

SAMSUNG HVAC

RESIDENTIAL & LIGHT COMMERCIAL
MINI SPLIT AIR CONDITIONERS



SINGLE & MULTI-ZONE

2016

SAMSUNG

Samsung HVAC continues to deliver on Samsung's legacy of product innovation and engineering excellence to provide the finest variable refrigerant flow (VRF) systems on the market today. From the award winning, revolutionary triangular design of the Pearl wall-mounted indoor unit to the industry leading* efficiency and capacity range of the DVM S system air conditioner, Samsung offers a complete range of single-zone and multi-zone VRF systems to satisfy modern day design and construction challenges while still providing the homeowners and building occupants the highest level of personalized control and comfort.



*as of May 8, 2015

SAMSUNG

TABLE OF CONTENTS

SAMSUNG RESIDENTIAL

Pearl/Whisper

- Features 4-14
- Specs 15-16

Novus

- Features 17
- Specs 18

MAX

- Features 19
- Specs 20

Free Joint Multi-Zone

- Features 21-26
- Combo Charts 27-28
- Control Accessories 29
- Specs 30-33

- Accessories 34-35

SAMSUNG LIGHT COMMERCIAL

Duct

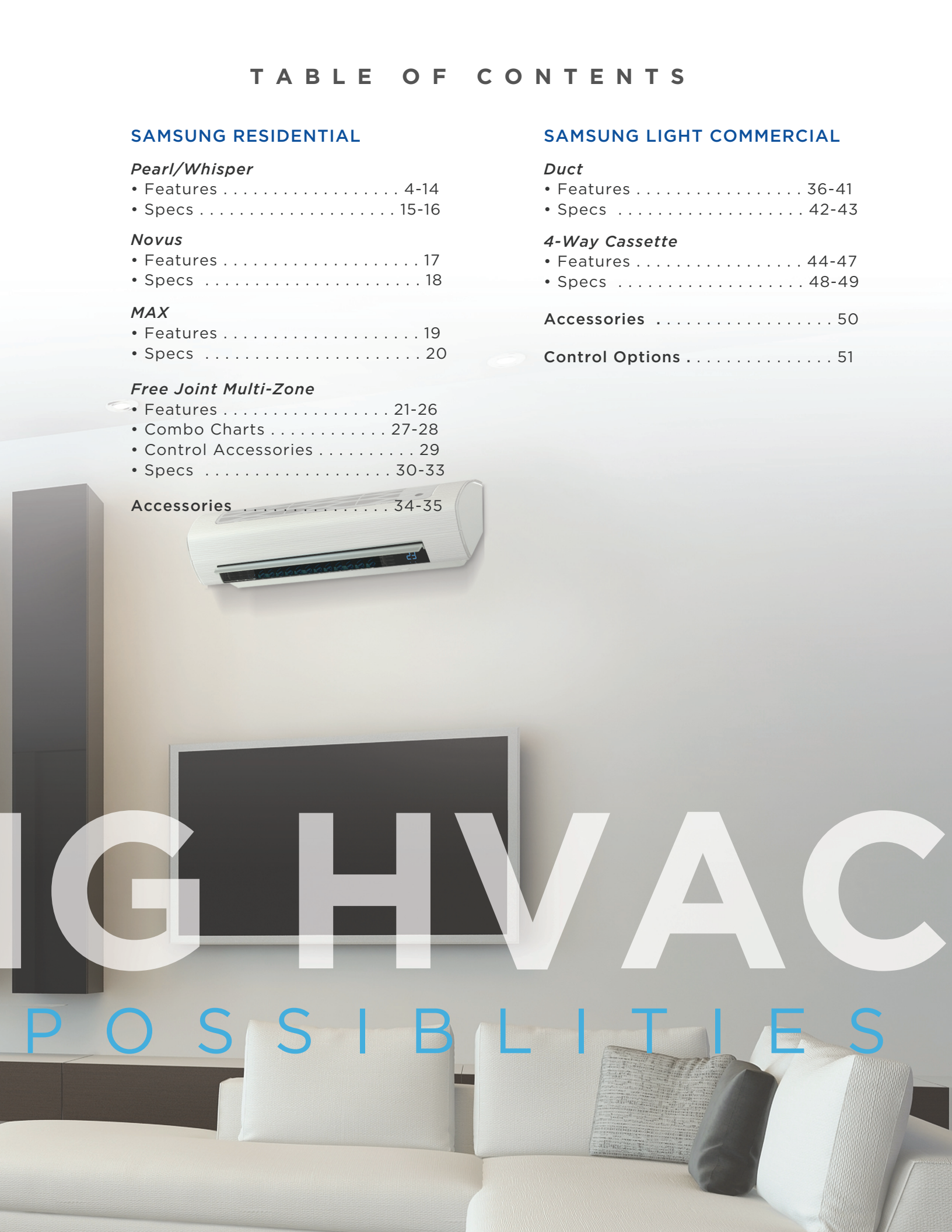
- Features 36-41
- Specs 42-43

4-Way Cassette

- Features 44-47
- Specs 48-49

- Accessories 50

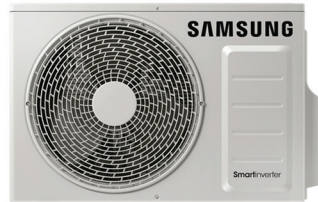
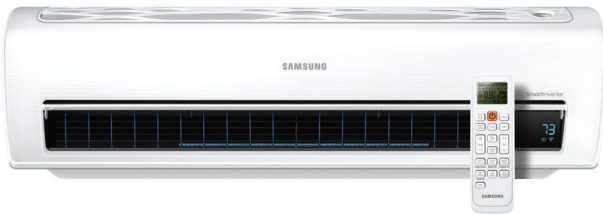
- Control Options 51



BIG HVAC
POSSIBILITIES

PEARL

Available capacities (Btu/h) - 9,000 / 12,000



Optional Wired Controllers

MWR-WH00



MWR-WE10



Product Features

- **The Triangle Design**
Cools faster, farther and wider - the ultimate cooling design
- **Smart WiFi***
Access and control your Pearl from anywhere with your smartphone
- **Digital Inverter Compressor**
Cutting edge Inverter technology works smart and saves energy, up to **28.1 SEER**
- **2-Step Cooling**
Get cool quickly, and remain comfortable
- **Single User Mode**
Reduces energy consumption when using alone (low demand operation)
- **Triple Protector Plus**
3-way added protection to ensure long lasting performance
- **3-Care Air Filter**
Helps eliminate bacteria, viruses and allergens
- **Easy Filter Access**
Clean and maintain your filter with ease
- **Easy Installation**
A roller type mounting bracket allows for easier evaporator installation
- **Smart Install**
This feature checks for common problems to ensure proper installation
- **Crystal Gloss Design**
Indoor unit's elegant case blends seamlessly into any modern household

Convenience Features

- Auto Restart
- Digital LED display
- Auto Changeover
- 24-hour single event, ON/OFF timer
- Good Sleep Mode
- Quiet Mode
- Dry Mode
- Filter cleaning reminder
- Display and beep ON/OFF with wireless controller
- Motorized horizontal and vertical auto-swing louvers



Warranty

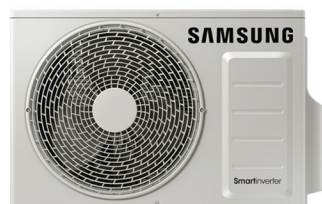
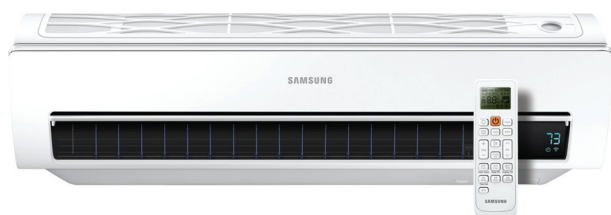
- 10 year compressor
- 10 year parts
- 1 year limited labor

Registration Required

* Samsung's "Smart Air Conditioner" app is required to use this function. Available at Android and Apple app stores.

WHISPER WiFi

Available capacities (Btu/h) - 9,000 / 12,000 / 18,000 / 24,000



Optional Wired Controllers



Product Features

- **The Triangle Design**
Cools faster, farther and wider - the ultimate cooling design
- **Smart WiFi***
Access and control your Pearl from anywhere with your smartphone
- **Digital Inverter Compressor**
Cutting edge Inverter technology works smart and saves energy, up to **23 SEER**
- **2-Step Cooling**
Get cool quickly, and remain comfortable
- **Single User Mode**
Reduces energy consumption when using alone (low demand operation)
- **Triple Protector Plus**
3-way added protection to ensure long lasting performance
- **3-Care Air Filter**
Helps eliminate bacteria, viruses and allergens
- **Easy Filter Access**
Clean and maintain your filter with ease
- **Easy Installation**
A roller type mounting bracket allows for easier evaporator installation
- **Smart Install**
This feature checks for common problems to ensure proper installation

Convenience Features

- Auto Restart
- Digital LED display
- Auto Changeover
- 24-hour single event, ON/OFF timer
- Good Sleep Mode
- Quiet Mode
- Dry Mode
- Filter cleaning reminder
- Display and beep ON/OFF with wireless controller
- Motorized vertical auto-swing louvers



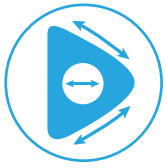
Warranty

- 10 year compressor
- 10 year parts
- 1 year limited labor

Registration Required

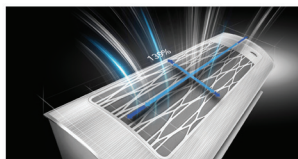
* Samsung's "Smart Air Conditioner" app is required to use this function. Available at Android and Apple app stores.

PEARL & WHISPER - MAIN FEATURES



The Triangle Ultimate Cooling Design

The Pearl and Whisper mini splits have been designed from the ground up to be outstandingly efficient. This unique triangular design has a wider inlet, allowing more air to be drawn in. The improved width and angle of its outlet, extra v-blades and a bigger fan also ensure air is cooled and delivered faster and farther than a conventional system. With either the Pearl or Whisper, fresh, cool air reaches every corner of the room, avoiding annoying blind spots.



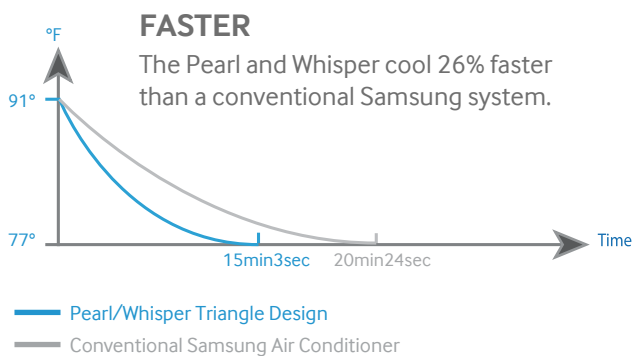
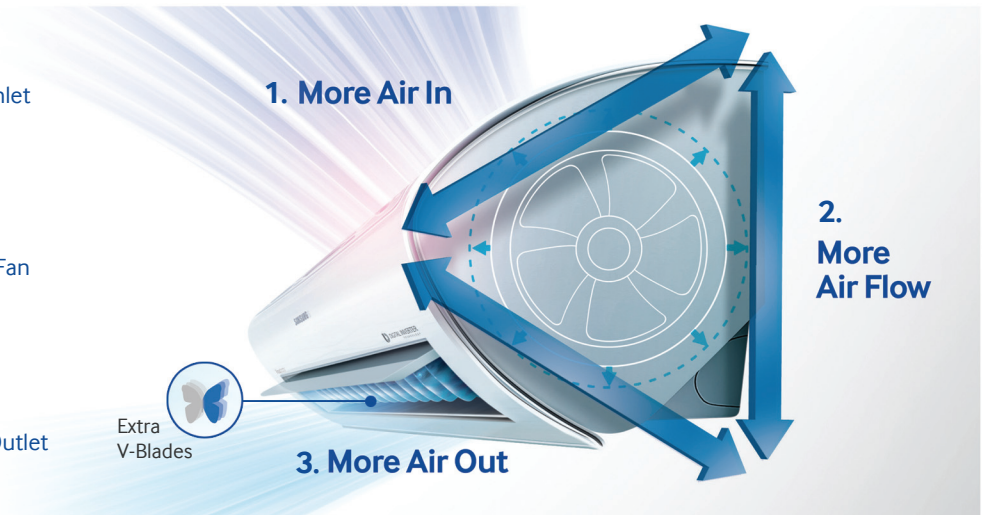
1. Wider Inlet



2. Bigger Fan

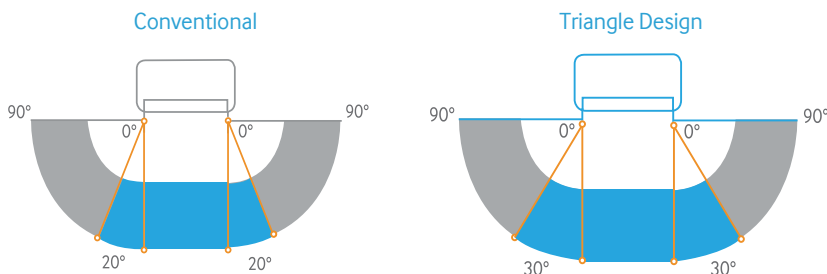
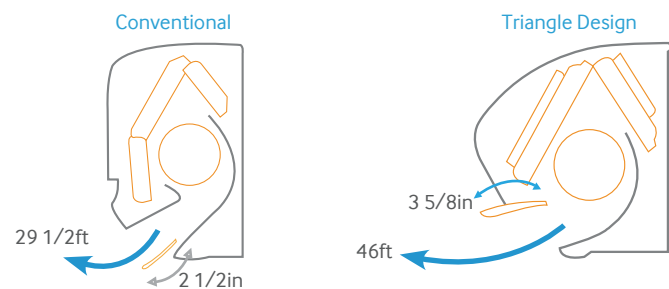


3. Wider Outlet



FARTHER

The outlet angle is different compared to conventional models, enabling a long air throw distance of 46 ft.



WIDER

The improved width and angle of the outlet also ensure air is expelled wider, minimizing blind spots.

The space in blue depicts where the cool air reaches

The Triangle Ultimate Heating Design

On a cold day you want to get warm fast! The Pearl and Whisper quickly distribute comforting warm air to every corner of your room. Their unique triangular design has a wider intake to draw in more air, while the improved width of the outlet and a bigger fan heat and expel air faster and farther. In Fast Heating Mode, rooms reach the desired temperature faster than conventional models.



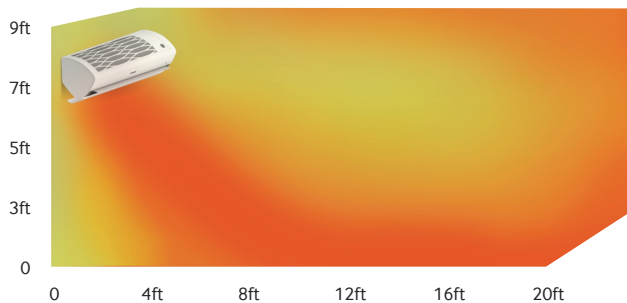
Heat Faster

When heating from 48°F to 68°F the AR09HSSFAWKNEU (Model similar to the Pearl) takes 12 min 43 sec, while a conventional model (AQV09TWS) takes 20 min 44 sec, which is 38.6% faster. Test results are based on internal testing on Samsung equipment and results may vary depending on the usage conditions.

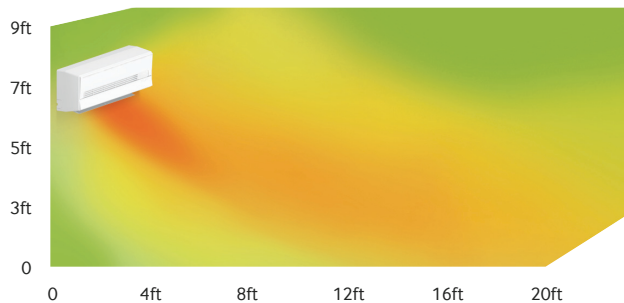


Heat Efficiency/Coverage Comparison

As the chart shows below, the Triangle Design of the Pearl and Whisper ensures warm and comforting air gets delivered farther than older, conventional Samsung mini splits.



