



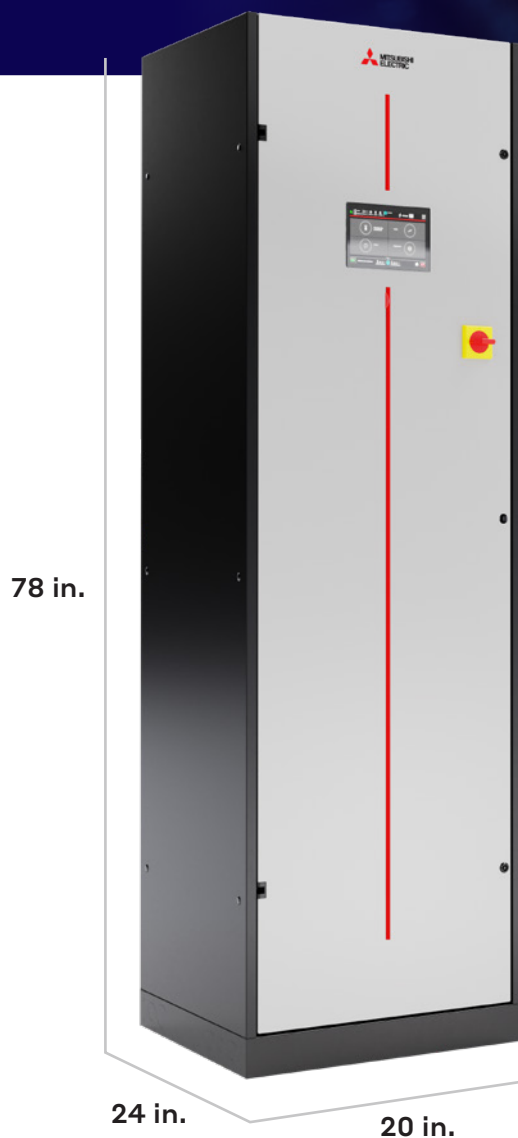
New R-454B model

s-MEXT Precision Cooling

Computer Room Air-Conditioning (CRAC) Unit

The future of cooling for critical I.T. environments

Revolutionizing precision cooling



Designed for the digital world where accuracy and efficiency are paramount, the s-MEXT is an advanced solution for precision cooling.

The renowned quality and reliability of Mitsubishi Electric Heating and Air Conditioning systems provides precise temperature and humidity control, perfect for the data center cooling market.

s-MEXT pairs with PUY and PUZ outdoor units that operate with low-GWP R-454B refrigerant. A five-ton capacity model is available to meet a broad range of cooling space needs. This system is ideal for precision infrastructures such as data centers, server rooms, UPS rooms, and high-sensitivity applications.

This unique cooling option is versatile, offering two different airflow options based on room needs and configuration. Depending on the configuration selected, air can be delivered from the top of the unit for rooms with standard flooring or the bottom of the unit, which is ideal for raised floors. Features such as the integrated controller and LAN network capabilities make this solution advanced, secure, and easy to manage.

Reliability and durability

s-MEXT offers peace of mind for owners who can't afford downtime. The system has been carefully designed to meet and exceed the rigorous demands of modern data centers and I.T. rooms. From its Inverter-driven compressor to the precision cooling technology, every component has been crafted to ensure longevity in the face of operational stress. Even in the most demanding environments, s-MEXT is built to provide optimal, reliable cooling year after year.

The robust design of the s-MEXT is complemented by its user-centric ease of installation and maintenance. The system's simple setup reduces initial investment costs, and, the architecture allows for straightforward servicing, which minimizes long-term maintenance expenses and potential downtimes. When multiple units work together in tandem, built-in redundancy allows for the system to continue to cool even if one unit experiences an error, thereby continuing to protect a data center's critical information.

Flexibility

In today's rapidly evolving data landscapes, adaptability is more than a luxury, it's a necessity. This is the reason that flexibility was a key feature in the innovative design of the s-MEXT. From compact server rooms to expansive data centers, the system is built to seamlessly fit into a multitude of room configurations.

