

New low-GWP products

M- and P-Series Catalog

Summer 2025

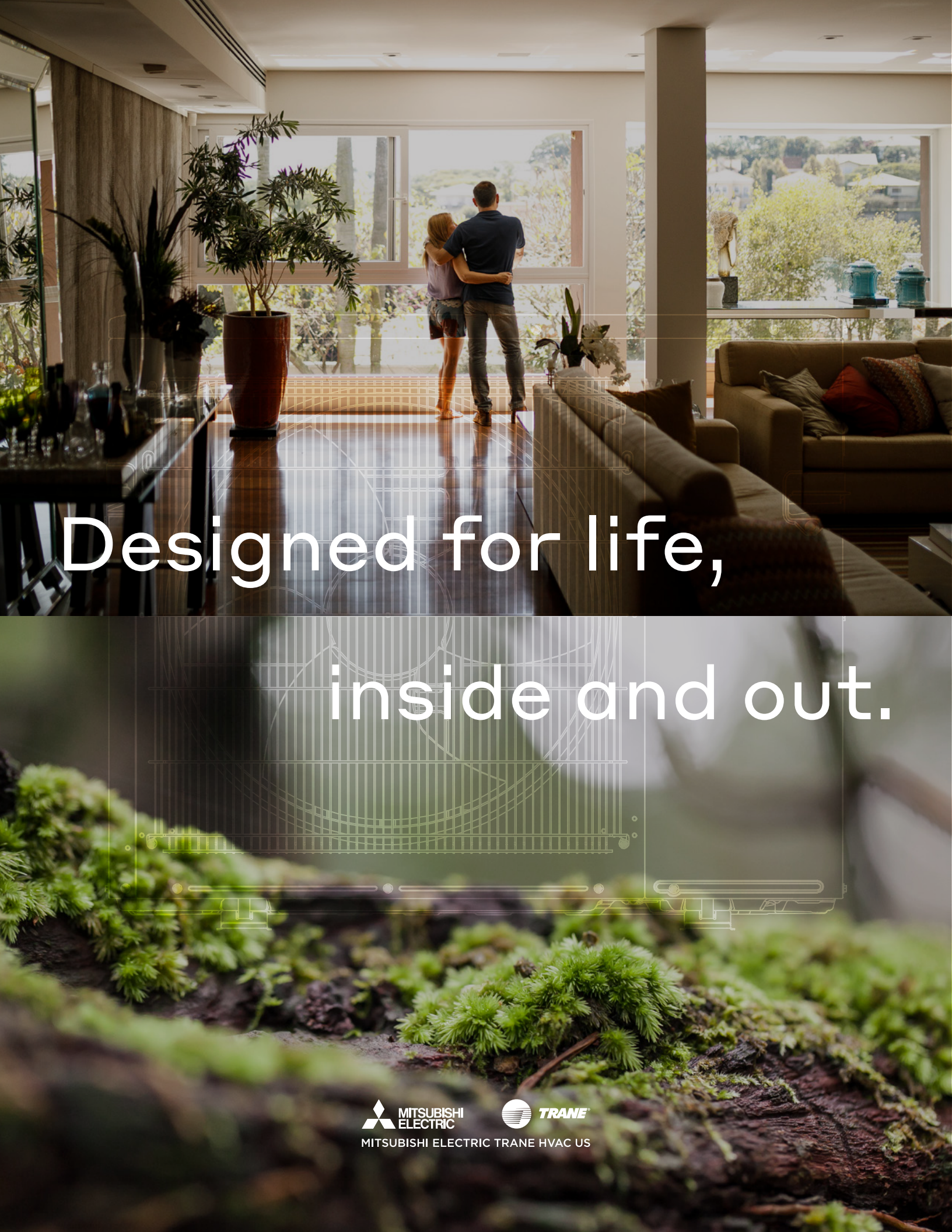

Designed for life,
inside and out.
MITSUBISHI ELECTRIC
TRANE
MITSUBISHI ELECTRIC TRANE HVAC US

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Leading all-electric HVAC innovation for more than 40 years.

Mitsubishi Electric offers innovative and evolving heating and cooling solutions for any application in any climate. Our ducted and ductless mini-split and Variable Refrigerant Flow (VRF) heat pump systems bring superior energy efficiency, comfort, and performance to any home or building. We are proud to provide not only cutting-edge products but also design and technical training and unmatched end-to-end support.

At Mitsubishi Electric, we strive to create better environments, inside and out. The adoption of all-electric heat pumps and sustainable building is more than a trend, it is the future. Discover the balance between enjoying the spaces where you live and work, while creating sustainability for the world around you.

We are renewable in all we do. This encompasses how our products function, leveraging both hybrid, water source, and all-electric heat pumps, and how they're assembled, with nearly 100% recyclable materials.

We offer technology that contractors and customers don't have to think about after installation. In fact, Mitsubishi Electric has one of the industry's lowest incidence rates. Our industry leading warranty is even better when installed by a Diamond Contractor® or Ductless Pro.





We are exacting in how we build our technology, scrutinizing every component to ensure it functions in harmony with the system.

Mitsubishi Electric quality

We are exacting in how we build our technology, scrutinizing every component to ensure it functions in harmony with the system. This is why we manage every step of the manufacturing and assembly process, upholding the highest quality standards from start to finish.

Our customers depend on our heat pump systems to maintain their comfort, even in harsh environments. Because of this, we've developed one of the industry's most rigorous inspection processes. We check for every possible point of failure in every step after the sale: delivery, installation and operation.

We perform advanced airflow testing during development, where we measure every corner of the room with more than 2,500 sensors to ensure even temperature distribution. An operation noise test is performed in an anechoic chamber with an extremely low 10 dB(A) of background noise. This confirms that the heat pumps run ultra quiet operations, with a minimum sound level of 19 dB(A).

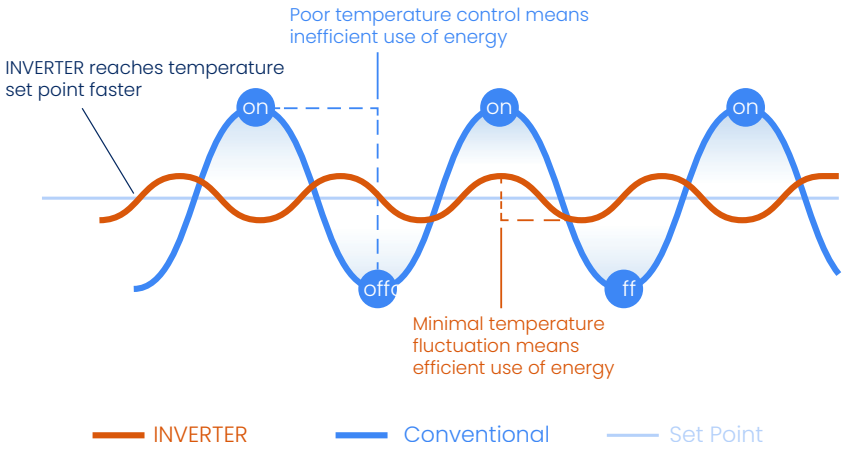
Our products are also subjected to a wide range of safety tests, including combustion testing, to confirm safe operation under various conditions. Combustion testing is done by assuming accidental firing and replicating abnormal conditions that cause breakage of pressure components. With the transition to the low-Global Warming Potential refrigerants, we have built leak detection sensors into our units as an added safety measure. We also perform drop/strength tests, transport vibration tests, and many other product checks to ensure that quality and performance are maintained.

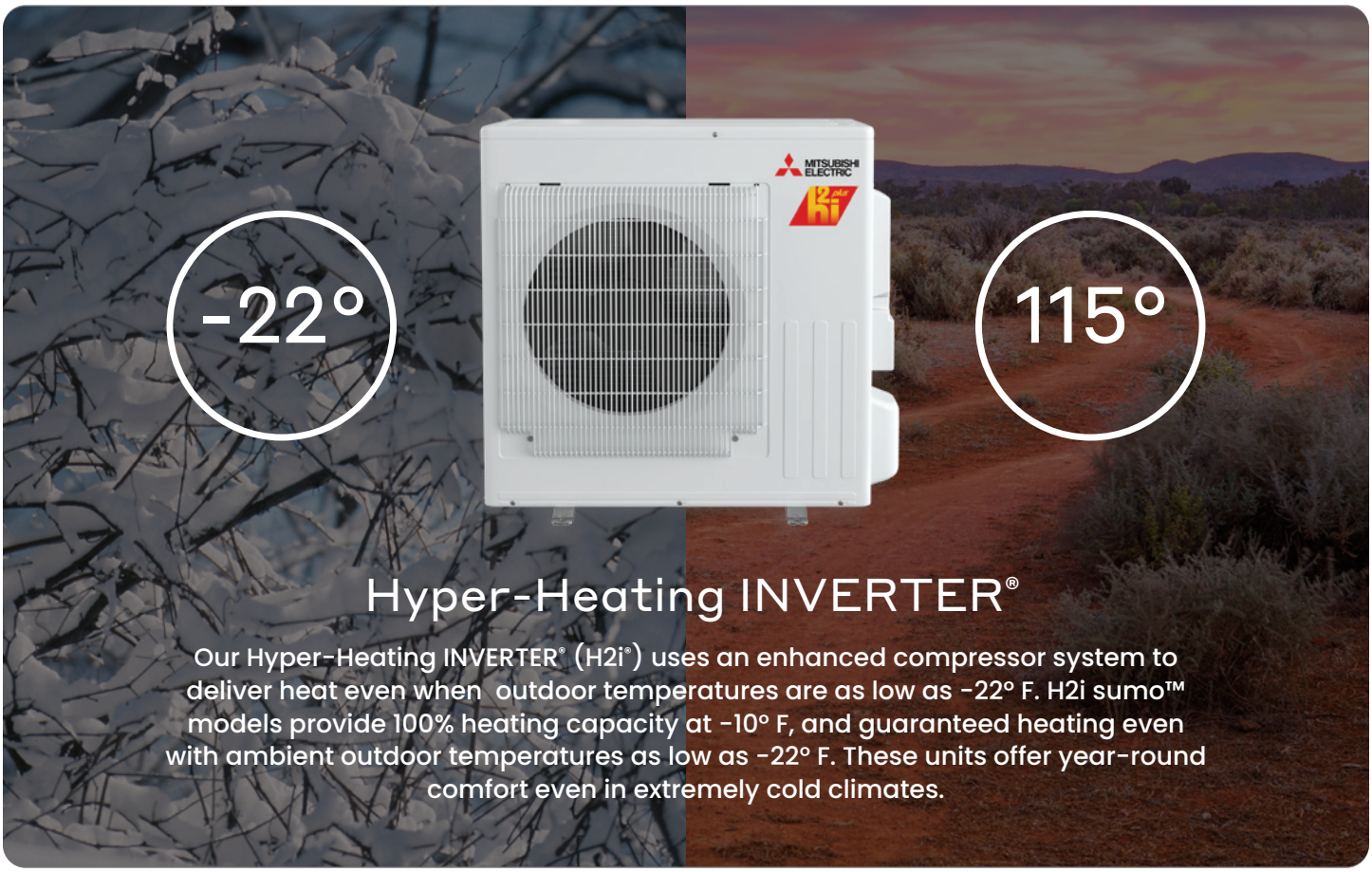
The INVERTER advantage

Mitsubishi Electric heat pumps use inverter-driven compressors, which use variable speed technology to control the speed of the motor. This allows for precise regulation of heating and cooling output according to demand, while minimizing the amount of energy required. Conventional compressors turn on and off to meet the set point, causing large temperature and energy swings. The inverter eliminates the wasteful stop and start cycle. Just as your heart always beats, and automatically beats faster when you exercise, our compressors are always active with the inverter enabling it to adjust conditioning as soon as temperature changes are detected.



INVERTER vs. conventional system operation





Hyper-Heating INVERTER®

Our Hyper-Heating INVERTER® (H2i®) uses an enhanced compressor system to deliver heat even when outdoor temperatures are as low as -22° F. H2i sumo™ models provide 100% heating capacity at -10° F, and guaranteed heating even with ambient outdoor temperatures as low as -22° F. These units offer year-round comfort even in extremely cold climates.

INVERTER features

DC Fan Motor

A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher compared to an equivalent AC motor.

Grooved Piping

High-performance grooved piping is used in heat exchangers to increase the heat exchange area.

Heat Caulking Fixing Method

A Heat Caulking Fixing Method replaced arc spot welding to secure internal parts in place. This change reduces the distortion of internal components, resulting in additional efficiency gains.

Highly Efficient DC Scroll Compressor

Adding a frame compliance mechanism to the DC scroll compressor achieves further efficiency. The mechanism allows movement in the axial direction of the frame supporting the cradle scroll, thereby significantly reducing leakage and friction loss and ensuring high efficiency at all speeds.

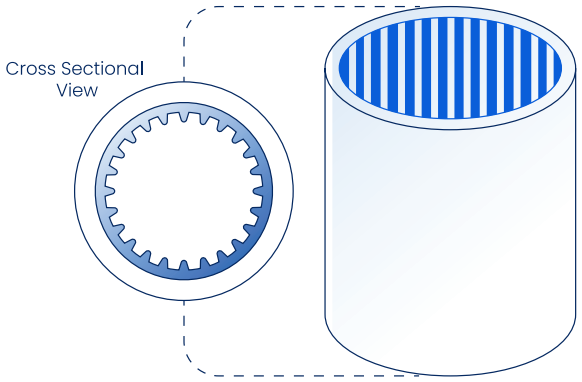
Joint Lap DC Motor

Mitsubishi Electric has developed a unique motor, called the Poki-Poki Motor in Japan, manufactured using a joint lapping technique. This innovative motor operates based on a high-density, high-magnetic force, leading to extremely high efficiency and reliability.

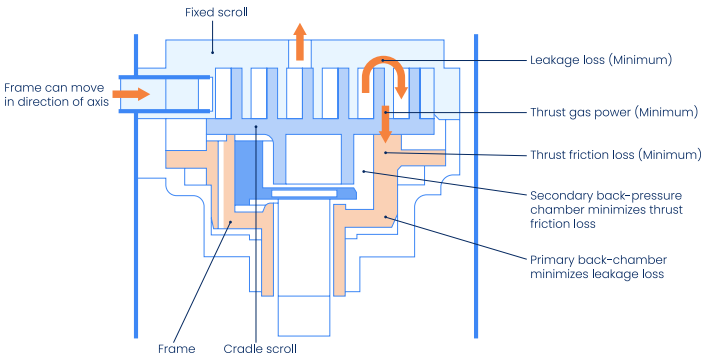
Magnetic Flux Vector Sine Wave Drive

This drive device is a microprocessor that converts the compressor motor's electrical current waveform from a conventional waveform to a sine wave (180°conductance) to achieve higher efficiency by raising the motor winding utilization ratio and reducing energy loss.

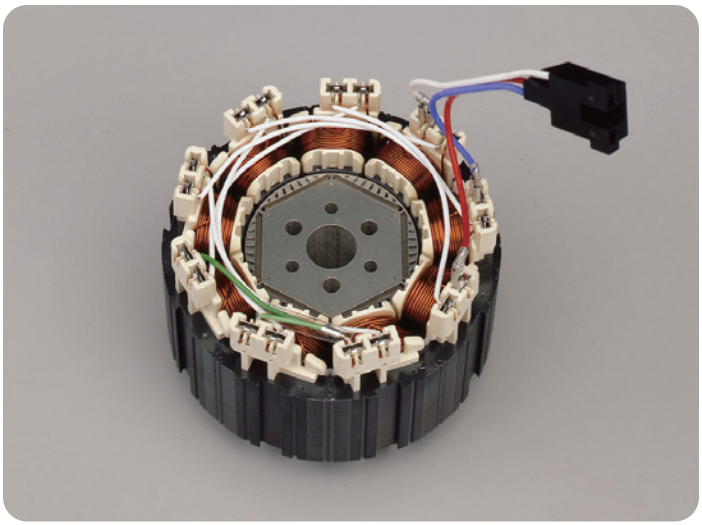
Grooved piping



Highly Efficient DC Scroll Compressor



Joint Lap DC Motor



INVERTER features

PAM (Pulse Amplitude Modulation)

PAM is a technology controlling the current waveform to resemble the supply voltage wave, resulting in reduced loss and more efficient electricity use. PAM control effectively utilizes 98% of the input power supply.

Power Receiver and Twin LEV Control

Mitsubishi Electric developed a power receiver and twin linear expansion valve (LEVs) circuit that optimize compressor performance. This technology ensures ultimate control in response to the operating waveform and outdoor temperature. Tailoring the system to the characteristics of R410A refrigerant improves operational efficiency.

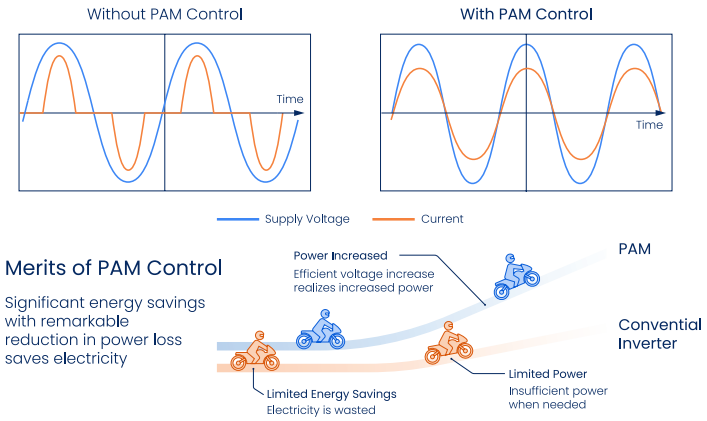
Reluctance DC Rotary Compressor

Powerful neodymium magnets used in the reluctance DC motor rotor produce strong magnetic torque and reluctance torque, resulting in more efficient operation.

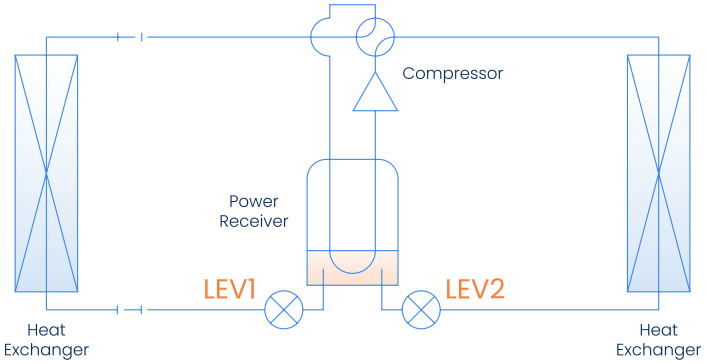
Room Temperature Maintained

The inverter monitors the varying compressor motor frequency and creates the most efficient waveform for the motor speed. This results in improving operating efficiency at all speed ranges, using less power, and reducing annual electricity costs.

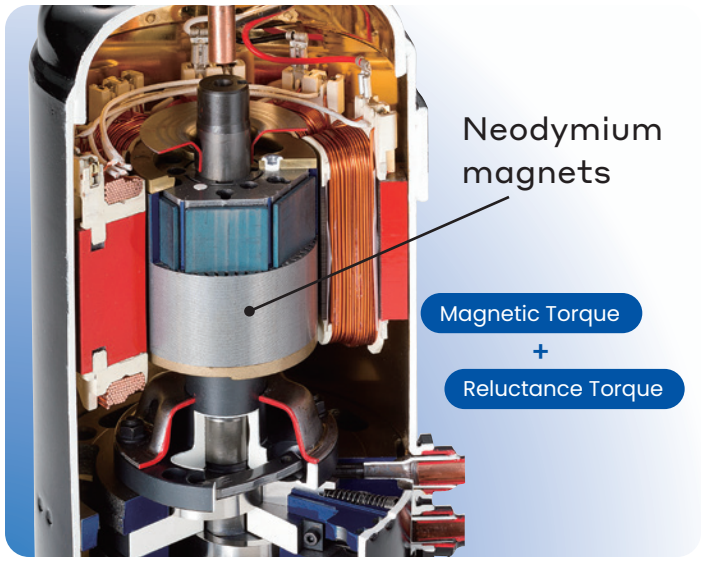
PAM (Pulse Amplitude Modulation)



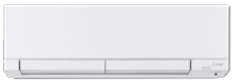
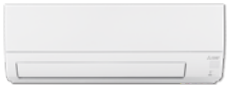
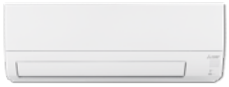
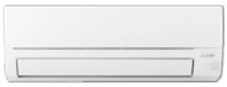
Power Receiver and Twin LEV Control



Reluctance DC Rotary Compressor



M-Series product lineup

	Models	6k BTU/H	9k BTU/H	12k BTU/H	15k BTU/H	18k BTU/H	24k BTU/H	30k BTU/H	36k BTU/H
		Single-phase							
Wall-mounted	 MSZ-FX Series	●	●	●	●	●		–	–
	 MSZ-EX Series								
		–	●	●	●	●		–	–
		–	●	●	●	●		–	–
	 MSZ-GX Series	–	●[1]	●[1]	●[1]	●[1]		●[1]	●[1]
		●[2]	●	●	●	●		●	●
		–	●	●	●	●		–	–
	 MSZ-HX Series	–	●	●	–	●		–	–
	 MSZ-JX Series	–	●	●	–	–		–	–
	 MSZ-WX Series	–	●	●	–	●		–	–
Floor - mounted	 MFZ Series	–	●	●	●	●		–	–
		–	●	●	●	●		–	–
1-way Cassette	 EZ FIT® Series	●	●	●	–	●		–	–

● Cooling only
● Standard heat pump
● Hyper-heating heat pump
– Not available

1 MSY-GX model only
2 Multi-zone connection only

P-Series product lineup

Models		09k BTU/H	12k BTU/H	15k BTU/H	18k BTU/H	24k BTU/H	30k BTU/H	36k BTU/H	42k BTU/H	48k BTU/H	60k BTU/H
			Single-phase								
4-way Cassette	 PLA Series	–	●	–	●	●	●	●	●	●	–
		–	●	–	●	●	●	●	●	●	●
		–	–	–	–	●	●	●	●	●	–
Wall-mounted	 PKA Series	–	●	–	●	●	●	●	–	–	–
		–	–	–	●	●	●	●	–	–	–
		–	–	–	–	●	●	●	–	–	–
Multi-position Air Handler	 PVA Series	–	●	–	●	●	●	●	●	●	●
		–	●	–	●	●	●	●	●	●	●
		–	–	–	–	●	●	●	●	●	–
intelli-HEAT®	 PAA Series	–	–	–	–	●	●	●	●	–	–
		–	–	–	●	●	●	●	●	●	●
		–	–	–	●	●	●	●	●	–	–
Ceiling-concealed	 PEAD Series	–	●	●	●	●	●	●	●	–	–
		●	–	–	–	●	●	●	●	–	–
		–	–	–	–	●	●	●	●	–	–
Ceiling-suspended	 PCA Series	–	–	–	–	●	●	●	●	–	–
		–	–	–	–	●	●	●	●	–	–
		–	–	–	–	●	●	●	●	–	–

●	Cooling only
●	Standard heat pump
●	Hyper-heating heat pump
–	Not available

S-Series product lineup

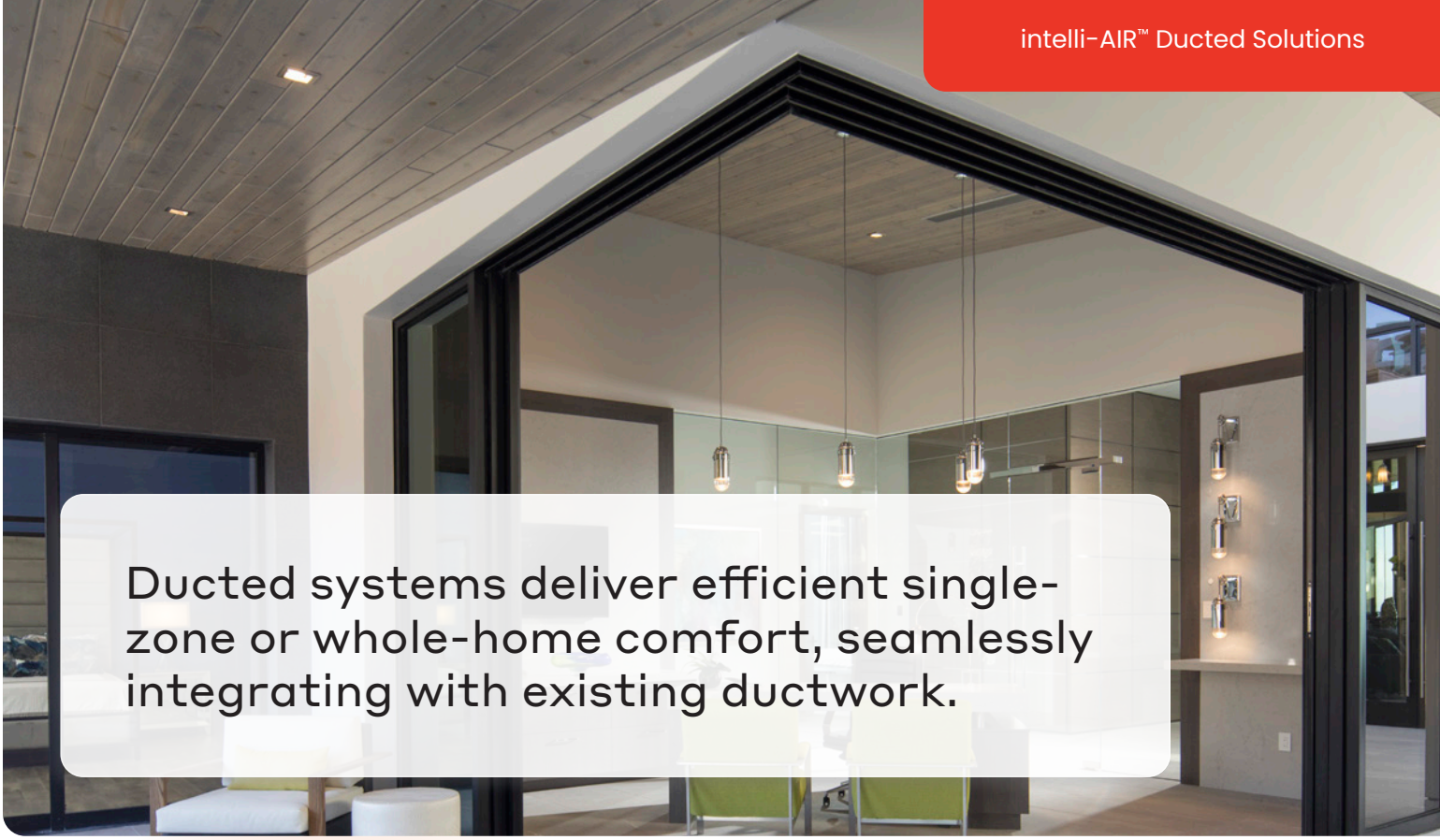
Models		9k BTU/H	12k BTU/H	15k BTU/H	18k BTU/H	24k BTU/H	30k BTU/H	36k BTU/H	48k BTU/H	60k BTU/H
			Single-phase							
4-way Cassette	 SLZ Series	●	●	●	●	●	–	–	–	–
		●	●	●	●	–	–	–	–	–
Wall-mounted	 SEZ Series	●	●	●	●	●	–	–	–	–
		●	●	●	●	–	–	–	–	–
Multi-position Air Handler	 SVZ Series	–	–	●	–	●	●	●	●	●
		–	●	–	●	●	●	●	●	●

● Cooling only
● Standard heat pump
● Hyper-heating heat pump
– Not available



intelli-AIR™

Ducted Solutions



Ducted systems deliver efficient single-zone or whole-home comfort, seamlessly integrating with existing ductwork.



intelli-AIR Ducted systems offer a powerful combination of energy efficiency, quiet operation, and design flexibility. Whether using existing ductwork or integrating concealed air handlers, these all-electric solutions provide consistent, whole-home comfort without disrupting the aesthetic of the space. Ideal for new construction or retrofits, ducted systems deliver reliable heating and cooling while supporting sustainability goals through advanced inverter technology.

Applications

intelli-AIR™ Ducted systems offer a flexible, all-electric solution for whole-home comfort. They're ideal for renovations, replacements, or new construction projects - especially when discreet installation is preferred. These systems can integrate with existing ductwork or use short-run ducts in tight spaces like attics, closets, or crawlspaces. With efficient zoning and consistent airflow, intelli-AIR is a smart choice for maintaining comfort across multiple rooms.



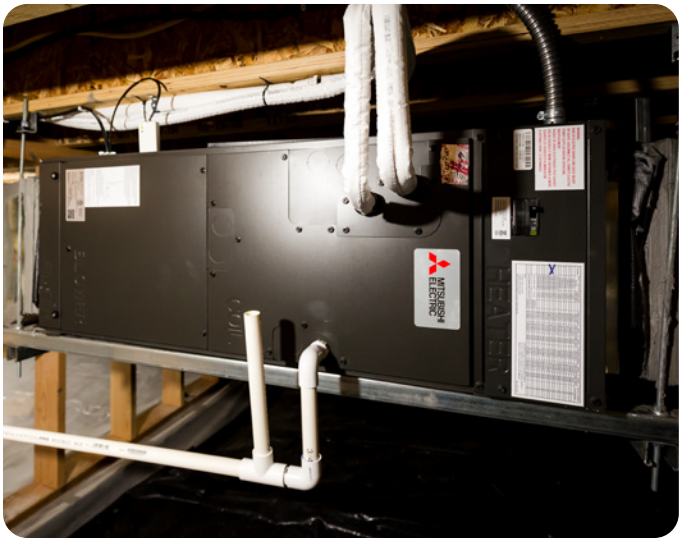
SVZ

Multi-position Air Handler



The SVZ Multi-position Air Handler is a whole-home solution that can replace furnaces or forced-air systems using existing ductwork. It supports upflow, downflow*, and horizontal left/right configurations; and it can be disassembled and reassembled to fit through tight spaces. Built-in control inputs support humidifiers, ERVs, and auxiliary heat. The SVZ is compatible with SUZ single-zone units, with MXZ compatibility available, and comes in 12k – 60k BTU/H models.





Product family

Indoor Units



SVZ-AP12-60NL

Outdoor Units

Standard heat pump



SUZ-AA12-15NL



SUZ-AA18-36NL

Hyper-heating heat pump



SUZ-AA12-18NLHZ



SUZ-AK24-48NLHZ

*Downflow kit required.