Pearl & Whisper



Samsung Model (Conventional)

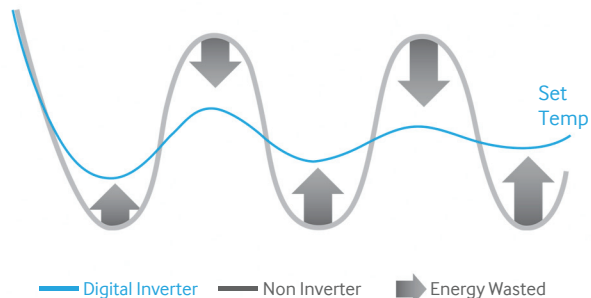
PEARL & WHISPER - MAIN FEATURES

**Digital Inverter** Works Smart. Saves Energy.

The Pearl and Whisper feature a highly-energy efficient Digital Inverter system. The system can maintain the desired set temperature without frequently shutting off and on, which allows up to 70% less energy consumption. The Digital Inverter system helps you stay comfortable for long periods of time while using minimal energy. Low outdoor noise levels are also a benefit of the Digital Inverter system.



Image used for marketing purposes only. Indoor unit does not plug into an outlet as shown.

**2-Step Cooling** Cools fast, then keeps you comfortable

The Pearl and Whisper begins cooling the air fast using the Fast Cool mode, then it automatically changes to Comfort Cool mode to maintain the desired temperature. With this feature you will not feel cold or need to manually change the settings, constantly turning the air conditioner on and off.





Single User Mode

Home alone? No worries.

The Pearl and Whisper's Single User Mode uses less compressor capacity, reducing power consumption, while still providing a cool and comfortable environment. So go ahead and use it when you're home alone without worrying about the electricity bill.



PEARL & WHISPER - MAIN FEATURES



Triple Protector Plus Long lasting, reliable performance

Samsung's integrated protection offers durability and reliability for your Pearl or Whisper. Its trifecta of protection features: Compressor Protector, Controller Protector, and Fin Protector allows you to enjoy your system for a long time.



1 Compressor Protector

Samsung's distinctive Compressor Protector prevents compressor from being overloaded by unstable electricity circumstances.

2 Controller Protector

Samsung's advanced controller adjusts to avoid breakdowns from electrical surges. This special feature withstands power fluctuations from 80V to 450V.

3 Fin & Chassis Protector

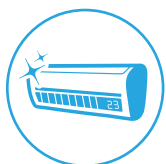
The Pearl and Whisper condenser coil fins are coated with an anti-corrosive material to protect aluminum fins from corrosion, allowing you to enjoy your a/c system for a longer period of time.



Smart Installation

Install with confidence

Smart Installation is a self-diagnosis feature that ensures your Pearl or Whisper is installed properly by your a/c contractor. It automatically checks for installation faults that can cause problems when using the air conditioner, including miscommunication with the outdoor unit, any issues with the integrity of the air pipe and poor refrigerant flow.



Crystal Gloss Design* Stylish and innovative design

The pure Crystal Gloss™ finish and uniquely curved design of the Pearl delivers both a premium look and performance. Like aerodynamic, high performance sports cars, every aspect of its streamlined body is encased in dual-injected, transparent material for an elegant finish that blends seamlessly into any modern household.



**Pearl only*



Smart WiFi Control From Anywhere

Samsung's Smart WiFi feature allows you to control your Pearl or Whisper system from virtually anywhere*. Now you can come home to a cool room by turning on your Pearl or Whisper before arriving. Forget to turn off your system because you left in a hurry? Nothing to worry about, simply turn it off with your smartphone. For added convenience, you can even use your smartphone or tablet as the remote control when you're at home. With Samsung's Smart WiFi feature, controlling your comfort was never easier or more convenient.



WiFi CONTROL FEATURES

- Basic control and monitoring of: power, mode, set temp, room temp, fan speed, and louver swing
- Timer ON and OFF feature allows scheduling of power ON and power OFF events on specific days at specific times
- "My Wind" functions allows the user to save common a/c control configurations for quick and easy system operation (mode, set temperature, fan speed, and louver swing)
- Air filter reminder option will display hours of fan operation since last filter reminder reset
- Optional filter reminder with four reminder intervals (180, 300, 500, and 700 hours of fan operation)
- Error notification
- System energy consumption history and adjustable threshold notification viewable with mobile app

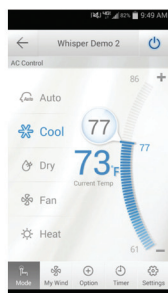
WiFi CONTROL SPECIFICATIONS

- Samsung's "Smart Air Conditioner" app can monitor and control an unlimited quantity indoor units
- *A connection to the internet is necessary to use the WiFi feature.
- Users must register each indoor unit at <http://www.samsungsmartappliance.com> to setup control
- Use is based on acceptance of Samsung's Smart Appliance terms and conditions when creating user profile and registering devices
- Samsung's "Smart Air Conditioner" app is available for download in both Android and Apple app stores

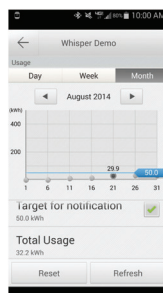


Smart Air Conditioner app

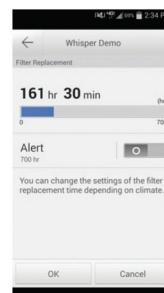
SAMSUNG "Smart Air Conditioner" APP SCREENSHOT EXAMPLES



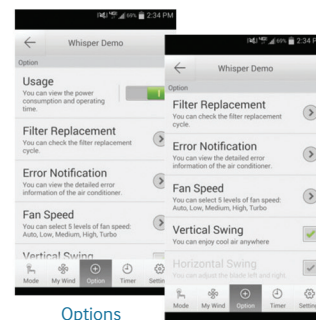
Main control



Energy usage



Filter reminder settings



Options

Options



3-Care Filter Keep your filter clean

The 3-care filter of the Pearl and Whisper has a special coating to prevent it from becoming contaminated with allergens, viruses, and bacteria. Together with removing dust particles from the air, this helps keep the air in your room clean and fresh.



Smart Check Easy Troubleshooting

The Whisper and Pearl feature Smart Check, an automatic error-monitoring system. It detects and diagnoses problems with your system and provides quick and easy troubleshooting solutions via a smartphone app* and a series of error codes.



Error Code:

E101/E102	Communication error (indoor ↔ outdoor)
E121	Indoor temperature sensor error
E122	Indoor heat exchanger temperature sensor error
E154	Indoor fan motor speed detecting error
E162	EEPROM error
E163	EEPROM option setting error
E200	Outdoor error display



Easy Filter Worry-free maintenance

With the Pearl and Whisper, filter maintenance is a breeze. The filter is easily removable by hand and is washable with water. The filter can also be cleaned by vacuuming the top of the indoor unit.



PEARL & WHISPER - CONTROL OPTIONS

3 Different Ways

**MR-EH00U****Standard - Wireless Remote Controller (comes with the system)**

- ON/OFF Operating Model, Fan Speed, Airflow/Temperature Setting
- Filter replacement alarm reset
- Single event, on/off timer function
- Easy-to-see display
- Soft touch buttons
- Multi-channel (max. 4 channels)

**MWR-WH00****Optional - Simple Wired Remote Controller**

- ON/OFF Operating Model, Fan Speed, Airflow/Temp Setting
- 'Sleep' and 'Silent' mode
- Built-in room temperature sensor
- Child lock
- Automatic stop mode
- Single event, on/off timer function
- Different permission levels

**MWR-WE10****Optional - Premium Wired Remote Controller**

- ON/OFF Operating Model, Fan Speed, Airflow/Temp Setting
- Error display
- Filter replacement alarm reset
- 'Sleep' and 'Silent' mode
- Built-in room temperature sensor
- Child lock
- Automatic stop mode
- Wireless remote control restriction
- Clear & bright screen w/backlit LCD screen
- Weekly schedule setting
- Exception date setting
- Different permission levels

PEARL & WHISPER - OTHER NOTABLE FEATURES

Good Sleep Mode

This feature helps you fall asleep and stay asleep, so you feel refreshed and energized when you wake up. With Good Sleep Mode, the room will remain comfortable so you can stay comfortable throughout the night.

Quiet Mode

For greater comfort, Samsung has made improvements to reduce vibration and noise levels coming from the indoor and outdoor units of the Pearl and Whisper mini split systems.

Auto Changeover

This feature automatically selects the operating mode (cool or heat) according to the temperature setting. When a desired temperature is selected to the auto mode, the Pearl and Whisper heats and cools as required to maintain the set temperature.

And More* ...

- Auto Restart
- Digital LED display
- 24-hour single event, ON/OFF timer
- Dry Mode
- Filter cleaning reminder
- Display and beep ON/OFF with wireless controller

*For detailed information on these features, please refer to the User's Manual

PEARL - SPECIFICATIONS

Model	System Model Number		AR09JSFDHWK	AR12JSFDHWK
	Indoor Unit Model Number		AR09JSFDHWKN	AR12JSFDHWKN
	Outdoor Unit Model Number		AR09JSFDHWKX	AR12JSFDHWKX
Performance	Nominal Capacity*	Cooling / Heating (Btu/h)	9,000 / 12,600	12,000 / 13,600
	Capacity Range	Cooling (Btu/h)	3,071 - 13,000	3,071 - 13,648
		Heating (Btu/h)	2,730 - 20,813	2,730 - 22,519
	SEER / EER		28.1 / 15.8	26.11 / 14.12
	COP		4.34	4.3
	HSPF		12.0	11.5
		Condensate (pints/hour)	2.11	3.17
Power	Voltage	ø / V / Hz	1 / 208-230 / 60	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254	176 - 254
	Operating Current (Low/Std./High)	Cooling (A)	1.4 / 2.9 / 3.2	1.4 / 4.0 / 5.3
		Heating (A)	1.0 / 3.9 / 7.5	1.0 / 4.3 / 8.5
	Maximum Current	Cooling/Heating (A)	9.0	9.0
	Max. Breaker	Amps	15	15
Min. Circuit Ampacity (A)		10.3	10.3	
Dimensions	W X H X D (inches)	Indoor Unit	35 9/32 X 10 1/4 X 10 13/16	35 9/32 X 10 1/4 X 10 13/16
		Outdoor Unit	34 5/8 X 25 1/8 X 12 3/16	34 5/8 X 25 1/8 X 12 3/16
	Weight (lbs.)	Indoor Unit	24.7	24.7
		Outdoor Unit	88.2	88.2
		Condensate Connection	11/16" OD	11/16" OD
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube
		FPI	18	18
		Pipe Diameter (inches)	1/4	1/4
	Indoor Unit	Main and Sub coils	2 row / 14 step	2 row / 14 step
		Upper Coil	1 row / 10 step	1 row / 10 step
Outdoor Unit		2 row / 24 step	2 row / 24 step	
Sound Pressure Level	Indoor Unit (dB)	Quiet / High	20 / 40	20 / 41
	Outdoor Unit (dB)	High	45	26
Operating Temperatures (°F)	Outdoor	Cooling	14 ≤ T ≤ 115	14 ≤ T ≤ 115
		Heating	5 ≤ T ≤ 75	5 ≤ T ≤ 75
	Indoor	Cooling	61 ≤ T ≤ 90	61 ≤ T ≤ 90
		Heating	T ≤ 80	T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"	1/4"
		Low side (flare)	3/8"	3/8"
	Maximum / Minimum Line Set Length (ft.)		50 / 10	50 / 10
	Maximum Vertical Separation (ft.)		26	26
Refrigerant	Type		R410A	R410A
	Control Method		Electronic Expansion Valve	Electronic Expansion Valve
	Factory Charge	oz.	40.56	40.56
	Charged for		25'	25'
	Additional Refrigerant		0.16 oz./ft. over 25 ft.	0.16 oz./ft. over 25 ft.
Compressor	Manufacturer		Samsung	Samsung
	Type		DC, Inverter Driven, Rotary	DC, Inverter Driven, Rotary
	RLA	Amps	8.0	8.0
Evaporator Fan	Type		BLDC motor with cross-flow fan (1)	BLDC motor with cross-flow fan (1)
	Air Volume	CFM (L / M / H)	240 / 318 / 460	255 / 335 / 490
	Consumption	Watts	27	27
	Operating Current	Amps	0.12	0.12
Condenser Fan	Motor		BLDC motor with axial fan (1)	BLDC motor with axial fan (1)
	Output	Watts	39	39
	FLA	Amps	0.17	0.17
Optional Accessories	Condensate pump		ASP-MO-UNIV 110-250	
	Wired Controller	Standard	AR-WRS (includes sub-PCB and MWR-WH00 controller)	
		Premium	AR-WRP (includes sub-PCB and MWR-WE10 controller with scheduling)	
	Wall bracket (for outdoor unit)		CKN-250 or CKN-500	
	Line sets - insulated and flared, interconnect cables included		25' - ILS2506	
		50' - ILS5006		
Safety	Certifications		ETL & ETLc	
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing		
Warranty	10 Years compressor, 10 Year Parts, 1 Year 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.

Samsung & Quietside maintain a policy of ongoing development, specifications are subject to change without notice.

Refer to www.AHRIdirectory.org for current reference numbers.