The five-ton model expands these application possibilities further by delivering cooling to closets and microsites, modular deployments, and light commercial I.T. environments. Whether your infrastructure demands top or bottom airflow, the s-MEXT adjusts effortlessly, catering to both standard and raised-floor designs. Its compact yet high-capacity build ensures that the unit delivers optimal cooling without compromising on space.





Versatile solutions

An essential part of the adaptability of s-MEXT lies in its ease of installation. The design of the outdoor unit, compatible with both downflow and upflow air delivery units, simplifies the installation process.

Our systems boast low oil migration, thanks to the advanced technology employed in the outdoor unit's compressors. This not only ensures seamless operation, but it also eliminates the need for traps or other precautions for lubricant oil return to the compressor. Adding to the design's flexibility, the system can accommodate pipe runs of up to 246 feet, offering a greater degree of freedom to designers and architects.

Compatible Outdoor Units



PUY-A42



PUY-A24



Customer Support

We offer technical support with multiple communication channels and specialized assistance.



Product Availability

Our nationwide warehouses enable us to offer exceptional lead times that promptly address your requirements.



Excellent Warranty

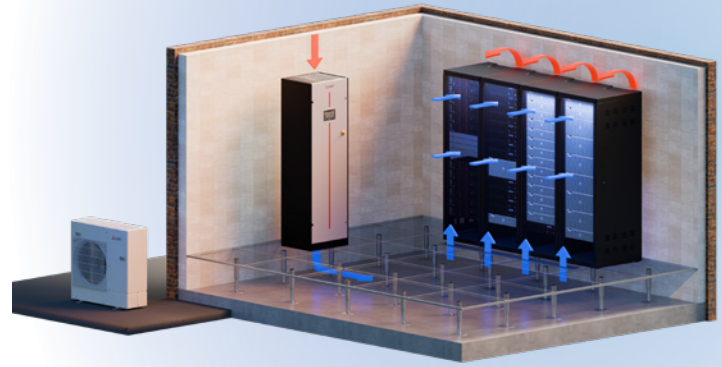
Backed by an industry-leading warranty, you can trust you're investing in the market's highest quality product.

Energy efficient

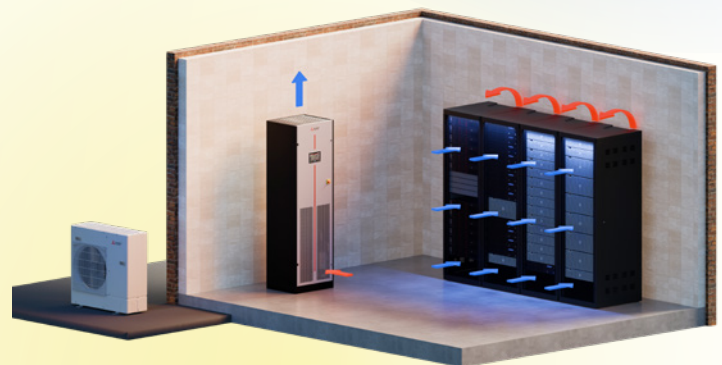
In the age of rising energy demands and continued commitments to environmental sustainability, the cutting-edge technology of the s-MEXT makes it an essential solution for energy-efficient cooling in high-sensitivity environments. At its core lies the sophisticated inverter-driven compressor, which intelligently modulates the system's operation to match real-time cooling needs. This ensures precise, consistent temperature control and energy consumption that always remains at its most optimal.

The energy efficiency of s-MEXT is further exemplified by its high-performance EC fans. These fans provide optimal airflow and ensure rapid cooling with minimal energy consumption. Paired with a Linear Expansion Valve, the system is capable of swift stabilization to match load fluctuations. The advanced components work together in harmony to enable energy savings, a reduced carbon footprint, and to promote sustainable high-sensitivity operations.