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Selectable static pressure	Selectable external static pressures of 0.3, 0.5, or 0.8 in.w.g. with 3 fan speeds at each static setting provides application diversity.
Electrically Commutated Motor (ECM)	The Electrically Commutated Motor (ECM) has an optimized design for efficient fan performance. Quiet operation is achieved with the forward-curved blower, which is positioned to prevent sound from traveling through the ductwork.
Black ZAM material	The unit can be fully disassembled and reassembled easily to fit through small spaces.
Blow-through design	The blow-through design has a positive pressure cabinet with 1 inch R4.2 rated fiberglass-free insulation and a cabinet air leakage less than 2% at 1.0 in.w.g.[2]
Electric Heat Kits	Optional Electric Heat Kits in capacities ranging from 3kW to 23kW for cold climate or back-up applications are available.
Interlocking Function	This air handler also has an output terminal which allows it to interlock with other appliances such as humidifiers and dehumidifiers.
Efficiency	
SEER2	Up to 19.5
HSPF2	Up to 9.8
COP at 47° F	Up to 3.8
Operating Ranges	
Heating Range	-13° F[2] to 75° F
Cooling Range	14° F to 115° F
Capacities	
12k – 60k BTU/H[3]	



Exceptional efficiency

SVZ systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 19.5, and HSPF2 certified up to 9.8.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 For Hyper-Heating INVERTER® (H2i®) models only
3 For SUZ only. For MXZ Ported and SMART MULTI®, refer to compatibility chart

SVZ: Standard heat pump

Specifications

Indoor Unit			SVZ-AP12NL	SVZ-AP18NL	SVZ-AP24NL	SVZ-AP30NL	SVZ-AP36NL	SVZ-AP48NL	SVZ-AP60NL
Outdoor Unit			SUZ-AA12NL	SUZ-AA18NL	SUZ-AA24NL	SUZ-AA30NL	SUZ-AA36NL	SUZ-AK48NL	SUZ-AK60NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	11,400	18,000	22,800	27,000	33,000	48,000	60,000
	Minimum Capacity		2,800	5,700	9,000	9,400	9,800	18,100	18,500
	Moisture Removal	Pints/h	1.5	2.8	5.6	5.5	8.2	10.5	14.3
	Rated Capacity	BTU/H	11,400	18,000	22,800	27,000	33,000	48,000	60,000
	Rated Power Input	W	940	1,490	1,930	2,400	3,530	4,450	5,490
	Sensible Heat Factor	-	0.85	0.83	0.73	0.77	0.72	0.77	0.74
Heating at 47F[2]	Maximum Capacity	BTU/H	15,100	23,800	28,000	32,000	36,200	60,000	67,000
	Minimum Capacity		5,100	8,500	8,300	8,600	8,700	14,700	14,600
	Rated Capacity		15,000	20,000	25,000	30,000	34,200	60,000	66,500
	Rated Power Input	W	1,280	1,530	2,130	2,500	2,810	5,670	6,720
Heating at 17F[3]	Maximum Capacity	BTU/H	9,700	12,800	17,100	18,600	20,900	38,000	42,500
	Rated Capacity		9,700	12,800	17,100	18,600	20,800	38,000	42,500
Heating at 5F[5]	Maximum Capacity		7,800	10,200	14,000	16,700	18,800	30,800	34,600
Efficiency	COP at 47°F[2]		3.4	3.8	3.4	3.5	3.5	3.1	2.9
	EER2[1]		12.1	12	11.8	11.2	9.3	9.1	9
	HSPF2 [IV]		9.7	9.8	9.4	9	8.2	8.1	8
	SEER2		18.4	16.2	19.5	17.8	15.8	17.1	17
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	30	25	30	30	40	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	278, 381, 448	471, 573, 675	471, 573, 700	613, 744, 875	767, 910, 910	1,040, 1,262, 1,485	1,155, 1,400, 1,650
	Airflow Rate at Cooling, Wet		-	-	-	-	-	1,040, 1,262, 1,485	1,155, 1,400, 1,650
	Airflow Rate at Heating, Dry		278, 381, 448	471, 573, 675	471, 573, 700	613, 744, 875	767, 910, 910	1,040, 1,262, 1,485	1,225, 1,485, 1,750
	External Static Pressure	in.WG	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80
	Sound Pressure Level [Cooling]	dB (A)	36, 41, 45	36, 41, 45	36, 41, 45	36, 45, 49	47, 49, 49	45, 48, 52	48, 55, 56
	Sound Pressure Level [Heating]		36, 41, 45	36, 41, 45	36, 41, 45	36, 45, 49	47, 49, 49	45, 48, 52	48, 55, 56
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	17 x 21-5/8 x 39-13/16 [432 x 548 x 1,011]	17 x 21-5/8 x 39-13/16 [432 x 548 x 1,011]	17 x 21-5/8 x 39-13/16 [432 x 548 x 1,011]	21 x 21-5/8 x 43-7/8 [534 x 548 x 1,111]	21 x 21-5/8 x 43-7/8 [534 x 548 x 1,111]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]
	Unit Weight	lbs [kg]	97 [44]	97 [44]	97 [44]	122 [55]	122 [55]	172 [78]	176 [80]
Outdoor Unit	Airflow Rate Cooling	CFM	1,229	2,193	1,974	1,974	1,974	4,020	4,020
	Airflow Rate Heating		1,172	1,949	1,949	1,949	1,949	4,020	4,020
	MCA	A	14	25	24	25	25	38	38
	MOCP		23	42	40	41	41	67	67
	Sound Pressure Level, Cooling[1]	dB (A)	49	54	55	55	55	60	60
	Sound Pressure Level, Heating[2]		51	55	55	55	55	62	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	81 [37]	115 [52.16]	117 [53]	117 [53]	117 [53]	265 [120]	264.60 [120]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5	70, 59 / -4, -4	70, 59 / -4, -4
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	1/2 [12.72]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	3/4 [19.05]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	40 [12]	50 [15]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		65 [20]	100 [30]	100 [30]	100 [30]	100 [30]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

SVZ: Hyper-heating heat pump

Specifications

Indoor Unit			SVZ-AP12NL	SVZ-AP18NL	SVZ-AP24NL	SVZ-AP30NL	SVZ-AP36NL	SVZ-AP48NL
Outdoor Unit			SUZ-AA12NLHZ	SUZ-AA18NLHZ	SUZ-AK24NLHZ	SUZ-AK30NLHZ	SUZ-AK36NLHZ	SUZ-AK48NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	12,000	18,000	25,000	29,000	37,000	52,000
	Minimum Capacity		5,400	5,700	12,300	12,700	12,700	18,000
	Moisture Removal	Pints/h	1.2	2.8	6.7	5.4	10.2	11.9
	Rated Capacity	BTU/H	12,000	18,000	23,800	28,000	36,000	48,000
	Rated Power Input	W	950	1,490	2,030	2,150	3,410	4,640
	Sensible Heat Factor	-	0.89	0.83	0.71	0.79	0.7	0.75
Heating at 47F[2]	Maximum Capacity	BTU/H	18,000	23,800	28,000	34,000	40,000	60,000
	Minimum Capacity		8,000	8,300	10,700	18,300	13,300	12,800
	Rated Capacity		15,000	20,000	28,000	34,000	40,000	60,000
	Rated Power Input	W	1,200	1,530	2,470	2,910	3,660	5,170
Heating at 17F[3]	Maximum Capacity	BTU/H	15,000	20,000	23,000	32,000	37,000	52,000
	Rated Capacity		9,300	12,800	19,000	23,600	25,800	30,800
Heating at 5F[5]	Maximum Capacity		15,000	20,000	23,000	32,000	37,000	52,000
Heating at -13F[9]			9,100	12,100	17,200	21,300	30,400	24,732
Efficiency	COP at 47°F[2]		3.6	3.8	3.3	3.4	3.2	3.4
	EER2[1]		12.6	12	11.7	13	10.5	9.4
	HSPF2 [IV]		9.3	9.5	8.6	9.2	9.1	8.5
	SEER2		16.1	16.2	18.6	17.1	15.2	18.1
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	30	30	25	30	30	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	278, 381, 448	471, 573, 675	471, 573, 700	613, 744, 875	767, 910, 910	1,040, 1,262, 1,485
	Airflow Rate at Cooling, Wet		-	-	-	-	-	1,040, 1,262, 1,485
	Airflow Rate at Heating, Dry		278, 381, 448	471, 573, 675	471, 573, 700	613, 744, 875	767, 910, 910	1,040, 1,262, 1,485
	External Static Pressure	in.WG	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80
	Sound Pressure Level [Cooling]	dB (A)	36, 41, 45	36, 41, 45	36, 41, 45	36, 45, 49	47, 49, 49	45, 48, 52
	Sound Pressure Level [Heating]		36, 41, 45	36, 41, 45	36, 41, 45	36, 45, 49	47, 49, 49	45, 48, 52
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	17 x 21-5/8 x 39-13/16 [432 x 548 x 1,011]	17 x 21-5/8 x 39-13/16 [432 x 548 x 1,011]	17 x 21-5/8 x 39-13/16 [432 x 548 x 1,011]	21 x 21-5/8 x 43-7/8 [534 x 548 x 1,111]	21 x 21-5/8 x 43-7/8 [534 x 548 x 1,111]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]
	Unit Weight	lbs [kg]	97 [44]	97 [44]	97 [44]	122 [55]	122 [55]	172 [78]
Outdoor Unit	Airflow Rate Cooling	CFM	2,193	2,193	3,740	3,740	3,740	4,020
	Airflow Rate Heating		1,949	1,949	3,740	3,740	3,740	4,020
	MCA	A	25	25	24	29	29	35
	MOCP		42	42	39	48	48	60
	Sound Pressure Level, Cooling[1]	dB (A)	54	54	52	52	52	60
	Sound Pressure Level, Heating[2]		55	55	53	53	53	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	115 [52.2]	115 [52.2]	231 [105]	231 [105]	231 [105]	271 [123]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	70, 59 / -13, -13
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	1/2 [12.72]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	50 [15]	50 [15]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	164 [50]	245 [75]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PVA

Multi-position Air Handler



The PVA Multi-position Air Handler can be configured for horizontal left/right, upflow, and downflow* applications. The unit can be fully disassembled and reassembled easily to fit through small spaces, and features a built-in humidifier, ERV, and auxiliary heat control inputs. This Multi-position Air Handler comes with a built-in refrigerant leak sensor, compatible in a one-to-one system, and is available in 12k - 60k BTU/H models.





Product family

Indoor Units



PVA-AA12-60NL

Outdoor Units

Cooling only



PUY-AK12-18NL



PUY-AH24-30NL



PUY-AK36-60NL

Standard heat pump



PUZ-AK12-18NL



PUZ-AH24-30NL



PUZ-AK36-60NL

Hyper-heating heat pump

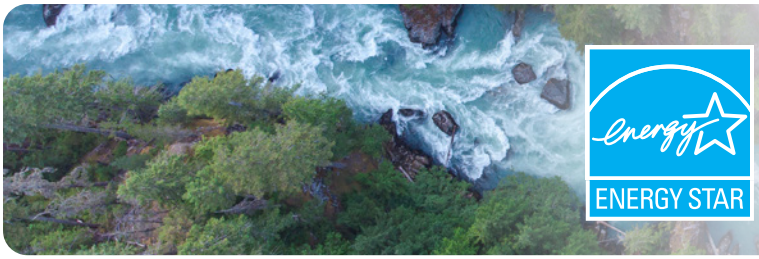


PUZ-AK24-48NLHZ

*Downflow kit required.

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Selectable static pressure	Selectable external static pressures of 0.3, 0.5, or 0.8 in.w.g. with 3 fan speeds at each static setting provides application diversity.
Electrically Commutated Motor (ECM)	The Electrically Commutated Motor (ECM) has an optimized design for efficient fan performance. Quiet operation is achieved with the forward-curved blower, which is positioned to prevent sound from traveling through the ductwork.
Black ZAM material	The unit can be fully disassembled and reassembled easily to fit through small spaces.
Blow-through design	The blow-through design has a positive pressure cabinet with 1 inch R4.2 rated fiberglass-free insulation and a cabinet air leakage less than 2% at 1.0 in.w.g.[2]
Electric Heat Kits	Optional Electric Heat Kits in capacities ranging from 3kW to 23kW for cold climate or back-up applications are available.
Interlocking Function	This air handler also has an output terminal which allows it to interlock with other appliances such as humidifiers and dehumidifiers.
Efficiency	
SEER2	Up to 21.2
HSPF2	Up to 9.8
COP at 47° F	Up to 4.2
Operating Ranges	
Heating Range	-13° F[3] to 70° F
Cooling Range	23° F to 115° F
Capacities	
12k – 60k BTU/H[4]	



Exceptional efficiency

PVA systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 21.2, and HSPF2 certified up to 9.8.

1 Specific combinations qualify
2 Tested in accordance with ASHRAE Standard 193
3 For Hyper-Heating INVERTER® (H2i®) models only
4 For SUZ only. For MXZ Ported and SMART MULTI®, refer to compatibility chart

PVA: Standard heat pump

Specifications

Indoor Unit			PVA-AA12NL	PVA-AA18NL	PVA-AA24NL	PVA-AA30NL	PVA-AA36NL	PVA-AA42NL	PVA-AA48NL	PVA-AA60NL
Outdoor Unit			PUZ-AK12NL	PUZ-AK18NL	PUZ-AH24NL	PUZ-AH30NL	PUZ-AK36NL	PUZ-AK42NL	PUZ-AK48NL	PUZ-AK60NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	12,400	18,300	24,000	30,600	37,000	44,000	48,000	60,000
	Minimum Capacity		4,500	4,700	10,200	10,200	13,400	14,100	31,200	18,500
	Moisture Removal	Pints/h	3.8	3.6	3	10.5	12.1	12.5	10.5	14.3
	Rated Capacity	BTU/H	12,000	18,000	23,400	30,000	36,000	42,000	48,000	60,000
	Rated Power Input	W	840	1,530	1,940	3,030	2,960	3,760	4,450	6,070
	Sensible Heat Factor	-	0.66	0.78	0.86	0.62	0.64	0.68	0.77	0.74
Heating at 47F[2]	Maximum Capacity	BTU/H	19,000	24,000	31,800	34,400	40,000	49,700	60,000	67,000
	Minimum Capacity		4,500	4,700	8,400	8,400	13,300	13,300	21,700	14,600
	Rated Capacity		19,000	23,000	28,000	33,400	40,000	48,000	60,000	66,500
	Rated Power Input	W	1,730	1,983	2,217	2,800	2,800	3,702	5,620	6,590
Heating at 17F[3]	Maximum Capacity	BTU/H	10,200	12,100	15,200	18,200	23,600	29,600	38,000	42,500
	Rated Capacity		10,200	12,100	15,200	18,200	23,600	29,600	38,000	42,500
Heating at 5F[5]	Maximum Capacity		8,500	9,500	11,500	12,800	20,000	25,400	30,800	34,600
Efficiency	COP at 47°F[2]		3.2	3.4	3.7	3.5	4.2	3.8	3.1	2.9
	EER2[1]		14.2	11.7	12	9.9	12.1	11.1	10.6	9.8
	HSPF2 [IV]		9.8	8.6	8.9	8.5	9.2	9.4	8.4	8.4
	SEER2		20	18.6	19.2	18	19.5	19.1	18.1	18.3
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	20	20	25	25	35	35	40	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	280, 340, 400	515, 625, 735	613, 744, 875	613, 744, 875	788, 956, 1,125	1,040, 1,262, 1,485	1,040, 1,262, 1,485	1,155, 1,400, 1,650
	Airflow Rate at Cooling, Wet		-	-	-	-	-	-	1,040, 1,262, 1,485	1,155, 1,400, 1,650
	Airflow Rate at Heating, Dry		280, 340, 400	515, 625, 735	613, 744, 875	613, 744, 875	788, 956, 1,125	1,040, 1,262, 1,485	1,040, 1,262, 1,485	1,225, 1,485, 1,750
	External Static Pressure	in.WG	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80
	Sound Pressure Level [Cooling]	dB (A)	31, 35, 38	31, 36, 40	34, 40, 44	34, 40, 44	38, 43, 43	45, 48, 52	45, 48, 52	48, 55, 56
	Sound Pressure Level [Heating]		31, 35, 38	31, 36, 40	34, 40, 44	34, 40, 44	38, 43, 43	45, 48, 52	45, 48, 52	48, 55, 56
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	17 x 21-5/8 x 50-1/4 [432 x 548 x 1,275]	17 x 21-5/8 x 50-1/4 [432 x 548 x 1,275]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1,378]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1,378]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]
	Unit Weight	lbs [kg]	113 [51]	113 [51]	141 [64]	141 [64]	172 [78]	172 [78]	172 [78]	176 [80]
Outdoor Unit	Airflow Rate Cooling	CFM	1,590	1,590	1,940	1,940	3,910	3,910	4,020	4,020
	Airflow Rate Heating		1,590	1,590	1,940	1,940	3,910	3,910	4,020	4,020
	MCA	A	16	16	22	22	34	34	38	38
	MOCP		27	27	37	37	56	56	67	67
	Sound Pressure Level, Cooling[1]	dB (A)	44	44	49	49	52	52	60	60
	Sound Pressure Level, Heating[2]		46	46	52	52	53	53	62	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/16 x 11-13/16 x 24-13/16 [871 x 300 x 630]	34-19/16 x 11-13/16 x 24-13/16 [871 x 300 x 630]	34-19/16 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 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	99 [45]	99 [45]	155 [70]	155 [70]	224 [102]	224 [102]	265 [120]	265 [120]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]	1/2 [12.72]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	3/4 [19.05]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	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 Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	165 [50]	165 [50]	165 [50]	165 [50]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Heat pump system with wind baffle: 0°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PVA : Hyper-heating heat pump

Specifications

Indoor Unit			PVA-AA24NL	PVA-AA30NL	PVA-AA36NL	PVA-AA42NL	PVA-AA48NL
Outdoor Unit			PUZ-AK24NLHZ	PUZ-AK30NLHZ	PUZ-AK36NLHZ	PUZ-AK42NLHZ	PUZ-AK48NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	25,000	31,000	37,000	43,000	48,000
	Minimum Capacity		13,600	12,600	14,600	17,900	18,000
	Moisture Removal	Pints/h	6.7	6.6	11.8	6.6	11.9
	Rated Capacity	BTU/H	24,000	30,000	36,000	42,000	48,000
	Rated Power Input	W	1,760	2,210	2,960	3,660	4,640
	Sensible Heat Factor	-	0.7	0.76	0.65	0.83	0.75
Heating at 47F[2]	Maximum Capacity	BTU/H	28,000	34,000	40,000	54,000	60,000
	Minimum Capacity		12,800	11,500	13,000	16,100	12,800
	Rated Capacity		28,000	34,000	40,000	54,000	60,000
	Rated Power Input	W	2,020	2,350	2,780	4,400	5,130
Heating at 17F[3]	Maximum Capacity	BTU/H	26,000	32,000	38,000	48,000	30,800
	Rated Capacity		17,000	21,600	24,400	32,200	30,800
Heating at 5F[5]	Maximum Capacity		26,000	32,000	38,000	48,000	52,000
Heating at -13F[9]			18,500	21,000	30,800	36,700	24,800
Efficiency	COP at 47°F[2]		4	4.2	4.2	3.6	3.4
	EER2[1]		13.6	13.5	12.1	11.4	10.4
	HSPF2 [IV]		8.8	9.3	9.2	8.7	8.7
	SEER2		19.7	21	21.2	18.7	20.2
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	25	30	30	40	40
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	613, 744, 875	613, 744, 875	788, 956, 1,125	1,040, 1,262, 1,485	1,040, 1,262, 1,485
	Airflow Rate at Cooling, Wet		-	-	-	-	1,040, 1,262, 1,485
	Airflow Rate at Heating, Dry		613, 744, 875	613, 744, 875	788, 956, 1,125	1,040, 1,262, 1,485	1,040, 1,262, 1,485
	External Static Pressure	in.WG	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80
	Sound Pressure Level [Cooling]	dB (A)	34, 40, 44	34, 40, 44	38, 43, 43	45, 48, 52	45, 48, 52
	Sound Pressure Level [Heating]		-	-	-	-	45, 48, 52
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1,378]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1,378]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]
	Unit Weight	lbs [kg]	141 [64]	141 [64]	172 [78]	172 [78]	172 [78]
Outdoor Unit	Airflow Rate Cooling	CFM	3,740	3,740	3,740	4,020	4,020
	Airflow Rate Heating		3,740	3,740	3,740	4,020	4,020
	MCA	A	24	29	29	35	35
	MOCP		39	48	48	60	60
	Sound Pressure Level, Cooling[1]	dB (A)	52	52	52	60	60
	Sound Pressure Level, Heating[2]		53	53	53	62	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	231 [105]	231 [105]	231 [105]	271 [123]	271 [123]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B
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]	5/8 [15.88]
	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]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	245 [75]	245 [75]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Heat pump system with wind baffle: 0°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PVA: Cooling only

Specifications

Indoor Unit			PVA-AA12NL	PVA-AA18NL	PVA-AA24NL	PVA-AA30NL	PVA-AA36NL	PVA-AA42NL	PVA-AA48NL	PVA-AA60NL
Outdoor Unit			PUY-AK12NL	PUY-AK18NL	PUY-AH24NL	PUY-AH30NL	PUY-AK36NL	PUY-AK42NL	PUY-AK48NL	PUY-AK60NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	12,400	18,300	24,000	30,600	37,000	44,000	48,000	60,000
	Minimum Capacity		4,500	4,700	10,200	10,200	13,400	14,100	31,200	18,500
	Moisture Removal	Pints/h	3.8	3.6	3	10.5	12.1	12.5	10.5	14.3
	Rated Capacity	Btu/h	12,000	18,000	23,400	30,000	36,000	42,000	48,000	56,000
	Rated Power Input	W	840	1,530	1,940	3,030	2,960	3,760	4,450	5,640
	Sensible Heat Factor	-	0.66	0.78	0.86	0.62	0.64	0.68	0.77	0.74
Efficiency	EER2[1]		14.2	11.7	12	9.9	12.1	11.1	10.6	9.8
	SEER2		20	18.6	19.2	18	19.5	19.1	18.1	18.3
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	20	20	25	25	35	35	40	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	280, 340, 400	515, 625, 735	613, 744, 875	613, 744, 875	788, 956, 1,125	1,040, 1,262, 1,485	1,040, 1,262, 1,485	1,155, 1,400, 1,650
	Airflow Rate at Cooling, Wet		-	-	-	-	-	-	1,040, 1,262, 1,485	1,155, 1,400, 1,650
	Airflow Rate at Heating, Dry		-	-	-	-	-	-	1,040, 1,262, 1,485	1,155, 1,400, 1,650
	External Static Pressure	in.WG	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80	0.30, 0.50, 0.80
	Sound Pressure Level [Cooling]	dB (A)	31, 35, 38	31, 36, 40	34, 40, 44	34, 40, 44	38, 43, 43	45, 48, 52	45, 48, 52	48, 55, 56
	Sound Pressure Level [Heating]		-	-	-	-	-	-	45, 48, 52	48, 55, 56
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	17 x 21-5/8 x 50-1/4 [432 x 548 x 1,275]	17 x 21-5/8 x 50-1/4 [432 x 548 x 1,275]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1,378]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1,378]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]
	Unit Weight	lbs [kg]	113 [51]	113 [51]	141 [64]	141 [64]	172 [78]	172 [78]	172 [78]	176 [80]
Outdoor Unit	Airflow Rate Cooling	CFM	1,590	1,590	1,940	1,940	3,910	3,910	4,020	4,020
	MCA	A	16	16	22	22	34	34	38	38
	MOCP		27	27	37	37	56	56	67	67
	Sound Pressure Level, Cooling[1]	dB (A)	44	44	49	49	52	52	60	60
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/16 x 11-13/16 x 24-13/16 [871 x 300 x 630]	34-19/16 x 11-13/16 x 24-13/16 [871 x 300 x 630]	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 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	99 [45]	99 [45]	155 [70]	155 [70]	224 [102]	224 [102]	265 [120]	265 [120]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]	1/2 [12.72]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	3/4 [19.05]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	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 Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	165 [50]	225 [69]	225 [69]	225 [69]	225 [69]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

* Indoor/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.

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

intelli-HEAT™

PAA Dual-fuel system



New slim control box can be mounted separately from the main unit for flexible installation.

The intelli-HEAT™ Dual-fuel system consists of an all-electric heat pump and coil that integrates with an existing gas furnace.[2]

This system can provide powerful air conditioning on hot days and determine the best source of heat (gas or electricity) on cold days, maximizing efficiency and comfort. The indoor unit is compatible with both single- and multi-zone outdoor units. A multi-zone outdoor unit can connect to other ducted or ductless indoor units for fixing hot or cold spots or dividing a large zone into smaller, more controlled zones. The PAA also includes a built-in refrigerant leak sensor for added safety.



With **intelligent switchover**, intelli-HEAT™ automatically switches between efficient electric heating and gas furnace backup, plus all-electric cooling year-round.



Product family

Indoor Units



PAA-AA18-30NL
PAA-BA18-42NL
PAA-CA36-42NL

Outdoor Units

Cooling only



PUY-AH24-30NL



PUY-AK36-42NL

Standard heat pump



PUZ-AH24-30NL



PUZ-AK36-42NL

Hyper-heating heat pump



PUZ-AK24-42NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Air conditioning	Replace an old AC unit or add new air conditioning to an entire home for all-electric, energy-efficient comfort. The intelli-HEAT can pair with cooling-only air-conditioning systems.
Furnace compatible	The control box directs the switchover between electric heating and gas furnace-provided heat. Most of the time, the system is set to switchover based on an economic setpoint, using the form of energy that will cost the least. However, when indoor temperatures are not maintained in a specific time frame due to extreme cold exceeding unit capacity, intelli-HEAT™ will switch over to gas furnace heating to maintain comfort. The system will then slowly return to the original economic setpoint and unlearn the switchover temperature.[2]
Intelligent Switchover	The intelli-HEAT™ Intelligent Switchover function automatically switches from the all-electric heat pump heating to the gas furnace based on the ambient temperature to optimize economic and lower carbon footprint priorities. When indoor temperatures are not maintained for 24-29 minutes due to extreme cold, the system switches to the gas furnace heating automatically to ensure consistent comfort.
Eco-efficiency	Variable speed technology and smart controls significantly reduce fossil fuel usage and greenhouse gas emissions.
Flexible installation	The a-coil can be installed in vertical, downflow, and horizontal left/right orientations. The control box can be mounted anywhere, such as the side of the cased coil or on a wall/stud.
Compact control box	The control boxes have a sleek, modern design and an advanced circuit board to streamline installation and setup through easy configuration and quick-connect push terminals for hassle-free wiring. Dedicated terminals for precise 2-fan speed control are available in both single- and multi-zone systems.
Oxygen-free copper coils	Oxygen-free copper coils are designed to resist corrosion and help to extend the lifespan of the coil compared to standard copper.
Efficiency	
SEER2	Up to 18.1
HSPF2	Up to 9.4
COP at 47° F	Up to 4.0
Operating Ranges	
Heating Range	-22° F[3] to 70° F
Cooling Range	23° F to 115° F
Capacities[4]	
PUY/PUZ: 18k – 42k BTU/H **PUZ H2i:** 24k – 42k BTU/H	



Exceptional efficiency

Select intelli-HEAT™ systems are ENERGY STAR® ESCC certified[1], SEER 2 certified up to 18.1, and HSPF2 certified up to 9.4.

1 Specific combinations qualify
2 Mitsubishi Electric air-conditioner and heat pump systems should only be connected with ANSI-Z21.47/CSA2.3 certified furnaces
3 For Hyper-Heating INVERTER® (H2i®) models only
3 For MXZ Ported and SMART MULTI, refer to compatibility chart

intelli-HEAT™: Standard heat pump

Specifications

Indoor Unit			PAA-AA18NL	PAA-AA24NL	PAA-AA30NL	PAA-BA18NL	PAA-BA24NL	PAA-BA30NL	PAA-BA36NL	PAA-BA42NL	PAA-CA36NL	PAA-CA42NL
Outdoor Unit			PUZ-AH24NL		PUZ-AH30NL	PUZ-AH24NL	PUZ-AH24NL	PUZ-AH30NL	PUZ-AK-36NL	PUZ-AK-42NL	PUZ-AK-36NL	PUZ-AK-42NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	18,500	24,000	31,500	18,500	24,000	31,500	36,000	43,000	36,000	43,000
	Minimum Capacity		9,500	9,800	10,100	9,500	9,800	10,100	16,200	15,400	16,200	15,400
	Moisture Removal	Pints/h	5.1	5.7	7.7	5.1	5.7	7.7	6.8	11.1	6.8	11.1
	Rated Capacity	Btu/h	18,000	23,600	31,000	18,000	23,600	31,000	32,000	42,000	32,000	42,000
	Rated Power Input	W	1,400	1,960	3,130	1,400	1,960	3,130	2,720	4,040	2,720	4,040
	Sensible Heat Factor	-	0.71	0.75	0.73	0.71	0.75	0.73	0.78	0.72	0.78	0.72
Heating at 47F[2]	Maximum Capacity	Btu/h	30,100	31,400	35,400	30,100	31,400	35,400	42,000	50,000	42,000	50,000
	Minimum Capacity		11,400	11,700	10,100	11,400	11,700	10,100	19,200	18,900	19,200	18,900
	Rated Capacity		19,000	26,000	32,000	19,000	26,000	32,000	38,000	46,000	38,000	46,000
	Rated Power Input	W	1,560	1,900	2,480	1,560	1,900	2,480	3,030	4,030	3,030	4,030
Heating at 17F[3]	Maximum Capacity	Btu/h	10,200	14,200	20,400	10,200	14,200	20,400	27,600	32,600	27,600	32,600
	Rated Capacity		10,200	14,200	20,400	10,200	14,200	20,400	27,600	32,600	27,600	32,600
Heating at 5F[5]	Maximum Capacity		13,300	13,500	15,300	13,300	13,500	15,300	24,400	26,600	24,400	26,600
Efficiency	COP at 47°F[2]		3.5	4	3.7	3.5	4	3.7	3.6	3.3	3.6	3.3
	EER2[1]		12.8	12	9.9	12.8	12	9.9	11.7	10.3	11.7	10.3
	HSPF2 [IV]		8.8	8.7	8.9	8.8	8.7	8.9	9.4	9.3	9.4	9.3
	SEER2		17.9	17.8	16.1	17.9	17.8	16.1	18.1	17.1	18.1	17.1
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	25	25	25	25	25	35	35	35	35
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Control Box Weight	lbs [kg]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]
	Internal Static Pressure [at Rated CFM]	in.WG	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 32 [445 x 543 x 812]	17-1/2 x 21-3/8 x 32 [445 x 543 x 812]	21-1/8 x 21-7/16 x 32 [535 x 543 x 812]	21-1/8 x 21-7/16 x 32 [535 x 543 x 812]
	Unit Weight	lbs [kg]	49.6 [22.5]	59.5 [27]	58.4 [26.5]	54 [24.5]	62.8 [28.5]	63.9 [29]	72.8 [33]	72.8 [33]	79.4 [36]	80.5 [36.5]
Outdoor Unit	Airflow Rate Cooling	CFM	1,940	1,940	1,940	1,940	1,940	1,940	3,910	3,910	3,910	3,910
	Airflow Rate Heating		1,940	1,940	1,940	1,940	1,940	1,940	3,910	3,910	3,910	3,910
	MCA	A	22	22	22	22	22	22	34	34	34	34
	MOCP		37	37	37	37	37	37	56	56	56	56
	Sound Pressure Level, Cooling[1]	dB (A)	49	49	49	49	49	49	52	52	52	52
	Sound Pressure Level, Heating[2]		52	52	52	52	52	52	53	53	53	53
	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]	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]	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 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	155 [70]	155 [70]	155 [70]	155 [70]	155 [70]	155 [70]	224 [102]	224 [102]	224 [102]	224 [102]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]
	Liquid Pipe Size O.D. [Flared]		8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]

intelli-HEAT™: Hyper-heating heat pump

Specifications

Indoor Unit			PAA-AA18NL	PAA-AA24NL	PAA-AA30NL	PAA-BA18NL	PAA-BA24NL	PAA-BA30NL	PAA-BA36NL	PAA-BA42NL	PAA-CA36NL	PAA-CA42NL
Outdoor Unit			PUZ-AK24N-LHZ	PUZ-AK24N-LHZ	PUZ-AK30N-LHZ	PUZ-AK24N-LHZ	PUZ-AK24N-LHZ	PUZ-AK30N-LHZ	PUZ-AK36N-LHZ	PUZ-AK42N-LHZ	PUZ-AK36N-LHZ	PUZ-AK42N-LHZ
Cooling at 95F[1]	Maximum Capacity	Btu/h	19,000	25,000	31,000	19,000	25,000	31,000	36,000	44,500	36,000	44,500
	Minimum Capacity		13,100	14,100	15,800	13,100	14,100	15,800	16,200	17,300	16,200	17,300
	Moisture Removal	Pints/h	4.8	6	7.6	4.8	6	7.6	6.8	11.4	6.8	11.4
	Rated Capacity	Btu/h	18,000	24,000	30,000	18,000	24,000	30,000	32,000	42,000	32,000	42,000
	Rated Power Input	W	1,530	1,980	2,550	1,530	1,980	2,550	2,720	3,860	2,720	3,860
	Sensible Heat Factor	-	0.73	0.74	0.74	0.73	0.74	0.74	0.78	0.71	0.78	0.71
Heating at 47F[2]	Maximum Capacity	Btu/h	23,000	27,900	35,800	23,000	27,900	35,800	42,000	54,000	42,000	54,000
	Minimum Capacity		12,400	12,700	14,900	12,400	12,700	14,900	19,200	26,100	19,200	26,100
	Rated Capacity		22,000	26,000	32,000	22,000	26,000	32,000	38,000	48,000	38,000	48,000
	Rated Power Input	W	2,040	2,130	2,570	2,040	2,130	2,570	3,030	4,770	3,030	4,770
Heating at 17F[3]	Maximum Capacity	Btu/h	22,000	26,000	32,000	22,000	26,000	32,000	38,000	48,000	38,000	48,000
	Rated Capacity		16,500	20,800	26,600	16,500	20,800	26,600	31,200	38,500	31,200	38,500
Heating at 5F[5]	Maximum Capacity		22,000	26,000	32,000	22,000	26,000	32,000	38,000	48,000	38,000	48,000
Heating at -13F[9]			18,200	18,600	23,000	18,200	18,600	23,000	28,400	34,800	28,400	34,800
Efficiency	COP at 47°F[2]		3.1	3.5	3.6	3.1	3.5	3.6	3.6	2.9	3.6	2.9
	EER2[1]		11.7	12.1	11.7	11.7	12.1	11.7	11.7	10.8	11.7	10.8
	HSPF2 [IV]		8.5	9.4	9	8.5	9.4	9	9.4	8.7	9.4	8.7
	SEER2		15.9	17	17.6	15.9	17	17.6	18.1	17.1	18.1	17.1
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	25	30	25	25	30	30	40	30	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Control Box Weight	lbs [kg]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]
	Internal Static Pressure [at Rated CFM]	in.WG	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 32 [445 x 543 x 812]	17-1/2 x 21-3/8 x 32 [445 x 543 x 812]	21-1/8 x 21-7/16 x 32 [535 x 543 x 812]	21-1/8 x 21-7/16 x 32 [535 x 543 x 812]
	Unit Weight	lbs [kg]	49.6 [22.5]	59.5 [27]	58.4 [26.5]	54 [24.5]	62.8 [28.5]	63.9 [29]	72.8 [33]	72.8 [33]	79.4 [36]	80.5 [36.5]
Outdoor Unit	Airflow Rate Cooling	CFM	3,740	3,740	3,740	3,740	3,740	3,740	3,740	4,020	3,740	4,020
	Airflow Rate Heating		3,740	3,740	3,740	3,740	3,740	3,740	3,740	4,020	3,740	4,020
	MCA	A	24	24	29	24	24	29	29	35	29	35
	MOCP		39	39	48	39	39	48	48	60	48	60
	Sound Pressure Level, Cooling[1]	dB (A)	52	52	52	52	52	52	52	60	52	60
	Sound Pressure Level, Heating[2]		53	53	53	53	53	53	53	62	53	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	231 [105]	231 [105]	231 [105]	231 [105]	231 [105]	231 [105]	231 [105]	271 [123]	231 [105]	271 [123]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]		-	-	70 / -13	-	-	70 / -13	-	-	-	70 / -13
			-	-	-	-	-	-	-	70	-	-
		°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13	70, 59 / -13, -13	-	70, 59 / -13, -13	70, 59 / -13, -13	-	70, 59 / -13, -13	-	70, 59 / -13, -13	-
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]
	Liquid Pipe Size O.D. [Flared]		8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	245 [75]	100 [30]	100 [30]	245 [75]	100 [30]	100 [30]	100 [30]	100 [30]

intelli-HEAT™: Cooling-only

Specifications

Indoor Unit			PAA-AA18NL	PAA-AA24NL	PAA-AA30NL	PAA-BA18NL	PAA-BA24NL	PAA-BA30NL	PAA-BA36NL	PAA-BA42NL	PAA-CA36NL	PAA-CA42NL
Outdoor Unit			PUY-AH24NL	PUY-AH24NL	PUY-AH30NL	PUY-AH24NL	PUY-AH24NL	PUY-AH30NL	PUY-AK-36NL	PUY-AK-42NL	PUY-AK-36NL	PUY-AK-42NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	18,500	24,000	31,500	18,500	24,000	31,500	36,000	43,000	36,000	43,000
	Minimum Capacity		9,500	9,800	10,100	9,500	9,800	10,100	16,200	15,400	16,200	15,400
	Moisture Removal	Pints/h	5.1	5.7	7.7	5.1	5.7	7.7	6.8	11.1	6.8	11.1
	Rated Capacity	Btu/h	18,000	23,600	31,000	18,000	23,600	31,000	32,000	42,000	32,000	42,000
	Rated Power Input	W	1,400	1,960	3,130	1,400	1,960	3,130	2,720	4,040	2,720	4,040
	Sensible Heat Factor	-	0.71	0.75	0.73	0.71	0.75	0.73	0.78	0.72	0.78	0.72
Efficiency	EER2[1]		12.8	12	9.9	12.8	12	9.9	11.7	10.3	11.7	10.3
	SEER2		17.9	17.8	16.1	17.9	17.8	16.1	18.1	17.1	18.1	17.1
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	25	25	25	25	25	35	35	35	35
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Control Box Weight	lbs [kg]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]	2.3 [5.1]
	Internal Static Pressure [at Rated CFM]	in.WG	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]	17-9/16 x 21-7/16 x 32 [445 x 543 x 812]	17-1/2 x 21-3/8 x 32 [445 x 543 x 812]	21-1/8 x 21-7/16 x 32 [535 x 543 x 812]	21-1/8 x 21-7/16 x 32 [535 x 543 x 812]
	Unit Weight	lbs [kg]	49.6 [22.5]	59.5 [27]	58.4 [26.5]	54 [24.5]	62.8 [28.5]	63.9 [29]	72.8 [33]	72.8 [33]	79.4 [36]	80.5 [36.5]
Outdoor Unit	Airflow Rate Cooling	CFM	1,940	1,940	1,940	1,940	1,940	1,940	3,910	3,910	3,910	3,910
	MCA	A	22	22	22	22	22	22	34	34	34	34
	MOCP		37	37	37	37	37	37	56	56	56	56
	Sound Pressure Level, Cooling[1]	dB (A)	49	49	49	49	49	49	52	52	52	52
	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]	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]	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 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	155 [70]	155 [70]	155 [70]	155 [70]	155 [70]	155 [70]	224 [102]	224 [102]	224 [102]	224 [102]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]	8-May [15.88]
	Liquid Pipe Size O.D. [Flared]		8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]

PEAD

Mid-static Horizontal-ducted Indoor Unit



PEAD Mid-static Horizontal-ducted Indoor Units offer low capacities suitable for residential needs and larger capacities ideal for light commercial uses such as offices, retail, and restaurants. These ducted solutions are capable of serving large spaces or multiple rooms supplied by a longer duct run. The PEAD comes with a built-in refrigerant leak sensor, compatible in a one-to-one system.