WHISPER WiFi - SPECIFICATIONS



Model	System Model Number		AR09HSFSJWK	AR12HSFSJWK	AR18HSFSJWK	AR24HSFSJWK*
	Indoor Unit Model Number		AR09HSFSJWN	AR12HSFSJWN	AR18HSFSJWN	AR24HSFSJWN
	Outdoor Unit Model Number		AR09HSFSJWKX	AR12HSFSJWKX	AR18HSFSJWKX	AR24HSFSJWKX
Performance	Nominal Capacity*	Clg / Htg (Btu/h)	9,000 / 12,000	12,000 / 13,600	18,000 / 20,600	22,000 / 27,000
	Capacity Range	Cooling (Btu/h)	3,378 - 10,918	3,378 - 13,648	5,459 - 23,884	8,871 / 31,732
		Heating (Btu/h)	3,378 - 17,742	3,378 - 20,472	4,094 - 27,296	7,506 - 40,944
	SEER / EER		23.0 / 15.0	22.0 / 13.6	20.5 / 13.2	20.0 / 12.2
	COP		4.47	4.0	3.84	3.7
	HSPF		10.5	9.5	9.0	10.0
Condensate (pints/hour)			1.42	2.49	4.40	6.00
Power	Voltage	ø / V / Hz	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254	176 - 254	176 - 254	176 - 254
	Operating Current (Low/Std./High)	Cooling (A)	1.5 / 2.9 / 3.2	1.5 / 4.1 / 5.3	1.8 / 6.2 / 9.7	3.2 / 8.3 / 14.0
		Heating (A)	1.3 / 4.1 / 6.5	1.3 / 4.9 / 8.3	1.5 / 7.3 / 10.5	2.6 / 11.5 / 13.0
	Max. Breaker	Amps	15	15	20	30
	Min. Circuit Ampacity (A)		9.5	10.3	17.7	18.5
Dimensions	W X H X D (inches)	Indoor Unit	35 9/32 X 10 1/4 X 10 13/16	35 9/32 X 10 1/4 X 10 13/16	41 7/8 X 11 9/16 X 12 1/2	41 7/8 X 11 9/16 X 12 1/2
		Outdoor Unit	31 1/8 X 21 1/2 X 11 1/4	31 1/8 X 21 1/2 X 11 1/4	34 5/8 X 31 3/92 X 12 3/16	34 5/8 X 37 31/32 X 12 5/8
	Weight (lbs.)	Indoor Unit	22.9	22.9	31.0	31.0
		Outdoor Unit	78.3	78.3	117.0	158.0
Condensate Connection			11/16" OD	11/16" OD	11/16" OD	
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube
		FPI	18	18	18	18
		Pipe Diameter	1/4"	1/4"	1/4"	1/4"
	Indoor Unit	Main / Sub coils	2 row / 14 step	2 row / 14 step	2 row / 14 step	2 row / 14 step
		Upper Coil	1 row / 10 step	1 row / 10 step	1 row / 10 step	1 row / 10 step
	Outdoor Unit		2 row / 24 step	2 row / 24 step	2 row / 24 step	2 row / 24 step
Sound Pressure Level	Indoor Unit (dB)	Quiet / High	20 / 40	20 / 41	25 / 41	30 / 44
	Outdoor Unit (dB)	High	45	46	51	54
Operating Temperatures (°F)	Outdoor	Cooling	14 ≤ T ≤ 115	14 ≤ T ≤ 115	14 ≤ T ≤ 115	14 ≤ T ≤ 115
		Heating	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75
	Indoor	Cooling	61 ≤ T ≤ 90	61 ≤ T ≤ 90	61 ≤ T ≤ 90	61 ≤ T ≤ 90
		Heating	T ≤ 80	T ≤ 80	T ≤ 80	T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"	1/4"	1/4"	1/4"
		Low side (flare)	3/8"	3/8"	1/2"	5/8"
	Max / Min Line Set Length (ft.)		50 / 10	50 / 10	98 / 10	98 / 10
	Max Vertical Separation (ft.)		26	26	50	50
Refrigerant	Type		R410A	R410A	R410A	R410A
	Control Method		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	Factory Charge	oz.	44.1	44.1	70.5	81.13
	Charged for		25'	25'	25'	25'
	Additional Refrigerant		0.16 oz./ft. over 25 ft.	0.16 oz./ft. over 25 ft.	0.16 oz./ft. over 25 ft.	0.16 oz./ft. over 25 ft.
Compressor	Manufacturer		Samsung	Samsung	Samsung	Samsung
	Type		DC, Inverter Driven, Rotary	DC, Inverter Driven, Rotary	DC, Inverter Driven, Rotary	DC, Inverter Driven, Rotary
	RLA	Amps	4.6	4.6	8.3	13.7
Evaporator Fan	Type		BLDC with cross-flow fan (1)	BLDC with cross-flow fan (1)	BLDC with cross-flow fan (1)	BLDC with cross-flow fan (1)
	Air Volume	CFM (L / M / H)	240 / 318 / 460	255 / 335 / 487	350 / 460 / 640	390 / 480 / 670
	Consumption	Watts	27	27	27	27
	Operating Current	Amps	0.12	0.12	0.12	0.12
Condenser Fan	Motor		BLDC with axial fan (1)	BLDC with axial fan (1)	BLDC with axial fan (1)	BLDC with axial fan (1)
	Output	Watts	39	39	97.5	39
	FLA	Amps	0.17	0.17	0.37	0.17
Optional Accessories	Line sets - insulated and flared, interconnect cables included Condensate pump		25' - ILS2506	25' - ILS2506	25' - ILS2507	25' - ILS2509
			50' - ILS5006	50' - ILS5006	50' - ILS5007	50' - ILS5009
			ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250
	Wired Controller	Standard**	AR-WRS	AR-WRS	AR-WRS	AR-WRS
		Premium**	AR-WRP	AR-WRP	AR-WRP	AR-WRP
Wall bracket (for outdoor unit)			CKN-250 or CKN-500	CKN-250 or CKN-500	CKN-250 or CKN-500	
Safety	Certifications	ETL & ETLc				
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing				
Warranty	10 Years compressor, 10 Years Parts, 1 Year 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.

Samsung & QuietSide maintain a policy of ongoing development, specifications are subject to change without notice.

Refer to www.AHRIdirectory.org for current reference numbers.

**AR-WRS (includes sub-PCB and MWR-WH00 controller)

**AR-WRP (includes sub-PCB and MWR-WE10 controller with scheduling)

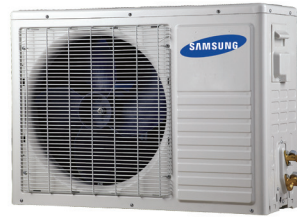
*Not energy star rated.



NOVUS

Available capacities (Btu/h) - 9,000 / 12,000 / 18,000 / 24,000

(9 & 12k models available in both 115v and 208/230v)



INVERTER COMPRESSOR

Product Features



Auto Protection

With Auto-Protection, errors are displayed on the front LED, which helps with service and maintenance.



Timer Mode

The Novus is equipped with a 24h/12h timer on/off



LED Display

This Novus is equipped with a very user-friendly LED display.



Dehumidifier

This feature allows you to keep the room dry when it's humid outside.



Anti-Cold Air

In heating mode, the fan speed is controlled according to the evaporator temperature. Only when the evaporator is warm enough will the fan begin to run, preventing cold air from being expelled.



180° Sine Wave

A true sine wave provides smooth, efficient operation, precise controls, and reduced noise levels.



Auto Restart

When the Novus turns back on (after being turned off or after a power failure), all of the previous settings, including temperature, will be retained.



High-Efficient Internal Thread Copper Pipe

With the new trapezoidal internal thread copper pipe, the heat exchange area is increased, the heat exchange efficiency is improved and the heating efficiency is enhanced.



Easy Filter Maintenance

The filters of the Novus indoor unit are easy to remove and clean which makes filter maintenance worry-free.



Quiet Operation

Both the indoor and outdoor units are designed with quiet operation in mind. An insulation blanket for the compressor and quiet motors minimize operation noises.



Powerful Cooling & Heating

The powerful compressors of the Novus series mini splits allows the system to cool or heat very quickly. No need to wait forever to feel comfortable.

Accessories for the Novus Line

Line Sets (insulated & flared, interconnect cables included)

- SLS 2506 (1/4"x3/8") 25ft
- SLS 2509 (1/4"x5/8") 25ft
- SLS 5006 (1/4" X 3/8") 50ft
- SLS 5036 (1/4" X 5/8") 50ft
- SLS 2507 (1/4"x1/2") 25ft
- SLS 5007 (1/4" X 1/2") 50ft

Condensate Pump

- ASP-MO-UNIV 110-250 (Aspen)
- BD-BLUE230 (Blue Diamond)

Wall Bracket (outdoor unit)

- CKN-250 or CKN-500

Warranty

- 7 year compressor
 - 5 year parts
 - 90 days limited labor
- Registration Required

NOVUS - SPECIFICATIONS

Model	Indoor Unit Model Number		AR09JSALBWKNCV	AR12JSALBWKNCV	AR09JSFLBWKNCV	AR12JSFLBWKNCV	AR18JSFLBWKNCV	AR24JSFLBWKNCV
	Outdoor Unit Model Number		AR09JSALBWKXCV	AR12JSALBWKXCV	AR09JSFLBWKXCV	AR12JSFLBWKXCV	AR18JSFLBWKXCV	AR24JSFLBWKXCV
Performance	Nominal Capacity	Clg / Htg (Btu/h)	9,000 / 9,000	12,000 / 12,000	9,000 / 9,000	12,000 / 12,000	18,000 / 19,000	22,000 / 24,000
	Capacity Range	Cooling (Btu/h)	5,000 - 12,500	5,000 - 14,500	5,000 - 12,500	5,000 - 14,500	8,500 - 20,000	10,000 - 27,000
		Heating (Btu/h)	4,200 - 13,500	4,200 - 16,500	4,200 - 13,500	4,200 - 16,500	7,000 - 24,000	9,500 - 31,000
	SEER / EER		20 / 13.0	20 / 12.8	20 / 13.0	20 / 12.8	20 / 12.2	20 / 12.2
	COP		3.72	3.4	3.7	3.4	3.3	3.3
	HSPF		9.0	9.0	9.0	9.0	9.5	9.8
	Condensate (pints/hour)		1.42	2.49	1.42	2.49	4.40	6.00
Power	Voltage	ø / V / Hz	1 / 115 / 60	1 / 115 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60
	Working Voltage Range (VAC)		103 - 126	103 - 126	187 - 254	187 - 254	187 - 254	187 - 254
	Operating Current (Low/Std./High)	Cooling (A)	4.0/5.9/11.6	4.1/8.2/12.7	2.6/3.5/5.7	2.7/5.0/6.4	3.3/7.8/8.9	3.9/9.3/14.2
		Heating (A)	4.4/6.2/12.0	4.6/8.5/16.7	2.4/3.9/5.9	3.0/5.2/8.3	3.3/8.9/12.6	4.2/11.4/18.2
	Max. Breaker Amps		25	25	15	15	20	30
	Min. Circuit Ampacity (A)		16	16	10	10	14	18
Dimensions	W X H X D (inches)	Indoor Unit	31 1/2 X 11 1/32 X 8 9/32	35 7/16 X 11 3/32 X 8 29/32	31 1/2 X 11 1/32 X 8 9/32	35 7/16 X 11 3/32 X 8 29/32	40 11/16 X 12 5/16 X 8	46 11/16 X 13 3/8 X 10 1/4
		Outdoor Unit	29 13/16 X 21 5/8 X 10 1/16	30 13/16 X 23 13/16 X 11 7/16	29 13/16 X 21 5/8 X 10 1/16	30 13/16 X 23 13/16 X 11 7/16	35 1/2 X 25 9/16 X 12 1/16	35 7/16 X 31 11/16 X 14 3/16
	Weight (lbs.)	Indoor Unit	19.8	26.5	19.8	26.5	28.7	37.5
		Outdoor Unit	66.1	77.2	66.1	77.2	94.8	136.7
	Condensate Connection			13/16"	13/16"	13/16"	13/16"	13/16"
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube	Aluminum Fin - Copper Tube
		Pipe Diameter (inches)	9/32	9/32	9/32	9/32	9/32	9/32
	Indoor Unit		2 row / 15 step	2 row / 15 step	2 row / 15 step	2 row / 15 step	2 row / 17 step	2 row / 17 step
	Outdoor Unit		2 row / 24 step	2 row / 26 step	2 row / 24 step	2 row / 26 step	2 row / 28 step	2 row / 36 step
Sound Pressure Level	Indoor Unit (dB)	Quiet / High	40 / 26	42 / 31	40 / 26	42 / 31	50 / 37	51 / 37
	Outdoor Unit (dB)	High	46	52	46	52	55	56
Operating Temperatures (°F)	Outdoor	Cooling	14 ≤ T ≤ 115	14 ≤ T ≤ 115	14 ≤ T ≤ 115	14 ≤ T ≤ 115	14 ≤ T ≤ 115	14 ≤ T ≤ 115
		Heating	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75
	Indoor	Cooling	62 ≤ T ≤ 90	62 ≤ T ≤ 90	62 ≤ T ≤ 90	62 ≤ T ≤ 90	62 ≤ T ≤ 90	62 ≤ T ≤ 90
		Heating	20 ≤ T ≤ 80	20 ≤ T ≤ 80	20 ≤ T ≤ 80	20 ≤ T ≤ 80	20 ≤ T ≤ 80	20 ≤ T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4	1/4	1/4	1/4	1/4	1/4
		Low side (flare)	3/8	3/8	3/8	3/8	1/2	5/8
	Max / Min Line Set Length (ft.)		50 / 9.8	50 / 9.8	50 / 9.8	50 / 9.8	50 / 9.8	50 / 9.8
	Maximum Vertical Separation (ft.)		16.4	16.4	16.4	16.4	16.4	16.4
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Control Method		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	Factory Charge	oz.	33.51	40.56	33.51	40.56	61.73	75.84
	Charged for		25 feet	25 feet	25 feet	25 feet	25 feet	25 feet
	Additional Refrigerant		0.22 oz./ft. over 25ft.	0.22 oz./ft. over 25ft.	0.22 oz./ft. over 25ft.	0.22 oz./ft. over 25ft.	0.32 oz./ft. over 25ft.	0.32 oz./ft. over 25ft.
Compressor	Type		BLDC, Inverter Driven, Rotary	BLDC, Inverter Driven, Rotary	BLDC, Inverter Driven, Rotary	BLDC, Inverter Driven, Rotary	BLDC, Inverter Driven, Rotary	BLDC, Inverter Driven, Rotary
	RLA	Amps	11.5	13.5	6.6	7.5	10.5	13.5
Evaporator Fan	Type		BLDC motor w/cross-flow fan	BLDC motor w/cross-flow fan	BLDC motor w/cross-flow fan	BLDC motor w/cross-flow fan	BLDC motor w/cross-flow fan	BLDC motor w/cross-flow fan
	Air Volume	CFM (L / M / H)	390 / 320 / 250 / 210	425 / 353 / 282 / 247	390 / 320 / 250 / 210	425 / 353 / 282 / 247	635 / 530 / 460 / 425	812 / 636 / 565 / 495
	FLA	Amps	0.5	0.6	0.35	0.4	0.55	0.65
Condenser Fan	Motor		BLDC motor with axial fan (1)	BLDC motor with axial fan (1)	BLDC motor with axial fan (1)	BLDC motor with axial fan (1)	BLDC motor with axial fan (1)	BLDC motor with axial fan (1)
	Air Volume	CFM (max.)	1024	1342	1024	1342	2048	2154
	FLA	Amps	0.55	0.65	0.45	0.45	0.85	0.95
Optional Accessories	Condensate pump	Aspen (24V - 250V)	ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250	ASP-MO-UNIV 110-250
		Blue Diamond (230V)	-	-	BD-BLUE230	BD-BLUE230	BD-BLUE230	BD-BLUE230
	Wall bracket (for outdoor unit)		CKN-250 or CKN-500	CKN-250 or CKN-500	CKN-250 or CKN-500	CKN-250 or CKN-500	CKN-250 or CKN-500	CKN-250 or CKN-500
	Line sets - insulated and flared, interconnect cables included		25' - SLS2506 50' - SLS5006	25' - SLS2506 50' - SLS5006	25' - SLS2506 50' - SLS5006	25' - SLS2506 50' - SLS5006	25' - SLS2507 50' - SLS5007	25' - SLS2509 50' - SLS5036 (SLS5009)
Safety	Certifications	ETL & ETLc						
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing						
Warranty	7 Years compressor, 5 Year Parts, 90 Days Limited Labor (Registration Required)							

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.

MAX

Available capacities (Btu/h) - 36,000



Optional Wired Controller Kits*

SIMPLIFIED AQN-WRS



Kit includes:
sub-PCB &
MWR-WH00
controller
(non- programmable)

PREMIUM AQN-WRP



Kit includes:
sub-PCB &
MWR-WE10
controller
(programmable)

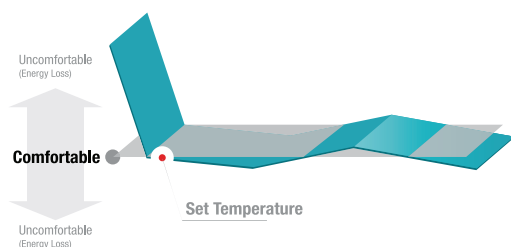
Product Features

Digital Inverter System Get Comfortable Fast & Efficiently

Unlike conventional mini splits, Samsung's systems equipped with the Digital Inverter system reaches and maintains the desired set temperature without the constant shutting off and on of the compressor.

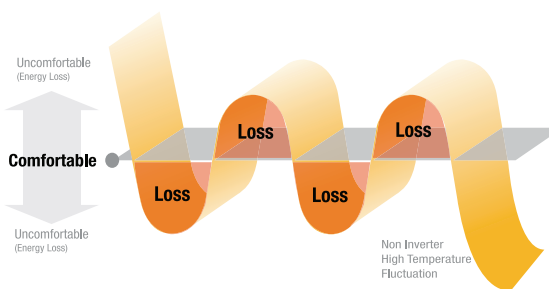
Digital Inverter

Smart Inverter technology automatically adjusts power to cope with any variances, assuring you experience less temperature fluctuation for optimal comfort.



Conventional

Conventional mini splits shut off when the set temperature is reached and turns back on when the temperature variance is high, causing large fluctuations in temperature and in comfort.



Full HD Filter Helps keep the air clean

With Samsung's advanced Full High Density Filter, you can be sure your room is kept fresh and clean. The Full HD (High Density) Filter offers improved filtration by removing even the smallest microscopic dust particles and allergens from the air. The anti-bacterial coating also helps keep the filter clean, allowing you to breathe fresh air.

Convenience Features

- Auto restart
- Turbo mode (during cooling operation only)
- Auto changeover
- 24 hour timer
- Good Sleep mode
- Quiet mode
- Dry mode
- Anti-corrosion film



Warranty

- 10 year compressor
 - 10 year parts
 - 1 year limited labor
- Registration Required*

*For MWR-WH00 & MWR-WE10 controller features, please refer to page 11 of this catalog.