The indoor unit calculates the need for cooling based on the supply air temperature using a PID regulator ranging from 0-100%. This request is then segmented into 11 steps for managing the compressor. The controller of the indoor unit relays the specific cooling capacity signal to the PAC IF card, which, in turn, communicates the request to the outdoor unit. When using a fixed-speed supply fan setting, airflow remains consistent regardless of the control signal. It automatically adjusts based on the cooling needs with a variable-speed supply fan setting.



Downflow Air Delivery
Ideal for raised-floor rooms



Upflow Air Delivery
Ideal for standard floor rooms

Inverter-driven compressor technology ensures optimal temperature control and energy consumption.



Precise control built in with the EVOLUTION+ Controller

Key features:

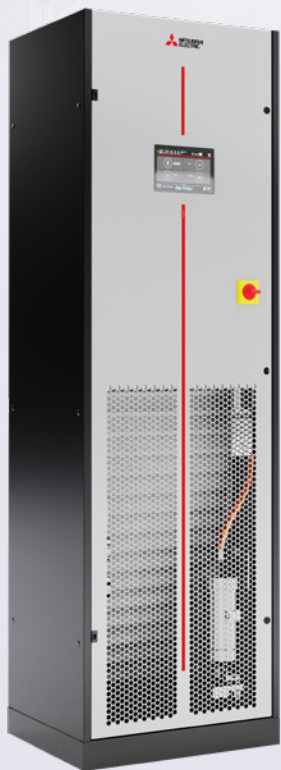
- **Intuitive and Advanced Interface:** Information is clearly presented on a user-friendly format for full unit status visualization.
- **Resilient Flash Memory:** The flash memory safeguards critical data even during power outages, logging up to 200 events for detailed historical tracking of system performance.
- **Real-time Insight:** The main display offers a real-time view of the unit's status.
- **Synchronized Communication:** A dedicated interface card ensures seamless communication between the indoor and outdoor units. Enhanced by the s-MEXT electronic card, this feature integrates with the inverter system for precise compressor speed management.
- **Enhanced Network Functions and Centralized Control:** The system's LAN networking capabilities support up to 10 units for centralized monitoring. Advanced network management features, such as balancing and backup functionalities, add flexibility and efficiency to the system.
- **Consistent Airflow in Cooling Mode:** Whether using a fixed-speed or a variable-speed supply fan, the airflow remains consistent, and adjusts according to cooling requirements.
- **Energy-efficient Standby Mode:** This mode minimizes energy consumption while keeping the system operational.
- **Comprehensive Temperature Management:** Average temperature display, temperature and humidity limit alerts, and active fan operation in standby mode ensure optimal environmental conditions are maintained at all times.
- **Robust Local Temperature Protection:** High and Low (H&L) local temperature protection safeguards against extreme temperature variations, ensuring safety and system integrity.
- **Alarm Control:** Both acoustic and visual alarms can be managed with the EVOLUTION+ Controller.
- **Standby Mode:** Standby and backup operation modes allow for system customization.
- **Remote Management:** Control of the system can be handled remotely, which allows for system monitoring from any computer or mobile device.
- **Vibrant 7" Touchscreen:** An easy-to-read 7" LCD touchscreen panel is featured on the front of the unit with an intuitive graphic display.



The EVOLUTION+ Controller is the heart of the s-MEXT, managing all of the unit's variables and featuring evolved characteristics to make the unit totally configurable. Unparalleled control is achieved through the Microprocessor Control System, a state-of-the-art processor that expertly governs the entire cooling operation. It ensures optimal performance by streamlining communication between the internal and external units. The integration of the Corel Controller pCO5+ / pCO5+ HS into the system setup amplifies its effectiveness.

