Multi - Rated Matches

► FJM Indoor Units Line Up

Neo Forte



- MH026FNCA - 9K BTU
- MH035FNCA - 12K BTU
- MH052FNCA - 18K BTU

Slim Duct



- MH026FECA - 9K BTU
- MH035FECA - 12K BTU
- MH052FECA - 18K BTU

1 Way Cassette



- NJ0261HXCA - 9K BTU
- NJ0351HXCA - 12K BTU

Mini 4 Way Cassette



- NJ0301HXCA - 9K BTU
- NJ0351HXCA - 12K BTU
- NJ0521HXCA - 18K BTU

Dual Zone

► MH050FXCA2A - Rated Matches



This condensing unit can be matched with the following combination of indoor units:

- 2 X MH026 or NJ026
- 1 X MH026 or NJ026 + 1 X NJ030
- 1 X MH026 or NJ026 + 1 X MH035 or NJ035
- 1 X MH035 or NJ035 + 1 X NJ030
- 2 X MH035 or NJ035

Dual, Tri or Quad Zone

► MH080FXCA4A - Rated Matches



This condensing unit can be matched with the following combination of indoor units:

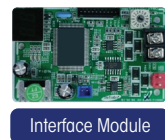
- 1 X MH052 or NJ052 + 1 X MH026 or NJ026
- 1 X MH052 or NJ052 + 1 X NJ030
- 3 X MH026 or NJ026
- 2 X MH026 or NJ026 + 1 X NJ030
- 2 X NJ030 + 1 X MH026 or NJ026
- 1 X MH035 or NJ035 + 2 X MH026 or NJ026
- 1 X MH035 or NJ035 + 1 X MH026 or NJ026 + 1 X NJ030
- 1 X MH035 or NJ035 + 2 X NJ030
- 2 X MH035 or NJ035 + 1 X MH026 + 1 X NJ026
- 2 X MH035 or NJ035 + 1 X NJ030
- 2 X MH052 or NJ052
- 2 X MH026 or NJ026 + 1 X MH052 or NJ052
- 3 X MH035 or NJ035
- 4 X MH026 or NJ026

FJM™ Free Joint Multi - Controls

Free Joint Multi systems can use many different controls in addition to the standard control systems provided with the units. These can range from wired remote controllers with both scheduling and multiple unit control capability up to a full Building Management System that remotely controls the system operation.

Available controllers include:

- **MWR-WE10** - Wired remote controller with 7-Day Scheduling.
- **SNET Mini** - Touch screen controller for multiple indoor units.
- **DMS** - Data Management Server allows scheduling, control and remote monitoring/access (if web-enabled) to the systems. Scalable to control multiple systems.
- **SNET 3** - Building Management System allows scheduling and control. Scalable to control multiple systems.
- **Power Monitoring** - Ability to download power consumption for individual systems.



Specifications



Free Joint Multi - Condensing Units

Condensing Unit Model #		MH050FXCA2A	MH080FXCA4A
		Dual Zone	Quad Zone
General*	Max Connected Capacity (Btu/h)	24,000	36,000
	SEER	15.5	16
	Min Cooling Capacity (Btu/h)	6,000	6,500
	HSPF	8	8
	Min Heating Capacity	7,200	8,500
Controls		DDC	DDC
Power	Voltage (øV/Hz)		1 / 208-230 / 60
	Rated Current (amps)	Cooling	8.6
		Heating	9
Max Breaker	Amps	25A	
Dimensions	Outdoor Unit	Width (inches)	34 5/8
		Height (inches)	25 1/8
		Depth (inches)	12 1/4
	Outdoor Unit Weight (lbs)		131
Noise Level (Db)	Outdoor Unit	50	55
Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115
	Heating	°F	5 ≤ T ≤ 76
Pipe Connections	Indoor & Outdoor	High side	1/4" & 3/8" X 2
	Maximum Individual Line Set Length		75 feet
	Maximum Line Set Length		100 feet
	Maximum Vertical Separation		50 feet
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge		70.55 oz.
	Charged for		65 feet
	Additional Refrigerant		0.11 oz/ft over 65 feet
Safety Certifications		ETL & ETLc	
Performance		AHRI Certified	
AHRI Certification #		3069049/3069050	3069051/3069052
Warranty		5 Years compressor, 3 Year Parts, 90 Day limited labor	

*Nominal cooling capacities are based on: Indoor temperature: 80 F DB, 67 F WB. Outdoor temperature: 95°F DB, 75°F WB.
 *Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.

Due to Samsung's policy of ongoing product development, specifications are subject to change without prior notice.