MAX - SPECIFICATIONS

Model	Indoor Unit Model		AQN36VFUAGM
	Outdoor Unit Model		AQX36VFUAGM
Performance	Nominal Capacity (Btu/h)	Cooling	36,000
		Heating	36,000
	Capacity Range (Btu/h)	Cooling	9,000 - 38,000
		Heating	9,000 - 45,000
	SEER / EER		18.0 / 10.8
	HSPF		9.0
Condensate (pints/hour)		8.45	
Power	Voltage (ø/V/Hz)		1 / 208-230 / 60
	Rated Current (Low/Std./Max.)	Cooling (A)	3.6 / 14.2 / 18.0
		Heating (A)	3.3 / 14.5 / 21
	Max. Breaker (A)		30
Min. Circuit Ampacity (A)		19.5	
Dimensions	W X H X D (inches)	Indoor Unit	50 3/8 X 13 9/16 X 10
		Outdoor Unit	36 11/16 X 45 7/8 X 14 3/4
	Weight (lbs)	Indoor Unit	40
		Outdoor Unit	192
	Condensate Connection		11/16" OD
Heat Exchanger	Indoor & Outdoor Unit	Type	Aluminum Fin - Copper Tube
		Pipe Diameter	1/4 inch
	Indoor Unit		2 row / 18 step
Outdoor Unit		2 row / 52 step	
Sound Pressure Level (dB)	Indoor Unit	Low / High	33 / 46
	Outdoor Unit	High	58
Operating Temperatures (°F)	Outdoor	Cooling	14 ≤ T ≤ 115
		Heating	5 ≤ T ≤ 75
	Indoor	Cooling	61 ≤ T ≤ 90
		Heating	T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	5/8"
	Maximum / Minimum Line Set Length (ft.)		164 / 10
	Maximum Vertical Separation (ft.)		98
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	88.1
	Charged for		25 ft.
Additional Refrigerant		0.43 oz./ft. over 25 ft.	
Compressor	Manufacturer		Samsung
	Type		DC, Inverter Driven, Rotary
	RLA (A)		13.8
	Operating Frequency (Low/Std./Max.)	Cooling (Hz)	15 / 55 / 63
Heating (Hz)		15 / 50 / 69	
Evaporator Fan	Type		BLDC motor with cross-flow fan (1)
	Air Volume (max. CFM)		900
	Consumption	W	58
	Operating Current (A)		0.22
Condenser Fan	Motor		BLDC W/Axial Fan (2)
	Output	W	248
	FLA	Amps	1.04
Optional Accessories	Condensate pump		ASP-MO-UNIV 110-250
	Wired Controller	Standard ¹	AQN-WRS
		Premium ²	AQN-WRP
	Wall Bracket (for outdoor unit)		CKN-250 or CKN-500
	Line sets - insulated and flared, interconnect cables included		25' - ILS2509
		50' - ILS5009	
Safety	Certification	ETL & ETLc	
	Safety Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heater, temperature limit protection logic, compressor overload sensing	
Warranty	10 Years compressor, 10 Year Parts, 1 Year Limited Labor		



¹ AQN-WRS includes sub-PCB and MWR-WH00 wired controller.

² AQN-WRP includes sub-PCB and MWR-WE10 wired controller.

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.

QuietSide and Samsung maintain a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.



FREE JOINT MULTI Multi-Zone System



Outdoor unit capacities (Btu/h) - 17,000 / 22,000 / 36,000

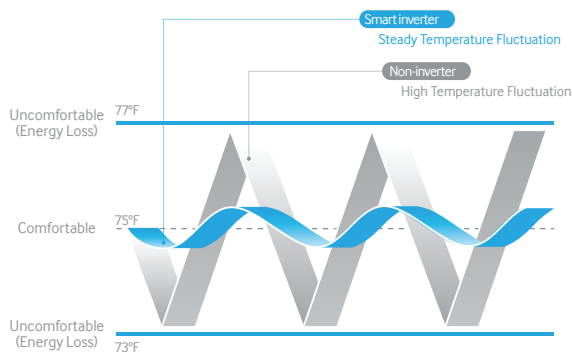


Samsung's Free Joint Multi is the best solution for residential buildings requiring a flexible, efficient and reliable air conditioning system. A single Free Joint Multi outdoor unit can support a variety of up to 5 indoor units with minimal installation space, providing efficient cooling and heating operation in multiple areas.

Digital Inverter Fast Cooling, Comfort Cooling



The Free Joint Multi system employs Samsung's Digital Inverter control system, which enhances the efficiency of the outdoor unit - depending on the number of attached indoor units and the temperature setting. The Digital 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 the Digital Inverter feature is the fact that it gives you powerful, quick cooling and heating with minimal energy consumption, reducing waste and ultimately, saving you money.



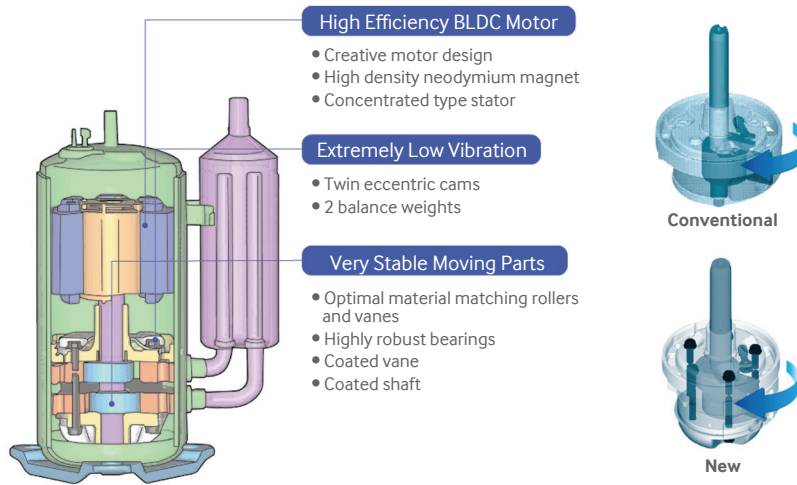
Warranty

- 10 year compressor
- 10 year parts
- 1 year limited labor

Registration Required

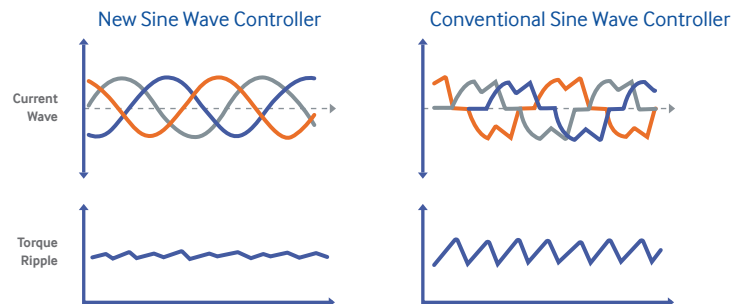
Twin BLDC Compressors Stable Compressor Operation

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



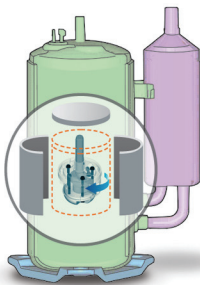
Sine Wave Controller Noise Reduction

All Samsung FJM models are equipped with a Sine Wave Controller. Smoother current waves result in a soft acoustic quality and overall noise reduction.



Compressor Sound Insulator

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



Easy Installation

The one button auto addressing solution makes installation easier.

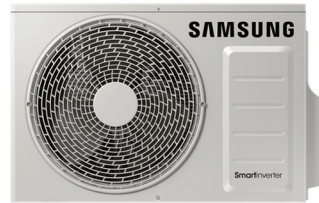
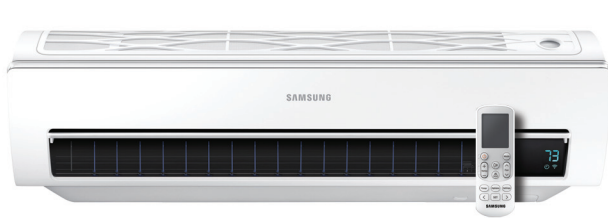


FREE JOINT MULTI INDOOR UNITS



WHISPER (FJM)

Available capacities (Btu/h) - 7,000 / 9,000 / 12,000 / 18,000 / 24,000



Optional Wired Controllers



The Whisper indoor unit of the Free Joint Multi system is the perfect blend of function and form. With its many innovative features, such as the Triangle Design, the Whisper was engineered to give you immediate comfort, while conserving energy. In short, you get powerful cooling, with minimal energy use. Plus, the Whisper's design cues are meant to blend in with any interior. With the Whisper, you simply cannot go wrong.

Product Features

- **The Triangle Design**
Cools faster, farther and wider - the ultimate cooling design
- **3-Care Air Filter**
Helps eliminate bacteria, viruses and allergens
- **Easy Filter Access**
Clean and maintain your filter with ease
- **Easy Installation**
A new & improved mounting bracket allows for easier evaporator installation

Convenience Features

- Auto Restart
- Digital LED display
- Auto Changeover
- 24-hour single event, ON/OFF timer
- Good Sleep Mode
- Quiet Mode
- Dry Mode
- Filter cleaning reminder
- Display and beep ON/OFF with wireless controller

WHISPER (FJM) - FEATURES

The Triangle Cools Fast, Far and Wide

The unique triangular design of the Whisper FJM was developed to provide fast and efficient cooling, providing both comfort and reliability to you, the end user. The triangular design of the evaporator employs a wider inlet, which enables it to draw in more air and the improved width and angle of the outlet, along with extra v-blades ensures air is cooled and delivered faster and further than before. Now, everyone in the room can enjoy cool and refreshing air from the Whisper.

3-Care Air Filter 3 Levels of Protection

The Whisper FJM uses a 3-care filter that has a special coating to prevent it from becoming contaminated with allergens, viruses, and bacteria. Together with removing dust particles from the air, this helps keep the air in your room clean and fresh.

Easy Filter Access Worry-Free Maintenance

Unlike conventional filters that are often difficult to access, the Easy Filter of Samsung's Whisper FJM is located outside and on top of the unit. The filter can be easily removed, cleaned and reinserted. For added convenience, the filter can be cleaned with a vacuum without removing the cover.

Easy Installation & Access Install & Access with Ease

Everyone knows how difficult and cumbersome it can be to mount a mini split indoor unit to the wall. With conventional units, the evaporator would hang on the mounting bracket with 2 hooks. The Whisper FJM does it differently - its new & improved redesigned bracket lets you mount the unit without much trouble at all. The evaporator affords easy-access to pipe and drain connections via an access panel on the front of the unit for easier installation and service.

Control Options 3 Different Ways

The Whisper FJM can be controlled in 3 different ways. The wireless remote controller is included with the system at no extra charge. For applications where a wireless control is not acceptable (i.e., public facilities) 2 wired controllers - Simple and Premium, are available to purchase as an option. Each wired controller is sold as a package which contains a wired remote controller, a Sub-PCB and a connection harness.



DB93-14643R

Standard - Wireless Remote

- Power ON/OFF
- Model
- Fan Speed
- Airflow/Temperature Setting
- Filter replacement alarm reset
- Simple ON/OFF timer function
- Easy-to-see display
- Soft touch buttons
- Multi-channel (max. 4 channels)



AR-WRP

Optional - Premium Wired Remote

- ON/OFF Operating Model, Fan Speed, Airflow/Temp Setting
- Error display
- Filter replacement alarm reset
- 'Sleep' and 'Silent' mode
- Built-in room temperature sensor
- Child lock
- Automatic stop mode
- Wireless remote control restriction
- Clear & bright screen w/backlit LCD screen
- Weekly schedule setting
- Exception date setting
- Different permission levels
- Consists of 3 total parts

MWR-WE10
+
Sub-PCB
+
Connection
Harness



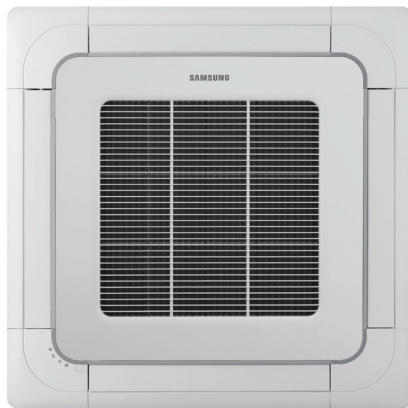
AR-WRS02

Optional - Simple Wired Remote

- ON/OFF Operating Model, Fan Speed, Airflow/Temp Setting
- 'Sleep' and 'Silent' mode
- Built-in room temperature sensor
- Child lock
- Automatic stop mode
- Simple schedule control
- Different permission levels
- Consists of 3 total parts

MWR-WH02
+
Sub-PCB
+
Connection
Harness

FREE JOINT MULTI INDOOR UNITS



MINI 4-WAY CASSETTE

Available capacities (Btu/h) - 9,000 / 12,000 / 18,000



Simple and Premium
Wired Controllers
(neither included with
system*)



MR-DH00U
Wireless
Remote Controller
(Additional accessories are required
to use wireless control)

Product Features

Compact and Lightweight

Samsung's Mini 4-Way Cassette's compact size and lightweight body allows it to be installed in a standard 24" ceiling tile.

Built-in Condensate Pump

For added convenience, a condensate pump with a check valve and a maximum lift of 29.5" is built-in to the unit. The check valve prevents drained water from flowing backwards into the drain pan.

Easy-Care Filter

Electro-static, washable, pleated filters are supplied as standard (included with the fascia panel).

Surround Airflow

The Mini 4-Way Cassette's outlet can cool every portion of your interior. The new and improved design of the blades minimizes blind spots and can almost cover a full 360° around the indoor unit.

System Protection

The Mini 4-Way Cassette's high-voltage terminal block temperature sensor disables the unit in the event the power connection overheats.

Individual Blade Control

By using the remote controller, the opening angles of the 4 blades can be individually set at the same or different angles (within a 32°-65° range) for more efficient cooling.

Turbo Fan

The indoor fan is a single turbo type with 3 fan speed and auto settings.

*A controller must be purchased as a separate item. It is NOT included with the system.

FREE JOINT MULTI INDOOR UNITS



MWR-WH02
Simple Wired Controller

SLIM DUCT

Available capacities (Btu/h) - 9,000 / 12,000 / 18,000

Optional Controllers*



MWR-WE10
Premium
Wired Controller



MR-DH00U
Wireless
Remote Controller
(Additional accessories are required
to use wireless control)

Product Features

Flexible Installation

The air inlet of the Slim Duct can be set up on either the bottom or the rear of the unit, providing more flexibility during installation.

System Protection

The Slim Duct's high-voltage terminal block temperature sensor disables the unit in the event the power connection overheats.

Slim and Light

At only 7 ⁷/₈ inches thick, the Slim Duct makes installation, maintenance and repair hassle-free. Its lightweight chassis also makes installation easier than ever.

Easy to Maintain

Parts are easily accessible by simply opening the bottom panel, which reduces maintenance time and costs.

Filter Clean Notification

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

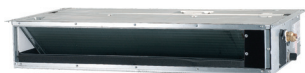
**These 2 controllers are optional accessories and must be purchased separately.*



FREE JOINT MULTI

OUTDOOR/INDOOR CONNECTION OPTIONS

INDOOR UNIT MODEL NUMBERS & CAPACITIES



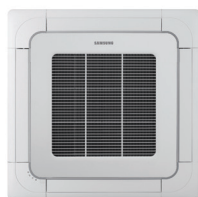
Slim Duct

AJ009JNLDCH/AA - 9K Btu
AJ012JNLDCH/AA - 12K Btu
AJ018JNLDCH/AA - 18K Btu



Whisper

AJ007JNADCH/AA - 7K Btu
AJ009JNADCH/AA - 9K Btu
AJ012JNADCH/AA - 12K Btu
AJ018JNADCH/AA - 18K Btu
AJ024JNADCH/AA - 24K Btu



Mini 4-Way Cassette

AJ009JNNDCH/AA - 9K Btu
AJ012JNNDCH/AA - 12K Btu
AJ018JNNDCH/AA - 18K Btu



AJ020JCJ2CH/AA

Indoor Unit Connection Options*

Indoor Unit		
	A	B
2 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ012JN*DCH/AA
	AJ009JN*DCH/AA	AJ009JN*DCH/AA
	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ012JN*DCH/AA	AJ012JN*DCH/AA



AJ024JCJ3CH/AA

Indoor Unit Connection Options*

Indoor Unit			
	A	B	C
2 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	
	AJ007JN*DCH/AA	AJ018JN*DCH/AA	
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
	AJ009JN*DCH/AA	AJ018JN*DCH/AA	
	AJ012JN*DCH/AA	AJ012JN*DCH/AA	
	AJ012JN*DCH/AA	AJ018JN*DCH/AA	
3 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA

*Same capacity indoor units can be mixed and matched.