The EVOLUTION+ Controller is designed with user experience in mind. Featuring a 7" touchscreen panel on the front of the unit with an intuitive graphic display, the controller allows users to effortlessly navigate through key operational information. The clear visualization of alarms and system status reduces troubleshooting time. Whether it's clear text or universally recognizable symbols, all is displayed on an easy-to-read backlit LCD screen. Flash memory event logging makes maintenance and forensics faster and more efficient.

s-MEXT Features	Standard Model (A)	Premium Model (B)
PID-Regulated Inverter-compressor Operation	✓	✓
Evolution+ Controller with Keyboard Interface	✓	✓
Highly Efficient EC Fan Motor & Plug Fan	✓	✓
Constant or Variable Airflow with Adjustable ESP	✓	✓
208-230V/1ph/60Hz Power Supply	✓	✓
MERV8 Air Filtration STD	✓	✓
Clogged Filter Sensor & Alarm	✓	✓
Water Leakage Detector & Alarm	✓	✓
Thermo-acoustic Insulated Cabinet	✓	✓
Discharge Air Temperature Control	✓	✓
Air Intake Temperature Sensing	✓	✓
3L/H Steam Generator with Flush Cycle	---	✓
Dehumidification Electric Reheat Function	---	✓
Relative Humidity Air Intake Sensing	---	✓
External/Remote Air Sensor	---	✓



Premium Model B

The Premium Model B offers an unparalleled experience in precision cooling. Engineered with cutting-edge accessories, this model masterfully balances humidity and temperature, ensuring an optimal environment even in the most sensitive settings. The intelligent design adapts seamlessly to internal and external fluctuations, providing a reliable and stable climate.

With enhanced energy efficiency and heightened operational safety, the Premium Model B is the perfect choice for critical spaces such as data centers, telecommunications, server rooms, UPS rooms, and other high-sensitivity applications. This cooling system is a sophisticated solution designed to deliver performance and peace of mind in the most demanding technological environments.

Pre-configured, type A (base model)	Pre-configured, type B (with accessories)
SKU: S-MEXT-G06-M1-X-XxLA	SKU: S-MEXT-G06-M1-X-XxLB
Adjustable ESP	Adjustable ESP
230v/1ph/60hz Power Supply	230v/1ph/60hz Power Supply
With Clogged Filter Sensor	With Clogged Filter Sensor
With Water Leakage Detector	With Water Leakage Detector
Numbered Wiring on El. Board	Numbered Wiring on El. Board
Merv8 Air Filter	Merv8 Air Filter
Delivery Air Control	Delivery Air Control
Pallet Packing (Revised)	Pallet Packing (Revised)
7" Touch Display	Steam Humidifier 3kg/H Um03
	Dehumidification Function
	T/Rh Air Intake Sensor
	Basic Electric Heater
	External Air Sensor
	7" Touch Display



Steam humidifier

The modulating steam humidifier features immersed electrodes and comes with essential safety and operational accessories. It has a metallic top cover and tank for enhanced safety during operation, meeting the UL94: VO flammability standard. The package also includes a control board and a combined temperature and humidity sensor for the unit's air intake. The humidifier is pre-installed, needing only a water connection (water charge and discharge pipes not included). A filter and shut-off valve installation on the water inlet pipe is recommended. The humidifier generates non-pressurized steam via electrodes in water, using the water as an electrical resistance to produce steam. This steam can be used for room humidification or industrial processes. The humidifier's efficiency is dependent on water quality. Untreated water can be used, only if it's potable and not demineralized.

Water Quality Specifications

Hydrogen Ions Specific Conductivity at 20°C Total Dissolved Solids Dry Residue at 180°C Total Hardness Temporary Hardness Iron & Manganese Chlorides Silica Residual Chlorine Calcium Sulphate Metallic Impurities Solvents, Diluents, Soaps, Lubricant		Min.	Max.
	pH	7	8.5
		350	750
	TDS mg/l	(1)	(1)
	R ₁₈₀ mg/l	(1)	(1)
	TH mg/l CaCO ₃	100 (2)	400
	mg/l CaCO ₃	60 (3)	300
	mg/l Fe + Mn	0	0.2
	ppm Cl	0	30
	mg/l SiO ₂	0	20
	mg/l Cl-	0	0.2
	mg/l CaSO ₄	0	100
	mg/l	0	0
	mg/l	0	0