Product family

Indoor Units



PEAD-AA09-42NL

Outdoor Units

Cooling only



PUY-AK12-18NL | PUY-AH24-30NL | PUY-AK36-42NL

Standard heat pump



SUZ-AA09-15NL | SUZ-AA18-36NL

Standard heat pump



PUZ-AK12-18NL | PUZ-AH24-30NL | PUZ-AK36-42NL

Hyper-heating heat pump



SUZ-AA09-18NLHZ | SUZ-AK24-36NLHZ

Hyper-heating heat pump



PUZ-AK24-42NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Five-stage external static pressures	These ducted units incorporate five-stage external static pressures (0.14 – 0.60 in.w.g) and three fan speed selections, providing application diversity.
Compact design	The PEAD has a height of 9-7/8 inches for all models of the series from 09 to 42k BTU/H. This makes it possible for the unit to be installed in low ceilings with minimal clearance space.
Built-in condensate lift mechanism	The built-in condensate lift mechanism removes water that is collected during operation.
Efficiency	
SEER2	Up to 21.7
HSPF2	Up to 11.5
COP at 47° F	Up to 4.2
Operating Ranges	
Heating Range	-13° F to 70° F, -4° F to 75° F (SUZ and PUZ combinations)
Cooling Range	23° F to 115° F (SUZ H2i and PUY/PUZ, and SUZ combinations)
Capacities[2]	
SUZ (standard and H2i): 9k–36k BTU/H PUY/PUZ: 12k, 18k, 24k, 30k, 36k, 42k BTU/H PUZ H2i: 24k–42k BTU/H	



Exceptional efficiency

PEAD systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 21.7, and HSPF2 certified up to 11.5.





This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 For MXZ Ported and SMART MULTI®, refer to compatibility chart

PEAD: Standard heat pump

Specifications

Indoor Unit			PEAD-AA09NL	PEAD-AA12NL	PEAD-AA12NL	PEAD-AA15NL	PEAD-AA18NL	PEAD-AA18NL	PEAD-AA24NL	PEAD-AA24NL	PEAD-AA30NL	PEAD-AA30NL	PEAD-AA36NL	PEAD-AA36NL
Outdoor Unit			SUZ-AA09NL	PUZ-AK-12NL	SUZ-AA12NL	SUZ-AA15NL	PUZ-AK-18NL	SUZ-AA18NL	PUZ-AH24NL	SUZ-AA24NL	PUZ-AH30NL	SUZ-AA30NL	PUZ-AK-36NL	SUZ-AA36NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,400	12,000	15,000	18,500	18,000	24,000	24,000	30,000	27,000	37,000	33,000
	Minimum Capacity		1,900	4,400	3,100	3,600	4,700	5,500	9,900	9,100	9,800	9,500	13,500	9,900
	Moisture Removal	Pints/h	0.4	3	1	1.8	5.9	2.9	2.9	4.6	9.7	4.4	11.8	4.4
	Rated Capacity	BTU/H	9,000	12,000	12,000	15,000	18,000	18,000	21,200	24,000	27,000	27,000	36,000	33,000
	Rated Power Input	W	680	830	960	1,220	1,530	1,410	1,760	1,900	2,720	2,270	2,860	3,070
	Sensible Heat Factor	-	0.95	0.73	0.91	0.87	0.65	0.82	0.85	0.79	0.61	0.82	0.65	0.85
Heating at 47F[2]	Maximum Capacity	BTU/H	13,000	18,000	15,000	20,900	22,000	23,500	31,400	28,200	34,400	31,400	40,000	36,000
	Minimum Capacity		4,800	4,200	5,000	4,300	4,200	8,300	8,300	8,300	8,300	8,400	13,200	8,600
	Rated Capacity		12,000	18,000	15,000	18,000	22,000	20,000	28,000	25,000	33,000	30,000	40,000	34,000
	Rated Power Input	W	950	1,600	1,293	1,280	1,900	1,542	2,414	2,035	2,930	2,664	2,791	2,693
Heating at 17F[3]	Maximum Capacity	BTU/H	7,800	9,200	9,700	10,400	11,600	13,100	15,300	17,100	18,000	18,700	23,400	21,000
	Rated Capacity		7,800	9,200	9,700	10,400	11,600	13,100	15,300	17,100	18,000	18,700	23,400	21,000
Heating at 5F[5]	Maximum Capacity		6,200	7,900	7,800	9,600	9,100	10,500	11,500	13,900	12,900	17,000	20,000	18,900
Efficiency	COP at 47°F[2]		3.7	3.3	3.4	4.1	3.4	3.8	3.4	3.6	3.3	3.3	4.2	3.7
	EER2[1]		13.2	14.4	12.5	12.2	11.7	12.7	12	12.2	9.9	11.7	12.5	10.7
	HSPF2 [IV]		11.5	9.5	9.7	9.7	8.8	10.4	9.1	10	9.1	9.5	9.2	9.3
	SEER2		18.8	20	19.7	18.8	20.1	17.2	19.6	21.2	18.2	20.3	20.1	19.4
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	20	15	20	20	30	25	25	25	30	35	30
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	265, 283, 318, 353	353, 388, 424, 494	353, 388, 424, 494	403, 424, 512, 600	403, 424, 512, 600	403, 424, 512, 600	512, 565, 636, 742	512, 565, 636, 742	618, 671, 742, 883	618, 671, 742, 883	848, 936, 1,024, 1,201	848, 936, 1,024, 1,201
	Airflow Rate at Heating, Dry		265, 283, 318, 353	353, 388, 424, 494	353, 388, 424, 494	403, 424, 512, 600	403, 424, 512, 600	403, 424, 512, 600	512, 565, 636, 742	512, 565, 636, 742	618, 671, 742, 883	618, 671, 742, 883	848, 936, 1,024, 1,201	848, 936, 1,024, 1,201
	External Static Pressure	in.WG	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60
	Sound Pressure Level [Cooling]	dB (A)	25, 26, 28, 31	27, 29, 31, 34	27, 29, 31, 34	28, 29, 34, 37	28, 29, 34, 37	28, 29, 34, 37	27, 29, 31, 35	27, 29, 31, 35	30, 32, 34, 38	30, 32, 34, 38	34, 36, 38, 42	34, 36, 38, 42
	Sound Pressure Level [Heating]		25, 26, 28, 31	27, 29, 31, 34	27, 29, 31, 34	28, 29, 34, 37	28, 29, 34, 37	28, 29, 34, 37	27, 29, 31, 35	27, 29, 31, 35	30, 32, 34, 38	30, 32, 34, 38	34, 36, 38, 42	34, 36, 38, 42
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]
	Unit Weight	lbs [kg]	58 [26]	58 [26]	58 [26]	60 [27]	60 [27]	60 [27]	67 [30]	67 [30]	67 [30]	67 [30]	82 [37]	82 [37]
Outdoor Unit	Airflow Rate Cooling	CFM	1,229	1,590	1,229	1,243	1,590	2,193	1,940	1,974	1,940	1,974	3,910	1,974
	Airflow Rate Heating		1,172	1,590	1,172	1,229	1,590	1,949	1,940	1,949	1,940	1,949	3,910	1,949
	MCA	A	13	16	14	17	16	25	22	24	22	25	34	25
	MOCP		22	27	23	29	27	42	37	40	37	41	56	41
	Sound Pressure Level, Cooling[1]	dB (A)	48	44	49	49	44	54	49	55	49	55	52	55
	Sound Pressure Level, Heating[2]		50	46	51	51	46	55	52	55	52	55	53	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	81 [37]	99 [45]	81 [37]	81 [37]	99 [45]	115 [52.16]	155 [70]	117 [53]	155 [70]	117 [53]	224 [102]	117 [53]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 23	115 / 14	115 / 14	115 / 23	115 / 14	115 / 23	115 / 14	115 / 23	115 / 14	115 / 23	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -4, -5	70, 59 / -4, -4	75, 65 / -4, -5	75, 65 / -4, -5	70, 59 / -4, -4	75, 65 / -4, -5	70, 59 / -4, -4	75, 65 / -4, -5	70, 59 / -4, -4	75, 65 / -4, -5	70, 59 / -4, -4	75, 65 / -4, -5
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	1/2 [12.72]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]	1/2 [12.72]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	1/4 [6.35]	3/8 [9.52]	1/4 [6.35]	3/8 [9.52]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	100 [30]	40 [12]	40 [12]	100 [30]	50 [15]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		65 [20]	100 [30]	65 [20]	65 [20]	100 [30]	100 [30]	165 [50]	100 [30]	165 [50]	100 [30]	165 [50]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PEAD: Hyper-heating heat pump

Specifications

Indoor Unit			PEAD-AA09NL	PEAD-AA12NL	PEAD-AA15NL	PEAD-AA18NL	PEAD-AA24NL	PEAD-AA24NL	PEAD-AA30NL	PEAD-AA30NL	PEAD-AA36NL	PEAD-AA36NL	PEAD-AA42NL
Outdoor Unit			SUZ-AA09N-LHZ	SUZ-AA12N-LHZ	SUZ-AA15N-LHZ	SUZ-AA18N-LHZ	PUZ-AK24N-LHZ	SUZ-AK24N-LHZ	PUZ-AK30N-LHZ	SUZ-AK30N-LHZ	PUZ-AK36N-LHZ	SUZ-AK36N-LHZ	PUZ-AK42N-LHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	18,000	24,800	24,800	30,800	30,800	37,000	37,000	43,000
	Minimum Capacity		5,300	5,500	5,900	5,500	12,700	12,700	12,200	12,200	14,600	14,600	18,000
	Moisture Removal	Pints/h	0.6	1.3	1.7	2.9	8.2	8.2	6.9	6.9	11.8	11.8	6.6
	Rated Capacity	BTU/H	9,000	12,000	15,000	18,000	24,000	24,000	30,000	30,000	36,000	36,000	42,000
	Rated Power Input	W	750	880	1,150	1,410	1,790	1,790	2,400	2,420	2,860	2,910	3,790
	Sensible Heat Factor	-	0.93	0.87	0.88	0.82	0.63	0.63	0.75	0.75	0.65	0.65	0.83
Heating at 47F[2]	Maximum Capacity	BTU/H	14,700	18,000	20,400	23,500	28,000	28,000	34,000	34,000	40,000	40,000	54,000
	Minimum Capacity		7,700	8,000	8,300	8,300	12,800	12,800	11,500	11,500	13,000	13,000	16,100
	Rated Capacity		12,000	15,000	18,000	20,000	28,000	28,000	34,000	34,000	40,000	40,000	54,000
	Rated Power Input	W	1,034	1,200	1,319	1,542	2,104	2,217	2,555	2,768	2,791	2,930	4,655
Heating at 17F[3]	Maximum Capacity	BTU/H	12,000	15,000	18,000	20,000	25,000	25,000	32,000	32,000	38,000	38,000	48,000
	Rated Capacity		7,400	9,300	11,600	13,100	17,000	17,000	21,800	21,800	24,400	24,400	33,000
Heating at 5F[5]	Maximum Capacity		12,000	15,000	18,000	20,000	25,000	25,000	32,000	32,000	38,000	38,000	48,000
Heating at -13F[5]			7,300	9,000	11,000	12,100	17,700	17,700	21,300	21,300	31,000	31,000	36,200
Efficiency	COP at 47°F[2]		3.4	3.6	4	3.8	3.9	3.7	3.9	3.6	4.2	4	3.4
	EER2[1]		12	13.6	13	12.7	13.4	12.3	12.5	12.3	12.5	12.3	11
	HSPF2 [IV]		9.1	9.5	10.2	10	9	8.5	9.3	8.5	9.3	8.5	8.5
	SEER2		15.8	17	17.2	17.3	19.3	17.3	21.7	19.5	21.7	19.5	18.3
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30	30	25	25	30	30	30	30	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	265, 283, 318, 353	353, 388, 424, 494	403, 424, 512, 600	403, 424, 512, 600	512, 565, 636, 742	512, 565, 636, 742	618, 671, 742, 883	618, 671, 742, 883	848, 936, 1,024, 1,201	848, 936, 1,024, 1,201	1,042, 1,148, 1,254, 1,483
	Airflow Rate at Heating, Dry		265, 283, 318, 353	353, 388, 424, 494	403, 424, 512, 600	403, 424, 512, 600	512, 565, 636, 742	512, 565, 636, 742	618, 671, 742, 883	618, 671, 742, 883	848, 936, 1,024, 1,201	848, 936, 1,024, 1,201	1,042, 1,148, 1,254, 1,483
	External Static Pressure	in.WG	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60
	Sound Pressure Level [Cooling]	dB (A)	25, 26, 28, 31	27, 29, 31, 34	28, 29, 34, 37	28, 29, 34, 37	27, 29, 31, 35	27, 29, 31, 35	30, 32, 34, 38	30, 32, 34, 38	34, 36, 38, 42	34, 36, 38, 42	37, 39, 41, 45
	Sound Pressure Level [Heating]		25, 26, 28, 31	27, 29, 31, 34	28, 29, 34, 37	28, 29, 34, 37	27, 29, 31, 35	27, 29, 31, 35	30, 32, 34, 38	30, 32, 34, 38	34, 36, 38, 42	34, 36, 38, 42	37, 39, 41, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]
	Unit Weight	lbs [kg]	58 [26]	58 [26]	60 [27]	60 [27]	67 [30]	67 [30]	67 [30]	67 [30]	82 [37]	82 [37]	86 [39]
Outdoor Unit	Airflow Rate Cooling	CFM	2,193	2,193	2,193	2,193	3,740	3,740	3,740	3,740	3,740	3,740	4,020
	Airflow Rate Heating		1,949	1,949	1,949	1,949	3,740	3,740	3,740	3,740	3,740	3,740	4,020
	MCA	A	24	25	25	25	24	24	29	29	29	29	35
	MOCP		41	42	42	42	39	39	48	48	48	48	60
	Sound Pressure Level, Cooling[1]	dB (A)	54	54	54	54	52	52	52	52	52	52	60
	Sound Pressure Level, Heating[2]		55	55	55	55	53	53	53	53	53	53	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	115 [52.16]	115 [52.16]	115 [52.16]	115 [52.2]	231 [105]	231 [105]	231 [105]	231 [105]	231 [105]	231 [105]	271 [123]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14	115 / 23	115 / 14	115 / 23	115 / 14	115 / 23	115 / 14	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	70, 59 / -13, -13	75, 65 / -13, -14	70, 59 / -13, -13	75, 65 / -13, -14	70, 59 / -13, -13	75, 65 / -13, -14	70, 59 / -13, -13
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	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 Height Difference	ft [m]	50 [15]	50 [15]	50 [15]	50 [15]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	100 [30]	100 [30]	165 [50]	165 [50]	245 [75]	245 [75]	245 [75]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[5]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PEAD: Cooling only

Specifications

Indoor Unit			PEAD-AA12NL	PEAD-AA18NL	PEAD-AA24NL	PEAD-AA30NL	PEAD-AA36NL	PEAD-AA42NL
Outdoor Unit			PUY-AK12NL	PUY-AK18NL	PUY-AH24NL	PUY-AH30NL	PUY-AK36NL	PUY-AK42NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	12,400	18,500	24,000	30,000	37,000	44,000
	Minimum Capacity		4,400	4,700	9,900	9,800	13,500	14,200
	Moisture Removal	Pints/h	3	5.9	2.9	9.7	11.8	10.8
	Rated Capacity	Btu/h	12,000	18,000	21,200	27,000	36,000	42,000
	Rated Power Input	W	830	1,530	1,760	2,720	2,860	3,760
	Sensible Heat Factor	-	0.73	0.65	0.85	0.61	0.65	0.72
Efficiency	EER2[1]		14.4	11.7	12	9.9	12.5	11.1
	SEER2		20	20.1	19.6	18.2	20.1	18.7
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	20	20	25	25	35	35
	Voltage, Phase, Frequency	V AC / V AC, ø, 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
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	353, 388, 424, 494	403, 424, 512, 600	512, 565, 636, 742	618, 671, 742, 883	848, 936, 1,024, 1,201	1,042, 1,148, 1,254, 1,483
	Airflow Rate at Heating, Dry		-	-	512	-	-	-
	External Static Pressure	in.WG	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60	0.14, 0.20, 0.28, 0.40, 0.60
	Sound Pressure Level [Cooling]	dB (A)	27, 29, 31, 34	28, 29, 34, 37	27, 29, 31, 35	30, 32, 34, 38	34, 36, 38, 41	37, 39, 41, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]
	Unit Weight	lbs [kg]	58 [26]	60 [27]	67 [30]	67 [30]	82 [37]	86 [39]
Outdoor Unit	Airflow Rate Cooling	CFM	1,590	1,590	1,940	1,940	3,910	3,910
	MCA	A	16	16	22	22	34	34
	MOCP		27	27	37	37	56	56
	Sound Pressure Level, Cooling[1]	dB (A)	44	44	49	49	52	52
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	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 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	99 [45]	99 [45]	155 [70]	155 [70]	224 [102]	224 [102]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]	1/2 [12.72]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		164 [50]	164 [50]	225 [69]	225 [69]	225 [69]	225 [69]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

* Indoor/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.

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

SEZ



Low-static Horizontal-ducted Indoor Units

SEZ Horizontal-ducted Indoor Units are designed to heat and cool one or two rooms through a short duct run. These units may be mounted in the attic, hidden in the ceiling or beneath the floor, or concealed behind a bulkhead. Only the intake-air grille and outlet vents are visible when using the SEZ ceiling-concealed indoor unit. The compact design requires minimal space and installs in buildings with lowered ceilings or attics.





Product family

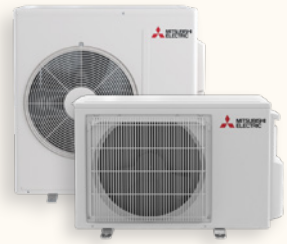
Indoor Units



SEZ-AD09-18NL

Outdoor Units

Standard heat pump



SUZ-AA09-15NL
SUZ-AA18NL

Hyper-heating heat pump



SUZ-AA09-18NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Five-stage external static pressures	These ducted units incorporate five-stage external static pressures (0.14 – 0.60 in.w.g) and three fan speed selections, providing application diversity.
Built-in condensate lift mechanism	The built-in condensate lift mechanism removes water that is collected during operation.
Optional filters	Optional filter boxes are available for high efficiency filtration, offering MERV 13 filters.
Efficiency	
SEER2	Up to 19.1
HSPF2	Up to 10.6
COP at 47° F	Up to 3.8
Operating Ranges	
Heating Range	-13° F[2] to 75° F
Cooling Range	14° F to 115° F
Capacities[2]	
SUZ (standard and H2i): 9k – 18k BTU/H	



Exceptional efficiency

SEZ systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 19.1, and HSPF2 certified up to 10.6.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 For MXZ Ported and SMART MULTI, refer to compatibility chart

SEZ: Standard heat pump

Specifications

Indoor Unit			SEZ-AD09NL	SEZ-AD12NL	SEZ-AD15NL	SEZ-AD18NL
Outdoor Unit			SUZ-AA09NL	SUZ-AA12NL	SUZ-AA15NL	SUZ-AA18NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	18,000
	Minimum Capacity		2,400	2,900	3,700	5,500
	Moisture Removal	Pints/h	1.7	2.5	3.2	4
	Rated Capacity	BTU/H	9,000	12,000	15,000	18,000
	Rated Power Input	W	760	990	1,130	1,400
	Sensible Heat Factor	-	0.8	0.77	0.76	0.75
Heating at 47F[2]	Maximum Capacity	BTU/H	12,800	15,000	20,600	23,500
	Minimum Capacity		4,600	5,000	4,900	8,400
	Rated Capacity		12,000	15,000	18,000	20,000
	Rated Power Input	W	1,100	1,300	1,400	1,510
Heating at 17F[3]	Maximum Capacity	BTU/H	7,900	9,700	10,200	13,100
	Rated Capacity		7,900	9,700	10,200	13,100
Heating at 5F[5]	Maximum Capacity		6,400	7,800	9,700	10,500
Efficiency	COP at 47°F[2]		3.1	3.3	3.7	3.8
	EER2[1]		11.8	12.1	13.2	12.8
	HSPF2 [IV]		10.6	9.6	9.8	10.4
	SEER2		17.6	19	19.1	17
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	15	20	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	194, 247, 317	247, 317, 388	353, 441, 529	423, 529, 635
	Airflow Rate at Heating, Dry		194, 247, 317	247, 317, 388	353, 441, 529	423, 529, 635
	External Static Pressure	in.WG	0.02, 0.06, 0.14, 0.20	0.02, 0.06, 0.14, 0.20	0.02, 0.06, 0.14, 0.20	0.02, 0.06, 0.14, 0.20
	Sound Pressure Level [Cooling]	dB (A)	23, 26, 30	23, 28, 33	30, 34, 37	30, 34, 38
	Sound Pressure Level [Heating]		23, 26, 30	23, 28, 33	30, 34, 37	30, 34, 38
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/8 x 27-9/16 x 7-7/8 [790 x 700 x 200]	39 x 27-9/16 x 7-7/8 [990 x 700 x 200]	39 x 27-9/16 x 7-7/8 [990 x 700 x 200]	46-7/8 x 27-9/16 x 7-7/8 [1,190 x 700 x 200]
	Unit Weight	lbs [kg]	42 [19]	50 [22.50]	52 [23.50]	60 [27]
Outdoor Unit	Airflow Rate Cooling	CFM	1,229	1,229	1,229	2,193
	Airflow Rate Heating		1,172	1,172	1,172	1,949
	MCA	A	13	14	17	25
	MOCP		22	23	29	42
	Sound Pressure Level, Cooling[1]	dB (A)	48	49	49	54
	Sound Pressure Level, Heating[2]		50	51	51	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	81 [37]	81 [37]	81 [37]	115 [52.16]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.7]	1/2 [12.7]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

SEZ: Hyper-heating heat pump

Specifications

Indoor Unit			SEZ-AD09NL	SEZ-AD12NL	SEZ-AD15NL	SEZ-AD18NL
Outdoor Unit			SUZ-AA09NLHZ	SUZ-AA12NLHZ	SUZ-AA15NLHZ	SUZ-AA18NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	18,000
	Minimum Capacity		4,800	5,100	5,700	5,500
	Moisture Removal	Pints/h	2	2.5	2.8	4
	Rated Capacity	BTU/H	9,000	12,000	15,000	18,000
	Rated Power Input	W	760	900	1,220	1,400
	Sensible Heat Factor	-	0.75	0.77	0.8	0.75
Heating at 47F[2]	Maximum Capacity	BTU/H	14,000	18,000	20,000	23,500
	Minimum Capacity		10,500	7,800	8,200	8,400
	Rated Capacity		12,000	15,000	18,000	20,000
	Rated Power Input	W	1,210	1,240	1,430	1,510
Heating at 17F[3]	Maximum Capacity	BTU/H	12,000	15,000	18,000	20,000
	Rated Capacity		7,400	9,500	11,700	13,100
Heating at 5F[5]	Maximum Capacity		12,000	15,000	18,000	20,000
Heating at -13F[9]			7,300	9,000	10,900	12,100
Efficiency	COP at 47°F[2]		2.9	3.5	3.6	3.8
	EER2[1]		11.8	13.3	12.2	12.8
	HSPF2 [IV]		8.1	9.4	9.8	10
	SEER2		14.8	16.2	16.2	17
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	194, 247, 317	247, 317, 388	353, 441, 529	423, 529, 635
	Airflow Rate at Heating, Dry		194, 247, 317	247, 317, 388	353, 441, 529	423, 529, 635
	External Static Pressure	in.WG	0.02, 0.06, 0.14, 0.20	0.02, 0.06, 0.14, 0.20	0.02, 0.06, 0.14, 0.20	0.02, 0.06, 0.14, 0.20
	Sound Pressure Level [Cooling]	dB (A)	23, 26, 30	23, 28, 33	30, 34, 37	30, 34, 38
	Sound Pressure Level [Heating]		23, 26, 30	23, 28, 33	30, 34, 37	30, 34, 38
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/8 x 27-9/16 x 7-7/8 [790 x 700 x 200]	39 x 27-9/16 x 7-7/8 [990 x 700 x 200]	39 x 27-9/16 x 7-7/8 [990 x 700 x 200]	46-7/8 x 27-9/16 x 7-7/8 [1,190 x 700 x 200]
	Unit Weight	lbs [kg]	42 [19]	50 [22.50]	52 [23.50]	60 [27]
Outdoor Unit	Airflow Rate Cooling	CFM	2,193	2,193	2,193	2,193
	Airflow Rate Heating		1,949	1,949	1,949	1,949
	MCA	A	24	25	25	25
	MOCP		41	42	42	42
	Sound Pressure Level, Cooling[1]	dB (A)	54	54	54	54
	Sound Pressure Level, Heating[2]		55	55	55	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	115 [52.16]	115 [52.16]	115 [52.16]	115 [52.2]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.7]	1/2 [12.7]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	50 [15]	50 [15]	50 [15]	50 [15]
	Maximum Piping Length		100 [30]	100 [30]	100 [30]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.



Ductless Single-zone

Systems



Ductless single-zone systems provide targeted comfort to any room or zone.



Single-zone, or one-to-one, systems are typically installed on an exterior-facing wall and are connected to the outdoor unit by two small refrigerant pipes, no ductwork required. The high-performance indoor units eliminate problem hot and cold spots with operation that is both whisper-quiet and energy-efficient. The indoor units come in a variety of styles to fit practically any room aesthetic and décor.

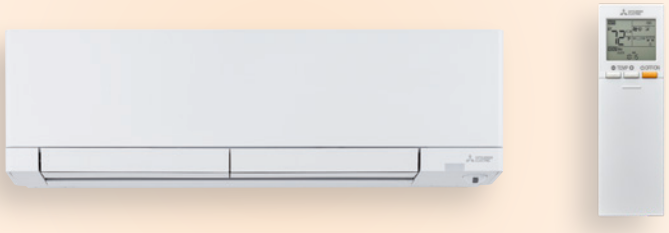
Applications

These ductless single-zone systems are perfect for individual spaces that need added heating or cooling. These can include rooms like home offices, basements, garages or attics, and home additions. Rooms situated at the end of long duct runs, often bedrooms, can also benefit from the addition of a mini-split to add customizable comfort to the space.



MSZ-FX

FX Deluxe Wall-mounted Indoor Unit



With a sleek, modern design, the FX Deluxe Wall-mounted Indoor Unit is our most advanced indoor unit yet. The Wi-Fi enabled FX provides precise comfort and exceptional energy efficiency to any space, with convenient control options and premium features.



Product family

Indoor Units



MSZ-FX06-24NL

Outdoor Units



MUZ-FX06-12NLHZ



MUZ-FX15-24NLHZ

Our most powerful all-climate technology yet

H2i Sumo™ offers 100% heating capacity at an outdoor temperature of **-10° F with guaranteed operation down to -22° F**.

Features and details

Features	
H2i sumo™	100% heating capacity at an outdoor temperature of -10° F with guaranteed operation down to -22° F.
ENERGY STAR® and ENERGY STAR® COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
3D i-see Sensor®	The advanced sensor scans the room to produce a complete thermal profile based on size, temperature and movement, then adjusts temperature and airflow based on user preference, and saves energy according to room occupancy.
Dual Barrier Coating	Patented Dual Barrier Coating technology reduces the collection of contaminants like dust, fibers, smoke, and oil on inner surfaces, such as the air pathway, heat exchanger, and fan wheel of the indoor unit, resulting in optimal airflow and easier maintenance.
Dual Barrier Fusion	Patented Dual Barrier Fusion technology reduces the collection of contaminants like dust, fibers, smoke, and oil on the vanes of the indoor unit. Dual Barrier Fusion's shielding power is fused directly into the material of the horizontal and vertical vanes during manufacturing to maintain effectiveness and longevity of the components, and to promote vane cleanliness and reduce odors.
Smart Dry+	The Smart Dry+ mode intelligently controls the fan and compressor speed to ensure optimum moisture removal. When in Smart Dry+ mode, the fan speed is precisely reduced to keep the heat exchanger at the optimum temperature for continuous moisture removal while minimizing over-cooling.
Aux Heating+	Aux Heating+ allows for the integration of additional heating sources that can activate when the set point deviates beyond a selected temperature range for a specified amount of time. This enables the user to optimize energy efficiency while maintaining comfort.
Dual-Vane	The Dual-Vane feature on the Deluxe Wall-mounted Indoor Unit allows for airflow direction to be set independently using two vanes, which can then deliver airflow across wide areas of a room, levels of a zone, or to two people in different locations at the same time.
Econo Cool	Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
Built-in Wi-Fi	Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.
Efficiency	
SEER2	Up to 35
HSPF2	Up to 13.3
COP at 47° F	Up to 4.94
Operating Ranges	
Heating Range	-22° F to 75° F DB (heating thermal lock-out: -34° F; heating thermal restart: -23° F)
Cooling Range	14° F to 115° F DB (cooling thermal lock-out: -4° F; cooling thermal restart: 0° F)
Capacities	
6k, 9k, 12k, 15k, 18k, 24k BTU/H	



Exceptional efficiency

FX systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 35, and HSPF2 certified up to 13.3.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify

MSZ-FX: Hyper-heating heat pump

Specifications

Indoor Unit			MSZ-FX06NL	MSZ-FX09NL	MSZ-FX12NL	MSZ-FX15NL	MSZ-FX18NL	MSZ-FX24NL
Outdoor Unit			MUZ-FX06NLHZ	MUZ-FX09NLHZ	MUZ-FX12NLHZ	MUZ-FX15NLHZ	MUZ-FX18NLHZ	MUZ-FX24NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	14,000	15,000	16,100	19,100	21,500	26,500
	Minimum Capacity		1,700	2,500	2,500	3,700	3,700	2,500
	Moisture Removal	Pints/h	0	0	1.3	2.5	3.8	4
	Rated Capacity	BTU/H	6,000	9,000	12,000	15,000	17,200	20,800
	Rated Power Input	W	280	490	780	1,020	1,320	1,560
	Sensible Heat Factor	-	1	1	0.88	0.81	0.76	0.78
Heating at 47F[2]	Maximum Capacity	BTU/H	20,000	21,300	23,500	28,400	30,200	36,200
	Minimum Capacity		1,700	3,100	3,100	5,150	5,150	5,500
	Rated Capacity		9,000	12,000	13,200	16,500	17,000	19,800
	Rated Power Input	W	540	710	920	1,080	1,390	1,500
Heating at 17F[3]	Maximum Capacity	BTU/H	14,400	16,300	18,200	26,500	28,200	29,200
	Rated Capacity		6,000	7,700	9,300	10,600	12,700	13,600
Heating at 5F[5]	Maximum Capacity		12,600	14,700	16,200	22,200	23,600	26,600
Heating at -5F[7]			10,500	14,500	14,500	19,800	19,800	22,400
Heating at -10F[8]			9,000	12,000	13,200	16,500	17,500	19,800
Heating at -22F[10]			7,400	8,700	8,700	9,400	9,400	11,700
Efficiency	COP at 47°F[2]		4.88	4.95	4.2	4.47	3.58	3.86
	EER2[1]		21.45	18.35	15.4	14.7	13.05	13.35
	HSPF2 [IV]		13	13.3	12.4	11	11.1	10.5
	SEER2		35	33.1	29.9	25.9	25.5	23.5
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	15	15	15	20	20	20
	Voltage, Phase, Frequency	V AC / V AC, ø, 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
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	177, 233, 293, 371, 420	198, 233, 311, 406, 526	198, 247, 311, 406, 526	272, 339, 392, 456, 593	272, 339, 392, 456, 593	272, 378, 484, 586, 720
	Airflow Rate at Cooling, Wet		150, 198, 249, 315, 357	168, 198, 264, 345, 447	168, 210, 264, 345, 447	231, 288, 333, 387, 504	231, 288, 333, 387, 504	231, 321, 411, 498, 612
	Airflow Rate at Heating, Dry		177, 247, 311, 406, 477	177, 247, 311, 406, 477	177, 247, 311, 406, 477	272, 311, 378, 456, 614	272, 311, 378, 456, 614	272, 353, 470, 586, 749
	Sound Pressure Level [Cooling]	dB (A)	20, 23, 29, 36, 40	20, 23, 29, 36, 44	20, 24, 29, 36, 44	27, 31, 35, 39, 45	27, 31, 35, 39, 45	27, 34, 41, 47, 53
	Sound Pressure Level [Heating]		20, 24, 29, 36, 42	20, 24, 29, 36, 42	21, 24, 29, 36, 42	26, 29, 34, 39, 46	26, 29, 34, 39, 46	26, 32, 40, 47, 55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]
	Unit Weight	lbs [kg]	31.40 [14.20]	31.40 [14.20]	31.40 [14.20]	31.40 [14.20]	31.40 [14.20]	31.60 [14.30]
Outdoor Unit	Airflow Rate Cooling	CFM	1,815	1,815	1,815	2,204	2,204	2,204
	Airflow Rate Heating		1,321	1,321	1,321	2,440	2,440	2,440
	MCA	A	12	14	14	23	23	22
	MOCP		15	15	15	25	25	25
	Sound Pressure Level, Cooling[1]	dB (A)	47	49	49	51	52	55
	Sound Pressure Level, Heating[2]		48	49	51	55	55	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm]	-	-	-	-	-	33 -1/16 x 13 x 34-5/8 [840 x 880]
		inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 28-1/8 [800 x 285 x 714]	31-1/2 x 11-1/4 x 28-1/8 [800 x 285 x 714]	31-1/2 x 11-1/4 x 28-1/8 [800 x 285 x 714]	33 -1/16 x 13 x 34-5/8 [840 x 330 x 880]	33 -1/16 x 13 x 34-5/8 [840 x 330 x 880]	-
	Unit Weight	lbs [kg]	89 [40.4]	89 [40.4]	89 [40.4]	119 [54]	119 [54]	124 [56.2]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -22, -23.8	75, 65 / -22, -23.8	75, 65 / -22, -23.8	75, 65 / -22, -23.8	75, 65 / -22, -23.8	75, 65 / -22, -23.8
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	1/2 [12.70]	1/2 [12.70]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]	50 [15]	50 [15]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	100 [30]	100 [30]	100 [30]

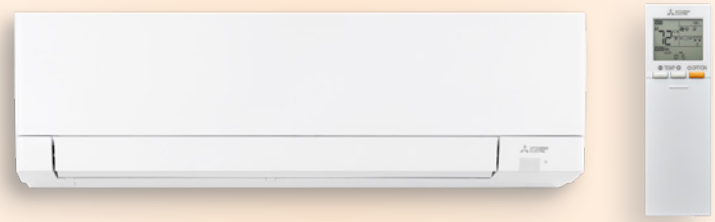
[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[7]Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)
[8]Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)
[10]Heating at -22°F (Indoor: 70°F DB, 60°F WB // Outdoor: -22°F DB, -23°F WB)

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.