OUTDOOR/INDOOR CONNECTION OPTIONS

**AJ036JCJ5CH/AA** Indoor Unit Connection Options*

		Indoor Unit				
		A	B	C	D	E
2 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA				
	AJ007JN*DCH/AA	AJ009JN*DCH/AA				
	AJ007JN*DCH/AA	AJ012JN*DCH/AA				
	AJ007JN*DCH/AA	AJ018JN*DCH/AA				
	AJ007JN*DCH/AA	AJ024JN*DCH/AA				
	AJ009JN*DCH/AA	AJ009JN*DCH/AA				
	AJ009JN*DCH/AA	AJ012JN*DCH/AA				
	AJ009JN*DCH/AA	AJ018JN*DCH/AA				
	AJ009JN*DCH/AA	AJ024JN*DCH/AA				
	AJ012JN*DCH/AA	AJ012JN*DCH/AA				
	AJ012JN*DCH/AA	AJ018JN*DCH/AA				
	AJ012JN*DCH/AA	AJ024JN*DCH/AA				
	AJ018JN*DCH/AA	AJ018JN*DCH/AA				
	AJ018JN*DCH/AA	AJ024JN*DCH/AA				
3 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA			
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA			
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA			
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ018JN*DCH/AA			
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ024JN*DCH/AA			
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA			
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA			
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA			
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ024JN*DCH/AA			
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA			
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA			
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ024JN*DCH/AA			
	AJ007JN*DCH/AA	AJ018JN*DCH/AA	AJ018JN*DCH/AA			
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA			
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA			
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA			
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ024JN*DCH/AA			
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA			
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA			
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ024JN*DCH/AA			
4 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ018JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA		
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA		
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA		
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA		
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA		
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA		
5 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA	
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA	
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA	
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	

*Same capacity indoor units can be mixed and matched.



FREE JOINT MULTI

CONTROL ACCESSORIES

MIM-N01

Central control interface module for connection to DVM S NASA central controls



MIM-B14

External contact control module



MIM-B13D

Central control interface module for connection to DVM Plus central controls



DRK-10AU

Wireless signal receiver for Slim Duct units (receiver and wire)



MRW-TA

External temperature sensor





OUTDOOR UNITS - SPECIFICATIONS

Model Number			AJ020JCJ2CH/AA	AJ024JCJ3CH/AA	AJ036JCJ5CH/AA
General	Nominal Capacity*	Tons	1.5	2	3
	Connectible indoor unit quantity		2	2 - 3	2 - 5
Performance*	Capacity (standard / max.)	Cooling (Btu/h)	17,000 / 17,000	22,000 / 22,000	36,000 / 36,000
		Heating (Btu/h)	22,000 / 25,300	25,000 / 29,200	40,000 / 44,000
	Min Cooling Capacity (Btu/h)		6,500	7,500	9,500
	Min Heating Capacity (Btu/h)		3,500	4,300	7,600
	Maximum Indoor Unit Connection Ratio (%)		140%	135%	125%
	SEER (Non-ducted / Ducted)		18.5 / 17.0	18.0 / 16.0	18.5 / 16.5
	EER (Non-ducted / Ducted)		12.2 / 11.1	12.1 / 10.1	10.4 / 9.8
	HSPF (Non-ducted / Ducted)		9.0 / 8.7	9.0 / 8.7	9.5 / 9.0
Power	Voltage (øV/Hz)		1/208-230V/60Hz	1/208-230V/60Hz	1/208-230V/60Hz
	Rated Current (L / M / H)	Cooling (A)	2.2 / 6.7 / 6.7	2.6 / 8.7 / 8.7	2.9 / 16.5 / 16.5
		Heating (A)	1.9 / 8.3 / 10.7	1.9 / 8.5 / 13.6	2.2 / 15.1 / 18.4
	Minimum Circuit Ampacity	Amps	11	16.9	18.2
	Maximum Breaker	Amps	15	25	30
Compressor	Type		Inverter Driven, Twin-BLDC, Rotary	Inverter Driven, Twin-BLDC, Rotary	Inverter Driven, Twin-BLDC, Rotary
	RLA	Amps	8.3	13	13.7
Dimensions	W X H X D (inches)		34 5/8 x 31 7/16 x 14 5/16	34 5/8 x 31 7/16 x 14 5/16	37 X 39 9/32 X 13
	Weight (lbs)		126	143	166
Noise Level	Outdoor Unit (Db)		48	49	54
Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115
	Heating	°F	5 ≤ T ≤ 75	5 ≤ T ≤ 75	5 ≤ T ≤ 75
Pipe Connections	High Side		1/4" X 2	1/4" X 3	1/4" X 5
	Low Side (suction)		3/8" X 2	3/8" X 2 + 1/2" X 1	3/8" X 2 + 1/2" X 3
	Included Pipe Adapters		-	1 - 1/2" X 3/8"	3 - 1/2" X 3/8", 2 - 1/2" X 5/8"
	Maximum Individual Line Set Length		82 feet	82 feet	82 feet
	Maximum Line Set Length		164 feet	230 feet	262 feet
	Maximum Vertical Separation	ODU to IDU	49 feet	49 feet	49 feet
		IDU to IDU	25 feet	25 feet	25 feet
Refrigerant	Type		R410A	R410A	R410A
	Control Method		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	Factory Charge		77.6 oz	98.8 oz	116.4 oz
	Charged for		98 feet	131 feet	131 feet
	Additional Refrigerant		0.11 oz/ft over 98 feet	0.11 oz/ft over 131 feet	0.22 oz/ft over 131 feet
Certifications	Safety Certifications		ETL & ETLc	ETL & ETLc	ETL & ETLc
	Performance	AHRI Certification Number	Non-ducted: 7915890	Non-ducted: 7915888	Non-ducted: 7915886
			Ducted: 7915891	Ducted: 7915889	Ducted: 7915887
Warranty			10 Years compressor, 10 Year Parts, 1 Year 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.





INDOOR UNIT SPECIFICATIONS - WHISPER FJM

Type			Wall Mounted				
Model Number			AJ007JNADCH/AA	AJ009JNADCH/AA	AJ012JNADCH/AA	AJ018JNADCH/AA	AJ024JNADCH/AA
Performance*	Nominal Cooling Capacity* (Btu/h)		7,000	9,000	12,000	17,100	22,000
	Nominal Heating Capacity* (Btu/h)		7,500	10,900	14,000	20,000	25,000
Power	Voltage (øV/Hz)		1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60
	Operating Current (Amp)		0.3	0.3	0.3	0.4	0.4
	Max Breaker	Amps	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit
Fan	Airflow (L/M/H)	CFM	245 / 260 / 295	265 / 300 / 355	265 / 320 / 390	460 / 495 / 600	425 / 495 / 635
Dimensions	Indoor Unit	Width (inches)	32 1/2	32 1/2	32 1/2	41 7/8	41 7/8
		Height (inches)	10 1/4	10 1/4	10 1/4	11 9/16	11 9/16
		Depth (inches)	10 13/16	10 13/16	10 13/16	12 1/2	12 1/2
	Weight (lbs.)	Indoor Unit	21.00	21.00	21.00	29.10	30.86
Sound Pressure Level	Low/High (dB)		18 / 38	18 / 38	18 / 39	20 / 42	25 / 43
Pipe Connections	Indoor & Outdoor	High side	1/4"	1/4"	1/4"	1/4"	1/4"
		Low side	3/8"	3/8"	3/8"	1/2"	5/8"
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 #		See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit	See outdoor unit

*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.





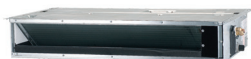
INDOOR UNIT SPECIFICATIONS - SLIM DUCT FJM

Type			Ducted Unit		
Model Number			AJ009JNLDCH/AA	AJ012JNLDCH/AA	AJ018JNLDCH/AA
Performance*	Nominal Cooling Capacity* (Btu/h)		9,000	12,000	18,000
	Nominal Heating Capacity* (Btu/h)		10,000	13,000	19,000
Power	Voltage (øV/Hz)		1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60
	Operating Current (Amp)		0.35	0.35	0.69
	Max Breaker	Amps	See outdoor unit	See outdoor unit	See outdoor unit
Fan	Airflow (L/M/H)	CFM	295 / 320 / 345	345 / 355 / 375	525 / 550 / 580
	Max External Static Pressure ("WC)		0.08	0.08	0.08
Dimensions	Indoor Unit	Width (inches)	35 7/16	35 7/16	43 1/4
		Height (inches)	7 13/16	7 13/16	7 13/16
		Depth (inches)	23 5/8	23 5/8	23 5/8
		Weight (lbs.)	51.36	51.36	63.93
Sound Pressure Level	Low/High (dB)		25 / 30	27 / 32	30 / 33
Pipe Connections	Indoor & Outdoor	High side	1/4"	1/4"	1/4"
		Low side	3/8"	3/8"	1/2"
Certification	Safety		ETL & ETLc	ETL & ETLc	ETL & ETLc
	Performance		AHRI Certified	AHRI Certified	AHRI Certified
	AHRI Certification #		See outdoor unit	See outdoor unit	See outdoor unit

*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.





INDOOR UNIT SPECIFICATIONS - MINI 4-WAY CASSETTE FJM

Type		Mini 4-Way Cassette			
Model Number		AJ009JNNDCH/A	AJ012JNNDCH/A	AJ018JNNDCH/AA	
Performance*	Nominal Cooling Capacity* (Btu/h)	8,900	11,900	17,700	
	Nominal Heating Capacity* (Btu/h)	9,900	13,000	19,100	
Power	Voltage (ø/V/Hz)	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	
	Operating Current (Amp)	0.51	0.52	0.53	
	Max Breaker	Amps	See outdoor unit	See outdoor unit	See outdoor unit
Fan	Airflow (L/M/H)	CFM	245 / 290 / 350	260 / 320 / 380	260 / 320 / 380
Dimensions	Indoor Unit	Width (inches)	22 5/8	22 5/8	22 5/8
		Height (inches)	10	10	10
		Depth (inches)	22 5/8	22 5/8	22 5/8
	Weight (lbs.)	Indoor Unit	24.25	24.25	26.00
Sound Pressure Level	Low/High (dB)		27 / 33	27 / 35	32 / 39
Pipe Connections	Indoor & Outdoor	High side	1/4"	1/4"	1/4"
		Low side	3/8"	3/8"	1/2"
Certification	Safety	ETL & ETLc	ETL & ETLc	ETL & ETLc	
	Performance	AHRI Certified	AHRI Certified	AHRI Certified	
	AHRI Certification #	See outdoor unit	See outdoor unit	See outdoor unit	

Front Fascia (Panel) part number: **PC4SUSMB**

*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.



ACCESSORIES*

Pearl • Whisper • Free Joint Multi • MAX

Line Sets (insulated and flared, interconnect power and communication cables included)

Part Number	Size	Included Wire	Length	Used On
ILS2506	1/4" X 3/8"	14-3 Plus 16-2	25'	Pearl 9 & 12K, Whisper WiFi 9 & 12K,
ILS5006	1/4" X 3/8"	14-3 Plus 16-2	50'	Pearl 9 & 12K, Whisper WiFi 9 & 12K,
ILS2507	1/4" X 1/2"	14-3 Plus 16-2	25'	Whisper WiFi 18K, FJM Whisper 18K,
ILS5007	1/4" X 1/2"	14-3 Plus 16-2	50'	Whisper WiFi 18K, FJM Whisper 18K,
ILS2509	1/4" X 5/8"	14-3 Plus 16-2	25'	MAX, Whisper 24K, FJM Whisper 24K
ILS5009	1/4" X 5/8"	14-3 Plus 16-2	50'	MAX, Whisper 24K, FJM Whisper 24K

Interconnect Wire

Part Number	Description	Length	Used On
I33-100	2 wire 16 AWG shielded	100'	All Samsung ductless systems
I33-250		250'	
I33-500		500'	

Condensate Pumps

Part Number	Description	Used On
ASP-MO-UNIV 110-250	110-250V mini pump	All Pearl, Whisper, MAX, Novus and Free Joint Multi (except FJM Slim Duct & Cassette)
BD-BLUE 230 (BLUE DIAMOND)	230V mini pump	All Pearl, Whisper, MAX, Novus and Free Joint Multi (except FJM Slim Duct & Cassette)
MDP-E075SEE3D	12VDC OEM pump with float switch	FJM Slim Duct 9, 12 & 18K

Condenser Wall Bracket

Part Number	Description	Used On
CKN-250 & CKN-500	Outdoor unit mounting bracket	All Pearl, Whisper, MAX, Novus and Free Joint Multi outdoor units

Outdoor Unit Wind Baffles for Low Ambient Cooling Operation

Part Number	Description
WBMF-9/12/18	Front wind baffle for Pearl 9 & 12K, Whisper WiFi 9,12 & 18K
WBMF-24/36	Front wind baffle for MAX (2 required), Whisper 24K, and FJM 20K & 24K
WBF-1	Front wind baffle for FJM 36K
WBMB-9/12/18/36	Rear wind baffle for MAX (2 required), Pearl 9 & 12K, Whisper WiFi 9,12 & 18K
WBMB-24	Rear wind baffle for Whisper 24K
WBB-1	Rear wind baffle for FJM 20 & 24K
WBB-3	Rear wind baffle for FJM 36K

Control Accessories

Part Number	Description	Used On
MIM-B14	External contact control and operation error output	Pearl 9 & 12K, FJM Mini 4-Way 9, 12 & 18K, FJM Slim Duct 9, 12 & 18K
MCR-SMA	Motion occupancy sensor	FJM Mini 4-Way 9, 12 & 18K
MRK-A00 + MRW-10A	Wireless signal receiver	FJM Slim Duct 9, 12 & 18K

*Due to Samsung and Quietside's policy of ongoing product development, some part numbers may change without prior notice. Latest up-to-date submittals

FJM Whisper 7, 9 & 12K, FJM Mini 4-Way 9 & 12K, FJM Slim Duct 9 & 12K

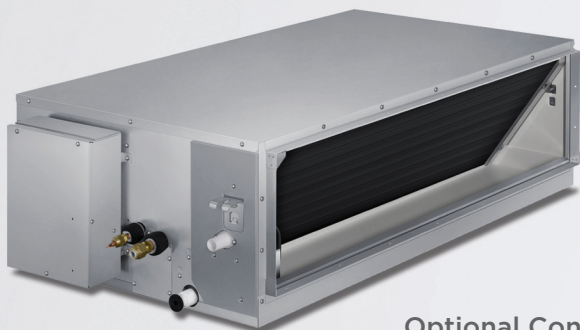
FJM Whisper 7, 9 & 12K, FJM Mini 4-Way 9 & 12K, FJM Slim Duct 9 & 12K

FJM Mini 4-Way 18K, FJM Slim Duct 18K

FJM Mini 4-Way 18K, FJM Slim Duct 18K

DUCT

Available capacities (Btu/h) - 18,000 / 24,000 / 30,000 / 36,000 / 42,000 / 48,000
(Single Zone Only)



Optional Controllers*



MWR-WE10N
PREMIUM WIRED
CONTROLLER
(with scheduling)



MWR-SHOON
SIMPLIFIED
WIRED CONTROLLER



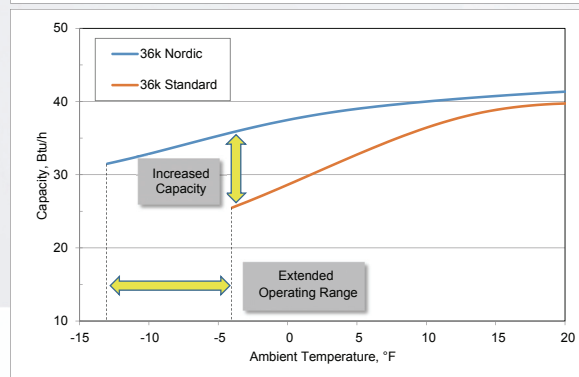
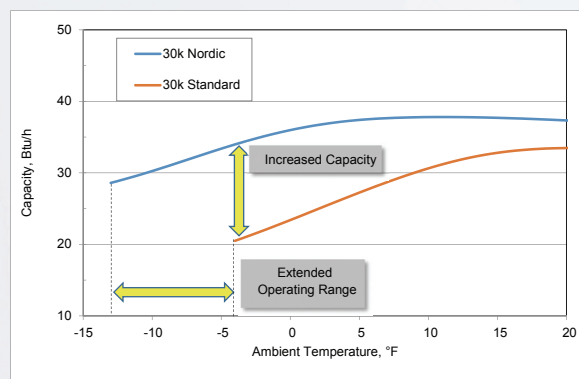
MR-EH00U
WIRELESS CONTROLLER
(add'l parts required, see specs)

Product Features

- Top-Class Energy Efficiency
- Optional WiFi Control Capabilities
- Flexible Pipe Installation
- Wide Temperature Performance
- Comfortable Temperature
- Fast Cooling & Heating
- Pre Filter
- Easy Filter Cleaning
- High Lift Drain Pump
- Slim and Lightweight
- Low Ambient Option (NORDIC outdoor unit)
- Twin Rotary BLDC Compressor
- 7-Day Programming**
- 3-Step Quiet Mode
- Wide Operating Range
- Compatible with DVMS Central Controls (add'l interface modules not required)
- Powerful Cooling
- FMC (Flat Micro-channel Condenser)
- Silent Operation
- Away Mode

NORDIC Outdoor Unit - Available in 30k and 36k btu/h capacities

- Pairs with standard DUCT indoor units
- Extended Heating Operating Range to -13°F
- Up to 30% improved heating capacity



Nordic CAC Performance Increase

*The Duct system does not include any controllers as standard. One of these controllers must be purchased separately.