(1) Values depending on specific conductivity; in general; TDS= 0,93° or, 20°C; R180 = 0, 65° oR (2) Not lower than 200% of the chloride content in mg/l di Cl- (3) Not lower than 300% of the chloride content in mg/l di Cl-



Standard electric heater

A431

This electric heater, made with finned aluminum elements, provides a low surface temperature and eliminates issues related to air ionization. It's installed after the primary cooling coil with three operational stages in which activation is of a binary type. Included components:

- Electrical controls
- Safety thermostat

Electric Heater				
Model	-	006	013	018
Size	-	F1	F1	F1
Version	-	U/O	U/O	U/O
Thermal Capacity	kW	2.6	2.6	3.9
Max. Absorbed Current (FLA)	A	11.4	11/4	17
First Working Step	kW	1.3	1.3	1.3
Second Working Step	kW	1.3	1.3	1.3
Third Working Step	kW	-	-	1.3
Net Weight (2)	kg	5	5	7.5



Humidity sensor

This automated system monitors and responds to changes in room humidity levels. Included components:

- Temperature/humidity sensor located on the air intake
- Electronic dew point temperature control for adjustment of cooling capacity and airflow



Air intake sensor

This accessory serves as a replacement for the temperature sensor positioned on the indoor unit's air intake. Included with the sensor are options for:

- Installing a steam humidifier
- Incorporating a dehumidification system
- Displaying the room's relative humidity value



External air sensor

This sensor measures outdoor temperatures, allowing the system to automatically adjust for optimal energy efficiency and comfort.

Compatibility tables

New Model Number	Outdoor Unit Pairing	Product Description
S-MEXT-G06-M1-U-06LA	PUY(Z)-AH24NL-U1	Bottom Delivery, 1.8 Ton Base Model
S-MEXT-G06-M1-O-06LA	PUY(Z)-AH24NL-U1	Top Delivery, 1.8 Ton Base Model
S-MEXT-G06-M1-U-06LB	PUY(Z)-AH24NL-U1	Bottom Delivery, 1.8 Ton Base Model with Factory Accessories
S-MEXT-G06-M1-O-06LB	PUY(Z)-AH24NL-U1	Top Delivery, 1.8 Ton Base Model with Factory Accessories
S-MEXT-G06-M1-U-13LA	PUY(Z)-AK42NL-U1	Bottom Delivery, 3.3 Ton Base Model
S-MEXT-G06-M1-O-13LA	PUY(Z)-AK42NL-U1	Top Delivery, 3.3 Ton Base Model
S-MEXT-G06-M1-U-13LB	PUY(Z)-AK42NL-U1	Bottom Delivery, 3.3 Ton Base Model with Factory Accessories
S-MEXT-G06-M1-O-13LB	PUY(Z)-AK42NL-U1	Top Delivery, 3.3 Ton Base Model with Factory Accessories
S-MEXT-G06-M1-U-18LA	PUY(Z)-AK60NL-U1	Bottom Delivery, 5 Ton Base Model
S-MEXT-G06-M1-O-18LA	PUY(Z)-AK60NL-U1	Top Delivery, 5 Ton Base Model
S-MEXT-G06-M1-U-18LB	PUY(Z)-AK60NL-U1	Bottom Delivery, 5 Ton Base Model with Factory Accessories
S-MEXT-G06-M1-O-18LB	PUY(Z)-AK60NL-U1	Top Delivery, 5 Ton Base Model with Factory Accessories