MSZ-GX

GX Premier Wall-mounted Indoor Unit



The GX Premier Wall-mounted Indoor Unit combines sleek matte finish design, whisper-quiet performance, and energy-efficient comfort for any home. The unit has built-in Wi-Fi and comes with an array of other advanced features.

The versatile GX offers three options: cooling-only, standard heat pump, and H2i® for reliable heating in even the coldest climates. The GX can also pair with Mitsubishi Electric's multi-zone outdoor units for multi-zone setups.



Aux Heating+



Product family

Indoor Units



MSZ-GX06-15NL
MSY-GX06-15NL



MSZ-GX18-36NL
MSY-GX18-36NL

Outdoor Units

Cooling only



MUY-GX09-15NL



MUY-GX18-36NL

Standard heat pump



MUZ-GX06-15NL



MUZ-GX18-36NL

Hyper-heating heat pump



MUZ-GX09-15NLHZ



MUZ-GX18-24NLHZ

Features and details

Features	
Hyper-Heating Inverter® (H2i®)	Models provide 100% heating capacity at 5° F and guarantee heating even with outdoor temperatures as low as -22° F. These units offer year-round comfort even in extremely cold climates.
ENERGY STAR® and ENERGY STAR® COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Dual Barrier Coating	Patented Dual Barrier Coating technology reduces the collection of contaminants like dust, fibers, smoke, and oil on inner surfaces, such as the air pathway, heat exchanger, and fan wheel of the indoor unit, resulting in optimal airflow and easier maintenance.
Smart Dry Mode	Smart Dry Mode finely adjusts the fan speed and compressor speed to ensure optimum moisture removal. At some points when Smart Dry mode is in operation, the compressor will stop to prevent over-cooling and keep the heat exchanger at the optimum temperature for moisture removal.
Aux Heating+	Aux Heating+ allows for the integration of additional heating sources that can activate when the set point deviates beyond a selected temperature range for a specified amount of time. This enables the user to optimize energy efficiency while maintaining comfort.
Powerful Mode	Powerful Mode utilizes the capabilities of the inverter-driven system to temporarily drop or raise the set point and increase fan speed for 15 minutes, quickly bringing the room to the desired temperature.
Self Clean Mode	Self Clean Mode helps to dry the components inside the indoor unit such as the heat exchanger to prevent moisture build-up and odors. When Self Clean Mode is activated, fan operation starts after cooling/dry mode and runs for 25 minutes without preventing the next cooling cycle from starting as needed, ensuring that comfort is maintained.
Built-in Wi-Fi	Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.
Efficiency	
SEER2	Up to 28.4
HSPF2	Up to 11
COP at 47° F	Up to 4.85
Operating Ranges	
Heating Range (H2i®)	-22° F to 75° F DB (heating thermal lock-out: -34° F; heating thermal restart: -23° F)
Heating Range	-5° F to 75° F DB (heating thermal lock-out: -14° F; heating thermal restart: -4° F)
Cooling Range	14° F to 115° F DB (cooling thermal lock-out: -1° F; cooling thermal restart: 3° F)
Capacities	
6k[2], 9k, 12k, 15k, 18k, 24k, 30k, 36k BTU/H	

Exceptional efficiency

GX systems are is ENERGY STAR® ESCC certified[1], SEER2 certified up to 28.4, and HSPF2 certified up to 11.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 Multi-zone connection only for MSZ-GX06NL

MSZ-GX: Standard heat pump

Specifications

Indoor Unit			MSZ-GX06NL	MSZ-GX09NL	MSZ-GX12NL	MSZ-GX15NL	MSZ-GX18NL	MSZ-GX24NL	MSZ-GX30NL	MSZ-GX36NL
Outdoor Unit				MUZ-GX09NL	MUZ-GX12NL	MUZ-GX15NL	MUZ-GX18NL	MUZ-GX24NL	MUZ-GX30NL	MUZ-GX36NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	-	12,200	14,000	18,200	22,000	27,000	30,600	33,800
	Minimum Capacity		-	3,200	1,300	2,800	5,200	7,400	10,300	10,300
	Moisture Removal	Pints/h	-	0.8	2.5	2.3	3.4	4.5	8.3	10
	Rated Capacity	BTU/H	-	9,000	12,000	14,000	18,000	22,400	30,600	33,800
	Rated Power Input	W	-	585	900	1,075	1,280	1,720	3,380	4,020
	Sensible Heat Factor	-	-	0.9	0.77	0.82	0.79	0.78	0.7	0.68
Cooling Capacity (Nominal)[1,4]	Cooling Capacity (Nominal)	BTU/H	6,000	-	-	-	-	-	-	-
Heating Capacity (Nominal)[2,4]	Heating Capacity (Nominal)		7,200	-	-	-	-	-	-	-
Heating at 47F[2]	Maximum Capacity	BTU/H	-	15,900	18,100	21,000	27,400	32,000	34,000	36,000
	Minimum Capacity		-	3,300	1,500	4,300	6,800	6,800	9,800	9,800
	Rated Capacity		-	10,900	14,400	18,000	21,600	27,600	32,600	35,200
	Rated Power Input	W	-	720	1,100	1,600	1,680	2,340	3,360	3,840
Heating at 17F[3]	Maximum Capacity	BTU/H	-	10,200	12,000	16,400	18,200	24,600	26,000	26,400
	Rated Capacity		-	6,700	9,000	11,400	13,700	19,200	21,200	22,600
Heating at 5F[5]	Maximum Capacity		-	8,100	10,100	13,700	15,200	19,400	20,000	20,600
Heating at -5F[7]			-	6,180	7,700	13,160	11,720	17,100	17,940	18,600
Heating at -10F[8]			-	5,330	6,780	12,220	10,330	15,140	16,000	16,680
Efficiency	COP at 47°F[2]		-	4.44	3.84	3.3	3.77	3.46	2.84	2.69
	EER2[1]		-	15.4	13.35	13	14.05	13	9.05	8.4
	HSPF2 [IV]		-	10.9	10.7	11	10.3	10.3	8.9	8.5
	SEER2		-	28.4	25.6	22.2	22.5	21.5	19.2	18.5
Electrical	MOCP	A	-	-	-	-	-	-	-	-
	Recommended Fuse/ Breaker Size (Outdoor)		-	15	15	20	25	25	25	25
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60
	Voltage: Indoor - Outdoor, S1-S2	V AC	230	-	-	-	-	-	-	-
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	151, 182, 256, 358, 448	151, 172, 256, 353, 448	151, 172, 256, 353, 448	219, 293, 369, 465, 586	324, 392, 454, 530, 650	324, 392, 454, 636, 765	324, 392, 454, 636, 765	324, 392, 454, 636, 765
	Airflow Rate at Cooling, Wet		136, 164, 230, 323, 403	136, 154, 230, 318, 403	136, 154, 230, 318, 403	197, 264, 333, 418, 528	292, 353, 408, 477, 585	292, 353, 408, 573, 688	292, 353, 408, 573, 688	292, 353, 408, 573, 688
	Airflow Rate at Heating, Dry		151, 182, 256, 358, 459	151, 172, 256, 353, 448	151, 172, 256, 353, 448	219, 266, 331, 408, 516	344, 392, 454, 530, 672	344, 392, 454, 530, 765	344, 392, 454, 530, 765	344, 392, 454, 530, 765
	Sound Pressure Level [Cooling]	dB (A)	-	19, 22, 30, 37, 43	19, 22, 30, 37, 45	26, 32, 38, 44, 51	28, 33, 38, 44, 49	30, 37, 41, 48, 53	30, 37, 41, 48, 53	30, 37, 41, 48, 53
	Sound Pressure Level [Heating]		-	19, 22, 30, 37, 43	19, 22, 30, 37, 43	26, 30, 35, 40, 46	28, 34, 39, 43, 48	30, 37, 41, 45, 50	30, 37, 41, 45, 50	30, 37, 41, 45, 50
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]	43-5/16 x 10-1/8 x 12-13/16 [1,100 x 257 x 325]	43-5/16 x 10-1/8 x 12-13/16 [1,100 x 257 x 325]	43-5/16 x 10-1/8 x 12-13/16 [1,100 x 257 x 325]	43-5/16 x 10-1/8 x 12-13/16 [1,100 x 257 x 325]
	Unit Weight	lbs [kg]	23 [10.40]	23 [10.40]	23 [10.40]	23 [10.40]	37 [16.50]	37 [16.50]	37 [16.50]	37 [16.50]
Drain Pipe	Drain Pipe Size O.D.	inch [mm]	5/8 [16]	-	-	-	-	-	-	-
Outdoor Unit	Airflow Rate Cooling	CFM	-	1,152	1,152	1,166	2,202	2,202	2,202	2,202
	Airflow Rate Heating		-	1,139	1,139	1,152	1,934	1,934	1,934	1,934
	MCA	A	-	12	12	16	23	23	23	23
	MOCP		-	21	21	28	40	40	40	40
	Sound Pressure Level, Cooling[1]	dB (A)	-	48	49	49	54	55	57	57
	Sound Pressure Level, Heating[2]		-	50	51	51	55	55	57	57
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	-	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	-	77 [34.60]	77 [34.60]	81 [36.60]	116 [52.30]	116 [52.30]	116 [52.30]	116 [52.30]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	-	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	-	75, 65 / -5, -6	75, 65 / -5, -6	75, 65 / -5, -6	75, 65 / -5, -6	75, 65 / -5, -6	75, 65 / -5, -6	75, 65 / -5, -6
Refrigerant	Type		-	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D.	inch [mm]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	1/2 [12.70]	1/2 [12.70]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D.		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	-	40 [12]	40 [12]	40 [12]	50 [15]	50 [15]	50 [15]	50 [15]
	Maximum Piping Length		-	65 [20]	65 [20]	65 [20]	100 [30]	100 [30]	100 [30]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[4]Nominal capacity only. Actual capacity output varies based on the system-specific configuration.
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[7]Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)
[8]Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

MSZ-GX : Hyper-heating heat pump

Specifications

Indoor Unit			MSZ-GX09NL	MSZ-GX12NL	MSZ-GX15NL	MSZ-GX18NL	MSZ-GX24NL
Outdoor Unit			MUZ-GX09NLHZ	MUZ-GX12NLHZ	MUZ-GX15NLHZ	MUZ-GX18NLHZ	MUZ-GX24NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	12,200	14,000	18,200	22,000	27,000
	Minimum Capacity		3,200	1,300	2,800	5,200	7,400
	Moisture Removal	Pints/h	0.8	2.5	2.3	3.4	4.5
	Rated Capacity	BTU/H	9,000	12,000	14,000	18,000	22,400
	Rated Power Input	W	585	900	1,075	1,280	1,720
	Sensible Heat Factor	-	0.9	0.78	0.82	0.79	0.78
Heating at 47F[2]	Maximum Capacity	BTU/H	15,900	19,100	21,000	27,400	32,000
	Minimum Capacity		3,300	3,300	4,300	6,800	6,800
	Rated Capacity		9,600	12,300	14,000	19,000	21,200
	Rated Power Input	W	580	920	1,100	1,340	1,500
Heating at 17F[3]	Maximum Capacity	BTU/H	11,500	16,000	16,800	22,400	25,400
	Rated Capacity		5,900	7,600	8,700	12,000	14,000
Heating at 5F[5]	Maximum Capacity		9,600	12,300	14,000	19,000	21,200
Heating at -5F[7]			8,180	9,540	11,910	16,460	18,070
Heating at -10F[8]			7,450	8,160	10,870	15,150	16,410
Heating at -22F[10]			5,150	4,020	7,730	10,700	11,380
Efficiency	COP at 47°F[2]		4.85	3.92	3.73	4.16	4.14
	EER2[1]		15.4	13.35	13	14.05	13
	HSPF2 [IV]		10.2	10	10	10	10
	SEER2		28.4	25.6	22.2	22.5	21.5
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	15	20	20	25	25
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	151, 172, 256, 353, 448	151, 172, 256, 353, 448	219, 293, 369, 465, 586	324, 392, 454, 530, 650	324, 392, 454, 636, 765
	Airflow Rate at Cooling, Wet		136, 154, 230, 318, 403	136, 154, 230, 318, 403	197, 264, 333, 418, 528	292, 353, 408, 477, 585	292, 353, 408, 573, 688
	Airflow Rate at Heating, Dry		151, 172, 256, 353, 448	151, 172, 256, 353, 448	219, 266, 331, 408, 516	344, 392, 454, 530, 672	344, 392, 454, 530, 765
	Sound Pressure Level [Cooling]	dB (A)	19, 22, 30, 37, 43	19, 22, 30, 37, 45	26, 32, 38, 44, 51	28, 33, 38, 44, 49	30, 37, 41, 48, 53
	Sound Pressure Level [Heating]		19, 22, 30, 37, 43	19, 22, 30, 37, 43	26, 30, 35, 40, 46	28, 34, 39, 43, 48	30, 37, 41, 45, 50
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]	43-5/16 x 10-1/8 x 12-13/16 [1,100 x 257 x 325]	43-5/16 x 10-1/8 x 12-13/16 [1,100 x 257 x 325]
	Unit Weight	lbs [kg]	23 [10.40]	23 [10.40]	23 [10.40]	37 [16.50]	37 [16.50]
Outdoor Unit	Airflow Rate Cooling	CFM	1,177	1,191	1,191	2,202	2,202
	Airflow Rate Heating		1,121	1,177	1,177	1,934	1,934
	MCA	A	12	16	16	23	23
	MOCP		21	28	28	40	40
	Sound Pressure Level, Cooling[1]	dB (A)	48	49	49	54	55
	Sound Pressure Level, Heating[2]		50	51	51	55	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	77 [34.90]	82 [36.80]	82 [36.80]	117 [52.80]	117 [52.80]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -22, -23	75, 65 / -22, -23	75, 65 / -22, -23	75, 65 / -22, -23	75, 65 / -22, -23
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.70]	1/2 [12.70]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]	50 [15]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	100 [30]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[7]Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)
[8]Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)
[10]Heating at -22°F (Indoor: 70°F DB, 60°F WB // Outdoor: -22°F DB, -23°F WB)

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

MSZ-GX: Cooling only

Specifications

Indoor Unit			MSY-GX09NL	MSY-GX12NL	MSY-GX15NL	MSY-GX18NL	MSY-GX24NL	MSY-GX30NL	MSY-GX36NL
Outdoor Unit			MUY-GX09NL	MUY-GX12NL	MUY-GX15NL	MUY-GX18NL	MUY-GX24NL	MUY-GX30NL	MUY-GX36NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	12,200	14,000	18,200	22,000	27,000	30,600	33,800
	Minimum Capacity		3,200	1,300	2,800	5,200	7,400	10,300	10,300
	Moisture Removal	Pints/h	0.8	2.5	2.3	3.4	4.5	8.3	10
	Rated Capacity	Btu/h	9,000	12,000	14,000	18,000	22,400	30,600	33,800
	Rated Power Input	W	585	900	1,075	1,280	1,720	3,380	4,020
	Sensible Heat Factor	-	0.9	0.77	0.82	0.79	0.78	0.7	0.68
Efficiency	EER2[1]		15.4	13.35	13	14.05	13	9.05	8.4
	SEER2		28.4	25.6	22.2	22.5	21.5	19.2	18.5
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	15	20	25	25	25	25
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	151, 172, 256, 353, 448	151, 172, 256, 353, 448	219, 293, 369, 465, 586	324, 392, 454, 530, 650	324, 392, 454, 636, 765	324, 392, 454, 636, 765	324, 392, 454, 636, 765
	Airflow Rate at Cooling, Wet		136, 154, 230, 318, 403	136, 154, 230, 318, 403	197, 264, 333, 418, 528	292, 353, 408, 477, 585	292, 353, 408, 573, 688	292, 353, 408, 573, 688	292, 353, 408, 573, 688
	Sound Pressure Level [Cooling]	dB (A)	19, 22, 30, 37, 43	19, 22, 30, 37, 45	26, 32, 38, 44, 51	28, 33, 38, 44, 49	30, 37, 41, 48, 53	30, 37, 41, 48, 53	30, 37, 41, 48, 53
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-13/32 x 9/21/32 x 11/25/32 [798 x 245 x 299]	31-13/32 x 9/21/32 x 11/25/32 [798 x 245 x 299]	31-13/32 x 9/21/32 x 11/25/32 [798 x 245 x 299]	43-5/16 x 10/1/08 x 12/13/16 [1,100 x 257 x 325]	43-5/16 x 10/1/08 x 12/13/16 [1,100 x 257 x 325]	43-5/16 x 10/1/08 x 12/13/16 [1,100 x 257 x 325]	43-5/16 x 10/1/08 x 12/13/16 [1,100 x 257 x 325]
	Unit Weight	lbs [kg]	23 [10.4]	23 [10.4]	23 [10.4]	37 [16.5]	37 [16.5]	37 [16.5]	37 [16.5]
Outdoor Unit	Airflow Rate Cooling	CFM	1,152	1,152	1,166	2,202	2,202	2,202	2,202
	MCA	A	12	12	16	23	23	23	23
	MOCP		21	21	28	40	40	40	40
	Sound Pressure Level, Cooling[1]	dB (A)	48	49	49	54	55	57	57
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11/1/04 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11/1/04 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11/1/04 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	77 [34.6]	77 [34.6]	81 [36.6]	116 [52.3]	116 [52.3]	116 [52.3]	116 [52.3]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	8-Mar [9.52]	8-Mar [9.52]	2-Jan [12.7]	2-Jan [12.7]	8-May [15.88]	8-May [15.88]	8-May [15.88]
	Liquid Pipe Size O.D. [Flared]		4-Jan [6.35]	4-Jan [6.35]	4-Jan [6.35]	4-Jan [6.35]	4-Jan [6.35]	4-Jan [6.35]	4-Jan [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]	50 [15]	50 [15]	50 [15]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	100 [30]	100 [30]	100 [30]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

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

• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

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

MSZ-EX

EX Designer Wall-mounted Indoor Unit



The EX elevates the comfort of a space while also enhancing the décor. Available in black, silver, and white color options, the sleek, modern, low-depth design blends into a wide variety of room styles. The indoor unit is compatible with SUZ single-zone and MXZ ported outdoor units.





Product family

Indoor Units



MSZ-EX09-18NLW



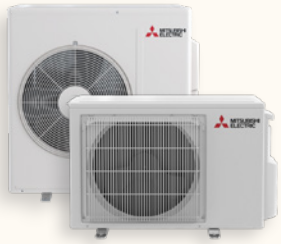
MSZ-EX09-18NLS



MSZ-EX09-18NLB

Outdoor Units

Standard heat pump



SUZ-AA09-15NL
SUZ-AA18NL

Hyper-heating heat pump



SUZ-AA09-18NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.*
Dual Barrier Coating	Patented Dual Barrier Coating technology reduces the collection of contaminants like dust, fibers, smoke, and oil on inner surfaces, such as the air pathway, heat exchanger, and fan wheel of the indoor unit, resulting in optimal airflow and easier maintenance.
New remote controller	Manage comfort settings like temperature and fan operation from a convenient handheld remote controller. Reduce wasted energy consumption by using the weekly timer to turn off the unit and eliminate temperature setting adjustments. The controller also has an easy-to-read backlit display with helpful error codes.
Econo Cool	Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
Efficiency	
SEER2	Up to 21.7
HSPF2	Up to 12.9
COP at 47° F	Up to 4.3
Operating Ranges	
Heating Range	-13° F[2] to 75° F
Cooling Range	14° F to 115° F
Capacities	
9k, 12k, 15k, 18k BTU/H	



Exceptional efficiency

EX systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 21.7, and HSPF2 certified up to 12.9.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 For Hyper-Heating INVERTER® (H2i®) models only

MSZ-EX: Standard heat pump

Specifications

Indoor Unit			MSZ-EX09NL (B, S, W)	MSZ-EX12NL (B, S, W)	MSZ-EX15NL (B, S, W)	MSZ-EX18NL (B, S, W)
Outdoor Unit			SUZ-AA09NL	SUZ-AA12NL	SUZ-AA15NL	SUZ-AA18NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	16,400
	Minimum Capacity		2,300	2,700	3,300	5,300
	Moisture Removal	Pints/h	0.2	1.9	3.9	4.5
	Rated Capacity	BTU/H	9,000	12,000	15,000	16,400
	Rated Power Input	W	700	980	1,230	1,390
	Sensible Heat Factor	-	0.97	0.82	0.71	0.69
Heating at 47F[2]	Maximum Capacity	BTU/H	13,000	15,000	20,000	21,700
	Minimum Capacity		5,300	5,300	4,900	8,400
	Rated Capacity		12,000	15,000	18,000	20,000
	Rated Power Input	W	800	1,200	1,450	1,700
Heating at 17F[3]	Maximum Capacity	BTU/H	7,700	9,600	11,100	13,100
	Rated Capacity		7,700	9,600	11,100	13,100
Heating at 5F[5]	Maximum Capacity		6,200	7,800	9,900	10,600
Efficiency	COP at 47°F[2]		4.3	3.6	3.6	3.4
	EER2[1]		12.8	12.2	12.1	11.7
	HSPF2 [IV]		12.9	10	10.6	10.6
	SEER2		21.7	21.7	20.9	17.5
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	15	20	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	143, 164, 228, 305, 391	143, 164, 228, 305, 391	208, 240, 280, 330, 382	208, 248, 288, 343, 408
	Airflow Rate at Cooling, Wet		128, 147, 205, 274, 352	128, 147, 205, 274, 352	188, 216, 252, 297, 344	188, 223, 259, 309, 367
	Airflow Rate at Heating, Dry		143, 164, 205, 244, 448	143, 164, 205, 244, 479	197, 228, 284, 347, 479	232, 264, 313, 347, 497
	Sound Pressure Level [Cooling]	dB (A)	21, 23, 29, 36, 42	21, 24, 29, 36, 42	28, 31, 35, 39, 42	30, 33, 36, 40, 43
	Sound Pressure Level [Heating]		21, 24, 29, 37, 45	21, 24, 30, 38, 46	28, 30, 35, 41, 48	30, 33, 37, 43, 49
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]
	Unit Weight	lbs [kg]	26 [11.50]	26 [11.50]	26 [11.50]	26 [11.50]
Outdoor Unit	Airflow Rate Cooling	CFM	1,229	1,229	1,243	2,193
	Airflow Rate Heating		1,172	1,172	1,229	1,949
	MCA	A	13	14	17	25
	MOCP		22	23	29	42
	Sound Pressure Level, Cooling[1]	dB (A)	48	49	49	54
	Sound Pressure Level, Heating[2]		50	51	51	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	81 [37]	81 [37]	81 [37]	115 [52.16]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

MSZ-EX: Hyper-heating heat pump

Specifications

Indoor Unit			MSZ-EX09NL (B, S, W)	MSZ-EX12NL (B, S, W)	MSZ-EX15NL (B, S, W)	MSZ-EX18NL (B, S, W)
Outdoor Unit			SUZ-AA09NLHZ	SUZ-AA12NLHZ	SUZ-AA15NLHZ	SUZ-AA18NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	16,400
	Minimum Capacity		4,800	4,800	5,000	5,300
	Moisture Removal	Pints/h	0.3	1.9	3.6	4.5
	Rated Capacity	BTU/H	9,000	12,000	15,000	16,400
	Rated Power Input	W	710	850	1,260	1,390
	Sensible Heat Factor	-	0.96	0.82	0.73	0.69
Heating at 47F[2]	Maximum Capacity	BTU/H	15,000	18,000	19,300	21,700
	Minimum Capacity		8,300	8,300	8,400	8,400
	Rated Capacity		12,000	15,000	17,000	20,000
	Rated Power Input	W	900	1,150	1,330	1,700
Heating at 17F[3]	Maximum Capacity	BTU/H	12,000	15,000	17,000	20,000
	Rated Capacity		7,300	9,400	10,900	13,100
Heating at 5F[5]	Maximum Capacity		12,000	15,000	17,000	20,000
Heating at -13F[9]			7,300	9,100	10,200	12,100
Efficiency	COP at 47°F[2]		3.9	3.8	3.7	3.4
	EER2[1]		12.6	14.1	11.9	11.7
	HSPF2 [IV]		10	10	9.8	10.2
	SEER2		17.4	17.6	17.5	17.5
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	143, 164, 228, 305, 391	143, 164, 228, 305, 391	208, 240, 280, 330, 382	208, 248, 288, 343, 408
	Airflow Rate at Cooling, Wet		-	-	-	-
			128, 147, 205, 274, 352	128, 147, 205, 274, 352	188, 216, 252, 297, 344	188, 223, 259, 309, 367
	Airflow Rate at Heating, Dry		143, 164, 205, 244, 448	143, 164, 205, 244, 479	197, 228, 284, 347, 479	232, 264, 313, 347, 497
	Sound Pressure Level [Cooling]	dB (A)	21, 23, 29, 36, 42	21, 24, 29, 36, 42	28, 31, 35, 39, 42	30, 33, 36, 40, 43
	Sound Pressure Level [Heating]		21, 24, 29, 37, 45	21, 24, 30, 38, 46	28, 30, 35, 41, 48	30, 33, 37, 43, 49
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]
	Unit Weight	lbs [kg]	26 [11.50]	26 [11.50]	26 [11.50]	26 [11.50]
Outdoor Unit	Airflow Rate Cooling	CFM	2,193	2,193	2,193	2,193
	Airflow Rate Heating		1,949	1,949	1,949	1,949
	MCA	A	24	25	25	25
	MOCP		41	42	42	42
	Sound Pressure Level, Cooling[1]	dB (A)	54	54	55	54
	Sound Pressure Level, Heating[2]		55	55	55	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	115 [52.16]	115 [52.16]	115 [52.16]	115 [52.2]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	50 [15]	50 [15]	50 [15]	50 [15]
	Maximum Piping Length		100 [30]	100 [30]	100 [30]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

MSZ-HX

Wall-mounted Indoor Unit



The HX offers energy-efficient operation and a slim, flat panel design to bring ultimate comfort to any room. This indoor unit is equipped with innovative features to elevate homeowner comfort and pairs with a single-zone outdoor heat pump.



Smart Dry Mode

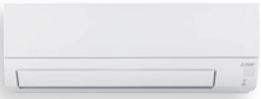
Experience optimal humidity control without over-cooling

Product family

Indoor Units



MSZ-HX09-12NL



MSZ-HX18-24NL

Outdoor Units



MUZ-HX09-12NL



MUZ-HX18NL



MUZ-HX24NL

Features and details

Features	
ENERGY STAR® certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.
Dual Barrier Coating (fan only)	The patented Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the blower wheel of the heat pump, resulting in optimal airflow and easier maintenance.
Smart Dry Mode	Smart Dry Mode finely adjusts the fan speed and compressor speed to ensure optimum moisture removal. At some points when Smart Dry mode is in operation, the compressor will stop to prevent over-cooling and keep the heat exchanger at the optimum temperature for moisture removal.
New remote controller	Manage comfort settings like temperature, fan operation, and Self Clean mode from a convenient handheld remote controller. Reduce wasted energy consumption by using the weekly timer to turn off the unit and eliminate temperature setting adjustments. The controller also has an easy-to-read backlit display with helpful error codes.
Econo Cool	Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
Self Clean Mode	Self Clean Mode helps to dry the components inside the indoor unit such as the heat exchanger to prevent moisture build-up and odors. When Self Clean Mode is activated, fan operation starts after cooling/dry mode and runs for 25 minutes without preventing the next cooling cycle from starting as needed, ensuring that comfort is maintained.
Blue Fin Coating	An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
Efficiency	
SEER2	Up to 20
HSPF2	Up to 10
COP at 47° F	Up to 3.61
Operating Ranges	
Heating Range	-5° F to 75° F
Cooling Range	14° F to 115° F
Capacities	
9k, 12k, 18k, 24k BTU/H	



Exceptional efficiency

HX systems are ENERGY STAR® certified, and SEER2 certified.

MSZ-HX: Standard heat pump

Specifications

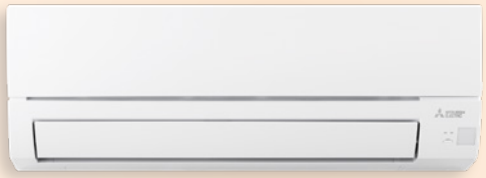
Indoor Unit			MSZ-HX09NL	MSZ-HX12NL	MSZ-HX18NL	MSZ-HX24NL
Outdoor Unit			MUZ-HX09NL	MUZ-HX12NL	MUZ-HX18NL	MUZ-HX24NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	11,000	13,400	18,000	22,400
	Minimum Capacity		3,600	3,600	5,800	5,800
	Moisture Removal	Pints/h	1.6	2.6	3.4	5.5
	Rated Capacity	BTU/H	9,000	12,000	17,200	22,400
	Rated Power Input	W	720	960	1,370	1,910
	Sensible Heat Factor	-	0.8	0.76	0.78	0.73
Heating at 47F[2]	Maximum Capacity	BTU/H	13,000	15,500	20,800	26,000
	Minimum Capacity		4,000	4,500	5,400	6,200
	Rated Capacity		10,900	12,200	18,000	26,000
	Rated Power Input	W	900	990	1,590	2,500
Heating at 17F[3]	Maximum Capacity	BTU/H	7,200	9,000	15,000	18,500
	Rated Capacity		6,800	7,800	11,400	17,200
Heating at 5F[5]	Maximum Capacity		7,700	8,600	12,600	18,200
Heating at -5F[7]			6,420	8,300	10,810	17,980
Efficiency	COP at 47°F[2]		3.55	3.61	3.32	3.05
	EER2[1]		12.5	12.5	12.55	11.75
	HSPF2 [IV]		10	10	9.5	9.5
	SEER2		20	20	20	20
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	20	20	25
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	144, 211, 296, 379	168, 246, 338, 475	314, 421, 524, 621	341, 428, 537, 664
	Airflow Rate at Cooling, Wet		129, 190, 267, 342	151, 221, 304, 428	283, 379, 471, 559	306, 385, 484, 597
	Airflow Rate at Heating, Dry		144, 221, 317, 390	172, 241, 348, 401	301, 421, 524, 621	394, 482, 579, 720
	Sound Pressure Level [Cooling]	dB (A)	22, 30, 37, 43	22, 30, 38, 47	30, 37, 42, 47	33, 38, 44, 50
	Sound Pressure Level [Heating]		22, 30, 37, 43	23, 30, 38, 43	30, 37, 42, 47	34, 39, 44, 50
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33 x 9-1/4 x 11-1/32 [838 x 235 x 280]	33 x 9-1/4 x 11-1/32 [838 x 235 x 280]	36-5/16 x 10-7/8 x 12 [923 x 278 x 305]	36-5/16 x 10-7/8 x 12 [923 x 278 x 305]
	Unit Weight	lbs [kg]	20 [9]	20 [9]	28 [12.50]	28 [12.50]
Outdoor Unit	Airflow Rate Cooling	CFM	1,141	1,166	1,816	2,202
	Airflow Rate Heating		1,196	1,152	1,415	1,934
	MCA	A	10	-	16	23
	MOCP		17	28	29	40
	Sound Pressure Level, Cooling[1]	dB (A)	46	49	49	54
	Sound Pressure Level, Heating[2]		50	51	51	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31/-1/2 x 11-1/4 x 21/5/8 [800 x 285 x 550]	31/-1/2 x 11-1/4 x 21/5/8 [800 x 285 x 550]	31/-1/2 x 11-1/4 x 21/5/8 [800 x 285 x 714]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	65 [29.5]	81 [36.7]	90 [40.8]	115 [52.2]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -5, -6	75, 65 / -5, -6	75, 65 / -5, -6	75, 65 / -5, -6
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[7]Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.



MSZ-WX

Wall-mounted Indoor Unit



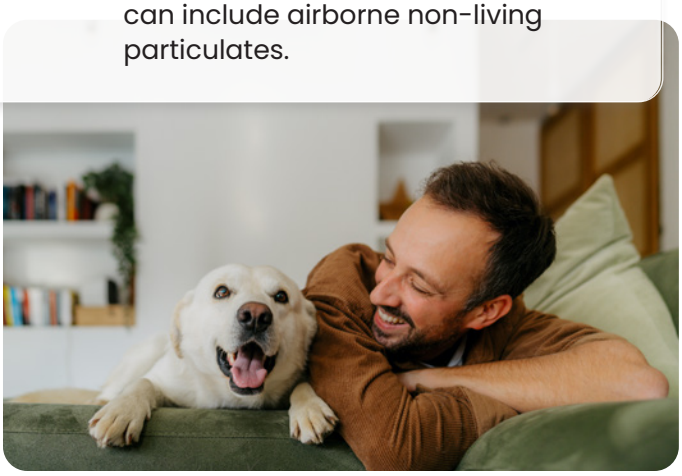


The WX provides personalized, energy-efficient comfort to any room or zone. Complimentary to a wide variety of décors with its stylish flat panel design, the indoor unit is equipped with customizable settings and advanced features and pairs with a single-zone heat pump outdoor unit.



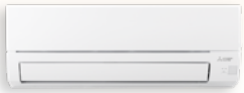
Electrostatic Enzyme Filter

Charged with static electricity, the optional filter is designed to attract and trap charged particles which can include airborne non-living particulates.

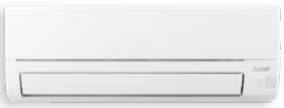


Product family

Indoor Units



MSZ-WX09-18NL



MSZ-WX24NL

Outdoor Units



MUZ-WX09-18NL



MUZ-HX24NL

Features and details

Features	
Smart Dry Mode	Smart Dry Mode finely adjusts the fan speed and compressor speed to ensure optimum moisture removal. At some points when Smart Dry mode is in operation, the compressor will stop to prevent over-cooling and keep the heat exchanger at the optimum temperature for moisture removal.
New remote controller	Manage comfort settings like temperature and fan operation from a convenient handheld remote controller. Reduce wasted energy consumption by using the weekly timer to turn off the unit and eliminate temperature setting adjustments. The controller also has an easy-to-read backlit display with helpful error codes.
Econo Cool	Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
Blue Fin Coating	An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
Efficiency	
SEER2	Up to 18
HSPF2	Up to 8.5
COP at 47° F	Up to 3.55
Operating Ranges	
Heating Range	5° F to 75° F
Cooling Range	32° F to 115° F
Capacities	
9k, 12k, 18k, 24k BTU/H	



* Blue Fin coatings are rated, per ASTM B117 Standard, for a duration of 2,000 hours.