** When used with the MWR-WE10N Premium Wired Controller.

Top-Class Energy Efficiency Digital Inverter System

The Digital Inverter feature gives powerful and quick cooling and heating with minimal electricity consumption. After reaching the desired set temperature, the system changes its operation mode to economical. By avoiding inefficient and frequent switching on and off of the compressor, the digital inverter can save up to 50% in energy consumption when compared to non-inverter air conditioners.

Control via WiFi* Control From Anywhere

As long as your smartphone is connected to the internet, you can control your Ducted system from anywhere. On a hot day, you can turn on your system with your smartphone and come home to a cool house. On a chilly day, turn on the heat ahead of time so you don't have to walk into a cold living room. Having total control of your Samsung A/C was never easier.



Flexible Pipe Installation 4 Different Ways

The condensing unit of the Duct system has 4 different ways you can connect the piping. Because you can position the condensing unit in different ways, this feature provides great flexibility during installation, and also gives a clean and organized look after the job is complete.



Wide Temperature Performance 122°F to -13°F**

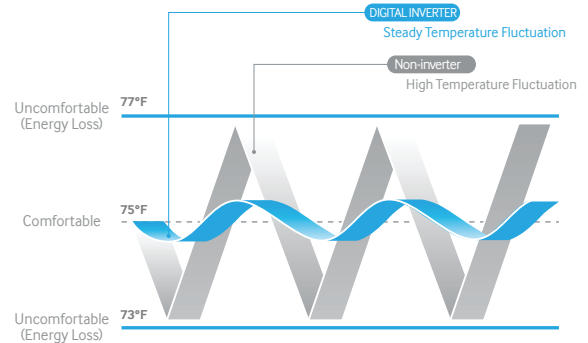
With the Ducted mini split system, there's no need to worry about using it under severe temperatures. It has a wide temperature allowance, meaning it can cool in the burning heat of 122°F or provide heat in the freezing cold of -13°F.

*A separate WiFi kit must be installed to use the WiFi function.

**Standard CAC Outdoor operates to -4°F, Nordic to -13°F

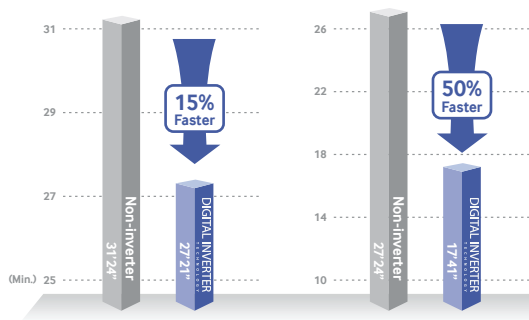
Comfortable Temperature Get Comfortable Fast

The Digital Inverter of the Duct mini split works at maximum capacity at start-up. As soon as the desired temperature is reached it performs fine adjustments to cope with any changes. This equates to less temperature fluctuation, and comfort can be achieved very quickly.



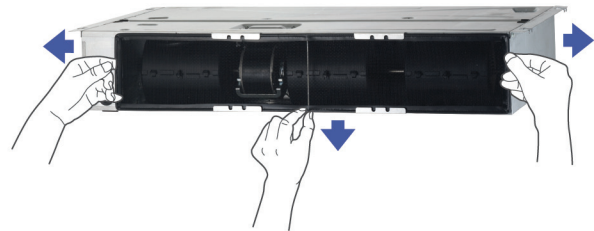
Fast Cooling & Heating

When you change the temperature setting, the Duct system will use the compressor's maximum capacity to quickly reach the desired temperature, resulting in 15% faster cooling and 50% faster heating.



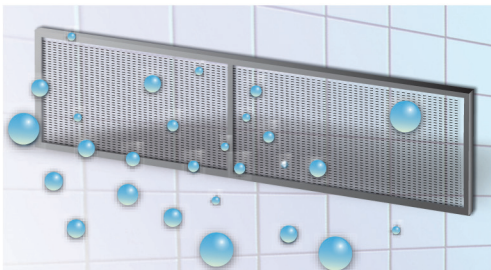
Easy Filter Cleaning

After 1,000 hours of operation, the 'filter clean' indicator will notify you that the filter should be cleaned. The filter can be easily removed from the bottom, left, or right of the unit. (1,000 hours is the default set time, which can be adjusted to 2,000 hours on the internal PCB).



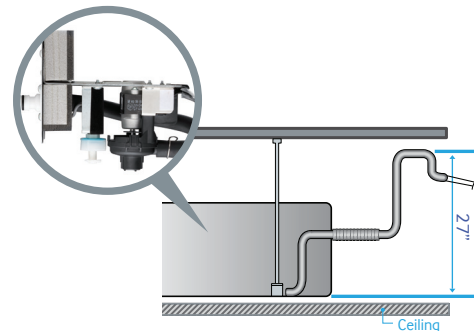
Pre Filter

The Duct mini split system has a Pre Filter that traps dust particles, which helps keep the room clean and fresh.



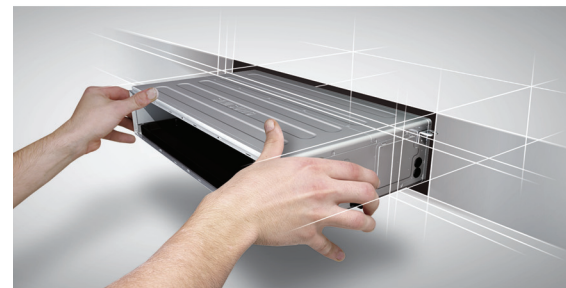
High Lift Drain Pump

The high lift drain pump lifts condensed water up to 27 inches.



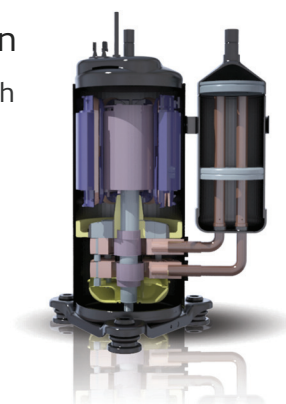
Slim & Lightweight Makes for Easier Installation

The reduced size of the Duct indoor unit makes installation easier and more versatile by fitting into small spaces. The reduced weight also makes it easier to handle the indoor unit during installation and maintenance.



Twin BLDC Compressors Minimal Compressor Vibration

The Duct outdoor unit uses twin BLDC compressors with highly stable moving parts which reduces torque variation by 70% when compared to a conventional single BLDC compressor.

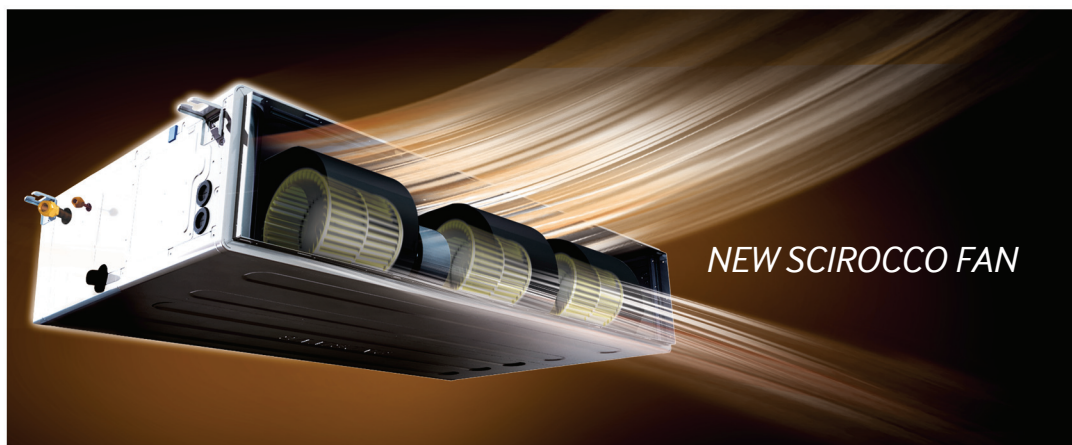


FMC (Flat Micro-channel Condenser)

The Ducted outdoor unit's FMC(Flat Micro-channel Condenser) feature achieves a 30% increase in efficiency compared with a conventional fin & tube type. There has also been a 30% decrease in size.

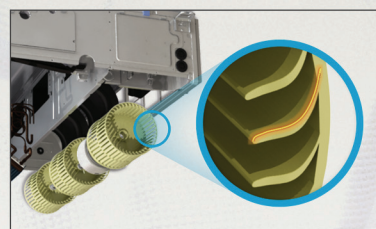
Powerful Cooling

The increase in size of the new Scirocco Fan of the Duct indoor unit increases the air volume allowing it to support powerful cooling capabilities.



Quiet Operation

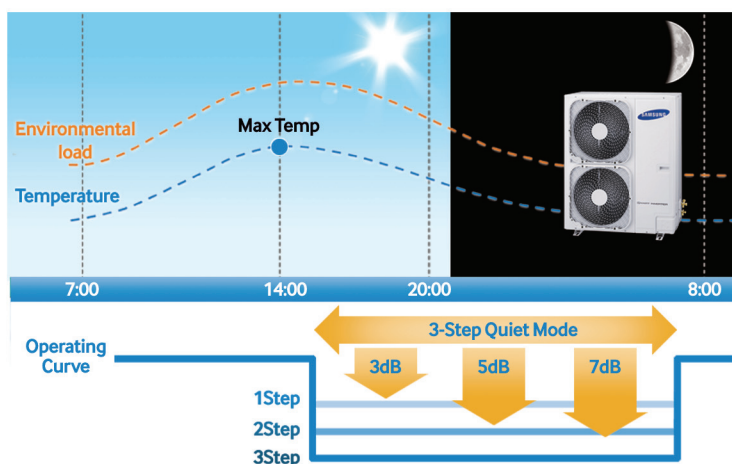
The new Aero-blade of the indoor fan motor increases air volume by 10% while creating very little noise.



HIGH EFFICIENCY FAN & DC MOTOR

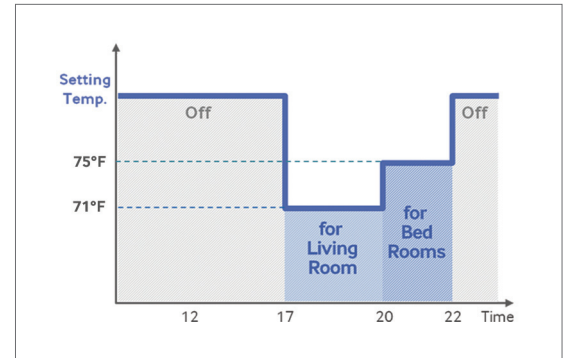
3-Step Quiet Mode

Ensures Quiet Operation during the night (7dB)



7-Day Programming

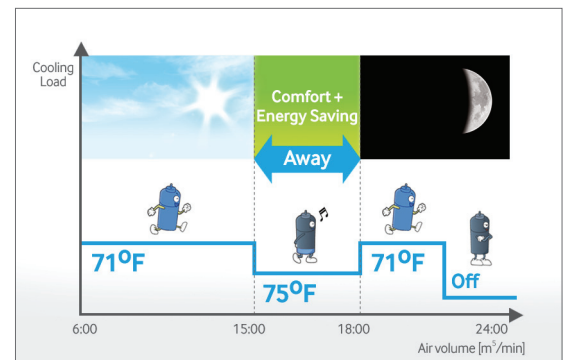
Available only on the MWR-WE10N Premium Wired Controller, you can program your system to turn on and turn off during the day and/or night.



Away Mode

Remain Comfortable, Energy Saving (Thermal Storage Operation)

- Keep the Room Cool during Summer Season.
- Keep the Room Warm during Winter Season.