Accessory Model Number	Product Description
BL79901401	Support Frame H 400-510mm
T500000014	Serial Card - RS485 - Pconet - Bacnet MS/TP
T500000087	Serial Card - Ethernet - Pcoweb - Bacnet Over Ip/Snmp/Modbus TCP-IP + SMTP Email
BL79901201	Support Frame H 255-350mm
T500000091	T/RH Air Probe
BL79900201	Supply/Return Plenum
BL79901301	Support Frame H 355-450mm
BL79900501	Serial Card - RS485 - RS485Card - Modbus RTU
BL79900301	Plenum + 3 Grilles - Class A1
BL79900401	Supply/Return Plenum - Class A1
BL79901101	Plenum + 3 Grilles
BL79900701	Silenced Plenum + 1 Grille
BL79900601	Silenced Plenum
T500000180	Damper With Spring Return

Specifications: s-MEXT upflow models

Indoor Unit			S-MEXT-G06-M1-O-06LA	S-MEXT-G06-M1-O-06LB	S-MEXT-G06-M1-O-13LA	S-MEXT-G06-M1-O-13LB	S-MEXT-G06-M1-O-18LA	S-MEXT-G06-M1-O-18LB
Outdoor Unit			PUY(Z)-AH24NL	PUY(Z)-AH24NL	PUY(Z)-AK42NL	PUY(Z)-AK42NL	PUY(Z)-AK60NL	PUY(Z)-AK60NL
Cooling Capacity	Total Cooling Capacity	Btu/h [kW]	21,000 [6.15]	21,000 [6.15]	35,600 [10.43]	35,600 [10.43]	50,200 [14.71]	50,200 [14.71]
	Net Cooling Capacity		20,600 [6.04]	20,600 [6.04]	35,000 [10.25]	35,000 [10.25]	49,100 [14.4]	49,100 [14.4]
	Sensible Cooling Capacity		20,700 [6.07]	20,700 [6.07]	32,500 [9.53]	32,500 [9.53]	48,900 [14.33]	48,900 [14.33]
	Net Sensible Capacity		20,470 [6]	20,470 [6]	32,750 [9.6]	32,750 [9.6]	48,450 [14.2]	48,450 [14.2]
Efficiency	Net SCOP		2.9	2.9	2.8	2.8	2.8	2.8
	Maximum Static Pressure		1.66	1.66	2.37	2.37	1.42	1.42
Electrical	Voltage, Phase, Frequency	V AC / V AC, , Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
	Guaranteed Voltage Range	V AC	208 - 230	208 - 230	208 - 230	208 - 230	208 - 230	208 - 230
	Short-circuit Current Rating [SCCR]	kA	5	5	5	5	5	5
Indoor Unit	MCA	A	4.40	30.90	4.50	31	9	42.6
	MOCP		6	35	4.50	35	10	45
	Fan Motor Type		EC Motor	EC Motor	EC Motor	EC Motor	EC Motor	EC Motor
	Rated Airflow, Dry	CFM	1,180	1,180	1,530	1,530	2,413	2,413
	Sound Pressure Level		55	55	60	60	56	56
	Sound Power Level		71	71	76	76	72	72
	Drain Pipe Size O.D.	inch [mm]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	23-5/8 x 19.70 x 78 [600 x 500 x 1981]	23-5/8 x 19.70 x 78 [600 x 500 x 1981]	23-5/8 x 19-11/16 x 78 [600 x 500 x 1981]	23-5/8 x 19-11/16 x 78 [600 x 500 x 1981]	39-3/8 x 19-11/16 x 78 [1000 x 500 x 1981]	39-3/8 x 19-11/16 x 78 [1000 x 500 x 1981]