MSZ-WX: Standard heat pump

Specifications

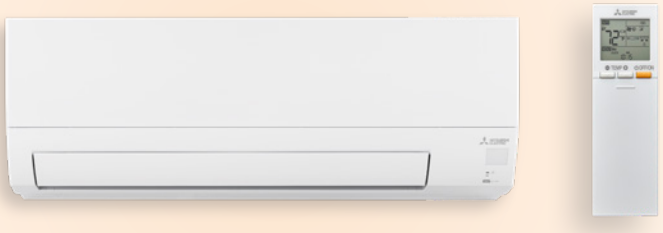
Indoor Unit			MSZ-WX09NL	MSZ-WX12NL	MSZ-WX18NL	MSZ-WX24NL
Outdoor Unit			MUZ-WX09NL	MUZ-WX12NL	MUZ-WX18NL	MUZ-WX24NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	10,000	12,200	18,000	22,400
	Minimum Capacity		3,800	3,800	5,800	5,800
	Moisture Removal	Pints/h	1.6	3.1	5.2	6.1
	Rated Capacity	BTU/H	9,000	12,000	17,200	22,400
	Rated Power Input	W	820	1,330	1,810	2,800
	Sensible Heat Factor	-	0.8	0.71	0.67	0.7
Heating at 47F[2]	Maximum Capacity	BTU/H	11,800	14,500	20,800	26,000
	Minimum Capacity		4,500	4,500	5,400	5,400
	Rated Capacity		10,900	12,200	18,000	26,000
	Rated Power Input	W	900	1,090	1,680	2,680
Heating at 17F[3]	Maximum Capacity	BTU/H	7,200	9,000	15,000	17,800
	Rated Capacity		6,800	7,500	11,700	17,000
Efficiency	COP at 47°F[2]		3.55	3.28	3.14	2.84
	EER2[1]		11	9	9.5	8
	HSPF2 [IV]		8.5	8.5	8.5	8.5
	SEER2		18	18	18	18
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	15	20	20
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	147, 210, 301, 381	147, 210, 301, 381	277, 341, 411, 473	322, 427, 527, 622
	Airflow Rate at Cooling, Wet		132, 189, 271, 343	132, 189, 271, 343	249, 307, 370, 426	290, 384, 474, 560
	Airflow Rate at Heating, Dry		147, 224, 321, 391	147, 224, 321, 391	253, 311, 376, 453	335, 446, 574, 698
	Sound Pressure Level [Cooling]	dB (A)	22, 30, 37, 43	22, 30, 37, 45	32, 38, 44, 49	33, 38, 44, 50
	Sound Pressure Level [Heating]		22, 30, 37, 43	22, 30, 37, 43	31, 36, 41, 46	32, 38, 44, 50
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33 x 9 x 11-1/16 [838 x 228 x 280]	33 x 9 x 11-1/16 [838 x 228 x 280]	33 x 9 x 11-1/16 [838 x 228 x 280]	36-5/16 x 10-5/16 x 12 [923 x 263 x 305]
	Unit Weight	lbs [kg]	20 [9]	20 [9]	20 [9]	28 [12.40]
Outdoor Unit	Airflow Rate Cooling	CFM	1,141	1,141	1,166	1,816
	Airflow Rate Heating		1,196	1,141	1,152	1,582
	MCA	A	10	10	16	16
	MOCP		17	17	28	29
	Sound Pressure Level, Cooling[1]	dB (A)	48	51	53	57
	Sound Pressure Level, Heating[2]		50	51	51	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 28-1/8 [800 x 285 x 714]
	Unit Weight	lbs [kg]	20 [9]	20 [9]	20 [9]	28 [12.40]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 32	115 / 32	115 / 32	115 / 32
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / 5, 4	75, 65 / 5, 4	75, 65 / 5, 4	75, 65 / 5, 4
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	40 [12]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	65 [20]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

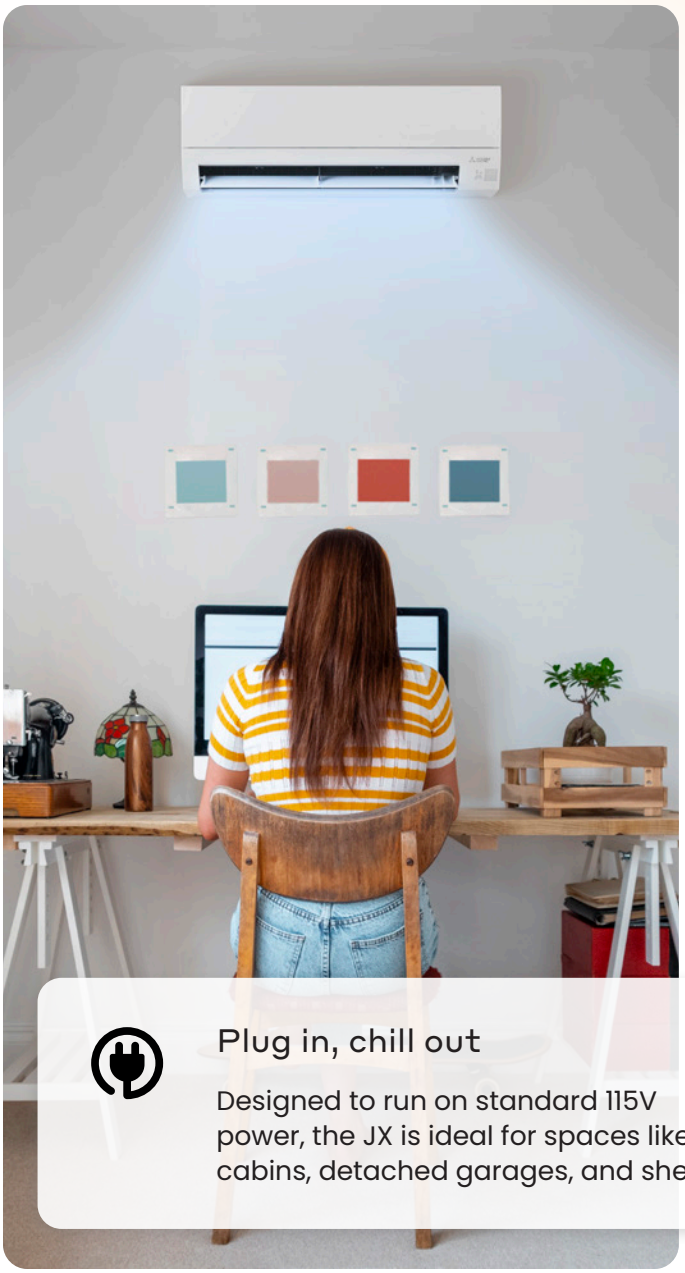


MSZ-JX

115V Wall-mounted Indoor Unit



The MSZ-JX 115V Wall-mounted Indoor Unit provides targeted and customizable comfort to any room or zone with its one-to-one configuration. This unit is designed for spaces with more unique or challenging electrical infrastructure. Perfect for areas with only 115V electrical service or crowded panels where two breakers aren't available for a 208/230V unit, this unit provides efficient heating and cooling without the need for electrical upgrades. The JX unit pairs with a single-zone outdoor unit.

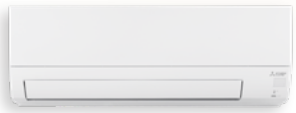


Plug in, chill out

Designed to run on standard 115V power, the JX is ideal for spaces like cabins, detached garages, and sheds.

Product family

Indoor Units



MSZ-JX09-12WL

Outdoor Units



MUZ-JX09-12WL

Features and details

Features	
ENERGY STAR® and ENERGY STAR® COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.
Dual Barrier Coating (fan only)	The patented Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the blower wheel of the heat pump, resulting in optimal airflow and easier maintenance.
Smart Dry Mode	Smart Dry Mode finely adjusts the fan speed and compressor speed to ensure optimum moisture removal. At some points when Smart Dry mode is in operation, the compressor will stop to prevent over-cooling and keep the heat exchanger at the optimum temperature for moisture removal.
Self Clean Mode	Self Clean Mode helps to dry the components inside the indoor unit such as the heat exchanger to prevent moisture build-up and odors. When Self Clean Mode is activated, fan operation starts after cooling/dry mode and runs for 25 minutes without preventing the next cooling cycle from starting as needed, ensuring that comfort is maintained.
Built-in Wi-Fi	Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more
New remote controller	Manage comfort settings like temperature, fan operation, and Self Clean mode from a convenient handheld remote controller. Reduce wasted energy consumption by using the weekly timer to turn off the unit and eliminate temperature setting adjustments. The controller also has an easy-to-read backlit display with helpful error codes.
Econo Cool	Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
Blue Fin Coating	An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
Efficiency	
SEER2	Up to 20
HSPF2	Up to 10
COP at 47° F	Up to 3.61
Operating Ranges	
Heating Range	-5° F to 75° F
Cooling Range	14° F to 115° F
Capacities	
9k, 12k BTU/H	



Exceptional efficiency

JX systems are ENERGY STAR® ESCC certified, SEER2 certified up to 20, and HSPF2 certified up to 10.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

MSZ-JX: Standard heat pump

Wall-mounted Indoor Unit Specifications

Indoor Unit			MSZ-JX09WL	MSZ-JX12WL
Outdoor Unit			MUZ-JX09WL	MUZ-JX12WL
Cooling at 95F[1]	Maximum Capacity	BTU/H	11,000	13,400
	Minimum Capacity		3,600	3,600
	Moisture Removal	Pints/h	1.8	2
	Rated Capacity	BTU/H	9,000	12,000
	Rated Power Input	W	720	960
	Sensible Heat Factor	-	0.78	0.82
Heating at 47F[2]	Maximum Capacity	BTU/H	13,000	15,500
	Minimum Capacity		4,000	4,500
	Rated Capacity		10,900	12,200
	Rated Power Input	W	900	990
Heating at 17F[3]	Maximum Capacity	BTU/H	7,200	9,000
	Rated Capacity		6,800	7,800
Heating at 5F[5]	Maximum Capacity		7,700	8,600
Heating at -5F[7]			6,740	8,300
Efficiency	COP at 47°F[2]		3.55	3.61
	EER2[1]		12.5	12.5
	HSPF2 [IV]		10	10
	SEER2		20	20
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	20
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	115 / 115, 1, 60	115 / 115, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	146, 210, 293, 374	168, 243, 333, 468
	Airflow Rate at Cooling, Wet		131, 189, 263, 337	151, 219, 300, 422
	Airflow Rate at Heating, Dry		146, 219, 313, 384	173, 239, 343, 395
	Sound Pressure Level [Cooling]	dB (A)	22, 30, 37, 43	22, 30, 38, 47
	Sound Pressure Level [Heating]		22, 30, 37, 43	23, 30, 38, 43
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33 x 9-1/4 x 11-1/32 [838 x 235 x 280]	33 x 9-1/4 x 11-1/32 [838 x 235 x 280]
	Unit Weight	lbs [kg]	20 [9]	20 [9]
Outdoor Unit	Airflow Rate Cooling	CFM	1,305	1,344
	Airflow Rate Heating		1,196	1,152
	MCA	A	15	17
	MOCP		26	29
	Sound Pressure Level, Cooling[1]	dB (A)	46	49
	Sound Pressure Level, Heating[2]		50	51
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]
	Unit Weight	lbs [kg]	68 [30.6]	82 [36.9]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -5, -6	75, 65 / -5, -6
Refrigerant	Type		R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]
	Maximum Piping Length		65 [20]	65 [20]

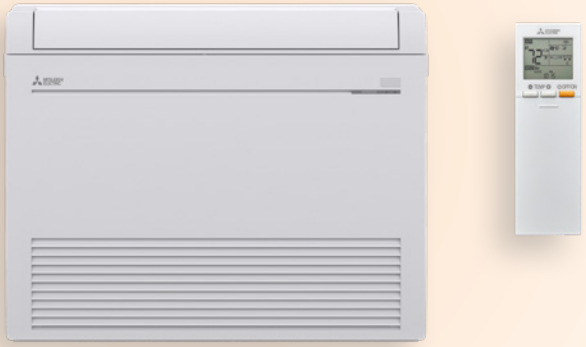
[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[7]Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.




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ELECTRIC

MFZ

Floor-mounted Indoor Unit



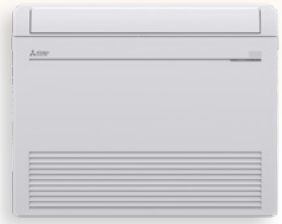
The MFZ Floor-mounted Indoor Unit mounts low on the wall with the ability to be partially or fully recessed, offering an attractive alternative to conventional baseboard heaters and radiators. Its unique vane system ensures precise airflow control for optimal comfort. The MFZ is compatible with SUZ Single-zone and MXZ outdoor units.





Product family

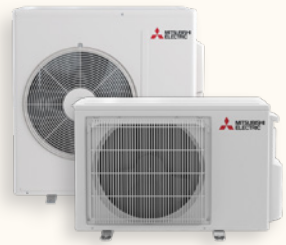
Indoor Units



MFZ-KX09-18NL

Outdoor Units

Standard heat pump



SUZ-AA09-15NL
SUZ-AA018NL

Hyper-heating heat pump



SUZ-AA09-18NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Sleep Mode	Comfort is maximized even when the homeowner is asleep. The preferred sleep temperature is preset 30 minutes before bed, then the unit automatically adjusts to meet the set temperature at the end of the timer.
Rapid Heat Technology	Rapid Heat Technology's advanced sensors are coupled with Intuitive Control Logic and multi-flow vanes to initially direct warm air downward as well as into the conditioned space. When the warmed air reenters the indoor unit, it is heated a second time, resulting in optimal running temperatures in the shortest amount of time possible with maximum energy efficiency.
Self Clean Mode	Self Clean Mode helps to dry the components inside the indoor unit such as the heat exchanger to prevent moisture build-up and odors. When Self Clean Mode is activated, fan operation starts after cooling/dry mode and runs for 25 minutes without preventing the next cooling cycle from starting as needed, ensuring that comfort is maintained.
Built-in Wi-Fi	Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.
New remote controller	Manage comfort settings like temperature, fan operation, and Self Clean mode from a convenient handheld remote controller. Reduce wasted energy consumption by using the weekly timer to turn off the unit and eliminate temperature setting adjustments. The controller also has an easy-to-read backlit display with helpful error codes.
Econo Cool	Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
Multi-flow vane	Three uniquely shaped vanes control the airflow and allow for customized comfort according to preference.
Efficiency	
SEER2	Up to 21.6
HSPF2	Up to 12.3
COP at 47° F	Up to 4.3
Operating Ranges	
Heating Range	-13° F[2] to 75° F
Cooling Range	14° F to 115° F
Capacities	
9k, 12k, 15k, 18k BTU/H	



Exceptional efficiency

MFZ systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 21.6, and HSPF2 certified up to 12.3.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 For Hyper-Heating INVERTER® (H2i®) models only

MFZ: Standard heat pump

Specifications

Indoor Unit			MFZ-KX09NL	MFZ-KX12NL	MFZ-KX15NL	MFZ-KX18NL
Outdoor Unit			SUZ-AA09NL	SUZ-AA12NL	SUZ-AA15NL	SUZ-AA18NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	18,000
	Minimum Capacity		2,000	2,500	3,300	5,000
	Moisture Removal	Pints/h	0.6	1.9	3.2	4.1
	Rated Capacity	BTU/H	9,000	12,000	15,000	18,000
	Rated Power Input	W	710	950	1,150	1,450
	Sensible Heat Factor	-	0.93	0.82	0.76	0.75
Heating at 47F[2]	Maximum Capacity	BTU/H	13,000	15,000	20,400	22,500
	Minimum Capacity		5,100	4,700	4,900	8,400
	Rated Capacity		12,000	15,000	18,000	20,000
	Rated Power Input	W	810	1,240	1,360	1,724
Heating at 17F[3]	Maximum Capacity	BTU/H	7,700	9,700	10,900	13,400
	Rated Capacity		7,700	9,700	10,900	13,400
Heating at 5F[5]	Maximum Capacity		6,200	7,800	9,800	10,700
Efficiency	COP at 47°F[2]		4.3	3.5	3.8	3.4
	EER2[1]		12.6	12.6	13	12.4
	HSPF2 [IV]		12.3	8.7	10.5	10.3
	SEER2		21.6	19.6	20.1	17.2
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	15	20	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	138, 198, 272, 360, 417	138, 198, 272, 360, 417	198, 254, 311, 392, 431	198, 254, 328, 420, 491
	Airflow Rate at Cooling, Wet		117, 168, 231, 306, 354	117, 168, 231, 306, 354	168, 216, 264, 333, 366	168, 216, 279, 357, 417
	Airflow Rate at Heating, Dry		138, 191, 254, 328, 417	138, 191, 254, 328, 417	212, 268, 328, 399, 470	212, 268, 328, 399, 470
	Sound Pressure Level [Cooling]	dB (A)	21, 27, 34, 41, 46	21, 27, 34, 41, 46	28, 33, 38, 43, 47	28, 33, 39, 45, 50
	Sound Pressure Level [Heating]		21, 27, 34, 40, 46	21, 27, 34, 40, 46	29, 35, 40, 45, 49	29, 35, 40, 45, 49
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]
	Unit Weight	lbs [kg]	33 [15]	33 [15]	33 [15]	33 [15]
Outdoor Unit	Airflow Rate Cooling	CFM	1,229	1,229	1,243	2,193
	Airflow Rate Heating		1,172	1,172	1,229	1,949
	MCA	A	13	14	17	25
	MOCP		22	23	29	42
	Sound Pressure Level, Cooling[1]	dB (A)	48	49	49	54
	Sound Pressure Level, Heating[2]		50	51	51	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	81 [37]	81 [37]	81 [37]	115 [52.16]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12.10]	40 [12.10]	40 [12.10]	50 [15.24]
	Maximum Piping Length		65 [19.80]	65 [19.80]	65 [19.80]	100 [30.48]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

MFZ: Hyper-heating heat pump

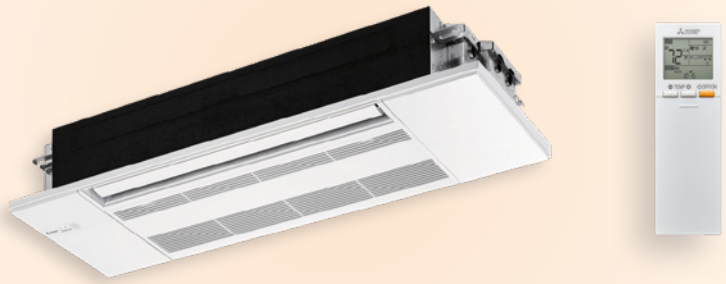
Specifications

Indoor Unit			MFZ-KX09NL	MFZ-KX12NL	MFZ-KX15NL	MFZ-KX18NL
Outdoor Unit			SUZ-AA09NLHZ	SUZ-AA12NLHZ	SUZ-AA15NLHZ	SUZ-AA18NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	18,000
	Minimum Capacity		5,000	5,000	5,200	5,000
	Moisture Removal	Pints/h	0.4	2	2.9	4.1
	Rated Capacity	BTU/H	9,000	12,000	15,000	18,000
	Rated Power Input	W	720	860	1,170	1,450
	Sensible Heat Factor	-	0.96	0.82	0.78	0.75
Heating at 47F[2]	Maximum Capacity	BTU/H	15,000	18,000	19,000	22,500
	Minimum Capacity		8,200	8,200	8,400	8,400
	Rated Capacity		12,000	15,000	17,000	20,000
	Rated Power Input	W	910	1,170	1,270	1,724
Heating at 17F[3]	Maximum Capacity	BTU/H	12,000	15,000	17,000	20,000
	Rated Capacity		7,300	9,300	10,900	13,400
Heating at 5F[5]	Maximum Capacity		12,000	15,000	17,000	20,000
Heating at -13F[9]			7,300	9,000	10,300	12,100
Efficiency	COP at 47°F[2]		3.8	3.7	3.9	3.4
	EER2[1]		12.5	13.9	12.8	12.4
	HSPF2 [IV]		10	10	10	9.9
	SEER2		17	17.2	17.3	17.2
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	138, 198, 272, 360, 417	138, 198, 272, 360, 417	198, 254, 311, 392, 431	198, 254, 328, 420, 491
	Airflow Rate at Cooling, Wet		117, 168, 231, 306, 354	117, 168, 231, 306, 354	168, 216, 264, 333, 366	168, 216, 279, 357, 417
	Airflow Rate at Heating, Dry		138, 191, 254, 328, 417	138, 191, 254, 328, 417	212, 268, 328, 399, 470	212, 268, 328, 399, 470
	Sound Pressure Level [Cooling]	dB (A)	21, 27, 34, 41, 46	21, 27, 34, 41, 46	28, 33, 38, 43, 47	28, 33, 39, 45, 50
	Sound Pressure Level [Heating]		21, 27, 34, 40, 46	21, 27, 34, 40, 46	29, 35, 40, 45, 49	29, 35, 40, 45, 49
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]	29-1/2 x 8-7/16 x 23-5/8 [750 x 215 x 600]
	Unit Weight	lbs [kg]	33 [15]	33 [15]	33 [15]	33 [15]
Outdoor Unit	Airflow Rate Cooling	CFM	2,193	2,193	2,193	2,193
	Airflow Rate Heating		1,949	1,949	1,949	1,949
	MCA	A	24	25	25	25
	MOCP		41	42	42	42
	Sound Pressure Level, Cooling[1]	dB (A)	54	54	55	54
	Sound Pressure Level, Heating[2]		55	55	55	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	115 [52.16]	115 [52.16]	115 [52.16]	115 [52.2]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	50 [15.24]	50 [15.24]	50 [15.24]	50 [15.24]
	Maximum Piping Length		100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]

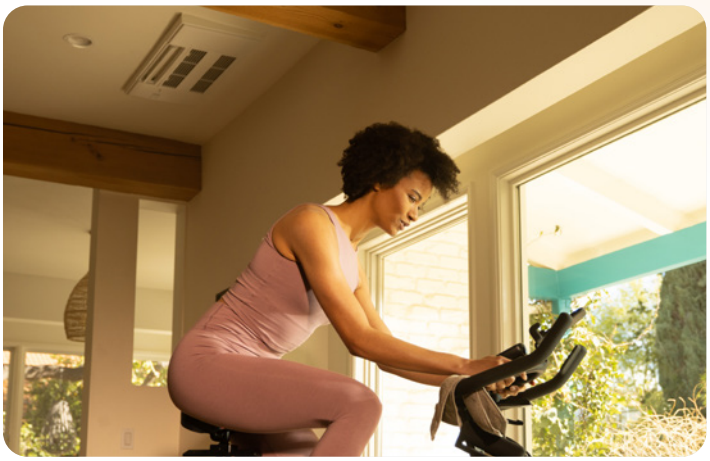
[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

EZ FIT®

MLZ Ceiling-recessed Cassette



The EZ FIT® Ceiling-recessed Indoor Unit is designed to fit between standard ceiling joists, creating a flush appearance that is attractive to homeowners used to the sight of conventional vents. High/low ceiling airflow settings and automatic vane control provide personalized comfort, and the ability to fully service the unit from the bottom simplifies the maintenance process.





Just the right fit

The EZ FIT® is designed to be installed bewteen two standard ceiling joists

Product family

Indoor Units



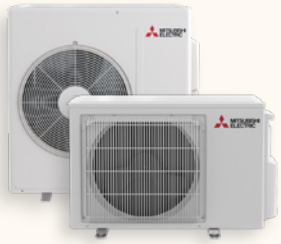
MLZ-KX06NL[2]



MLZ-KX09-18NL

Outdoor Units

Standard heat pump



SUZ-AA09-12NL
SUZ-AA18NL

Hyper-heating heat pump



SUZ-AA09-18NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Sleep Mode	Comfort is maximized even when the homeowner is asleep. The preferred sleep temperature is preset 30 minutes before bed, then the unit automatically adjusts to meet the set temperature at the end of the timer.
Dual Barrier Coating (fan only)	The patented Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the blower wheel of the heat pump, resulting in optimal airflow and easier maintenance.
Dual-level airflow	Engineered to accommodate varied ceiling heights, this is a key feature for adjusting airflow effectively for the height of the ceiling.
Built-in Wi-Fi	Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.
New remote controller	Manage comfort settings like temperature, fan operation, and Self Clean mode from a convenient handheld remote controller. Reduce wasted energy consumption by using the weekly timer to turn off the unit and eliminate temperature setting adjustments. The controller also has an easy-to-read backlit display with helpful error codes.
Econo Cool	Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
Built-in condensate lift mechanism	The built-in condensate lift mechanism removes water that is collected during operation.
Efficiency	
SEER2	Up to 20.9
HSPF2	Up to 12.2
COP at 47° F	Up to 3.8
Operating Ranges	
Heating Range	-13° F[3] to 75° F
Cooling Range	14° F to 115° F
Capacities	
6k[2], 9k, 12k, 18k BTU/H	



Exceptional efficiency

EZ FIT® systems are ENERGY STAR® ESCC certified[1], SEER2 certified up to 20.9, and HSPF2 certified up to 12.2.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 Multi-zone connection only for MXZ
3 For Hyper-Heating INVERTER® (H2i®) models only

MLZ EZ FIT®: Standard heat pump

Specifications

Indoor Unit			MLZ-KX06NL	MLZ-KX09NL	MLZ-KX12NL	MLZ-KX18NL
Outdoor Unit				SUZ-AA09NL	SUZ-AA12NL	SUZ-AA18NL
Cooling Capacity (Nominal)[1,4]	Cooling Capacity (Nominal)	BTU/H	6,000	-	-	-
Heating Capacity (Nominal)[2,4]	Heating Capacity (Nominal)		7,200	-	-	-
Electrical	MCA	A	1	-	-	-
	MOCP		1	-	-	-
	Recommended Fuse/Breaker Size (Outdoor)		-	15	15	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	152, 166, 184, 198	201, 254, 282, 311	212, 258, 297, 332	212, 293, 346, 403
	Airflow Rate at Heating, Dry		152, 173, 194, 212	212, 247, 290, 325	212, 272, 311, 350	212, 311, 364, 417
	Fan Motor Output	W	30	-	-	-
	Fan Motor Type		DC Motor	-	-	-
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-7/8 x 14-3/16 x 12-1/4 [910 x 360 x 310]	-	-	-
	Package Weight	lbs [kg]	29 [13]	-	-	-
	Sound Pressure Level [Cooling]	dB (A)	29, 31, 34, 36	27, 31, 34, 38	27, 32, 36, 40	29, 36, 41, 47
	Sound Pressure Level [Heating]		29, 32, 35, 37	26, 29, 34, 37	26, 32, 36, 40	26, 37, 42, 48
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-3/16 x 11-7/8 x 7-11/16 [842 x 301 x 194]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]
	Unit Weight	lbs [kg]	25 [11.30]	34 [15.50]	34 [15.50]	34 [15.50]
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D.	inch [mm]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]
	Liquid Pipe Size O.D.		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	-	40 [12.10]	40 [12.10]	50 [15.24]
	Maximum Piping Length		-	65 [19.80]	65 [19.80]	100 [30.48]
Drain Pipe	Drain Pipe Size O.D.	inch [mm]	1-1/16 [26]	-	-	-
Cooling at 95F[1]	Maximum Capacity	BTU/H	-	9,000	11,300	16,400
	Minimum Capacity		-	2,200	2,900	5,200
	Moisture Removal	Pints/h	-	1.6	2.6	4.2
	Rated Capacity	BTU/H	-	9,000	11,300	16,400
	Rated Power Input	W	-	760	950	1,390
	Sensible Heat Factor	-	-	0.8	0.74	0.71
Heating at 47F[2]	Maximum Capacity	BTU/H	-	13,000	14,600	21,000
	Minimum Capacity		-	5,000	5,000	8,100
	Rated Capacity		-	12,000	14,600	19,000
	Rated Power Input	W	-	910	1,330	1,796
Heating at 17F[3]	Maximum Capacity	BTU/H	-	7,800	9,600	12,600
	Rated Capacity		-	7,800	9,600	12,600
Heating at 5F[5]	Maximum Capacity		-	6,300	7,700	10,000
Efficiency	COP at 47°F[2]		-	3.8	3.2	3.1
	EER2[1]		-	11.8	11.8	11.7
	HSPF2 [IV]		-	12.2	10	10
	SEER2		-	20.9	20.7	17.2
Outdoor Unit	Airflow Rate Cooling	CFM	-	1,229	1,229	2,193
	Airflow Rate Heating		-	1,172	1,172	1,949
	MCA	A	-	13	14	25
	MOCP		-	22	23	42
	Sound Pressure Level, Cooling[1]	dB (A)	-	48	49	54
	Sound Pressure Level, Heating[2]		-	50	51	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	-	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	-	81 [37]	81 [37]	115 [52.16]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	-	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	-	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[4]Nominal capacity only. Actual capacity output varies based on the system-specific configuration.
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

MLZ EZ FIT®: Hyper-heating heat pump

Specifications

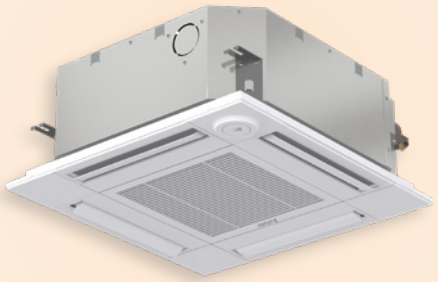
Indoor Unit			MLZ-KX09NL	MLZ-KX12NL	MLZ-KX18NL
Outdoor Unit			SUZ-AA09NLHZ	SUZ-AA12NLHZ	SUZ-AA18NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	16,400
	Minimum Capacity		2,200	2,900	5,200
	Moisture Removal	Pints/h	1.6	2.9	4.2
	Rated Capacity	BTU/H	9,000	12,000	16,400
	Rated Power Input	W	730	900	1,390
	Sensible Heat Factor	-	0.81	0.73	0.71
Heating at 47F[2]	Maximum Capacity	BTU/H	14,500	18,000	21,000
	Minimum Capacity		7,900	7,900	8,100
	Rated Capacity		11,400	15,000	18,400
	Rated Power Input	W	982	1,330	1,620
Heating at 17F[3]	Maximum Capacity	BTU/H	11,400	15,000	18,400
	Rated Capacity		7,000	9,500	12,000
Heating at 5F[5]	Maximum Capacity		11,400	15,000	18,400
Heating at -13F[9]			6,900	9,000	11,100
Efficiency	COP at 47°F[2]		3.4	3.3	3.3
	EER2[1]		12.3	13.3	11.7
	HSPF2 [IV]		9.7	9.6	9.5
	SEER2		16.7	16.7	17.2
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	201, 254, 282, 311	212, 258, 297, 332	212, 293, 346, 403
	Airflow Rate at Heating, Dry		212, 247, 290, 325	212, 272, 311, 350	212, 311, 364, 417
	Sound Pressure Level [Cooling]	dB (A)	27, 31, 34, 38	27, 32, 36, 40	29, 36, 41, 47
	Sound Pressure Level [Heating]		26, 29, 34, 37	26, 32, 36, 40	26, 37, 42, 48
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]	43-3/8 x 14-3/16 x 7-5/16 [1,102 x 360 x 185]
	Unit Weight	lbs [kg]	34 [15.50]	34 [15.50]	34 [15.50]
Outdoor Unit	Airflow Rate Cooling	CFM	2,193	2,193	2,193
	Airflow Rate Heating		1,949	1,949	1,949
	MCA	A	24	25	25
	MOCP		41	42	42
	Sound Pressure Level, Cooling[1]	dB (A)	54	54	54
	Sound Pressure Level, Heating[2]		55	55	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	115 [52.16]	115 [52.16]	115 [52.2]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14	75, 65 / -13, -14	75, 65 / -13, -14
Refrigerant	Type		R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	50 [15.24]	50 [15.24]	50 [15.24]
	Maximum Piping Length		100 [30.48]	100 [30.48]	100 [30.48]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

SLZ

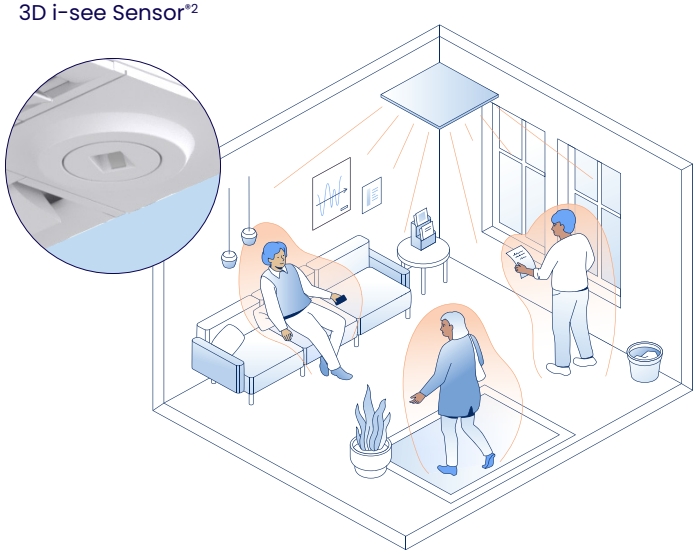
Four-way Ceiling-recessed Cassette



Mounted flush with the ceiling and designed for easy installation, the SLZ Four-way Ceiling-recessed Cassette fits into a 2' x 2' suspended ceiling grid. Four multi-directional vanes can be customized to provide 72 unique airflow patterns.