DUCT - SPECIFICATIONS

Model	Indoor Unit Model Number		AC018JNHDCH/AA	AC024JNHDCH/AA	AC030JNHDCH/AA
	Outdoor Unit Model Number		AC018JXADCH/AA	AC024JXADCH/AA	AC030JXADCH/AA
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000	24,000 / 27,000	30,000 / 32,000
	Capacity Range	Cooling (Btu/h)	5,000 - 21,000	7,000 - 27,000	9,300 / 35,000
		Heating (Btu/h)	3,800 - 25,000	5,200 - 31,000	9,000 / 38,000
	SEER / EER		19.6 / 11.2	20.0 / 12.1	19.1 / 11.1
	COP (nominal heating)		3.40	3.99	3.53
	HSPF		10.3	10.5	10
	AHRI Certification Number		8032087	8032088	8032089
Condensate (pints/hour)		4.26	6.13	7.03	
Power	Voltage	ø / V / Hz	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)	176 - 254 (max. 3% deviation from each)	176 - 254 (max. 3% deviation from each)
	Operating Current (min. / std. / max.)	Cooling (A)	2.1 / 7.4 / 10	2.8 / 9.2 / 12.0	4.0 / 12.0 / 17.0
		Heating (A)	1.7 / 8.0 / 12	2.5 / 10.8 / 14.5	3.4 / 12.0 / 21.8
	Max. Breaker	Amps	15	20	30
	Min. Circuit Ampacity (A)		7.7	11.7	19.3
Dimensions	W X H X D (inches)	Indoor Unit	45 1/4 X 12 9/16 X 18 7/8	45 1/4 X 12 9/16 X 18 7/8	47 1/4 X 14 3/16 X 25 9/16
		Outdoor Unit	34 5/8 X 25 1/8 X 12 1/4	37 X 39 11/16 X 12 3/4	37 X 39 11/16 X 12 3/4
	Weight (lbs.)	Indoor Unit	94.8	94.8	128
		Outdoor Unit	99	142	154
	Duct Connections (inches)	Supply	39 3/8 X 9 5/16	39 3/8 X 9 5/16	45 3/4 X 10 15/16
	Return (ID)	37 1/2 X 8 3/4	37 1/2 X 8 3/4	45 5/8 X 10 1/4	
Heat Exchanger	Indoor Unit	Type	Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube
		FPI	18	18	18
		Pipe Diameter (inches)	1/4	1/4	1/4
	Outdoor Unit	Type	Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	26 / 30 / 34	28 / 32 / 36	29 / 33 / 37
	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48	50 / 50	50 / 52
Operating Temperatures (°F)	Outdoor	Cooling	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115
			0 ≤ T ≤ 115	0 ≤ T ≤ 115	0 ≤ T ≤ 115
		Heating	-4 ≤ T ≤ 76	-4 ≤ T ≤ 76	-4 ≤ T ≤ 76
	Indoor	Cooling	61 ≤ T ≤ 90	61 ≤ T ≤ 90	61 ≤ T ≤ 90
		Heating	T ≤ 80	T ≤ 80	T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"	1/4"	3/8"
		Low side (flare)	1/2"	5/8"	5/8"
	Maximum (ft.)		98	164	164
	Maximum Vertical Separation (ft.)		66	98	98
	Condensate Connection		1" OD, 3/4" ID	1" OD, 3/4" ID	1" OD, 3/4" ID
Refrigerant	Type		R410A	R410A	R410A
	Control Method		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	Factory Charge	oz.	45.86	74.08	91.71
	Charged for		25 feet	25 feet	25 feet
	Additional Refrigerant		0.11 oz/ft over 25 feet	0.11 oz/ft over 25 feet	0.24 oz/ft over 25 feet
Compressor	Manufacturer		Samsung	Samsung	Samsung
	Type		Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary
	RLA	Amps	6.1	9.0	15.1
Evaporator Fan	Type		BLDC (1) With Sirocco Fan (2)	BLDC (1) With Sirocco Fan (2)	BLDC (2) With Sirocco Fan (2)
	Air Volume	CFM (L/M/H)	390 / 490 / 590	540 / 640 / 740	760 / 860 / 960
	Output	Watts	183	183	183 X 2
		FLA (A)	0.85	0.85	1.9 X 2
	Static Pressure	Standard ("WC)	0.12	0.12	1.12
Min. / Max. ("WC)		0 - 0.6	0 - 0.6	0.12 - 0.8	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)	BLDC With Axial Type Fan (1)	BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		0.13 A / 39 W / 1,550 CFM	0.48 A / 125 W / 2,190 CFM	0.48 A / 125 W / 2,200 CFM
Optional Accessories	Wired Controller	Simplified	MWR-SH00N	MWR-SH00N	MWR-SH00N
		Premium w/scheduling	MWR-WE10N	MWR-WE10N	MWR-WE10N
	Wireless Signal Control	Wireless Signal Receiver	MRK-A00N	MRK-A00N	MRK-A00N
		Wireless Controller	MR-DH00U	MR-DH00U	MR-DH00U
	External Temperature Sensor		MRW-TA	MRW-TA	MRW-TA
	External Contact Control		MIM-B14	MIM-B14	MIM-B14
	Wi-Fi Adapter		MIM-H03UN	MIM-H03UN	MIM-H03UN
	Central Control Interface Module for Connection to DVM Plus Controls (non-NASA)		MIM-N01	MIM-N01	MIM-N01
	Wall Bracket (for outdoor unit)		CKN-250	CKN-250	CKN-250
	Wind Baffles	Front	WBMF-9/12/18	WBF-1	WBF-1
		Back	WBMB-9/12/18/36	WBB-3	WBB-3
	Line Sets - insulated and flared, interconnect cables included		ILS-2507	ILS-2509	ILS-2510
		ILS-5007	ILS-5009	ILS-5010	
Safety	Certifications		ETL & ETLc		
	Devices		PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing		
Warranty			10 Years compressor, 10 Year Parts, 1 Year Limited Labor		



AC036JNHDCH/AA AC036JXADCH/A A	AC042JNHDCH/AA AC042JXADCH/AA	AC048JNHDCH/AA AC048JXADCH/AA
36,000 / 40,000	42,000 / 47,000	48,000 / 53,000
14,000 - 40,000	16,300 - 45,000	18,600 - 51,000
11,500 - 48,000	13,400 - 50,000	15,300 - 55,000
20.0 / 12.0	19.0 / 10.5	18.1 / 9.7
3.55	3.46	3.08
10	10	9.6
8032116	8032174	8032185
8.24	9.37	12.35
1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60
176 - 254 (max. 3% deviation from each)	176 - 254 (max. 3% deviation from each)	176 - 254 (max. 3% deviation from each)
4.8 / 13.3 / 17.0	5.6 / 16.4 / 21.0	6.4 / 21.5 / 23.0
3.7 / 14.3 / 23.0	4.3 / 17.3 / 25.0	5.0 / 20.0 / 28.0
35	35	35
22.2	22.2	22.2
47 1/4 X 14 3/16 X 25 9/16	47 1/4 X 14 3/16 X 25 9/16	47 1/4 X 14 3/16 X 25 9/16
37 X 48 X 13	37 X 48 X 13	37 X 48 X 13
128	128	128
194	194	194
45 3/4 X 10 15/16	45 3/4 X 10 15/16	45 3/4 X 10 15/16
45 5/8 X 10 1/4	45 5/8 X 10 1/4	45 5/8 X 10 1/4
Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube
18	18	18
1/4	1/4	1/4
Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel
30 / 34 / 38	34 / 37 / 40	37 / 40 / 43
49 / 51	51 / 53	53 / 55
23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115
0 ≤ T ≤ 115	0 ≤ T ≤ 115	0 ≤ T ≤ 115
-4 ≤ T ≤ 76	-4 ≤ T ≤ 76	-4 ≤ T ≤ 76
61 ≤ T ≤ 90	61 ≤ T ≤ 90	61 ≤ T ≤ 90
T ≤ 80	T ≤ 80	T ≤ 80
3/8"	3/8"	3/8"
5/8"	5/8"	5/8"
246	246	246
98	98	98
1" OD, 3/4" ID	1" OD, 3/4" ID	1" OD, 3/4" ID
R410A	R410A	R410A
Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
98.77	98.77	98.77
25 feet	25 feet	25 feet
0.355 oz/ft over 25 feet	0.355 oz/ft over 25 feet	0.355 oz/ft over 25 feet
Samsung	Samsung	Samsung
Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary
17.0	17.0	17.0
BLDC (2) With Sirocco Fan (2)	BLDC (2) With Sirocco Fan (2)	BLDC (2) With Sirocco Fan (2)
900 / 1020 / 1140	1160 / 1280 / 1400	1280 / 1400 / 1520
183 X 2	183 X 2	183 X 2
1.9 X 2	1.9 X 2	1.9 X 2
1.12	1.12	1.12
0.12 - 0.8	0.12 - 0.8	0.12 - 0.8
BLDC With Axial Type Fan (2)	BLDC With Axial Type Fan (2)	BLDC With Axial Type Fan (2)
0.48 A X 2 / 125 W X 2 / 3,040 CFM	0.48 A X 2 / 125 W X 2 / 3,040 CFM	0.48 A X 2 / 125 W X 2 / 3,040 CFM
MWR-SH00N	MWR-SH00N	MWR-SH00N
MWR-WE10N	MWR-WE10N	MWR-WE10N
MRK-A00N	MRK-A00N	MRK-A00N
MR-DH00U	MR-DH00U	MR-DH00U
MRW-TA	MRW-TA	MRW-TA
MIM-B14	MIM-B14	MIM-B14
MIM-H03UN	MIM-H03UN	MIM-H03UN
MIM-N01	MIM-N01	MIM-N01
CKN-250	CKN-250	CKN-250
WBF-1 (2 required)	WBF-1 (2 required)	WBF-1 (2 required)
WBB-2	WBB-2	WBB-2
ILS-2510	ILS-2510	ILS-2510
ILS-5010	ILS-5010	ILS-5010

ETL & ETLc

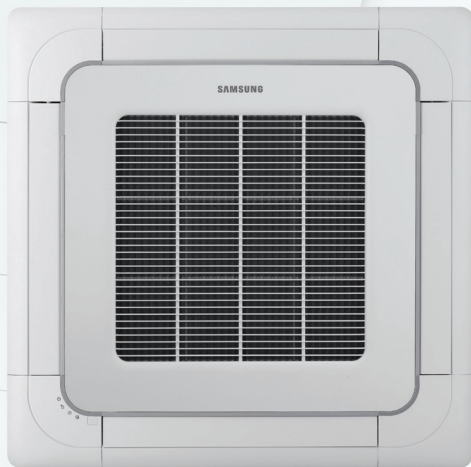
PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing

10 Years compressor, 10 Year Parts, 1 Year Limited Labor



4-WAY CASSETTE

Available capacities (Btu/h) - 18,000 / 24,000 / 30,000 / 36,000 / 42,000 / 48,000 (Single Zone Only)



Optional Controllers*



MWR-WE10N
PREMIUM WIRED
CONTROLLER
(with scheduling)



MWR-SHOON
SIMPLIFIED
WIRED CONTROLLER



MR-EH00U
WIRELESS CONTROLLER
(add'l parts required, see
specs)

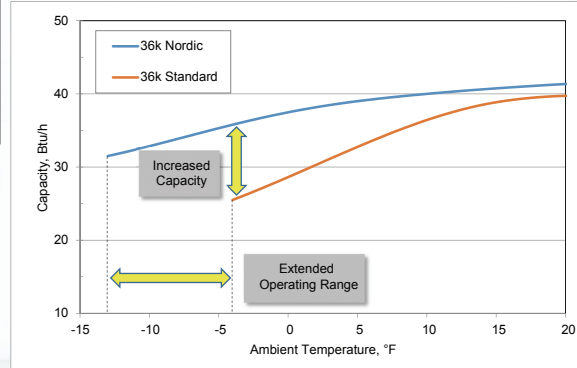
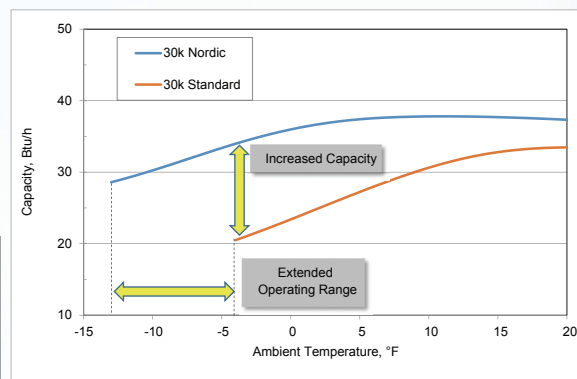
Product Features

- Top-Class Energy Efficiency
- Optional WiFi Control Capabilities
- Flexible Pipe Installation
- Wide Temperature Performance
- Comfortable Temperature
- Fast Cooling & Heating
- Powerful Airflow
- Ceiling Dust Prevention
- High Lift Drain Pump
- Lightweight
- Twin Rotary BLDC Compressor
- FMC (Flat Micro-channel Condenser)
- 7-Day Programming**
- Individual Blade Control
- Drainwater Overflow Protection
- Easy Leveling
- Easy Blade Cleaning
- Innovative Turbo Fan
- Surround Air Flow
- Compatible with DVMS Central Controls
(add'l interface modules not required)

NORDIC Outdoor Unit 30k & 36k btu/h

- Pairs with standard DUCT indoor units
- Extended Heating Operating Range to -13°F
- Up to 30% improved heating capacity

Nordic CAC Performance Increase



*The 4-Way Cassette system does not include any controllers as standard. One of these controllers must be purchased separately.

** When used with the MWR-WE10N Premium Wired Controller.

Top-Class Energy Efficiency

The Digital Inverter feature gives powerful and quick cooling and heating with minimal electricity consumption. After reaching the desired set temperature, the system changes its operation mode to economical. By avoiding efficient and frequent switching on and off of the compressor, the digital inverter can save up to 50% in energy consumption when compared to non-inverter air conditioners.

Control via WiFi*

As long as your smartphone is connected to the internet, you can control your 4-Way Cassette system from anywhere. On a hot day, you can turn on your system with your smartphone and come home to a cool house. On a chilly day, turn on the heat ahead of time so you don't have to walk into a cold living room. Having total control of your Samsung A/C was never easier.

Flexible Pipe Installation

The condensing unit of the Duct system has 4 different ways you can connect the piping. Because you can position the condensing unit in different ways, this feature provides great flexibility during installation, and also gives a clean and organized look after the job is complete.

Wide Temperature Performance

With the 4-Way Cassette mini split system, there's no need to worry about using it under severe temperatures. It has a wide temperature allowance, meaning it can cool in the burning heat of 122°F or provide heat in the freezing cold of -4°F.

Comfortable Temperature

The Digital Inverter of the 4-Way Cassette mini split works at maximum capacity at start-up. As soon as the desired temperature is reached it performs fine adjustments to cope with any changes. This equates to less temperature fluctuation, and comfort can be achieved very quickly.

Fast Cooling & Heating

When you change the temperature setting, the 4-Way Cassette system will use the compressor's maximum capacity to quickly reach the desired temperature, resulting in 15% faster cooling and 50% faster heating.

Twin BLDC Compressors

The 4-Way Cassette outdoor unit uses twin BLDC compressors with highly stable moving parts which reduces torque variation by 70% when compared to a conventional single BLDC compressor.

FMC (Flat Micro-channel Condenser)

The 4-Way Cassette outdoor unit's FMC (Flat Micro-channel Condenser) feature achieves a 30% increase in efficiency compared with a conventional fin & tube type. It's also 30% smaller than before.

*a separate WiFi kit must be installed to use the WiFi function.

High Lift Drain Pump

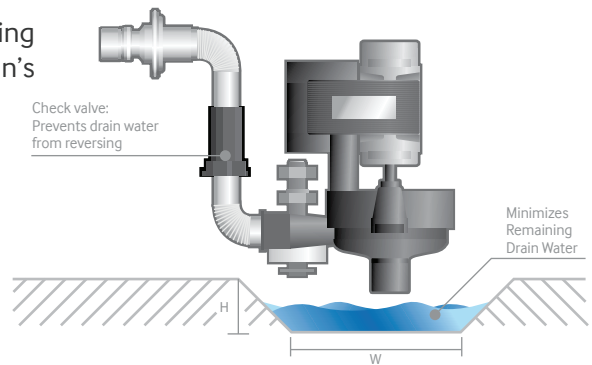
The high lift drain pump lifts condensed water up to 27 inches.

Individual Blade Control

By using the remote controller, the opening angles of the 4 blades can be individually set at the same or different angles (within a 32°-65° range) for more efficient cooling.

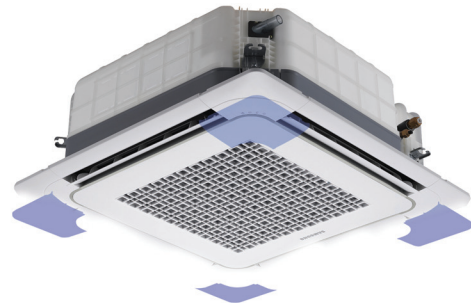
Drainwater Overflow Protection

The check valve on the drain pump prevents drained water from flowing backward into the drain pan. This also minimizes the the drain pan's water to a safe level to minimize overflowing.



Easy Leveling

Each corner portion of the panel is detachable: this makes it easier to adjust the height, and makes installation and leveling much easier and quicker.



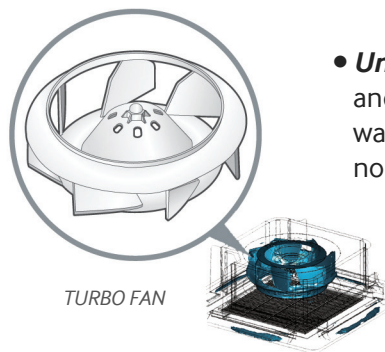
Easy Blade Cleaning

The 4Way Cassette indoor units have detachable air flow blades so you don't have to remove the entire panel when it's time to clean them. This makes cleaning the blades much easier.



Innovative Turbo Fan

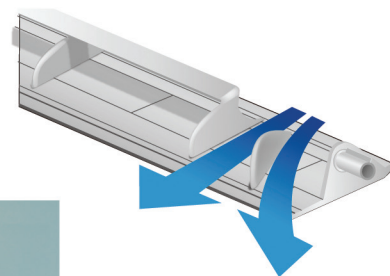
- **Quiet Operation** - Imagine a room of comfort & calm. The aerodynamically designed Turbo Fan in the 4-Way Cassette indoor unit minimizes noise from the turbulence of blade movement, meaning this unit make less noise than conventional models.



- **Uniform Distribution** - The Turbo Fan with wide blades provides extreme cooling and heating power from 4 separate outlets so the entire room cools down or warms up quicker. With its far reach, this unit can extend comfort to virtually every nook and cranny of the room.

Surround Air Flow

The 4-way outlet can cool every part of your room with its new and practical design of the blades, which minimizes blind spots at the corners of the panel. This allows the 4-Way Cassette to almost cover a full 360° around the indoor unit for maximum coverage.