	Package Dimensions (W x D x H)		29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	43-5/16 x 27-3/16 x 88-5/8 [1100 x 691 x 2251]	43-5/16 x 27-3/16 x 88-5/8 [1100 x 691 x 2251]
	Unit Weight	lbs [kg]	154 [70]	154 [70]	212 [96]	212 [96]	265 [120]	265 [120]
Outdoor Unit	Package Weight		309 [140]	309 [140]	320 [145]	320 [145]	401 [182]	401 [182]
	MCA	A	22	22	34	34	38	38
	MOCP		37	37	56	56	67	67
	Fan Motor Output	W	74	74	74	74	213	213
	Airflow Rate Cooling	CFM	1,940	1,940	3,910	3,910	4,020	4,020
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes	Yes, Yes	Yes, Yes	Yes, Yes	Yes, Yes	Yes, Yes
	Sound Pressure Level, Cooling ¹	dB (A)	49	49	52	52	60	60
	Compressor Type		Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
	Compressor Model		SRB172FQHMC-L1	SRB172FQHMC-L1	MRB36FEGMC	MRB36FEGMC	MRB53FEJMC-L	MRB53FEJMC-L
	Compressor Oil [Type // Charge]	// oz	RM68EH // 23	RM68EH // 23	RM68EH // 45	RM68EH // 45	RM68EH // 60	RM68EH // 60
	External Finish Color		Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional	Optional	Optional	Optional	Optional	Optional
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]
	Package Dimensions (W x D x H)		41-15/16 x 17-3/4 x 42-1/2 [1065 x 450 x 1079]	41-15/16 x 17-3/4 x 42-1/2 [1065 x 450 x 1079]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]
	Unit Weight	lbs [kg]	155 [70]	155 [70]	224 [102]	224 [102]	265 [120]	265 [120]
	Package Weight		179 [81]	179 [81]	251 [114]	251 [114]	291 [132]	291 [132]
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B
	Pre-Charged Refrigerant Amount	lbs, oz	7, 11	7, 11	9, 14	9, 14	11, 7	11, 7
	Maximum Pre-Charged Piping Length	ft [m]	225 [69]	225 [69]	100 [30]	100 [30]	100 [30]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6	0.6	0.6	0.6	0.6	0.6
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	3/4 [19.05]	3/4 [19.05]
	Liquid Pipe Size O.D. [Flared]		3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Piping Length		225 [69]	225 [69]	225 [69]	225 [69]	245 [75]	245 [75]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Number of Bends		15	15	15	15	15	15