Specifications

Free Joint Multi - Indoor Units



Indoor Unit Model #		MH026FNCA	MH035FNCA	MH052FNCA	MH026FECA	MH035FECA	MH052FECA	
		NEO FORTE	NEO FORTE	NEO FORTE	SLIM DUCT	SLIM DUCT	SLIM DUCT	
Performance*	Nominal Cooling Capacity* (Btu/h)	9,000	12,000	18,000	9,000	12,000	18,000	
	Nominal Heating Capacity* (Btu/h)	10,000	13,000	19,000	9,900	13,000	19,000	
	SEER	15.5	15.5	15.5	15.5	15.5	15.5	
	HSPF	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	
	Condensate (pints/hour)	5.6	7.6	10.2	5.6	7.6	10.2	
Power	Voltage (øV/Hz)	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	
	RLA Cooling/Heating (Amp)	0.17	0.17	0.3	0.35	0.35	0.69	
	Max Breaker Amps	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit	
Blower Fan	Fan Speeds	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	
	Airflow-High Speed CFM	340	340	540	370	400	530	
Dimensions	Indoor Unit	Width (inches)	32 1/2	32 1/2	43 1/4	35 7/16	35 7/16	43 5/16
		Height (inches)	11 1/4	11 1/4	12 3/8	7 13/16	7 13/16	7 13/16
		Depth (inches)	7 7/16	7 1/2	8 9/16	23 5/8	23 5/8	23 5/8
	Weight (lbs.)	Indoor Unit	17	17	29	57	57	68
	Condensate Connection		11/16" OD	11/16" OD	11/16" OD	11/16" OD	11/16" OD	11/16" OD
Sound Pressure Level (dB)	Indoor Unit	Low/High	23/32	23/36	30/40	27/32	27/32	30/33
	Operating Temperature	Cooling	°F	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115
Heating		°F	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75
Pipe Connections	Indoor & Outdoor	High side	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
		Low side	3/8"	3/8"	1/2"	3/8"	3/8"	1/2"
	Maximum Line Set Length		75 feet	75 feet	75 feet	75 feet	75 feet	75 feet
	Maximum Vertical Separation		50 feet	50 feet	50 feet	50 feet	50 feet	50 feet
Certification	Safety		ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc
	Performance		AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified
	AHRI Certification #		3069050/3069052	3069050/3069052	3069050/3069052	3069049/3069051	3069049/3069051	3069049/3069051
Warranty	5 Years compressor, 3 Year Parts, 90 Day limited labor							

*Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67 F WB. Outdoor temperature: 95°F DB, 75°F WB.
 *Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB.

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Specifications

Free Joint Multi - Indoor Units



Indoor Unit Model #		NJ0261HXCA	NJ0351HXCA	NJ030MHXCA	NJ035MHXCA	NJ052MHXCA	
		1-WAY CASSETTE	1-WAY CASSETTE	4-WAY CASSETTE	4-WAY CASSETTE	4-WAY CASSETTE	
Performance*	Nominal Cooling Capacity* (Btu/h)	9,000	12,000	9,000	12,000	18,000	
	Nominal Heating Capacity* (Btu/h)	10,000	13,000	10,000	13,000	19,000	
	SEER	15.5	15.5	15.5	15.5	16	
	HSPF	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	Up to 8.0	
	Condensate (pints/hour)	2.7	3.3	2.7	3.7	4.7	
Power	Voltage (øV/Hz)	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	
	RLA Cooling/Heating (Amp)	0.23	0.25	0.47	0.47	0.47	
	Max Breaker Amps	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit	
Blower Fan	Fan Speeds	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	Turbo-Hi-Med-Lo	
	Airflow-High Speed CFM	250	285	360	360	375	
Dimensions	Indoor Unit	Width (inches)	38 1/4	38 1/4	22 3/4	22 3/4	22 3/4
		Height (inches)	5 3/8	5 3/8	22 3/4	22 3/4	22 3/4
		Depth (inches)	16 1/8	16 1/8	10 1/4	10 1/4	10 1/4
	Weight (lbs.)	Indoor Unit	23	23	38	38	38
	Condensate Connection		1" OD, 3/4" ID	1" OD, 3/4" ID	1" OD, 3/4" ID	1"OD, 3/4" ID	1"OD, 3/4" ID
Ducting	Max External Static ("WC)	N/A	N/A	N/A	N/A	N/A	
Sound Pressure Level (dB)	Indoor Unit	Low/High	25/30	32/37	27/34	27/34	33/41
	Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115
Heating		°F	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75
Pipe Connections	Indoor & Outdoor	High side	1/4"	1/4"	1/4"	1/4"	1/4"
		Low side	3/8"	3/8"	3/8"	3/8"	1/2"
	Maximum Line Set Length		75 feet	75 feet	75 feet	75 feet	75 feet
	Maximum Vertical Separation		50 feet	50 feet	50 feet	50 feet	50 feet
Certification	Safety		ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc	ETL & ETLc
	Performance		AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified	AHRI Certified
	AHRI Certification #						
Warranty	5 Years compressor, 3 Year Parts, 90 Day limited labor						

*Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67 F WB. Outdoor temperature: 95°F DB, 75°F WB.
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