4-WAY CASSETTE - SPECIFICATIONS

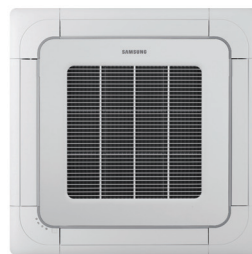
Model	Indoor Unit Model Number		AC018JN4DCH/AA	AC024JN4DCH/AA	AC030JN4DCH/AA	
	Outdoor Unit Model Number		AC018JXADCH/AA	AC024JXADCH/AA	AC030JXADCH/AA	
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000	24,000 / 27,000	30,000 / 32,000	
	Capacity Range	Cooling (Btu/h)	5,000 - 21,000	7,000 - 27,000	9,300 / 35,000	
		Heating (Btu/h)	3,800 - 25,000	5,200 - 31,000	9,000 / 38,000	
	SEER / EER		20.1 / 11.7	20.5 / 11.4	19.2 / 10.4	
	COP (nominal heating)		3.66	3.17	3.02	
	HSPF		10.0	9.7	9.8	
	AHRI Certification Number		7917618	7918786	7918787	
Condensate (pints/hour)		2.00	6.8	7.5		
Power	Voltage	ø / V / Hz	1 / 208-230 / 60	1 / 208-230 / 60	1 / 208-230 / 60	
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)	176 - 254 (max. 3% deviation from each)	176 - 254 (max. 3% deviation from each)	
	Operating Current (min. / std. / max.)	Cooling (A)	2.1 / 7.1 / 10	2.8 / 9.8 / 12.0	4.0 / 13.4 / 17.0	
		Heating (A)	1.7 / 7.4 / 12.0	2.5 / 11.6 / 14.5	3.4 / 14.4 / 21.8	
	Max. Breaker		Amps	15	20	30
	Min. Circuit Ampacity (A)			7.7	11.7	19.3
Dimensions	W X H X D (inches)	Indoor Unit	33 X 8 X 33	33 X 8 X 33	33 X 11 5/16 X 33	
		Outdoor Unit	34 5/8 X 25 1/8 X 12 1/4	37 X 39 11/16 X 12 3/4	37 X 39 11/16 X 12 3/4	
	Weight (lbs.)	Indoor Unit	33.7	33.7	41.89	
		Outdoor Unit	99	142	154	
Heat Exchanger	Indoor Unit	Type	Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube	
		FPI	18	18	18	
		Pipe Diameter (inches)	1/4	1/4	1/4	
	Outdoor Unit	Type	Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel	
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	30 / 33 / 36	30 / 33 / 36	32 / 35 / 38	
	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48	48 / 48	50 / 52	
Operating Temperatures (°F)	Outdoor	Cooling	23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115	
			0 ≤ T ≤ 115	0 ≤ T ≤ 115	0 ≤ T ≤ 115	
		Heating	-4 ≤ T ≤ 76	-4 ≤ T ≤ 76	-4 ≤ T ≤ 76	
	Indoor	Cooling	61 ≤ T ≤ 90	61 ≤ T ≤ 90	61 ≤ T ≤ 90	
		Heating	T ≤ 80	T ≤ 80	T ≤ 80	
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"	1/4"	3/8"	
		Low side (flare)	1/2"	5/8"	5/8"	
	Maximum (ft.)		98	164	164	
	Maximum Vertical Separation (ft.)		66	98	98	
	Condensate Connection		1" OD, 3/4" ID	1" OD, 3/4" ID	1" OD, 3/4" ID	
Refrigerant	Type		R410A	R410A	R410A	
	Control Method		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
	Factory Charge	oz.	45.86	74.08	91.71	
	Charged for		25 feet	25 feet	25 feet	
	Additional Refrigerant		0.11 oz/ft over 25 feet	0.11 oz/ft over 25 feet	0.24 oz/ft over 25 feet	
Compressor	Manufacturer		Samsung	Samsung	Samsung	
	Type		Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary	
	RLA	Amps	6.1	9.0	15.1	
Evaporator Fan	Type		BLDC (1) With Turbo Type Fan (1)	BLDC (1) With Turbo Type Fan (1)	BLDC (1) With Turbo Type Fan (1)	
	Air Volume	CFM (L/M/H)	460 / 550 / 600	500 / 580 / 640	700 / 800 / 900	
	Output	Watts	65	65	97	
	FLA (A)		0.33	0.33	0.35	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)	BLDC With Axial Type Fan (1)	BLDC With Axial Type Fan (1)	
	FLA / Watts / CFM (max.)		0.13 A / 39 W / 1,550 CFM	0.48 A / 125 W / 2,190 CFM	0.48 A / 125 W / 2,200 CFM	
Fascia Panel	Model Number		PC4NUSKFN	PC4NUSKFN	PC4NUSKFN	
	L X W X H	Inches	37 3/8 X 37 3/8 X 1	37 3/8 X 37 3/8 X 1	37 3/8 X 37 3/8 X 1	
	Weight	lbs.	13.00	13.00	13.00	
Optional Accessories	Wired Controller	Simplified	MWR-SH00N	MWR-SH00N	MWR-SH00N	
		Premium w/scheduling	MWR-WE10N	MWR-WE10N	MWR-WE10N	
	Wireless Signal Control	Wireless Signal Receiver	MRK-A00N	MRK-A00N	MRK-A00N	
		Wireless Controller	MR-DH00U	MR-DH00U	MR-DH00U	
	External Temperature Sensor		MRW-TA	MRW-TA	MRW-TA	
	External Contact Control		MIM-B14	MIM-B14	MIM-B14	
	Wi-Fi Adapter		MIM-H03UN	MIM-H03UN	MIM-H03UN	
	Central Control Interface Module for Connection to DVM Plus Controls (non-NASA)		MIM-N01	MIM-N01	MIM-N01	
	Wall Bracket (for outdoor unit)		CKN-250	CKN-250	CKN-250	
	Wind Baffles	Front	WBMF-9/12/18	WBF-1	WBF-1	
Back		WBMB-9/12/18/36	WBB-3	WBB-3		
Line Sets - insulated and flared, interconnect cables included			ILS-2507	ILS-2509	ILS-2510	
			ILS-5007	ILS-5009	ILS-5010	
Safety	Certifications		ETL & ETLc			
	Devices		PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing			
Warranty			10 Years compressor, 10 Year Parts, 1 Year Limited Labor			

AC036JN4DCH/AA AC036JXADCH/AA	AC042JN4DCH/AA AC042JXADCH/AA	AC048JN4DCH/AA AC048JXADCH/AA
36,000 / 40,000	42,000 / 47,000	48,000 / 53,000
14,000 - 40,000	16,300 - 45,000	18,600 - 51,000
11,500 - 48,000	13,400 - 50,000	15,300 - 55,000
20.5 / 12.1	19.6 / 10.4	18.8 / 9.7
3.37	3.17	3.08
9.5	9.5	9.5
7918788	7918789	7918790
8.5	11.2	14.8
1 / 208-230 / 60 176 - 254 (max. 3% deviation from each)	1 / 208-230 / 60 176 - 254 (max. 3% deviation from each)	1 / 208-230 / 60 176 - 254 (max. 3% deviation from each)
4.8 / 13.8 / 17.0	5.6 / 18.7 / 21.0	6.4 / 22.9 / 23.0
3.7 / 16.1 / 23.0	4.3 / 20.1 / 25.0	5.0 / 23.4 / 28.0
35	35	35
22.2	22.2	22.2
33 X 11 5/16 X 33	33 X 11 5/16 X 33	33 X 11 5/16 X 33
37 X 48 X 13	37 X 48 X 13	37 X 48 X 13
41.89	41.89	41.89
194	194	194
Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube	Aluminum Fin / Copper Tube
18	18	18
1/4	1/4	1/4
Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel	Aluminum, Flat Fin, Micro Channel
33 / 38 / 43	34 / 40 / 44	35 / 41 / 45
49 / 51	51 / 53	53 / 55
23 ≤ T ≤ 115	23 ≤ T ≤ 115	23 ≤ T ≤ 115
0 ≤ T ≤ 115	0 ≤ T ≤ 115	0 ≤ T ≤ 115
-4 ≤ T ≤ 76	-4 ≤ T ≤ 76	-4 ≤ T ≤ 76
61 ≤ T ≤ 90	61 ≤ T ≤ 90	61 ≤ T ≤ 90
T ≤ 80	T ≤ 80	T ≤ 80
3/8"	3/8"	3/8"
5/8"	5/8"	5/8"
246	246	246
98	98	98
1" OD, 3/4" ID	1" OD, 3/4" ID	1" OD, 3/4" ID
R410A	R410A	R410A
Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
98.77	98.77	98.77
25 feet	25 feet	25 feet
0.355 oz/ft over 25 feet	0.355 oz/ft over 25 feet	0.355 oz/ft over 25 feet
Samsung	Samsung	Samsung
Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary	Inverter Driven, Twin BLDC Rotary
17.0	17.0	17.0
BLDC (1) With Turbo Type Fan (1)	BLDC (1) With Turbo Type Fan (1)	BLDC (1) With Turbo Type Fan (1)
840 / 960 / 1180	900 / 1010 / 1250	950 / 1040 / 1300
97	97	97
0.35	0.35	0.35
BLDC With Axial Type Fan (2)	BLDC With Axial Type Fan (2)	BLDC With Axial Type Fan (2)
0.48 A X 2 / 125 W X 2 / 3,040 CFM	0.48 A X 2 / 125 W X 2 / 3,040 CFM	0.48 A X 2 / 125 W X 2 / 3,040 CFM
PC4NUSKFN	PC4NUSKFN	PC4NUSKFN
37 3/8 X 37 3/8 X 1	37 3/8 X 37 3/8 X 1	37 3/8 X 37 3/8 X 1
13.00	13.00	13.00
MWR-SH00N	MWR-SH00N	MWR-SH00N
MWR-WE10N	MWR-WE10N	MWR-WE10N
MRK-A00N	MRK-A00N	MRK-A00N
MR-DH00U	MR-DH00U	MR-DH00U
MRW-TA	MRW-TA	MRW-TA
MIM-B14	MIM-B14	MIM-B14
MIM-H03UN	MIM-H03UN	MIM-H03UN
MIM-N01	MIM-N01	MIM-N01
CKN-250	CKN-250	CKN-250
WBF-1 (2 required)	WBF-1 (2 required)	WBF-1 (2 required)
WBB-2	WBB-2	WBB-2
ILS-2510	ILS-2510	ILS-2510
ILS-5010	ILS-5010	ILS-5010

ETL & ETLc

PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing

10 Years compressor, 10 Year Parts, 1 Year Limited Labor



ACCESSORIES*

Duct • 4-Way Cassette

Line Sets (insulated and flared, interconnect power and communication cables included)

Part Number	Size	Included Wire	Length	Used On
ILS2507	1/4" X 1/2"	14-3 Plus 16-2	25'	Duct & 4-Way Cassette 18K
ILS5007	1/4" X 1/2"	14-3 Plus 16-2	50'	Duct & 4-Way Cassette 18K
ILS2509	1/4" X 5/8"	14-3 Plus 16-2	25'	Duct & 4-Way Cassette 24K
ILS5009	1/4" X 5/8"	14-3 Plus 16-2	50'	Duct & 4-Way Cassette 24K
ILS2510	3/8" X 5/8"	14-3 Plus 16-2	25'	Duct & 4-Way Cassette 30, 36, 42, 48K
ILS5010	3/8" X 5/8"	14-3 Plus 16-2	50'	Duct & 4-Way Cassette 30, 36, 42, 48K

Interconnect Wire

Part Number	Description	Length	Used On
I33-100	2 wire 16 AWG shielded	100'	Duct and 4-Way Cassette
I33-250		250'	
I33-500		500'	

Condenser Wall Bracket

Part Number	Description	Used On
CKN-250	Outdoor unit mounting bracket	All Duct and 4-Way Cassette outdoor units

Wind Baffles for Low Ambient Cooling Operation

Part Number	Description
WBMF-9/12/18	Front wind baffle for Duct & 4-Way Cassette 18K
WBF-1	Front wind baffle for Duct & 4-Way Cassette 24, 30, 36, 42 & 48K (2 required for 36 - 48K)
WBMF-9/12/18/36	Rear wind baffle for Duct & 4-Way Cassette 18K
WBB-2	Rear wind baffle for Duct & 4-Way Cassette 36, 42 & 48K
WBB-3	Rear wind baffle for Duct & 4-Way Cassette 24 & 30K

Controls & Accessories

Part Number	Description	Used On
MWR-SH00N	Simplified Wired Controller	Compatible with all Duct & 4-Way Cassette models
MWR-WE10N	Premium w/Scheduling Wired Controller	Compatible with all Duct & 4-Way Cassette models
MRK-A10N	Wireless Signal Receiver	Compatible with all Duct & 4-Way Cassette models
MR-DH00U	Wireless Remote Controller	Compatible with all Duct & 4-Way Cassette models
MRW-TA	External Temperature Sensor	Compatible with all Duct & 4-Way Cassette Models
MIM-B14	External Contact Control	
MIM-N01	Central Control Interface Module for Connection to DVM Plus Controls (non-NASA)	
MIM-H03UN	Multi Wi-Fi Control	

Filter Box

Part Number	Description	Used On
FB-M3036	Filter Box	Duct 18 & 20K
FB-M48/H3648	Filter Box	Duct 30, 36, 42, 48K

*Due to Samsung and QuietSide's policy of ongoing product development, some part numbers may change without prior notice. Latest, up-to-date submittals available at dvmdownload.com.

DUCT & 4-WAY CASSETTE

CONTROL OPTIONS



MWR-WE10N

Premium - Wired Controller with Scheduling Options

Easy indoor unit control

- Air handler operation ON/OFF
- Air handler operation mode, set temperature, air flow direction, fan speed
- Discharge air temperature setting (with supported indoor unit models)
- Quiet and sleep modes
- Error display
- Filter replacement alarm display and reset
- Single indoor unit control or multiple unit control (maximum 16 units)

Energy saving operation

- Upper/lower temperature setting
- Automatic operation stop function to turn off connected unit(s) if controller is not touched for specified amount of time (1 - 12 hours).
- Energy saving operation mode
- Weekly operating schedule
- Able to set desired A/C operation mode, setting temperature and fan speed to operate based on weekly schedules
- Able to apply schedule exception day

Other features

- Different button permission levels
- Partial button lock option (on/off, selection, temperature setting, fan speed, and schedule setting buttons can be locked individually)
- Backlight
- Daylight savings clock advance option
- Temperature limit setting option
- Real-time clock function; current time/day display function
- Built-in room sensor
- Display set temperature or room temperature
- Indoor unit operation state display
- Service mode support (indoor unit cycle data monitoring, option code monitoring and setting, and dip switch state monitoring)
- Independent louver control for CAC & DVM S Series 4-Way Cassette models
- Adjustable heating temperature compensation values
- Child lock
- Some features may not be available depending on the model of connected air handler(s)



MWR-SH00N

Simplified - Wired Controller

- Indoor unit operation ON/OFF
- Indoor unit operation mode, set temperature, and fan speed
- Error display
- Filter replacement alarm display and reset
- Single indoor unit control or multiple unit control (maximum 16 units)
- Partial controller button lock (operation mode button, temperature setting buttons, fan speed button, timer button, and lock mode button)
- Upper and lower temperature setting restriction
- Auto mode skip
- Heat mode skip (cooling only)
- Restrict wireless controller signal (optional)
- Louver position setting (cassette and wall units)
- Single event timer function (ON/OFF control, 30 minutes - 18 hours timer setting options)
- System/indoor unit function and operation indication (defrost, error, restricted controller, SPi status)
- Quiet Mode setting (for supported units)
- Service mode for connected indoor unit operation monitoring, addressing, and setup
- Can be used to specify "Mode Master" while connected to a single indoor unit when used with heat pump systems.



MR-EH00U

Standard - Wireless Remote Controller

- ON/OFF Operating Model, Fan Speed, Airflow/ Temperature Setting
- Filter replacement alarm reset
- Single event, on/off timer function
- Easy-to-see display
- Soft touch buttons
- Multi-channel (max. 4 channels)
- individual louver control for 4-Way Cassette models

SAMSUNG