¹Cooling (Indoor // Outdoor) *F 75 DB, 52 DP (Upflow), 85 DB, 52 DP (Downflow) // 95 DB, 75 WB
²Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Cooling-only system with advanced wind baffle: -40°F - 115°F.
• Refer to wind baffle documentation for further information.
³Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):

Specifications: s-MEXT downflow models

Indoor Unit			S-MEXT-G06-M1-U-06LB	S-MEXT-G06-M1-U-06LA	S-MEXT-G06-M1-U-13LB	S-MEXT-G06-M1-U-13LA	S-MEXT-G06-M1-U-18LA	S-MEXT-G06-M1-U-18LB
Outdoor Unit			PUY(Z)-AH24NL	PUY(Z)-AH24NL	PUY(Z)-AK42NL	PUY(Z)-AK42NL	PUY(Z)-AK60NL	PUY(Z)-AK60NL
Cooling Capacity	Total Cooling Capacity	Btu/h [kW]	23,500 [6.88]	23,500 [6.88]	39,900 [11.69]	39,900 [11.69]	54,600 [16]	54,600 [16]
	Net Cooling Capacity		22,900 [6.71]	22,900 [6.71]	39,100 [11.46]	39,100 [11.46]	53,200 [15.59]	53,200 [15.59]
	Sensible Cooling Capacity		23,100 [6.77]	23,100 [6.77]	36,700 [10.75]	36,700 [10.75]	53,600 [15.71]	53,600 [15.71]
	Net Sensible Capacity		20,470 [6]	20,470 [6]	31,390 [9.2]	31,390 [9.2]	51,180 [15]	51,180 [15]
Efficiency	Net SCOP		2.8	2.8	3	3	2.9	2.9
	Maximum Static Pressure		1.66	1.66	2.37	2.37	1.42	1.42
Electrical	Voltage, Phase, Frequency	V AC / V AC, , Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
	Guaranteed Voltage Range	V AC	208 - 230	208 - 230	208 - 230	208 - 230	208 - 230	208 - 230
	Short-circuit Current Rating [SCCR]	kA	5	5	5	5	5	5
Indoor Unit	MCA	A	30.90	4.40	31	4.50	9	42.6
	MOCP		35	6	35	4.50	10	45
	Fan Motor Type		EC Motor	EC Motor	EC Motor	EC Motor	EC Motor	EC Motor
	Rated Airflow, Dry	CFM	1,180	1,180	1,530	1,530	2,413	2,413
	Sound Pressure Level		55	55	60	60	56	56
	Sound Power Level		71	71	76	76	72	72
	Drain Pipe Size O.D.	inch [mm]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]	7/8 [22.23]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	23-5/8 x 19.70 x 78 [600 x 500 x 1981]	23-5/8 x 19.70 x 78 [600 x 500 x 1981]	23-5/8 x 19-11/16 x 78 [600 x 500 x 1981]	23-5/8 x 19-11/16 x 78 [600 x 500 x 1981]	39-3/8 x 19-11/16 x 78 [1000 x 500 x 1981]	39-3/8 x 19-11/16 x 78 [1000 x 500 x 1981]
	Package Dimensions (W x D x H)		29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	29-1/2 x 25-5/8 x 87-3/8 [749 x 651 x 2219]	43-5/16 x 27-3/16 x 88-5/8 [1100 x 691 x 2251]	43-5/16 x 27-3/16 x 88-5/8 [1100 x 691 x 2251]
	Unit Weight	lbs [kg]	154 [70]	154 [70]	212 [96]	212 [96]	265 [120]	265 [120]
Outdoor Unit	Package Weight		309 [140]	309 [140]	320 [145]	320 [145]	401 [182]	401 [182]
	MCA	A	22	22	34	34	38	38
	MOCP		37	37	56	56	67	67
	Fan Motor Output	W	74	74	74	74	213	213
	Airflow Rate Cooling	CFM	1,940	1,940	3,910	3,910	4,020	4,020
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes	Yes, Yes	Yes, Yes	Yes, Yes	Yes, Yes	Yes, Yes
	Sound Pressure Level, Cooling ¹	dB (A)	49	49	52	52	60	60
	Compressor Type		Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
	Compressor Model		SRB172FQHMC-L1	SRB172FQHMC-L1	MRB36FEGMC	MRB36FEGMC	MRB53FEJMC-L	MRB53FEJMC-L
	Compressor Oil [Type // Charge]	// oz	RM68EH // 23	RM68EH // 23	RM68EH // 45	RM68EH // 45	RM68EH // 60	RM68EH // 60
	External Finish Color		Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional	Optional	Optional	Optional	Optional	Optional
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]
	Package Dimensions (W x D x H)		41-15/16 x 17-3/4 x 42-1/2 [1065 x 450 x 1079]	41-15/16 x 17-3/4 x 42-1/2 [1065 x 450 x 1079]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]
	Unit Weight	lbs [kg]	155 [70]	155 [70]	224 [102]	224 [102]	265 [120]	265 [120]
	Package Weight		179 [81]	179 [81]	251 [114]	251 [114]	291 [132]	291 [132]
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B
	Pre-Charged Refrigerant Amount	lbs, oz	7, 11	7, 11	9, 14	9, 14	11, 7	11, 7
	Maximum Pre-Charged Piping Length	ft [m]	225 [69]	225 [69]	100 [30]	100 [30]	100 [30]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6	0.6	0.6	0.6	0.6	0.6
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	3/4 [19.05]	3/4 [19.05]
	Liquid Pipe Size O.D. [Flared]		3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Piping Length		225 [69]	225 [69]	225 [69]	225 [69]	245 [75]	245 [75]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Number of Bends		15	15	15	15	15	15

¹Cooling (Indoor // Outdoor) *F 75 DB, 52 DP (Upflow), 85 DB, 52 DP (Downflow) // 95 DB, 75 WB

²Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• Wind baffles required to operate below 23°F DB in cooling mode.

• Cooling-only system with advanced wind baffle: -40°F - 115°F.

• Refer to wind baffle documentation for further information.

³Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):



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