3D i-see Sensor*2



Product family

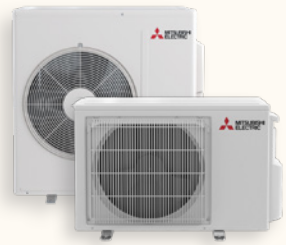
Indoor Units



SLZ-AF09-18NL

Outdoor Units

Standard heat pump



SUZ-AA09-15NL
SUZ-AA18NL

Hyper-heating heat pump



SUZ-AA09-18NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
3D i-see Sensor®[2]	The advanced sensor scans the room to produce a complete thermal profile based on size, temperature and movement, then adjusts temperature and airflow based on user preference, and saves energy according to room occupancy.
3D Turbo Fan	The patented 3D Turbo Fan with a two-stage blade structure ensures low noise operation while maintaining high airflow.
Outside air intake	A duct opening is provided, which allows outside air to be brought inside so it can be heated or cooled.
Horizontal airflow mode	Horizontal airflow control eliminates uncomfortable drafts.
Dual-level airflow	Engineered to accommodate varied ceiling heights, this is a key feature for adjusting airflow effectively for the height of the ceiling.
Built-in condensate lift mechanism	The built-in condensate lift mechanism removes water that is collected during operation.
Temporary suspension hook-on grille	The unit comes equipped with a temporary suspension hook-on grille, improving efficiency during installation. The unit can be installed without removing screws on the corner panel and control box.
Efficiency	
SEER2	Up to 21
HSPF2	Up to 11.8
COP at 47° F	Up to 3.8
Operating Ranges	
Heating Range	-13° F[3] to 75° F
Cooling Range	14° F to 115° F
Capacities	
9k, 12k, 15k, 18k BTU/H	

Exceptional efficiency

The SLZ-AF is ENERGY STAR® ESCC certified[1], SEER2 certified up to 21, and HSPF2 certified up to 11.8.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 Optional accessory
3 For Hyper-Heating INVERTER® (H2i®) models only

SLZ: Standard heat pump

Specifications

Indoor Unit			SLZ-AF09NL	SLZ-AF12NL	SLZ-AF15NL	SLZ-AF18NL
Outdoor Unit			SUZ-AA09NL	SUZ-AA12NL	SUZ-AA15NL	SUZ-AA18NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	18,000
	Minimum Capacity		2,300	3,000	3,600	5,300
	Moisture Removal	Pints/h	0.7	1.8	3.8	4.8
	Rated Capacity	BTU/H	9,000	12,000	15,000	18,000
	Rated Power Input	W	680	960	1,240	1,500
	Sensible Heat Factor	-	0.91	0.84	0.72	0.7
Heating at 47F[2]	Maximum Capacity	BTU/H	12,800	15,000	19,600	21,800
	Minimum Capacity		4,900	4,900	4,600	7,900
	Rated Capacity		12,000	15,000	18,000	20,000
	Rated Power Input	W	930	1,370	1,600	1,890
Heating at 17F[3]	Maximum Capacity	BTU/H	7,800	9,800	11,300	13,200
	Rated Capacity		7,800	9,800	11,300	13,200
Heating at 5F[5]	Maximum Capacity		6,300	7,900	9,600	10,400
Efficiency	COP at 47°F[2]		3.8	3.2	3.3	3.1
	EER2[1]		13.2	12.5	12	12
	HSPF2 [IV]		11.8	9.7	10.1	9.6
	SEER2		21	20.3	20.6	17.5
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	15	15	20	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	230, 265, 300	230, 280, 335	245, 315, 405	300, 420, 475
	Airflow Rate at Heating, Dry		230, 265, 300	230, 280, 335	245, 315, 405	300, 420, 475
	Sound Pressure Level [Heating]	dB (A)	25, 28, 31	25, 30, 34	27, 34, 39	32, 40, 43
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]
	Unit Weight	lbs [kg]	31 [14]	31 [14]	31 [14]	31 [14]
Outdoor Unit	Airflow Rate Cooling	CFM	1,229	1,229	1,243	2,193
	Airflow Rate Heating		1,172	1,172	1,229	1,949
	MCA	A	13	14	17	25
	MOCP		22	23	29	42
	Sound Pressure Level, Cooling[1]	dB (A)	48	49	49	54
	Sound Pressure Level, Heating[2]		50	51	51	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 21-11/16 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-11/16 [800 x 285 x 550]	31-1/2 x 11-1/4 x 21-11/16 [800 x 285 x 550]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	81 [37]	81 [37]	81 [37]	115 [52.16]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5	75, 65 / -4, -5
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]
	Maximum Piping Length		65 [20]	65 [20]	65 [20]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

SLZ: Hyper-heating heat pump

Specifications

Indoor Unit			SLZ-AF09NL	SLZ-AF12NL	SLZ-AF15NL	SLZ-AF18NL
Outdoor Unit			SUZ-AA09NLHZ	SUZ-AA12NLHZ	SUZ-AA15NLHZ	SUZ-AA18NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	9,000	12,000	15,000	18,000
	Minimum Capacity		5,200	5,200	5,300	5,300
	Moisture Removal	Pints/h	1	2.1	3.3	4.8
	Rated Capacity	BTU/H	9,000	12,000	15,000	18,000
	Rated Power Input	W	720	860	1,180	1,500
	Sensible Heat Factor	-	0.88	0.8	0.75	0.7
Heating at 47F[2]	Maximum Capacity	BTU/H	14,600	16,900	19,000	21,800
	Minimum Capacity		7,700	7,700	7,800	7,900
	Rated Capacity		12,000	15,000	17,000	20,000
	Rated Power Input	W	1,003	1,290	1,510	1,890
Heating at 17F[3]	Maximum Capacity	BTU/H	12,000	15,000	17,000	20,000
	Rated Capacity		7,500	9,600	11,000	13,200
Heating at 5F[5]	Maximum Capacity		12,000	15,000	17,000	20,000
Heating at -13F[9]			7,300	9,000	10,300	12,100
Efficiency	COP at 47°F[2]		3.4	3.4	3.3	3.1
	EER2[1]		12.5	13.9	12.7	12
	HSPF2 [IV]		9.3	9.4	9.2	9.3
	SEER2		16.6	16.8	17	17.5
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	230, 265, 300	230, 280, 335	245, 315, 405	300, 420, 475
	Airflow Rate at Heating, Dry		230, 265, 300	230, 280, 335	245, 315, 405	300, 420, 475
	Sound Pressure Level [Heating]	dB (A)	25, 28, 31	25, 30, 34	27, 34, 39	32, 40, 43
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]	22-7/16 x 22-7/16 x 8-3/16 [570 x 570 x 208]
	Unit Weight	lbs [kg]	31 [14]	31 [14]	31 [14]	31 [14]
Outdoor Unit	Airflow Rate Cooling	CFM	2,193	2,193	2,193	2,193
	Airflow Rate Heating		1,949	1,949	1,949	1,949
	MCA	A	24	25	25	25
	MOCP		41	42	42	42
	Sound Pressure Level, Cooling[1]	dB (A)	54	54	54	54
	Sound Pressure Level, Heating[2]		55	55	55	55
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Unit Weight	lbs [kg]	115 [52.16]	115 [52.16]	115 [52.16]	115 [52.2]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14	115 / 14	115 / 14	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14	75, 56 / -13, -14	75, 56 / -13, -14	75, 56 / -13, -14
Refrigerant	Type		R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]	3/8 [9.52]	1/2 [12.72]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
	Maximum Height Difference	ft [m]	50 [15]	50 [15]	50 [15]	50 [15]
	Maximum Piping Length		100 [30]	100 [30]	100 [30]	100 [30]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PKA

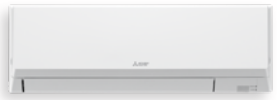
Wall-mounted Indoor Unit



The energy-efficient PKA Wall-mounted Indoor Unit is designed with a capacity range that makes it ideal for larger spaces like daycare centers, classrooms, churches, small offices, and more. The unit's flat panel design and white color make it an attractive heating and cooling solution for any of these applications. It's also available in a cooling-only model to meet the needs of specific environments.

Product family

Indoor Units



PKA-AL12-18NL



PKA-AK24-36NL



Outdoor Units

Cooling only



PUY-AK12-18NL



PUY-AH24-30NL



PUY-AK36NL

Standard heat pump



PUZ-AK12-18NL



PUZ-AH24-30NL



PUZ-AK36NL

Hyper-heating heat pump



PUZ-AK24-36NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
Auto-Vane Close	The vane will close automatically when the unit is not running, creating a sleek, flat finish that is aesthetically pleasing.
Remote control options	Multiple wired and wireless remote control options are available, for maximum convenience depending on application need.
Efficiency	
SEER2	Up to 21.1
HSPF2	Up to 10.1
COP at 47° F	Up to 4.1
Operating Ranges	
Heating Range	-13° F[2] to 70° F
Cooling Range	23° F to 115° F
Capacities	
12k, 18k, 24k, 30k, 36k BTU/H	



Exceptional efficiency

The PKA-AL is ENERGY STAR® ESCC certified[1], SEER2 certified up to 21.1, and HSPF2 certified up to 10.1.



Powerful cooling for larger spaces

The PKA's cooling-only configuration delivers efficient, reliable performance where heating isn't needed.

1 Specific combinations qualify
2 For Hyper-Heating INVERTER® (H2i®) models only

PKA: Standard heat pump

Specifications

Indoor Unit			PKA-AL12NL	PKA-AL18NL	PKA-AK24NL	PKA-AK30NL	PKA-AK36NL
Outdoor Unit			PUZ-AK12NL	PUZ-AK18NL	PUZ-AH24NL	PUZ-AH30NL	PUZ-AK36NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	12,200	18,000	24,500	30,400	36,000
	Minimum Capacity		4,300	4,300	10,100	10,100	13,200
	Moisture Removal	Pints/h	3	6.6	6.2	10.5	12
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	33,400
	Rated Power Input	W	810	1,630	1,990	2,950	2,770
	Sensible Heat Factor	-	0.73	0.6	0.72	0.62	0.61
Heating at 47F[2]	Maximum Capacity	Btu/h	18,000	23,600	31,000	34,400	40,000
	Minimum Capacity		4,200	4,200	8,300	8,300	13,200
	Rated Capacity		18,000	22,000	28,000	34,000	40,000
	Rated Power Input	W	1,701	2,079	2,414	2,847	2,859
Heating at 17F[3]	Maximum Capacity	Btu/h	9,400	11,700	15,300	18,700	23,200
	Rated Capacity		9,400	11,700	15,300	18,700	23,200
Heating at 5F[5]	Maximum Capacity		8,000	9,200	11,600	12,900	20,000
Efficiency	COP at 47°F[2]		3.1	3.1	3.4	3.5	4.1
	EER2[1]		14.8	11	12	10.1	12
	HSPF2 [IV]		10.1	8.9	9.2	9.2	9.4
	SEER2		21.1	19.5	21.1	19.7	20.3
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	20	20	25	25	35
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	-	-	635, 705, 775	635, 705, 775	705, 810, 920
			265, 290, 325, 385	265, 310, 375, 450	-	-	-
	Airflow Rate at Cooling, Wet		215, 255, 320, 375	215, 255, 320, 375	-	-	-
	Airflow Rate at Heating, Dry		-	-	635, 705, 775	635, 705, 775	705, 810, 920
			265, 290, 325, 385	265, 310, 375, 450	-	-	-
	External Static Pressure	in.WG	, , , ,	, , , ,	, , , ,	, , , ,	, , , ,
	Sound Pressure Level [Cooling]	dB (A)	-	-	39, 42, 45	39, 42, 45	43, 46, 49
			34, 37, 40, 43	34, 39, 44, 48	-	-	-
	Sound Pressure Level [Heating]		34, 37, 40, 43	34, 39, 44, 48	-	-	-
			-	-	39, 42, 45	39, 42, 45	43, 46, 49
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-11/32 x 9/11/1932 x 11/25/1932 [898 x 237 x 299]	35-11/32 x 9/11/1932 x 11/25/1932 [898 x 237 x 299]	46-1/16 x 11/5/2008 x 14-3/8 [1,170 x 295 x 365]	46-1/16 x 11/5/2008 x 14-3/8 [1,170 x 295 x 365]	46-1/16 x 11/5/2008 x 14-3/8 [1,170 x 295 x 365]
	Unit Weight	lbs [kg]	28 [12.7]	28 [12.7]	46 [21]	46 [21]	46 [21]
Outdoor Unit	Airflow Rate Cooling	CFM	1,590	1,590	1,940	1,940	3,910
	Airflow Rate Heating		1,590	1,590	1,940	1,940	3,910
	MCA	A	16	16	22	22	34
	MOCP		27	27	37	37	56
	Sound Pressure Level, Cooling[1]	dB (A)	44	44	49	49	52
	Sound Pressure Level, Heating[2]		46	46	52	52	53
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/64 x 11/13/2016 x 24-13/16 [871 x 300 x 630]	34-19/64 x 11/13/2016 x 24-13/16 [871 x 300 x 630]	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 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	99.21 [45]	99.21 [45]	155 [70]	155 [70]	224 [102]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	2-Jan [12.7]	2-Jan [12.7]	8-May [15.88]	8-May [15.88]	8-May [15.88]
	Liquid Pipe Size O.D. [Flared]		4-Jan [6.35]	4-Jan [6.35]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	165 [50]	165 [50]	165 [50]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
â€¢ Wind baffles required to operate below 23°F DB in cooling mode.
â€¢ Heat pump system with wind baffle: 0°F - 115°F.
â€¢ Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
â€¢ System cuts out in heating mode and automatically restarts at these temperatures.

PKA: Hyper-heating heat pump

Specifications

Indoor Unit			PKA-AK24NL	PKA-AK30NL	PKA-AK36NL
Outdoor Unit			PUZ-AK24NLHZ	PUZ-AK30NLHZ	PUZ-AK36NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	25,000	31,000	36,000
	Minimum Capacity		1,360	12,600	14,200
	Moisture Removal	Pints/h	7.8	8.3	12.4
	Rated Capacity	BTU/H	24,000	30,000	33,600
	Rated Power Input	W	165	2,350	2,810
	Sensible Heat Factor	-	0.6	0.7	0.6
Heating at 47F[2]	Maximum Capacity	BTU/H	28,000	34,000	40,000
	Minimum Capacity		12,800	11,500	13,000
	Rated Capacity		28,000	34,000	40,000
	Rated Power Input	W	1,908	2,620	2,859
Heating at 17F[3]	Maximum Capacity	BTU/H	26,000	32,000	38,000
	Rated Capacity		17,000	22,000	24,200
Heating at 5F[5]	Maximum Capacity		26,000	32,000	38,000
Heating at -13F[9]			18,500	21,400	31,200
Efficiency	COP at 47°F[2]		4.3	3.8	4.1
	EER2[1]		14.5	12.7	11.9
	HSPF2 [IV]		9.4	9.9	9.6
	SEER2		21.8	23.2	22.1
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit		in.WG	, ,	-	-
	Airflow Rate at Cooling, Dry	CFM	635, 705, 775	635, 705, 775	705, 810, 920
	Airflow Rate at Heating, Dry		635, 705, 775	635, 705, 775	705, 810, 920
	External Static Pressure	in.WG	-	, ,	, ,
	Sound Pressure Level [Cooling]	dB (A)	39, 42, 45	39, 42, 45	43, 46, 49
	Sound Pressure Level [Heating]		39, 42, 45	39, 42, 45	43, 46, 49
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	46-1/16 x 11-5/8 x 14-3/8 [1,170 x 295 x 365]	46-1/16 x 11-5/8 x 14-3/8 [1,170 x 295 x 365]	46-1/16 x 11-5/8 x 14-3/8 [1,170 x 295 x 365]
	Unit Weight	lbs [kg]	46 [21]	46 [21]	46 [21]
Outdoor Unit	Airflow Rate Cooling	CFM	3,740	3,740	3,740
	Airflow Rate Heating		3,740	3,740	3,740
	MCA	A	24	29	29
	MOCP		39	48	48
	Sound Pressure Level, Cooling[1]	dB (A)	52	52	52
	Sound Pressure Level, Heating[2]		53	53	53
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	231 [105]	231 [105]	231 [105]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13
Refrigerant	Type		R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Heat pump system with wind baffle: 0°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PKA: Cooling only

Specifications

Indoor Unit			PKA-AL12NL	PKA-AL18NL	PKA-AK24NL	PKA-AK30NL	PKA-AK36NL
Outdoor Unit			PUY-AK12NL	PUY-AK18NL	PUY-AH24NL	PUY-AH30NL	PUY-AK36NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	12,200	18,000	24,500	30,400	36,000
	Minimum Capacity		4,300	4,300	10,100	10,100	13,200
	Moisture Removal	Pints/h	3	6.6	6.2	10.5	12
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	33,400
	Rated Power Input	W	810	1,630	1,990	2,950	2,770
	Sensible Heat Factor	-	0.73	0.6	0.72	0.62	0.61
Efficiency	EER2[1]		14.8	11	12	10.1	12
	HSPF2 [IV]		-	-	-	-	-
	SEER2		21.1	19.5	21.1	19.7	20.3
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	20	20	25	25	35
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	-	-	635, 705, 775	635, 705, 775	705, 810, 920
			265, 290, 325, 385	265, 310, 375, 450	-	-	-
	Airflow Rate at Cooling, Wet		215, 255, 320, 375	215, 255, 320, 375	-	-	-
	External Static Pressure	in.WG	,,,,	,,,,	,,,,	,,,,	,,,,
	Sound Pressure Level [Cooling]	dB (A)	-	-	39, 42, 45	39, 42, 45	43, 46, 49
			34, 37, 40, 43	34, 39, 44, 48	-	-	-
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-11/32 x 9/11/1932 x 11/25/1932 [898 x 237 x 299]	35-11/32 x 9/11/1932 x 11/25/1932 [898 x 237 x 299]	46-1/16 x 11/5/2008 x 14-3/8 [1,170 x 295 x 365]	46-1/16 x 11/5/2008 x 14-3/8 [1,170 x 295 x 365]	46-1/16 x 11/5/2008 x 14-3/8 [1,170 x 295 x 365]
	Unit Weight	lbs [kg]	28 [12.7]	28 [12.7]	46 [21]	46 [21]	46 [21]
Outdoor Unit	Airflow Rate Cooling	CFM	1,590	1,590	1,940	1,940	3,910
	MCA	A	16	16	22	22	34
	MOCP		27	27	37	37	56
	Sound Pressure Level, Cooling[1]	dB (A)	44	44	49	49	52
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/64 x 11/13/2016 x 24-13/16 [871 x 300 x 630]	34-19/64 x 11/13/2016 x 24-13/16 [871 x 300 x 630]	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 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	99 [45]	99 [45]	155 [70]	155 [70]	224 [102]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	2-Jan [12.7]	2-Jan [12.7]	8-May [15.88]	8-May [15.88]	8-May [15.88]
	Liquid Pipe Size O.D. [Flared]		4-Jan [6.35]	4-Jan [6.35]	8-Mar [9.52]	8-Mar [9.52]	8-Mar [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	165 [50]	225 [69]	225 [69]	225 [69]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

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

â€¢ Wind baffles required to operate below 23°F DB in cooling mode.

â€¢ Cooling-only system with advanced wind baffle: -40°F - 115°F.

â€¢ Refer to wind baffle documentation for further information.

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

PLA

Four-way Ceiling-recessed Cassette



The PLA Four-way Ceiling-recessed Indoor Unit can be easily installed into a 3' x 3' suspended ceiling grid, where it is mounted flush with the ceiling. Four multi-directional vanes can be customized to provide 72 unique airflow patterns to accommodate many different room layouts. The PLA includes a built-in refrigerant leak sensor when connected to a MXZ-SM system.*

Product family

Indoor Units



PLA-AE12-48NL



Outdoor Units

Cooling only



PUY-AK12-18NL | PUY-AH24-30NL | PUY-AK36-48NL

Standard heat pump



PUZ-AK12-18NL | PUZ-AH24-30NL | PUZ-AK36-48NL

Hyper-heating heat pump



PUZ-AK24-48NLHZ

*Not compatible in a one-to-one system

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.[1]
3D i-see Sensor®	The advanced sensor scans the room to produce a complete thermal profile based on size, temperature and movement, then adjusts temperature and airflow based on user preference, and saves energy according to room occupancy.
3D Turbo Fan	The patented 3D Turbo Fan with a two-stage blade structure ensures low noise operation while maintaining high airflow.
3D Total Flow Unit Accessory	This optional accessory allows air to be delivered diagonally, in addition to the left/right airflows, creating uniform airflow through a space.
Outside air intake[2]	A duct opening is provided, which allows outside air to be brought inside so it can be heated or cooled.
Branch duct run	Heat or cool an additional space by connecting to the duct opening, eliminating the need for an additional unit.
Horizontal airflow mode	Horizontal airflow control eliminates uncomfortable drafts.
Individual vane settings	Individual vane settings provide direct and indirect airflow control. This eliminates uncomfortable drafts and provides improved airflow control with six different discharge angles.
Built-in condensate lift mechanism	The built-in condensate lift mechanism removes water that is collected during operation.
Temporary suspension hook-on grille	The unit comes equipped with a temporary suspension hook-on grille, improving efficiency during installation. The unit can be installed without removing screws on the corner panel and control box
Efficiency	
SEER2	Up to 24.8
HSPF2	Up to 10.9
COP at 47° F	Up to 4.7
Operating Ranges	
Heating Range	-13° F[3] to 70° F
Cooling Range	23° F to 115° F
Capacities	
12k, 18k, 24k, 30k, 36k, 42k, 48k BTU/H	



Exceptional efficiency

The PLA-AE is ENERGY STAR® ESCC certified, SEER2 certified up to 24.8, and HSPF2 certified up to 10.9.

This unit is also compatible with select multi-zone systems. See page 110-111 for full compatibility.

1 Specific combinations qualify
2 Optional
3 For Hyper-Heating INVERTER® (H2i®) models only

PLA: Standard heat pump

Specifications

Indoor Unit			PLA-AE12NL	PLA-AE18NL	PLA-AE24NL	PLA-AE30NL	PLA-AE36NL	PLA-AE42NL	PLA-AE48NL
Outdoor Unit			PUZ-AK12NL	PUZ-AK18NL	PUZ-AH24NL	PUZ-AH30NL	PUZ-AK36NL	PUZ-AK42NL	PUZ-AK48NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	12,400	18,500	24,500	30,000	36,600	42,500	49,000
	Minimum Capacity		4,900	5,000	10,300	10,300	14,300	15,400	17,000
	Moisture Removal	Pints/h	1.1	3.8	4	9	8	10.9	14.6
	Rated Capacity	BTU/H	12,000	18,000	24,000	27,000	36,000	42,000	48,000
	Rated Power Input	W	700	1,310	1,810	2,300	2,620	3,500	4,573
	Sensible Heat Factor	-	0.9	0.77	0.82	0.65	0.76	0.72	0.67
Heating at 47F[2]	Maximum Capacity	BTU/H	20,000	24,000	31,600	34,600	40,000	49,600	60,000
	Minimum Capacity		4,200	4,200	8,400	8,400	13,000	13,200	16,600
	Rated Capacity		20,000	23,000	29,000	32,600	40,000	48,000	60,000
	Rated Power Input	W	1,542	1,821	2,073	2,388	2,570	3,607	5,220
Heating at 17F[3]	Maximum Capacity	BTU/H	10,700	12,000	15,700	17,700	23,600	29,400	33,400
	Rated Capacity		10,700	12,000	15,700	17,700	23,600	29,400	33,400
Heating at 5F[5]	Maximum Capacity		8,800	9,400	11,500	12,800	20,000	25,400	23,000
Heating at -13F[9]			-	-	-	-	-	-	-
Efficiency	COP at 47°F[2]		3.8	3.7	4.1	4	4.5	3.9	3.3
	EER2[1]		17.1	13.7	13.2	11.7	13.7	12	10.4
	HSPF2 [IV]		10.9	9.8	9.8	10.3	9.8	10.1	9.4
	SEER2		24.8	24.7	22.6	21.9	23.3	21	19.4
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	20	20	25	25	35	35	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	370, 460, 490, 530	460, 490, 570, 600	530, 640, 710, 810	570, 670, 780, 880	670, 850, 1,020, 1,200	740, 920, 1,060, 1,200	740, 920, 1,060, 1,200
	Airflow Rate at Heating, Dry		370, 460, 490, 530	460, 490, 570, 600	530, 640, 710, 810	570, 670, 780, 880	670, 850, 1,020, 1,200	740, 920, 1,060, 1,200	740, 920, 1,060, 1,200
	Sound Pressure Level [Cooling]	dB (A)	26, 27, 29, 30	28, 29, 31, 32	28, 30, 33, 36	28, 32, 35, 38	32, 37, 41, 44	34, 38, 42, 45	34, 38, 42, 45
	Sound Pressure Level [Heating]		26, 27, 29, 30	28, 29, 31, 32	28, 30, 33, 36	28, 32, 35, 38	32, 37, 41, 44	34, 38, 42, 45	34, 38, 42, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 33-1/16 x 10-3/16 [840 x 840 x 258]	33-1/16 x 33-1/16 x 10-3/16 [840 x 840 x 258]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]
	Unit Weight	lbs [kg]	46 [21]	46 [21]	57 [26]	57 [26]	57 [26]	57 [26]	57 [26]
Outdoor Unit	Airflow Rate Cooling	CFM	1,590	1,590	1,940	1,940	3,910	3,910	4,020
	Airflow Rate Heating		1,590	1,590	1,940	1,940	3,910	3,910	4,020
	MCA	A	16	16	22	22	34	34	38
	MOCP		27	27	37	37	56	56	67
	Sound Pressure Level, Cooling[1]	dB (A)	44	44	49	49	52	52	60
	Sound Pressure Level, Heating[2]		46	46	52	52	53	53	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	37-13/32 x 13-31/32 x 37-1/8 [950 x 355 x 943]	37-13/32 x 13-31/32 x 37-1/8 [950 x 355 x 943]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	99 [45]	99 [45]	155 [70]	155 [70]	224 [102]	224 [102]	265 [120]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.7]	1/2 [12.7]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		100 [30]	100 [30]	165 [50]	165 [50]	165 [50]	165 [50]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Heat pump system with wind baffle: 0°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PLA: Hyper-heating heat pump

Specifications

Indoor Unit			PLA-AE24NL	PLA-AE30NL	PLA-AE36NL	PLA-AE42NL	PLA-AE48NL
Outdoor Unit			PUZ-AK24NLHZ	PUZ-AK30NLHZ	PUZ-AK36NLHZ	PUZ-AK42NLHZ	PUZ-AK48NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	24,400	31,000	36,600	43,000	49,000
	Minimum Capacity		13,600	12,600	14,300	16,800	16,800
	Moisture Removal	Pints/h	4.7	6.7	8	10	14.6
	Rated Capacity	BTU/H	24,000	30,000	36,000	42,000	48,000
	Rated Power Input	W	1,490	2,130	2,620	3,530	4,560
	Sensible Heat Factor	-	0.79	0.76	0.76	0.74	0.67
Heating at 47F[2]	Maximum Capacity	BTU/H	28,000	34,000	40,000	54,000	60,000
	Minimum Capacity		13,200	11,500	13,000	16,000	16,000
	Rated Capacity		28,000	34,000	40,000	54,000	60,000
	Rated Power Input	W	1,780	2,140	2,605	4,350	5,328
Heating at 17F[3]	Maximum Capacity	BTU/H	26,000	32,000	38,000	48,000	52,000
	Rated Capacity		16,400	21,600	24,000	32,400	36,600
Heating at 5F[5]	Maximum Capacity		26,000	32,000	38,000	48,000	52,000
Heating at -13F[9]			18,800	26,300	32,500	36,100	39,600
Efficiency	COP at 47°F[2]		4.6	4.6	4.5	3.6	3.3
	EER2[1]		16.1	14	13.7	11.8	10.5
	HSPF2 [IV]		9.8	10.1	9.7	9.2	9.2
	SEER2		22.8	23.8	23.3	20	20.1
Electrical	Recommended Fuse/ Breaker Size (Outdoor)	A	25	30	30	40	40
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	530, 640, 710, 810	570, 670, 780, 880	670, 850, 1,020, 1,200	740, 920, 1,060, 1,200	740, 920, 1,060, 1,200
	Airflow Rate at Heating, Dry		530, 640, 710, 810	570, 670, 780, 880	670, 850, 1,020, 1,200	740, 920, 1,060, 1,200	740, 920, 1,060, 1,200
	Sound Pressure Level [Cooling]	dB (A)	28, 30, 33, 36	28, 32, 35, 38	32, 37, 41, 44	34, 38, 42, 45	34, 38, 42, 45
	Sound Pressure Level [Heating]		28, 30, 33, 36	28, 32, 35, 38	32, 37, 41, 44	34, 38, 42, 45	34, 38, 42, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]
	Unit Weight	lbs [kg]	57 [26]	57 [26]	57 [26]	57 [26]	57 [26]
Outdoor Unit	Airflow Rate Cooling	CFM	3,740	3,740	3,740	4,020	4,020
	Airflow Rate Heating		3,740	3,740	3,740	4,020	4,020
	MCA	A	24	29	29	35	35
	MOCP		39	48	48	60	60
	Sound Pressure Level, Cooling[1]	dB (A)	52	52	52	60	60
	Sound Pressure Level, Heating[2]		53	53	53	62	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	231 [105]	231 [105]	231 [105]	271 [123]	271 [123]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B
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]	5/8 [15.88]
	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]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	245 [75]	245 [75]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Heat pump system with wind baffle: 0°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PLA: Cooling only

Specifications

Indoor Unit			PLA-AE12NL	PLA-AE18NL	PLA-AE24NL	PLA-AE30NL	PLA-AE36NL	PLA-AE42NL	PLA-AE48NL
Outdoor Unit			PUY-AK12NL	PUY-AK18NL	PUY-AH24NL	PUY-AH30NL	PUY-AK36NL	PUY-AK42NL	PUY-AK48NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	12,400	18,500	24,500	30,000	36,600	42,500	49,000
	Minimum Capacity		4,900	5,000	10,300	10,300	14,300	15,400	17,000
	Moisture Removal	Pints/h	1.1	3.8	4	9	8	10.9	14.6
	Rated Capacity	Btu/h	12,000	18,000	24,000	27,000	36,000	42,000	48,000
	Rated Power Input	W	700	1,310	1,810	2,300	2,620	3,500	4,573
	Sensible Heat Factor	-	0.9	0.77	0.82	0.65	0.76	0.72	0.67
Heating at 17F[3]	Maximum Capacity	Btu/h	-	-	-	-	-	-	-
	Rated Capacity		-	-	-	-	-	-	-
Heating at 5F[5]	Maximum Capacity		-	-	-	-	-	-	-
Heating at -13F[9]			-	-	-	-	-	-	-
Efficiency	EER2[1]		17.1	13.7	13.2	11.7	13.7	12	10.4
	SEER2		24.8	24.7	22.6	21.9	23.3	21	19.4
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	20	20	25	25	35	35	40
	Voltage, Phase, Frequency	V AC / V AC, ø, 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	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	370, 460, 490, 530	460, 490, 570, 600	530, 640, 710, 810	570, 670, 780, 880	670, 850, 1,020, 1,200	740, 920, 1,060, 1,200	740, 920, 1,060, 1,200
	Sound Pressure Level [Cooling]	dB (A)	26, 27, 29, 30	28, 29, 31, 32	28, 30, 33, 36	28, 32, 35, 38	32, 37, 41, 44	34, 38, 42, 45	34, 38, 42, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 33-1/16 x 10-3/16 [840 x 840 x 258]	33-1/16 x 33-1/16 x 10-3/16 [840 x 840 x 258]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]
	Unit Weight	lbs [kg]	46 [21]	46 [21]	57 [26]	57 [26]	57 [26]	57 [26]	57 [26]
Outdoor Unit	Airflow Rate Cooling	CFM	1,590	1,590	1,940	1,940	3,910	3,910	4,020
	MCA	A	16	16	22	22	34	34	38
	MOCP		27	27	37	37	56	56	67
	Sound Pressure Level, Cooling[1]	dB (A)	44	44	49	49	52	52	60
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	34-19/64 x 11-13/16 x 24-13/16 [871 x 300 x 630]	37-13/32 x 13-31/32 x 37-1/8 [950 x 355 x 943]	37-13/32 x 13-31/32 x 37-1/8 [950 x 355 x 943]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 13-31/32 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	99 [45]	99 [45]	155 [70]	155 [70]	224 [102]	224 [102]	265 [120]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.7]	1/2 [12.7]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]		1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	165 [50]	225 [69]	225 [69]	225 [69]	225 [69]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

* Indoor/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.

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

PCA

Ceiling-suspended Indoor Unit



The PCA Ceiling-suspended Indoor Unit is ideal for larger spaces like retail stores, commercial kitchens, classrooms, and office spaces that require longer airflow distribution. The unit is equipped with advanced features like automatic air-speed adjustment and high/low ceiling modes for maximum comfort and application versatility.

Product family

Indoor Units



PCA-AK24-42NL



Outdoor Units

Cooling only



PUY-AH24-30NL



PUY-AK36-42NL

Standard heat pump



PUZ-AH24-30NL



PUZ-AK36-42NL

Hyper-heating heat pump



PUZ-AK24-42NLHZ

Features and details

Features	
ENERGY STAR® and ENERGY STAR COLD CLIMATE certified	Products that earn the ENERGY STAR label are independently certified to meet strict energy efficiency specifications set by the U.S. EPA to save you energy and money and help protect the environment.*
High/Low-ceiling modes	These modes adjust the airflow volume to match the ceiling height, allowing it to heat and cool a variety of spaces.
Automatic air-speed adjustment	Automatic Air-Speed Adjustment Mode adjusts the air-speed to conditions that match the room environment. At the start of a heating/cooling operation, the airflow is set to high speed to quickly heat or cool a room. When the room reaches the desired temperature, the airflow speed is decreased for comfortable heating and cooling operation.
Outside air intake[2]	A duct opening is provided, which allows outside air to be brought inside so it can be heated or cooled.
Remote control options	Wired and wireless remote control options are available, for maximum convenience depending on application need.
Optional drain pump	By installing the optional drain pump, condensate from the unit can be pushed up as high as 23-5/8 inches above the ceiling surface.
Efficiency	
SEER2	Up to 22.2
HSPF2	Up to 9.9
COP at 47° F	Up to 4.1
Operating Ranges	
Heating Range	-13° F[2] to 70° F
Cooling Range	23° F to 115° F
Capacities	
24k, 30k, 36k, 42k BTU/H	



Exceptional efficiency

The PCA-AK is ENERGY STAR® ESCC certified[1], SEER2 certified up to 22.2, and HSPF2 certified up to 9.9.

1 Specific combinations qualify
2 Optional
3 For Hyper-Heating INVERTER® (H2i®) models only

PCA-AK: Standard heat pump

Specifications

Indoor Unit			PCA-AK24NL	PCA-AK30NL	PCA-AK36NL	PCA-AK42NL
Outdoor Unit			PUZ-AH24NL	PUZ-AH30NL	PUZ-AK36NL	PUZ-AK42NL
Cooling at 95F[1]	Maximum Capacity	BTU/H	24,000	30,000	37,000	42,500
	Minimum Capacity		9,800	9,800	13,500	13,600
	Moisture Removal	Pints/h	4	9.9	12.7	15.4
	Rated Capacity	BTU/H	21,800	28,200	36,000	42,000
	Rated Power Input	W	1,810	2,850	2,930	3,820
	Sensible Heat Factor	-	0.8	0.62	0.62	0.6
Heating at 47F[2]	Maximum Capacity	BTU/H	30,800	34,200	40,000	49,400
	Minimum Capacity		8,300	8,300	13,200	13,300
	Rated Capacity		28,000	34,000	40,000	48,000
	Rated Power Input	W	2,413	3,114	2,791	3,907
Heating at 17F[3]	Maximum Capacity	BTU/H	15,300	18,700	23,200	29,600
	Rated Capacity		15,300	18,700	23,200	29,600
Heating at 5F[5]	Maximum Capacity		11,600	12,900	20,000	25,400
Efficiency	COP at 47°F[2]		3.4	3.2	4.2	3.6
	EER2[1]		12	9.8	12.2	10.9
	HSPF2 [IV]		9.3	9.2	9.1	9.9
	SEER2		20.2	18.7	20.6	20.4
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	25	35	35
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	495, 530, 565, 635	530, 565, 600, 670	705, 775, 850, 920	740, 810, 885, 955
	Airflow Rate at Cooling, Wet		530, 565, 600, 670	565, 600, 635, 705	775, 850, 920, 990	810, 885, 955, 1,025
	Airflow Rate at Heating, Dry		495, 530, 565, 635	530, 565, 600, 670	705, 775, 850, 920	740, 810, 885, 955
	Sound Pressure Level [Cooling]	dB (A)	33, 35, 37, 40	35, 37, 39, 41	37, 39, 41, 43	39, 41, 43, 45
	Sound Pressure Level [Heating]		33, 35, 37, 40	35, 37, 39, 41	37, 39, 41, 43	39, 41, 43, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]	63 x 26-3/4 x 9-1/16 [1,600 x 680 x 230]	63 x 26-3/4 x 9-1/16 [1,600 x 680 x 230]
	Unit Weight	lbs [kg]	71 [32]	71 [32]	79 [36]	86 [39]
Outdoor Unit	Airflow Rate Cooling	CFM	1,940	1,940	3,910	3,910
	Airflow Rate Heating		1,940	1,940	138,425.72	3,910
	MCA	A	22	22	34	34
	MOCP		37	37	56	56
	Sound Pressure Level, Cooling[1]	dB (A)	49	49	52	52
	Sound Pressure Level, Heating[2]		52	52	53	53
	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 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	155 [70]	155 [70]	224 [102]	224 [102]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4	70, 59 / -4, -4
Refrigerant	Type		R454B	R454B	R454B	R454B
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]
	Liquid Pipe Size O.D. [Flared]		3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	165 [50]	165 [50]	165 [50]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[6]Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Heat pump system with wind baffle: 0°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PCA-AK: Hyper-heating heat pump

Specifications

Indoor Unit			PCA-AK24NL	PCA-AK30NL	PCA-AK36NL	PCA-AK42NL
Outdoor Unit			PUZ-AK24NLHZ	PUZ-AK30NLHZ	PUZ-AK36NLHZ	PUZ-AK42NLHZ
Cooling at 95F[1]	Maximum Capacity	BTU/H	24,800	31,000	37,000	43,000
	Minimum Capacity		13,100	12,300	14,400	17,200
	Moisture Removal	Pints/h	8	8	12.7	10.9
	Rated Capacity	BTU/H	24,000	30,000	36,000	42,000
	Rated Power Input	W	1,700	2,420	2,930	4,080
	Sensible Heat Factor	-	0.64	0.71	0.62	0.72
Heating at 47F[2]	Maximum Capacity	BTU/H	28,000	35,000	40,000	54,000
	Minimum Capacity		12,800	11,500	13,000	16,100
	Rated Capacity		28,000	35,000	40,000	54,000
	Rated Power Input	W	2,001	2,772	2,791	5,275
Heating at 17F[3]	Maximum Capacity	BTU/H	26,000	32,000	38,000	48,000
	Rated Capacity		17,000	22,400	24,200	33,000
Heating at 5F[5]	Maximum Capacity		26,000	32,000	38,000	48,000
Heating at -13F[9]			18,500	21,700	31,200	36,500
Efficiency	COP at 47°F[2]		4.1	3.7	4.2	3
	EER2[1]		14.1	12.3	12.2	10.2
	HSPF2 [IV]		9.2	9.4	9.5	8.6
	SEER2		20	21.9	22.2	19.6
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	30	30	40
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	495, 530, 565, 635	530, 565, 600, 670	705, 775, 850, 920	740, 810, 885, 955
	Airflow Rate at Cooling, Wet		530, 565, 600, 670	565, 600, 635, 705	775, 850, 920, 990	810, 885, 955, 1,025
	Airflow Rate at Heating, Dry		495, 530, 565, 635	530, 565, 600, 670	705, 775, 850, 920	740, 810, 885, 955
	Sound Pressure Level [Cooling]	dB (A)	33, 35, 37, 40	35, 37, 39, 41	37, 39, 41, 43	39, 41, 43, 45
	Sound Pressure Level [Heating]		33, 35, 37, 40	35, 37, 39, 41	37, 39, 41, 43	39, 41, 43, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]	63 x 26-3/4 x 9-1/16 [1,600 x 680 x 230]	63 x 26-3/4 x 9-1/16 [1,600 x 680 x 230]
	Unit Weight	lbs [kg]	71 [32]	71 [32]	79 [36]	86 [39]
Outdoor Unit	Airflow Rate Cooling	CFM	3,740	3,740	3,740	4,020
	Airflow Rate Heating		3,740	3,740	3,740	4,020
	MCA	A	24	29	29	35
	MOCP		39	48	48	60
	Sound Pressure Level, Cooling[1]	dB (A)	52	52	52	60
	Sound Pressure Level, Heating[2]		53	53	53	62
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	231 [105]	231 [105]	231 [105]	271 [123]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13
Refrigerant	Type		R454B	R454B	R454B	R454B
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]
	Liquid Pipe Size O.D. [Flared]		3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		165 [50]	245 [75]	245 [75]	245 [75]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)
*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Wind baffles required to operate below 23°F DB in cooling mode.
• Heat pump system with wind baffle: 0°F - 115°F.
• Refer to wind baffle documentation for further information.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

PCA: Cooling only

Specifications

Indoor Unit			PCA-AK24NL	PCA-AK30NL	PCA-AK36NL	PCA-AK42NL
Outdoor Unit			PUY-AH24NL	PUY-AH30NL	PUY-AK36NL	PUY-AK42NL
Cooling at 95F[1]	Maximum Capacity	Btu/h	24,000	30,000	37,000	42,500
	Minimum Capacity		9,800	9,800	13,500	13,600
	Moisture Removal	Pints/h	4	9.9	12.7	15.4
	Rated Capacity	Btu/h	21,800	28,200	36,000	42,000
	Rated Power Input	W	1,810	2,850	2,930	3,820
	Sensible Heat Factor	-	0.8	0.62	0.62	0.6
Efficiency	EER2[1]		12	9.8	12.2	10.9
	SEER2		20.2	18.7	20.6	20.4
Electrical	Recommended Fuse/Breaker Size (Outdoor)	A	25	25	35	35
	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60	208 / 230, 1, 60
Indoor Unit	Airflow Rate at Cooling, Dry	CFM	495, 530, 565, 635	530, 565, 600, 670	705, 775, 850, 920	740, 810, 885, 955
	Airflow Rate at Cooling, Wet		530, 565, 600, 670	565, 600, 635, 705	775, 850, 920, 990	810, 885, 955, 1,025
	Sound Pressure Level [Cooling]	dB (A)	33, 35, 37, 40	35, 37, 39, 41	37, 39, 41, 43	39, 41, 43, 45
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]	63 x 26-3/4 x 9-1/16 [1,600 x 680 x 230]	63 x 26-3/4 x 9-1/16 [1,600 x 680 x 230]
	Unit Weight	lbs [kg]	71 [32]	71 [32]	79 [36]	86 [39]
Outdoor Unit	Airflow Rate Cooling	CFM	1,940	1,940	3,910	3,910
	MCA	A	22	22	34	34
	MOCP		37	37	56	56
	Sound Pressure Level, Cooling[1]	dB (A)	49	49	52	52
	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 [1,050 x 355 x 1,338]	41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]
	Unit Weight	lbs [kg]	155 [70]	155 [70]	224 [102]	224 [102]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23	115 / 23	115 / 23	115 / 23
Refrigerant	Type		R454B	R454B	R454B	R454B
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]
	Liquid Pipe Size O.D. [Flared]		3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Maximum Height Difference	ft [m]	100 [30]	100 [30]	100 [30]	100 [30]
	Maximum Piping Length		225 [69]	225 [69]	225 [69]	225 [69]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

* Indoor/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.

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



Single-zone
Outdoor Units



Single-zone outdoor units deliver reliable, energy-efficient comfort in a slim, quiet design.



Engineered for residential and light commercial applications, Single-zone systems are made for robust, reliable operation, making them an ideal option for spaces with low ambient conditions. Single-zone Outdoor Units use our inverter technology to use only the precise amount of energy required to heat and cool an indoor zone. They are designed with a slim footprint, for maximum application versatility, and engineered for ultra quiet operation.



PUZ: Standard and Hyper-heating heat pumpz

The PUZ Outdoor Unit offers a wide temperature operation range, easily fitting many climate conditions. Long piping lengths enable system design flexibility for applications such as apartment buildings, churches, or strip malls.

Capacities: 12k to 60k BTU/H



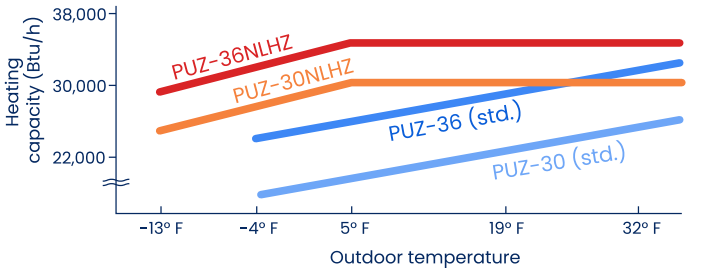
PUY: Cooling only

The PUY Model cooling-only unit provides cooling, even in cold climate low ambient conditions. It boasts a small footprint for versatile installation and application needs. A control algorithm allows for stable continuous operation to meet cooling requirements all year round.

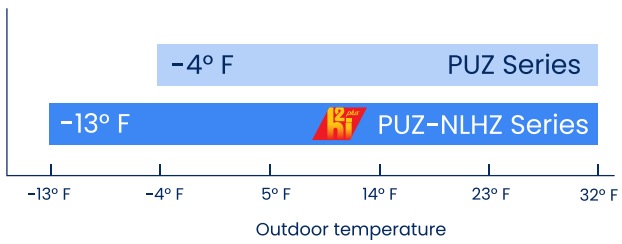
Capacities: 12k to 60k BTU/H

Powerful performance in low temperatures

Approximately 30% higher than model one size larger (example of 30k Btu/h model)



Guaranteed heating operation range is extended To -13° F ambient temperature



Flash injection

In cold weather, refrigerant density drops and system capacity decreases. To compensate, compressor speed increases, which can raise discharge temperatures and pressure ratios, risking damage.

Our **patented flash injection technology** solves this by injecting low-pressure, low-temperature vapor directly into the compressor to maintain performance and protect the system. It also achieves set temperatures faster without oversizing, maintains high efficiency even in extreme cold, enables quick recovery after defrost cycles, and prevents compressor overheating for long-term reliability.

Flash injection is available on select PUZ-AK, SUZ-AK, and MXZ-SM outdoor units.

Single-zone system features

PUY, PUZ, PUZ-NLHZ

Features	
Hyper-Heating Inverter® (H2i®)	Hyper-Heating INVERTER® models provide heating even in ambient outdoor temperatures as low as -13° F, producing up to 100% heating capacity at 5° F. -These units offer year-round comfort even in extreme climates.
Flash injection	As temperatures drop outside, the compressor speeds up to maintain indoor comfort. The flash injection process supplies a small amount of cooler refrigerant back to the compressor, reducing excess heat from increased speeds; allowing it to run faster and produce high heating performance. This also enables the system to achieve set points faster, maintain efficiency, and recover quickly after a defrost cycle.
Low ambient cooling	By optimizing the fan speed control in low ambient temperatures, the PUY Series can offer 100% cooling capacity down to -40° F*.
Pre-charged refrigerant	For PUZ/PUY 12-30k BTU/H capacities, the pre-charged piping length matches the maximum piping length. The pre-charged piping length is up to 100ft for 36-60k BTU/H capacities.
Advanced fan design	The fan blade has been optimized in conjunction with the chassis design to increase airflow while reducing sound levels, resulting in lower energy usage and high heat exchange efficiency.
Seacoast protection	Seacoast protection is included in all outdoor units. The coated base panel and Blue Fin coated heat exchanger are rated for a duration of 2,000 hours, per ASTM B117 Standard. Blue Fin Coating is a treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
Back up rotation	When backup or redundancy is required for critical cooling applications, the backup rotation function allows the units to alternate operation for an even number of hours, using only one controller for both units.
Efficiency	
SEER2	Up to 24.8
HSPF2	Up to 10.9
COP at 47° F	Up to 4.7

Compatible Indoor Units

Indoor Units



PKA



PEAD



PVA



PCA



PAA



PLA

*Wind Baffles are required for applications.

Piping lengths

Series	Class (Outdoor Unit)	Max Piping Length (ft.)	Max. Heigh Difference (ft.)	Max. Number of Bends
		Total Length (A)	ODU - IDU (H)	Total Number
PUY	12/18	165	100	15
	24/30/36/42	225	100	15
	48/60	245	100	15
PUZ	12/18	100	100	15
	24/30/36/42	165	100	15
	48/60	245	100	15
PUZ-NLHZ	24	165	100	15
	30/36/42/48	245	100	15

Indoor unit capacities

		Capacity (BTU/H)										Connection		
		09k	12k	15k	18k	24k	30k	36k	42k	48k	60k	P-Series Single-zone	MXZ Ported	MXZ SMART MULTI®
Wall-mounted	PKA	–	•	–	•	•	•	•	–	–	–	•	–	–
Horizontal Ducted	PEAD	•	•	•	•	•	•	•	•	–	–	•	•	•
Four-way Ceiling Cassette	PLA	–	•	–	•	•	•	•	•	•	–	•	–	•
Ceiling Suspended	PCA	–	–	–	–	•	•	•	•	–	–	•	–	–
Multi Position Air Handler	PVA	–	•	–	•	•	•	•	•	•	•	•	–	–
intelli-HEAT Cased Coil	PAA	–	–	–	•	•	•	•	•	–	–	•	•	•

Outdoor unit capacities

		Capacity (BTU/H)							
		12k	18k	24k	30k	36k	42k	48k	60k
H2i	PUZ-NLHZ	–	–	•	•	•	•	•	–
Standard	PUZ	•	•	•	•	•	•	•	•
Cooling Only	PUY	•	•	•	•	•	•	•	•



Scan here for full single-zone technical details.



SUZ Universal

Outdoor Units

One outdoor unit, many solutions

The SUZ Universal Outdoor Unit is compatable with seven different ducted and ductless indoor units in a Single-zone configuration. With piping lengths up to 100 feet, this unit is a great fit for large home and multi-family applications.











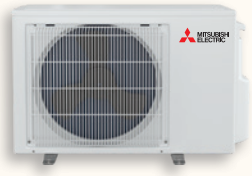
All-climate comfort

There are both standard and Hyper-Heating SUZ models available, allowing these units to provide comfort in any climate.

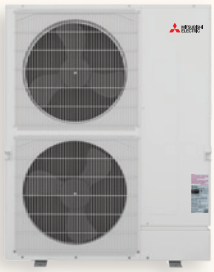
Product family

Outdoor units

Standard heat pump



SUZ-AA09-15NL



SUZ-AK48-60NLHZ



SUZ-AA18-36NL

Hyper-heating heat pump



SUZ-AA09-18NLHZ



SUZ-AK24-48NLHZ

Compatable indoor units



MLZ



SLZ



SEZ



PEAD



MSZ-EX



MFZ



SVZ

Heating performance at low temperatures

SUZ-KA09NLHZ

COP at	SLZ	SEZ	PEAD	MLZ
47° F	3.90	2.80	3.80	4.10
17° F	2.56	2.20	2.56	2.76
5° F	1.34	1.59	1.67	1.67

SUZ-KA18NLHZ

COP at	SLZ	SEZ	PEAD	SVZ	MLZ
47° F	3.40	3.90	3.30	3.30	3.00
17° F	2.10	2.00	2.49	2.32	2.42
5° F	1.75	1.75	1.66	1.75	1.39

SUZ-KA30NLHZ

COP at	PEAD	SVZ
47° F	3.40	3.90
17° F	2.10	2.0
5° F	1.75	1.75

SUZ-KA12NLHZ

COP at	SLZ	SEZ	PEAD	SVZ	MLZ
47° F	3.40	3.90	3.90	3.80	3.80
17° F	2.38	2.56	2.72	2.61	2.54
5° F	1.83	2.19	2.09	1.69	1.57

SUZ-KA15NLHZ

COP at	SLZ	SEZ	PEAD
47° F	2.60	2.70	3.00
17° F	1.91	2.15	2.29
5° F	1.84	1.88	1.81

SUZ-KA24NLHZ

COP at	PEAD	SVZ
47° F	3.80	3.10
17° F	2.10	1.80
5° F	1.75	1.60

SUZ-KA36NLHZ

COP at	PEAD	SVZ
47° F	3.70	3.30
17° F	2.20	1.80
5° F	1.75	1.60

Features and details

Features	
Hyper-Heating Inverter® (H2i®)	Hyper-Heating INVERTER® models provide heating even in ambient outdoor temperatures as low as -13° F, producing up to 100% heating capacity at 5° F. These units offer year-round comfort even in extreme climates.
Flash injection	As temperatures drop outside, the compressor speeds up to maintain indoor comfort. The flash injection process supplies a small amount of cooler refrigerant back to the compressor, reducing excess heat from increased speeds; allowing it to run faster and produce high heating performance. This also enables the system to achieve set points faster, maintain efficiency, and recover quickly after defrost cycle.
Piping lengths/ heights	Maximum piping length is 100 feet for the SUZ-09, SUZ-12, and SUZ-15 Hyper-Heating models and maximum height difference is 50 feet.
Heating operation range	Standard SUZ heat pumps have a minimum heating operation range of -4° F and a heating cut-out at -14° F.
Blue Fin Coating	Particularly beneficial in coastal areas, this anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit prevents the corrosion caused by salt, sulfur, and other airborne contaminants that impact efficiency and performance. Blue Fin coatings are rated, per ASTM B117 Standard, for a duration of 2,000 hours.
Efficiency	
SEER2	Up to 21.7
HSPF2	Up to 12.9
COP at 47° F	Up to 4.3
Capacities	
Standard: 9k – 60k BTU/H	**Hyper-Heating:** 9k – 48k BTU/H

SUZ compatibility

Outdoor unit capacity (BTU/H)		9k		12k		15k		18k		24k		30k		36k		48k		60k	
Model	Type	HP	H2i	HP	H2i	HP	H2i	HP	H2i	HP	H2i	HP	H2i	HP	H2i	HP	H2i	HP	H2i
SLZ	2′ x 2′	•	•	•	•	•	•	•	•	–	–	–	–	–	–	–	–	–	–
SEZ	Low-static Ducted	•	•	•	•	•	•	•	•	–	–	–	–	–	–	–	–	–	–
PEAD	Mid-static Ducted	•	•	•	•	•	•	•	•	•	•	•	•	•	•	–	–	–	–
SVZ	Multi-position Air Handler	–	–	•	•	–	–	•	•	•	•	•	•	•	•	•	•	•	–
MLZ	1-way Cassette	•	•	•	•	–	–	•	•	–	–	–	–	–	–	–	–	–	–
MFZ	Floor-standing	•	•	•	•	•	•	•	•	–	–	–	–	–	–	–	–	–	–
MSZ-EX	Wall-mounted	•	•	•	•	•	•	•	•	–	–	–	–	–	–	–	–	–	–

*Specific combinations qualify, refer to submittals or the AHRI database for efficiency values and ENERGY STAR certified combinations.



Multi-zone

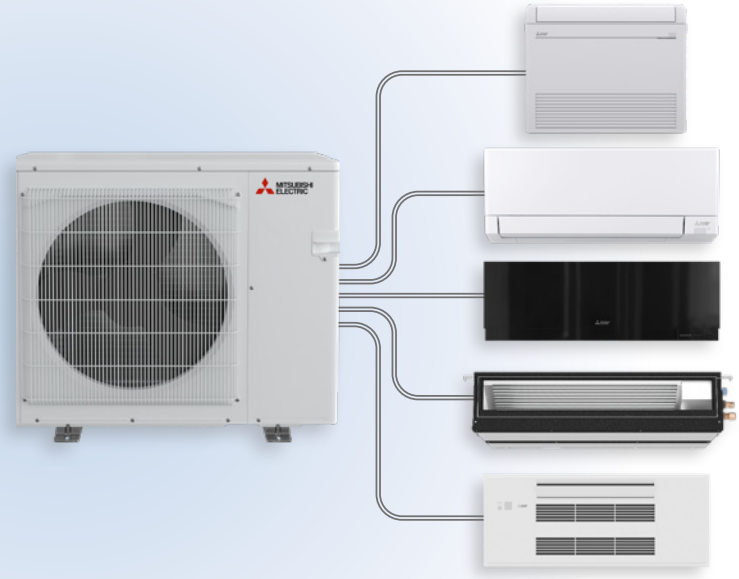
Outdoor Units





Multi-zone Outdoor Units

Multi-zone systems are designed to provide precise, energy-efficient heating and cooling to multiple indoor spaces, making them an ideal option for numerous applications across residential and light commercial projects. These ultra-quiet units are engineered with a slim footprint and offer reliable performance even in extreme climates.



MXZ Ported Outdoor Units are able to connect up to five indoor units to one outdoor unit without the need for a branch box.

MXZ Ported Outdoor Units do not require any additional refrigerant during installation. All units come factory-charged with refrigerant, ensuring quicker and more streamlined installation and enhanced performance. Maximum piping lengths and height restrictions still apply.

Outdoor Units

Standard heat pump



2-port
MXZ-2D20NL

3-port
MXZ-3D24NL

4-port
MXZ-4D30NL

5-port
MXZ-5D36-42NL

Hyper-heating heat pump



2-port
MXZ-2D20NLHZ

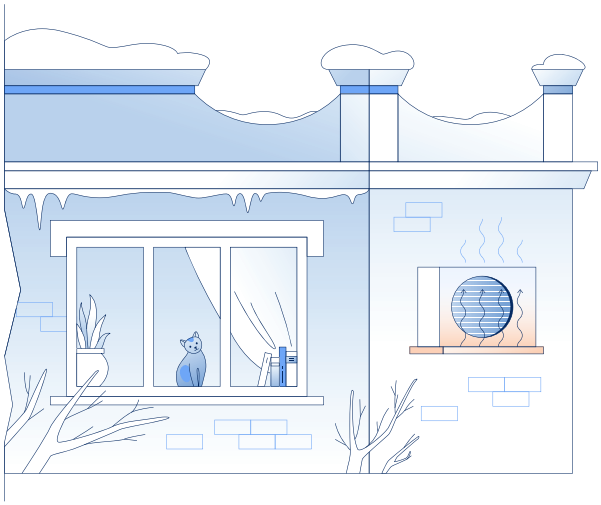
3-port
MXZ-3D24-30NLHZ

Freeze-prevention Base Pan Heater

The Freeze-prevention Base Pan Heater supports continued performance in low-temperature environments. During the defrost cycle, water is released. The base pan heater prevents this water from freezing and disrupting operation. The base pan heater is added as a safety measure for cold climate zones or for moderate climate zones subject to high humidity during the winter.

The MXZ Ported H2i® Outdoor Units come equipped with base pan heater as standard.

Freeze-prevention Base Pan Heater



MXZ Ported features

Features	
Hyper-Heating Inverter® (H2i®)	Hyper-Heating INVERTER® models provide heating even in ambient outdoor temperatures as low as -13° F, producing up to 100% heating capacity at 5° F. These units offer year-round comfort even in extreme climates.
Freeze-prevention Base Pan Heater (standard)	This advanced base pan heater limits capacity reduction and operational shutdown caused by drain water freezing after a defrost cycle, ensuring reliable performance in low-temperature environments.
Blue Fin Coating	An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
Advanced Frost Detection	The fan blade has been optimized in conjunction with the chassis design to increase airflow while reducing sound levels, resulting in lower energy usage and high heat exchange efficiency.
Efficiency	
SEER2	Up to 21
HSPF2	Up to 10
COP at 47° F	Up to 4.3
Capacities	
Standard: 20k – 42k BTU/H **Hyper-Heating:** 20k – 30k BTU/H	



Exceptional efficiency

The MXZ Ported Outdoor Units include ENERGY STAR® and ENERGY STAR COLD CLIMATE combinations*

* Specific combinations qualify, refer to submittals or the AHRI database for efficiency values and ENERGY STAR certified combinations.

M-Series multi-zone compatibility[1]

Outdoor unit		MXZ-NL					MXZ-NLHZ		
M-Series indoor units		2D20	3D24	4D30	5D36	5D42	2D20	3D24	3D30
Wall-mounted	MXZ-FX06NL	•	•	•	•	•	•	•	•
	MXZ-FX09NL	•	•	•	•	•	•	•	•
	MXZ-FX12NL	•	•	•	•	•	•	•	•
	MXZ-FX015NL	•	•	•	•	•	•	•	•
	MXZ-FX18NL	–	•	•	•	•	–	•	•
	MXZ-FX24NL	–	–	–	–	–	–	–	–
	MXZ-GX06NL	•	•	•	•	•	•	•	•
	MXZ-GX09NL	•	•	•	•	•	•	•	•
	MXZ-GX12NL	•	•	•	•	•	•	•	•
	MXZ-GX15NL	•	•	•	•	•	•	•	•
	MXZ-GX18NL	–	•	•	•	•	–	•	•
	MXZ-GX24NL	–	–	•	•	•	–	–	•
	MXZ-GX30NL	–	–	–	–	–	–	–	–
	MXZ-GX36NL	–	–	–	–	–	–	–	–
	MSZ-EX09NL (B, W, S)	•	•	•	•	•	•	•	•
	MSZ-EX12NL (B, W, S)	•	•	•	•	•	•	•	•
	MSZ-EX15NL (B, W, S)	•	•	•	•	•	•	•	•
	MSZ-EX18NL (B, W, S)	–	•	•	•	•	–	•	•
Floor-mounted[1]	MFZ-KX09NL[1]	•	•	•	•	•	•	•	•
	MFZ-KX12NL[1]	•	•	•	•	•	•	•	•
	MFZ-KX15NL[1]	•	•	•	•	•	•	•	•
	MFZ-KX18NL[1]	–	•	•	•	•	–	•	•
EZ-FIT® Ceiling Cassette	MLZ-KX06NL	•	•	•	•	•	•	•	•
	MLZ-KX09NL	•	•	•	•	•	•	•	•
	MLZ-KX12NL	•	•	•	•	•	•	•	•
	MLZ-KX18NL	–	•	•	•	•	–	•	•
4-way Ceiling Cassette	SLZ-AF09NL	•	•	•	•	•	•	•	•
	SLZ-AF12NL	•	•	•	•	•	•	•	•
	SLZ-AF15NL	•	•	•	•	•	•	•	•
	SLZ-AF18NL	–	•	•	•	•	–	•	•

1 A maximum of two MFZ units can be connected on one systems (connection of three or more units is prohibited.)

P-Series multi-zone compatibility

Outdoor unit		MXZ-NL					MXZ-NLHZ		
M-Series indoor units		2D20	3D24	4D30	5D36	5D42	2D20	3D24	3D30
Ceiling-concealed	SEZ-AD09NL	•	•	•	•	•	•	•	•
	SEZ-AD12NL	•	•	•	•	•	•	•	•
	SEZ-AD15NL	•	•	•	•	•	•	•	•
	SEZ-AD18NL	–	•	•	•	•	–	•	•
Multi-position Air Handler	SVZ-AP12NL	•	•	•	•	•	•	•	•
	SVZ-AP18NL	–	•	•	•	•	–	•	•
	SVZ-AP24NL	–	–	•	•	•	–	–	•
	SVZ-AP30NL	–	–	–	–	–	–	–	–
	SVZ-AP36NL	–	–	–	–	–	–	–	–

P-Series indoor units[1]									
Ceiling-concealed	PEAD-AA09NL[2, 3]	•	•	•	•	•	•	•	•
	PEAD-AA12NL[2, 3]	•	•	•	•	•	•	•	•
	PEAD-AA15NL[2, 3]	–	•	•	•	•	–	•	•
	PEAD-AA18NL[2, 3]	–	•	•	•	•	–	•	•
	PEAD-AA24NL[2, 3]	–	•	•	•	•	–	–	•
	PEAD-AA30NL[2, 3]	–	–	–	–	–	–	–	–
	PEAD-AA36NL[2, 3]	–	–	–	–	–	–	–	–
	PEAD-AA42NL[2, 3]	–	–	–	–	–	–	–	–
intelli-HEAT®	PAA-AA18NL[4, 5, 6]	–	•	•	•	•	–	•	•
	PAA-BA18NL[4, 5, 6]	–	•	•	•	•	–	•	•
	PAA-AA24NL[4, 5, 6]	–	–	•	•	•	–	–	•
	PAA-BA24NL[4, 5, 6]	–	–	•	•	•	–	–	•
	PAA-AA30NL[4, 5, 6]	–	–	–	–	–	–	–	–
	PAA-BA30NL[4, 5, 6]	–	–	–	–	–	–	–	–
	PAA-AA36NL[4, 5, 6]	–	–	–	–	–	–	–	–
	PAA-BA36NL[4, 5, 6]	–	–	–	–	–	–	–	–
	PAA-BA42NL[4, 5, 6]	–	–	–	–	–	–	–	–
	PAA-CA42NL[4, 5, 6]	–	–	–	–	–	–	–	–

1 P-Series 4-way Ceiling Cassette (PLA-AE), and Ceiling-suspended (PCA-AK) models are not compatible with MXZ Ported multi-zone outdoor units.
2 A maximum of 2 PEAD units can be connected (connection of three or more PEAD units is prohibited).
3 Do not use SVZ/PAA and PEAD together on one system.
4 A maximum of 2 PAA units can be connected.
5 When connecting any number of PAA units, the total connected capacity must not exceed 100%.
6 If only PAA units are connected with no other indoor unit type connected to the system, there must be a minimum total piping length of 33 ft. from the outdoor unit to each of the PAA units.

MXZ

Specifications

Outdoor Unit			MXZ-2D20NL	MXZ-2D20NLHZ	MXZ-3D24NL	MXZ-3D24NLHZ	MXZ-3D30NLHZ	MXZ-4D30NL	MXZ-5D36NL	MXZ-5D42NL
Cooling at 95F[1] (Non-Ducted // Mixed // Ducted)	Rated Capacity	BTU/H	18,000 // 19,000 // 20,000	18,000 // 19,000 // 20,000	22,000 // 22,800 // 23,600	22,000 // 22,800 // 23,600	28,400 // 27,800 // 27,400	28,600 // 28,000 // 27,400	35,400 // 33,400 // 31,400	40,500 // 38,000 // 36,400
Heating at 47F[2] (Non-Ducted // Mixed // Ducted)	Rated Capacity	BTU/H	24,000 // 22,000 // 23,000	22,000 // 22,000 // 22,000	25,000 // 25,200 // 25,400	25,000 // 24,800 // 24,600	28,600 // 28,000 // 27,600	28,600 // 28,000 // 27,600	36,000 // 35,200 // 34,400	45,000 // 43,000 // 41,000
Efficiency (Non-Ducted // Mixed // Ducted)	COP at 47°F[2]		3.92 // 3.76 // 3.64	4.00 // 3.90 // 3.82	4.3 // 4.1 // 3.9	3.50 // 3.40 // 3.30	3.50 // 3.52 // 3.54	3.90 // 3.78 // 3.68	3.5 // 3.3 // 3.1	3 // 2.82 // 2.66
	EER2[1]		13 // 11.50 // 10	13.50 // 12.30 // 11.10	13.70 // 12.70 // 11.70	13 // 11.50 // 10	11.50 // 10.90 // 10.30	13 // 11.30 // 9.60	12 // 10.40 // 8.80	9.30 // 9.15 // 9
	ENERGY STAR® Certified		Yes // Yes // No	Yes // Yes // Yes	Yes // Yes // Yes	Yes // Yes // No	Yes // No // No	Yes // Yes // No	Yes // No // No	No // No // No
	HSPF2 (IV)[2]		10 // 9.55 // 9.10	10 // 8.95 // 7.90	10 // 9.30 // 8.60	10 // 9 // 8	10 // 9 // 8	10 // 9.40 // 8.80	9.30 // 8.80 // 8.30	9.10 // 8.55 // 8
	SEER2[1]		20 // 18 // 16	19.30 // 16.80 // 14.30	20 // 18 // 16	20 // 17.20 // 14.40	20 // 18 // 16	21 // 18.55 // 16.10	19.20 // 17.70 // 16.20	19.30 // 17.45 // 15.60
Electrical	Electrical Power Requirements	V AC / V AC, ø, 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	208 / 230, 1, 60	208 / 230, 1, 60
	Guaranteed Voltage Range	V AC	198 - 253	198 - 253	198 - 253	198 - 253	198 - 253	198 - 253	198 - 253	198 - 253
	MCA	A	21.7	21.7	28.7	29	38	28.7	29	39.2
	MCA if Branch Box Powered by Outdoor Unit	A	-	-	-	-	-	-	-	-
	MCA without Branch Box or Branch Box Powered Separate	A	-	-	-	-	-	-	-	-
	MOCP	A	38	38	48	49	65	48	49	67
	MOCP if Branch Box Powered by Outdoor Unit	A	-	-	-	-	-	-	-	-
	MOCP without Branch Box or Branch Box Powered Separate	A	-	-	-	-	-	-	-	-
	Recommended Fuse/Breaker Size	A	20	20	25	25	35	25	25	40
	Recommended Fuse/Breaker Size if Branch Box Powered by Outdoor Unit	A	-	-	-	-	-	-	-	-
	Recommended Fuse/Breaker Size without Branch Box or Branch Box Powered Separate	A	-	-	-	-	-	-	-	-
	Recommended Wire Size (Indoor - Outdoor)	AWG	14	14	14	14	14	14	14	14
	Short-circuit Current Rating (SCCR)	kA	5	5	5	5	5	5	5	5
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24	24	24	24	24	24	24	24
Outdoor Unit	Airflow Rate Cooling/Heating	CFM	1,324 / 1,451	2,119 / 2,228	2,119 / 2,228	2,239 / 2,378	2,239 / 2,378	2,119 / 2,228	2,306 / 2,306	2,447 / 2,514
	Base Pan Heater		Optional	Built-in	Optional	Built-in	Built-in	Optional	Optional	Optional
	Blue Fin Heat Exchanger Coating		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Compressor Motor Output	kW	-	-	-	-	-	-	-	-
	Compressor Type		Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
	Defrost Method		Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
	External Finish Color		Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1
	Fan Motor Full Load Amperage	A	1.77	1.74	1.74	1.74	1.74	1.74	1.74	1.74
	Fan Motor Output	W	64	88	88	88	88	88	88	88
	Sound Pressure Level, Cooling[1]	dB (A)	51	51	51	56	56	53	58	58
	Sound Pressure Level, Heating[2]	dB (A)	55	53	55	58	58	56	58	59
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 27-15/16 [840 x 330 x 710]	37-11/32 x 13 x 31-11/32 [950 x 330 x 796]	37-11/32 x 13 x 31-11/32 [950 x 330 x 796]	37-13/32 x 13 x 31-11/32 [950 x 330 x 796]	37-13/32 x 13 x 31-11/32 [950 x 330 x 796]	37-13/32 x 13 x 31-11/32 [950 x 330 x 796]	37-13/32 x 13 x 31-11/32 [950 x 330 x 796]	37-13/32 x 13 x 31-11/32 [950 x 330 x 796]
	Unit Weight	lbs [kg]	119 [54]	137 [62]	137 [62]	152 [69]	152 [69]	137 [62]	152 [69]	152 [69]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer to Multi-zone Outdoor Unit Operational Performance.
For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.
Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity.
Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

■ : Standard heat pump
■ : Hyper-heating heat pump

MXZ
Specifications

Outdoor Unit			MXZ-2D20NL	MXZ-2D20NLHZ	MXZ-3D24NL	MXZ-3D24NLHZ	MXZ-3D30NLHZ	MXZ-4D30NL	MXZ-5D36NL	MXZ-5D42NL
ODU Operating Temp. Range	Cooling Intake Air Temp (Maximum / Minimum[C])	°FDB	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures	°FDB	10 / 14	10 / 14	10 / 14	10 / 14	10 / 14	10 / 14	10 / 14	10 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / 6, 5	75, 65 / -12, -13	75, 65 / 6, 5	75, 65 / -12, -13	75, 65 / -12, -13	75, 65 / 6, 5	75, 65 / 6, 5	75, 65 / 6, 5
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-4 / 5	-22.5 / -14	-4 / 5	-22.5 / -14	-22.5 / -14	-4 / 5	-4 / 5	-4 / 5
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
IDU Connection	Maximum connected capacity	BTU/H	24,000	24,000	28,000	28,000	36,000	36,000	41,000	51,000
	Maximum Number of Connected IDU		2	2	3	3	3	4	5	5
	Minimum Connected Capacity	BTU/H	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
	Minimum Number of Connected IDU		2	2	2	2	2	2	2	2
Piping	Farthest Piping Length	ft [m]	82 [25]	82 [25]	82 [25]	82 [25]	82 [25]	82 [25]	82 [25]	82 [25]
	Gas Pipe Size O.D. (Flared)	inch	-	-	-	-	-	A: 1/2 B: 3/8 C: 3/8 D: 3/8	-	-
			A: 3/8 B: 3/8	A: 3/8 B: 3/8	-	-	-	-	-	-
			-	-	A: 1/2 B: 3/8 C: 3/8	A: 1/2 B: 3/8 C: 3/8	A: 1/2 B: 3/8 C: 3/8	-	-	-
			-	-	-	-	-	-	A: 1/2 B: 3/8 C: 3/8 D: 3/8 E: 3/8	A: 1/2 B: 3/8 C: 3/8 D: 3/8 E: 3/8
		inch [mm]	-	-	-	-	-	-	-	-
	Liquid Pipe Size O.D. (Flared)	inch	-	-	A: 1/4 B: 1/4 C: 1/4	A: 1/4 B: 1/4 C: 1/4	A: 1/4 B: 1/4 C: 1/4	-	-	-
			-	-	-	-	-	-	A: 1/4 B: 1/4 C: 1/4 D: 1/4 E: 1/4	A: 1/4 B: 1/4 C: 1/4 D: 1/4 E: 1/4
		inch [mm]	-	-	-	-	-	-	-	-
		inch	-	-	-	-	-	A: 1/4 B: 1/4 C: 1/4 D: 1/4	-	-
			A: 1/4 B: 1/4	A: 1/4 B: 1/4	-	-	-	-	-	-
	Total Piping Length	ft [m]	164 [50]	164 [50]	230 [70]	230 [70]	230 [70]	230 [70]	230 [70]	262 [80]
	Total Piping Length without Branch Box		-	-	-	-	-	-	-	-

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer to Multi-zone Outdoor Unit Operational Performance.
For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.
Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity.
Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.
* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
• System cuts out in heating mode and automatically restarts at these temperatures.

■ : Standard heat pump
■ : Hyper-heating heat pump



SMART MULTI®

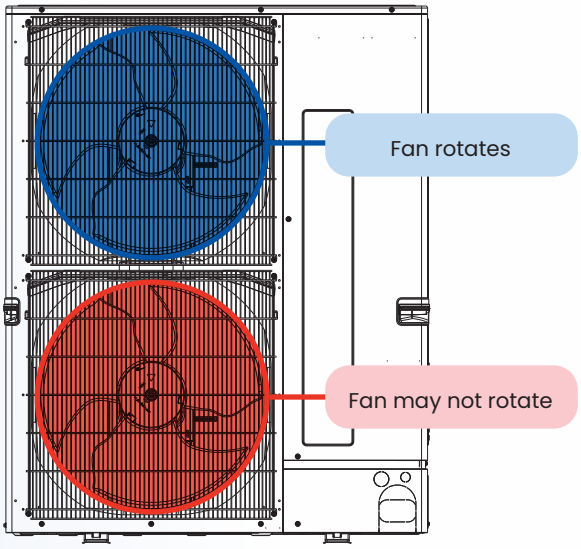
Designed to deliver enhanced performance and flexibility for larger residential and light commercial spaces, SMART MULTI can connect up to eight M- and P-Series indoor units, or up to twelve CITY MULTI® indoor units. The SMART MULTI's minimal footprint allows it to be installed in sites with limited space, such as condominium balconies or low lot line backyards.



Independent fan operation

Depending on the outdoor air temperature and the number of indoor units in operation, only the upper fan of the outdoor unit may rotate and the lower fan may not.

- Only for MXZ-SM36-48NLHZ and MXZ-SM60NL
- This feature is designed to prevent refrigerant noise, and is not indication of a fan failure



SMART MULTI features

Features	
Hyper-Heating Inverter® (H2i®)	Hyper-Heating INVERTER® models provide heating even in ambient outdoor temperatures as low as -13° F, producing up to 100% heating capacity at 5° F. These units offer year-round comfort even in extreme climates.
Flash injection	As temperatures drop outside, the compressor speeds up to maintain indoor comfort. The flash injection process supplies a small amount of cooler refrigerant back to the compressor, reducing excess heat from increased speeds; allowing it to run faster and produce high heating performance. This also enables the system to achieve set points faster, maintain efficiency, and recover quickly after a defrost cycle.
Multi-zone	SMART MULTI Outdoor Units connect to multiple indoor units and provide personalized comfort in multiple spaces. This helps to eliminate problem hot and cold spots in a space and allows for energy to be used only in the zones that need it.
Indoor unit versatility	Connected capacity range: 50% to 130%. Up to 8 M- and P-Series Indoor Units or up to 12 CITY MULTI Indoor Units can be connected to one SMART MULTI Outdoor Unit.
Easy configuration	Dipswitch settings have been added for customized operation and easier service.
Seacoast protection	Seacoast protection is included in all outdoor units. The coated base panel and Blue Fin coated heat exchanger are rated for a duration of 2,000 hours, per ASTM B117 Standard. Blue Fin Coating is a treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
Simple troubleshooting	The USB recorder can store up to 2 weeks of operation data.
Efficiency	
SEER2	Up to 23
HSPF2	Up to 12
COP at 47° F	Up to 4.1
Capacities	
Standard: 36k, 48k, 60k BTU/H **Hyper-Heating:** 36k, 42k, 48k BTU/H	

Powerful. Flexible. *SMART*.



SMART MULTI® compatibility[1]

1-phase, 3-5 ton

M- and P-Series Indoor Units (with branch box)

Connectable indoor unit lineup (Heat pump inverter type)											
Model Type		Model Name	06k	09k	12k	15k	18k	24k	30k	36k	42k
Wall-mounted	Deluxe	MSZ-FX-NL	•	•	•	•	•	•	–	–	–
	Standard	MSZ-GX-NL	•	•	•	•	•	•	–	–	–
Ceiling-concealed	Low-static Pressure	SEZ-AD-NL	–	•	•	•	•	–	–	–	–
	Mid-static Pressure	PEAD-AA-NL	–	•	•	•	•	•	•	•	–
Ceiling Cassette	4-way Flow	PLA-AE-NL	–	–	•	–	•	•	•	•	–
	2′ x 2′	SLZ-AF-NL	–	•	•	•	–	–	–	–	–
	1-way Flow	MLZ-KX-NL	•	•	•	–	•	–	–	–	–
Floor-standing		MFZ-KX-NL	–	•	•	•	•	–	–	–	–
Multi-position Air Hander		SVZ-AP-NL	–	–	•	–	•	•	•	•	–
intelli-HEAT A-Coil		PAA-AA/BA/CA	–	–	–	–	•	•	•	•	–

CITY MULTI® Indoor Units (without branch box)

Model Type		Model Name		04k	05k	06k	08k	12k	15k	18k	24k	27k	30k	36k	48k	54k	60k
Wall-mounted		PKFY-L	NKMU	–	–	–	–	–	–	–	•	–	•	–	–	–	–
			NLMU	•	–	•	•	•	•	•	–	–	–	–	–	–	–
Ceiling-concealed	Low ESP	PEFY-L	NMSU	–	–	•	•	•	•	•	•	–	–	–	–	–	–
	Mid ESP	PEFY-L	NMAU	–	–	•	•	•	•	•	•	•	•	•	•	•	–
Ceiling-suspended		PCFY-L	NKMU	–	–	–	–	–	•	–	•	–	•	•	–	–	–
Ceiling Cassette	4-way Flow[2]	PLFY-EL	NEMU	–	–	–	–	•	•	•	•		•	•	•	–	–
	2' x 2'	PLFY-L	NFAU	–	•	–	•	•	•	•	–	–	–	–	–	–	–
Multi-position Air Hander		PVFY-L	NAMU	–	–	–	•	•	–	•	•	–	•	•	•	•	•[2]

1 All capacities in BU/H
2 When connecting one or more PLFY-EL12/18NEMU units, total system capacity shall be equal to or lower than 105% of the outdoor unit capacity.

SMART MULTI® compatibility[1]

1-phase, 3-5 ton

M- and P-Series Indoor Units

Outdoor Unit	Model Name	SM36NL SM36NLHZ	SM42NLHZ	SM48NL SM48NLHZ	SM60NL
Applicable indoor unit	Capacity Class	06k - 36k			
	Maximum number of units	4 (3)[2, 3, 4]	5 (4)[2, 3, 4]	8 (8)[2, 3, 4]	8 (8)[2, 3, 5]
	Total system capacity range[6]	33 to 130% of outdoor unit capacity	29 to 130% of outdoor unit capacity	25 to 130% of outdoor unit capacity	20 to 130% of outdoor unit capacity
		12k - 46.8k	12k - 54.6k	12k - 62.4k	12k - 78k
Branch box that can be connected	Number of units	1 or 2			

CITY MULTI® Indoor Units

Outdoor unit	Model name	SM36NL SM36NLHZ	SM42NLHZ	SM48NL SM48NLHZ	SM60NL
Applicable indoor unit	Capacity class	04k - 36k	04k - 54k		04k - 72k
	Maximum number of units	11	12		
	Total system capacity range	50 to 130% of outdoor unit capacity			

Model name	CMY-Y62-G-E	CMY-Y64-G-E	CMY-Y68-G-E
Number of branches	2	4	8

1 All capacities in BU/H
2 The number enclosed in parentheses is the maximum number of units that can be connected when 1 or more PLA/PAA-series units is connected.
3 When connecting 2 SVZ-series units, any other indoor units other than SVZ-series cannot be connected. When connecting 2 SVZ-series unit, the total rated capacity (cooling) should be 100% or below including the SVZ-series unit (only SM60). Also, only 1 SEZ or PEAD can be included in the connection.
4 A maximum of 3 SEZ/PEAD-series units can be connected to a branch box
5 A maximum of 2 SEZ/PEAD-series units can be connected to a branch box. When connecting 1 or more SEZ/PEAD-series units, the total rated capacity (cooling) including the SEZ/PEAD-series units shall be 100% or below.
6 When connecting one or more MFZ-KX09 or PLA-AE12 units, the total system capacity shall be equal to or lower than 105% of the outdoor unit capacity.

MXZ-SM

Specifications

Outdoor Unit			MXZ-SM36NL	MXZ-SM36NLHZ	MXZ-SM42NLHZ	MXZ-SM48NL	MXZ-SM48NLHZ	MXZ-SM60NL
Cooling at 95F[1] (Non-Ducted // Mixed // Ducted)	Rated Capacity	BTU/H	36,000 // 36,000 // 36,000	36,000 // 36,000 // 36,000	42,000 // 42,000 // 42,000	48,000 // 48,000 // 48,000	48,000 // 48,000 // 48,000	60,000 // 60,000 // 60,000
Heating at 47F[2] (Non-Ducted // Mixed // Ducted)			41,000 // 41,000 // 41,000	42,000 // 42,000 // 42,000	48,000 // 48,000 // 48,000	50,000 // 50,000 // 50,000	54,000 // 54,000 // 54,000	66,000 // 66,000 // 66,000
Efficiency (Non-Ducted // Mixed // Ducted)	COP at 47°F[2]		4 // 3.55 // 3.10	4 // 3.70 // 3.40	4.10 // 3.55 // 3	4 // 3.55 // 3.10	4 // 3.60 // 3.20	4.10 // 3.70 // 3.30
	EER2[1]		14.10 // 12.05 // 10	14.50 // 12.70 // 10.90	13.40 // 11.90 // 10.40	12 // 10.20 // 8.40	13.10 // 11.55 // 10	12 // 10.70 // 9.40
	ENERGY STAR® Certified		Yes // Yes // No	Yes // Yes // No	Yes // No // No	Yes // No // No	Yes // No // No	Yes // No // No
	HSPF2 (IV)[2]		11 // 10.50 // 10	12 // 11.25 // 10.50	11.10 // 10.55 // 10	10.40 // 9.95 // 9.50	11.50 // 10.75 // 10	10.50 // 10 // 9.50
	SEER2[1]		23 // 20.60 // 18.20	23 // 20.35 // 17.70	21.50 // 19.50 // 17.50	23 // 20 // 17	23 // 20.50 // 18	20 // 18.20 // 16.40
Electrical	Electrical Power Requirements	V AC / V AC, ø, 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	198 - 253	198 - 253	198 - 253	198 - 253	198 - 253	198 - 253
	MCA if Branch Box Powered by Outdoor Unit	A	42	51	51	42	51	55
	MCA without Branch Box or Branch Box Powered Separate		36	45	45	36	45	45
	MOCP if Branch Box Powered by Outdoor Unit		70	86	86	70	86	90
	MOCP without Branch Box or Branch Box Powered Separate		64	80	80	64	80	80
	Recommended Fuse/ Breaker Size if Branch Box Powered by Outdoor Unit		40	45	45	40	45	50
	Recommended Fuse/ Breaker Size without Branch Box or Branch Box Powered Separate		30	40	40	30	40	40
	Short-circuit Current Rating (SCCR)	kA	5	5	5	5	5	5
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230	208/230	208/230	208/230	208/230	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24	24	24	24	24	-
Outdoor Unit	Airflow Rate Cooling/ Heating	CFM	3,955 / 3,955	3,810 / 3,810	3,810 / 3,810	3,955 / 3,955	3,810 / 3,810	4,975 / 4,625
	Base Pan Heater		Optional	Built-in	Built-in	Optional	Built-in	Optional
	Blue Fin Heat Exchanger Coating		Yes	Yes	Yes	Yes	Yes	Yes
	Compressor Motor Output	kW	2.7	2.7	3	3.4	3.2	4.1
	Compressor Type		Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
	Defrost Method		Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
	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
	Fan Motor Output	W	70+70	200+200	200+200	70+70	200+200	200+200
	Sound Pressure Level, Cooling[1]	dB (A)	49	49	50	51	51	58
	Sound Pressure Level, Heating[2]		53	53	54	54	54	59
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 13 x 52-11/16 [1,050 x 330 x 1,338]	41-11/32 x 13 x 52-11/16 [1,050 x 330 x 1,338]	41-11/32 x 13 x 52-11/16 [1,050 x 330 x 1,338]	41-11/32 x 13 x 52-11/16 [1,050 x 330 x 1,338]	41-11/32 x 13 x 52-11/16 [1,050 x 330 x 1,338]	41-11/32 x 13 x 52-11/16 [1,050 x 330 x 1,338]
	Unit Weight	lbs [kg]	250 [113]	283 [128]	283 [128]	250 [113]	283 [128]	278 [126]
ODU Operating Temp. Range	Cooling Intake Air Temp (Maximum / Minimum[C])	°FDB	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23	115 / 23
	Cooling Thermal Lock-out / Re-start Temperatures		N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A	N/A / N/A
	Heating Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13	70, 59 / -13, -13
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-24 / -14	-24 / -14	-24 / -14	-24 / -14	-24 / -14	-24 / -14
Refrigerant	Type		R454B	R454B	R454B	R454B	R454B	R454B
IDU Connection	Maximum connected capacity	BTU/H	46,800	46,800	54,600	62,400	62,400	78,000
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]	5/8 [15.88]	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]
	Total Piping Length without Branch Box	ft [m]	787 [240]	492 [150]	492 [150]	787 [240]	492 [150]	492 [150]

[1]Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)
[2]Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)
[3]Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)
[5]Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)
[9]Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)

- Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
- A Maximum connected units reduced when PLA connected. Refer to manual for details
- B Branch box should be placed within the level between the outdoor unit and indoor units
- C 5°F DB - 115°F DB when optional wind baffles are installed

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.
Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity.
Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
- System cuts out in heating mode and automatically restarts at these temperatures.

: Standard heat pump
: Hyper-heating heat pump




office
Auto-Cooling
64
Now 70° H 65%
Devices
1 out of 4 devices running
Dehumidifier
kumo station, channel 1
Ventilation
kumo station, channel 2
Cool
Mode
Silent
Fan
Middle
Vane
Mon
Schedule

Controls



The Comfort app

The Comfort app by Mitsubishi Electric gives homeowners complete comfort control like never before. With a sleek, modern interface, the app offers an intuitive and effortless way to manage Mitsubishi Electric cooling and heating systems. From adjusting temperatures to setting schedules and switching between modes, homeowners can enjoy a seamless smart home experience.

The Comfort app is compatible with all Mitsubishi Electric indoor units, including those featuring built-in Wi-Fi. For existing installations, the app works seamlessly with newer Wireless Interface Adapters, such as the PAC-USWHS002-WF-1 and PAC-USWHS002-WF-2.

Units with the older PAC-WHS01WF-E wireless interface adapter will require an upgrade for compatibility.

Available on the App Store (iOS) and Google Play (Android)

The Comfort app features

Features	
Upgraded graphics and user interface	The sleek interface includes an advanced thermostat and intuitive zone management, complemented by vibrant graphics and helpful, color-coded notifications for a more user-friendly experience.
Simple navigation and support options	With guided user onboarding, the app ensures a reliable and responsive experience with fewer touchpoints. In-app definitions and easy access to FAQs and help articles provide immediate support to homeowners when needed.
Reliability and connectivity	The Comfort app is designed to provide stronger and more reliable connections to your customers' equipment, ensuring optimal performance once set up. However, the strength of the connection is subject to the quality of the user's home Wi-Fi network.
Multi-device setup	Users can easily name zones during wireless interface setup for a personalized experience. Contractors will also benefit from the new app's ability to connect all installed units at once, eliminating the time-consuming process of connecting to each unit individually.
Seasonal scheduling	Homeowners can seamlessly adjust schedules between summer and winter without the need to recreate schedules every season. This feature is especially useful for customers who prefer to manually manage multi-zone transitions rather than relying on the auto-changeover feature.
Comfort Connect	Enhance your customer relationships with the new Comfort Connect feature. By entering your Contractor PIN (your main 10-digit business phone number), your information is automatically stored in the customer's app. In the event of an equipment error, customers can quickly and easily reach out to you directly for support.

MHK2 Wireless Remote Controller

MHK2

- Touch panel, backlit, easy-to-read display
- RedLINK™ 3.0 wireless technology
- User control of On/Off, mode (cool, heat, dry, fan), temperature (dual set points), fan speed, and airflow direction
- Set temperature range limits
- Multiple scheduling options
- Hold function
- Temporary or Permanent schedule override
- Supports both Fahrenheit and Celsius
- Filter sign display
- Diagnostics: Displays and records error codes
- Adjustable auto mode deadband
- Reset to factory default
- Uses two “AA” alkaline batteries (included)
- Dimensions: 4-5/64” x 4-5/64” x 1-1/16”





Wired controllers



SDW Remote Controller

PAC-SDW01RC-1

- Three buttons and a dial with a color screen
- Wired communicating connection
- Field supplied 18 AWG wire up to 50 feet
- Standard operation commands
- Programmable
- English text error messages
- Auto DRY function (COOL > DRY > COOL)
  - Based on humidity set point



Touch MA Remote Controller

PAR-CT01MAU-SB

- User-friendly, customizable, full-color touch panel display
- Ability to add a custom logo on the display
- Large icons with 180 color patterns
- Daily and weekly timers
- Password protected
- Requires MAC-334IF-E for use with M-Series products
- The MELRemo app and Bluetooth® Low Energy (BLE) technology supports communication with smartphones or tablets in multiple languages. Available on the App Store (iOS) and Google Play (Android)



Deluxe MA Remote Controller

PAR-42MAAUB

- Operation modes: Heat/Cool/Auto/Dry/Off
- Room temperature setting and range restriction
- Manual vane angle (P-Series cassette indoor units)
- Smooth maintenance (P-Series only)
- Auto-off timer and weekly timer
- Setting screen for 3D i-see Sensor®
- Draft reduction mode
- Daylight Saving Time (DST)
- Requires MAC-334IF-E for use with M-Series ductless products
- Room temperature displays the temperature sensed either at the indoor unit (default) or at the controller



Many indoor units include remote controllers, so you can adjust comfort settings without leaving your seat.

Controls accessories



Thermostat Interface

PAC-US445CN-1

- Control your system using a third-party 24VAC transformer
- Wires back to the indoor unit using CN105 to replace the return air temperature sensor
- Maximum wiring length: 39”
- Exterior shell made of ABS resin



MAC-334IF-E System Control Interface

MAC-334IF-E

- Allows M-Series indoor units to communicate with the CITY MULTI® Controls Network via M-Net
- Provides an input to allow remote On/Off control of indoor unit
- Allows M-Series indoor units to connect to MHK2 Wall-mounted Wireless Controller when using other MAC-334IF-E functions
- Allows M-Series indoor units to connect to a MA controller
- Power: 12V DC (supplied from indoor unit)



BACnet® Interface

PAC-UKPRC001-CN-1

- Allows for third-party home automation/building management system to control indoor unit
- One interface required per indoor unit
- Compatible with remote controllers
- Cable length: 37”
- Power: 12V DC (supplied from indoor unit)



USNAP Interface

PAC-WHS01UP-E

- Allows indoor units to participate in demand response events
- Works with CTA 2045 DC Form Factor Universal Communication Modules (UCMs)
- 3 LEDs to display device status
  - Communication with UCM
  - Communication with indoor unit
  - Demand response events
- System reset



Appendix

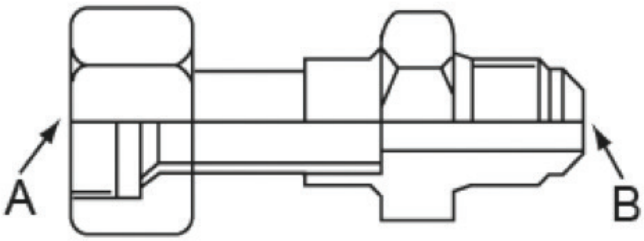
Multi-zone efficiency ratings

Outdoor unit	Config.	SEER2	EER2	HSPF2
MXZ-2D20NL	Ducted	16	10	9.1
	Mixed	18	11.5	9.55
	NonDucted	20	13	10
MXZ-2D20NLHZ	Ducted	14.3	11.1	7.9
	Mixed	16.8	12.3	8.95
	NonDucted	19.3	13.5	10
MXZ-3D24NL	Ducted	16	11.7	8.6
	Mixed	18	12.7	9.3
	NonDucted	20	13.7	10
MXZ-3D24NLHZ	Ducted	14.4	10	8
	Mixed	17.2	11.5	9
	NonDucted	20	13	10
MXZ-3D30NLHZ	Ducted	16	10.3	8
	Mixed	18	10.9	9
	NonDucted	20	11.5	10
MXZ-4D30NL	Ducted	16.1	9.6	8.8
	Mixed	18.55	11.3	9.4
	NonDucted	21	13	10
MXZ-5D36NL	Ducted	16.2	8.8	8.3
	Mixed	17.7	10.4	8.8
	NonDucted	19.2	12	9.3

Outdoor unit	Config.	SEER2	EER2	HSPF2
MXZ-5D42NL	Ducted	15.6	9	8
	Mixed	17.45	9.15	8.55
	NonDucted	19.3	9.3	9.1
MXZ-SM36NL	Ducted	18.2	10	10
	Mixed	20.6	12.05	10.5
	NonDucted	23	14.1	11
MXZ-SM36NLHZ	Ducted	17.7	10.9	10.5
	Mixed	20.35	12.7	11.25
	NonDucted	23	14.5	12
MXZ-SM42NLHZ	Ducted	17.5	10.4	10
	Mixed	19.5	11.9	10.55
	NonDucted	21.5	13.4	11.1
MXZ-SM48NL	Ducted	17	8.4	9.5
	Mixed	20	10.2	9.95
	NonDucted	23	12	10.4
MXZ-SM48NLHZ	Ducted	18	10	10
	Mixed	20.5	11.55	10.75
	NonDucted	23	13.1	11.5
MXZ-SM60NL	Ducted	16.4	9.4	9.5
	Mixed	18.2	10.7	10
	NonDucted	20	12	10.5

Port adapters parts numbers

Model	Diameter A (in.)	Diameter B (in.)
MAC-A454JP-E	3/8	1/2
MAC-A455JP-E	1/2	3/8
MAC-A456JP-E	1/2	5/8
PAC-5G76RJ-E	3/8	5/8
ADP5834	5/8	3/4
PAC-493PI	1/4	3/8



Diameter A = Female

Diameter B = Male

Piping installation terminology

Maximum piping length

This is the maximum allowable length of the refrigerant piping. The amount of refrigerant pipe used cannot be longer than the length specified.

- Outdoor unit - indoor unit
  The maximum allowable length of the refrigerant piping between the outdoor unit and indoor units installed when multiple units are connected to a single outdoor unit. This distance limitation refers to the maximum length between the outdoor unit and the farthest indoor unit.

Pipe length difference from distribution pipe

The maximum allowable difference in refrigerant piping length from the distribution pipe to the farthest indoor unit and, from the distribution pipe to the closest indoor unit when multiple indoor units are connected to a single outdoor unit using a distribution pipe.

- Indoor unit - distribution pipe
  The maximum allowable length of the refrigerant piping between indoor units and the distribution pipe when multiple indoor units are connected to a single outdoor unit.

Maximum height difference

This is the maximum allowable height difference. It is necessary to install the air-conditioning system so that the height distance is no more than the difference specified. (Specified differences may vary if the outdoor unit is installed higher or lower than the indoor units).

- Outdoor unit - indoor unit
  The maximum allowable difference in height between the outdoor unit and indoor units when installed (when multiple indoor units are connected to a single outdoor unit, this distance limitation refers to the maximum height difference between the outdoor unit and an indoor unit).
- Indoor unit - indoor unit
  The maximum allowable difference between the heights of indoor units when multiple indoor units are connected to a single outdoor unit.

Maximum number of bends

This is the maximum allowable number of bends in the refrigerant piping. The total number of bends in the refrigerant piping used cannot exceed the number specified.

- Outdoor unit - indoor unit
  The maximum allowable number of bends between the outdoor unit and each indoor unit when multiple indoor units are connected to a single outdoor unit.

Piping installation

M-Series: Single type

Series	Outdoor unit class	Max. piping length (ft.)	Max. height difference (ft.)	Max. number of bends
		Total length (A)	Outdoor unit - indoor unit (H)	
MUZ-FX	06/09/12	65	40	10
	15/18/24	100	50	10
MUZ-GX	09/12/15	65	40	10
	18/24	100	50	10
	30/36	100	50	10
MUZ-HX	09/12/18	65	40	10
	24	100	50	10
MUZ-WX	09/12/18/24	65	40	10
MUZ-JX	09/12	65	40	10
SUZ Standard	09/12/15	65	40	10
	18	100	50	10
	24/30/36	100	100	10
SUZ Hyper-heating	09/12/15	65	40	10
	18	100	50	10
	24	165	100	15
	30/36	245	100	15

P-Series: Single type

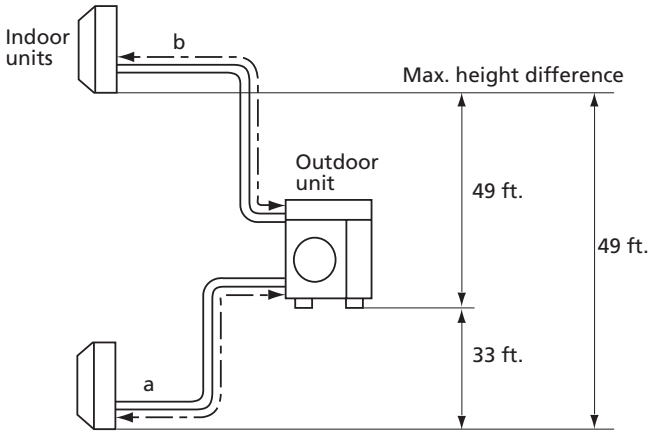
Series	Outdoor unit class	Max. piping length (ft.)	Max. height difference (ft.)	Max. number of bends
		Total length (A)	Outdoor unit - indoor unit (H)	
PUY Cooling only	12/18	165	100	15
	24/30/36/42	225	100	15
	48	245	100	15
PUZ Standard	12/18	100	100	15
	24/30/36/42	165	100	15
	48	245	100	15
PUZ Hyper-heating	24	165	100	15
	30/36/42/48	245	100	15

MXZ-D piping lengths

MXZ-2D20NLHZ

Maximum piping length (ft.)	
Outdoor unit - indoor unit (a,b)	82
Total length (a+b)	164

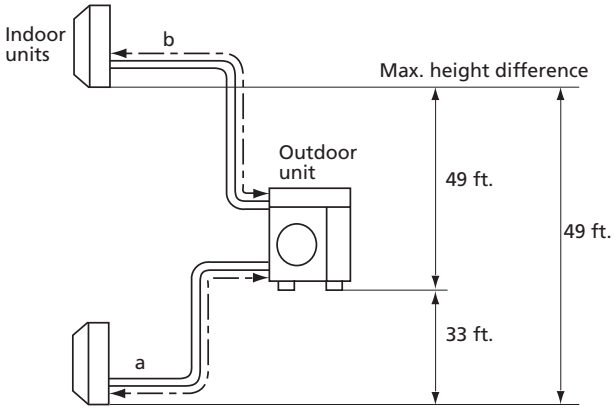
Maximum number of bends	
Outdoor unit - indoor unit (a,b)	25
Total length (a+b)	50



MXZ-2D20NLHZ

Maximum piping length (ft.)	
Outdoor unit - indoor unit (a,b)	82
Total length (a+b)	164

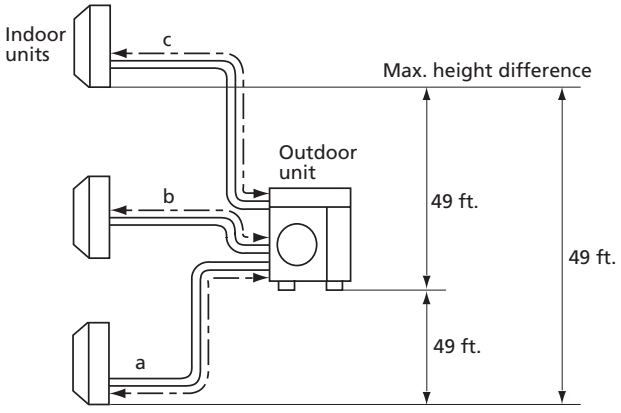
Maximum number of bends	
Outdoor unit - indoor unit (a,b)	25
Total length (a+b)	50



MXZ-3D24NL, MXZ-3D24NLHZ, MXZ-3D30NlHZ

Maximum piping length (ft.)	
Outdoor unit - indoor unit (a,b)	82
Total Length (a+b)	230

Maximum number of bends	
Outdoor unit - indoor unit (a,b)	25
Total length (a+b)	70

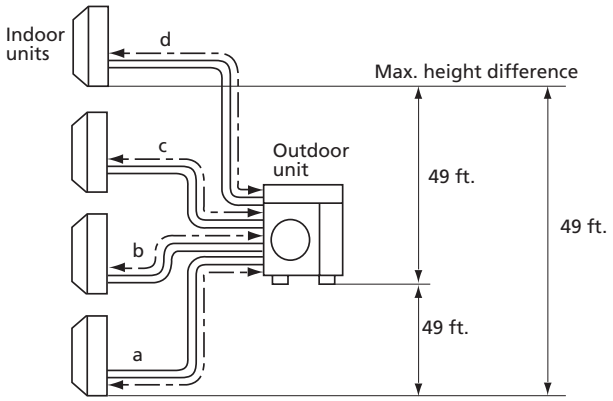


MXZ-D piping lengths

MXZ-4D30NL

Maximum piping length (ft.)	
Outdoor unit - indoor unit (a, b, c, d)	82
Total length (a+b+c+d)	230

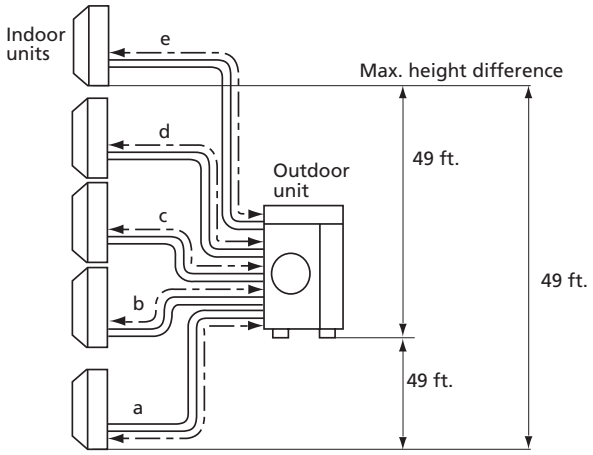
Maximum number of bends	
Outdoor unit - indoor unit (a, b, c, d)	25
Total length (a+b+c+d)	70



MXZ-5D36NL

Maximum piping length (ft.)	
Outdoor unit - indoor unit (a,b, c, d, e)	82
Total length (a+b+c+d+e)	230

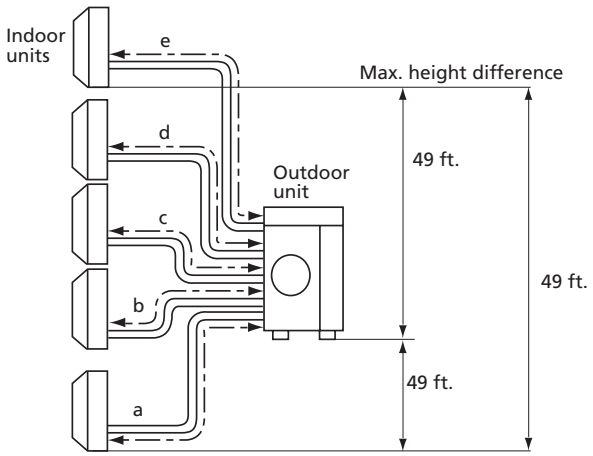
Maximum number of bends	
Outdoor unit - indoor unit (a, b, c, d, e)	25
Total length (a+b+c+d+e)	70



MXZ-5D42NL

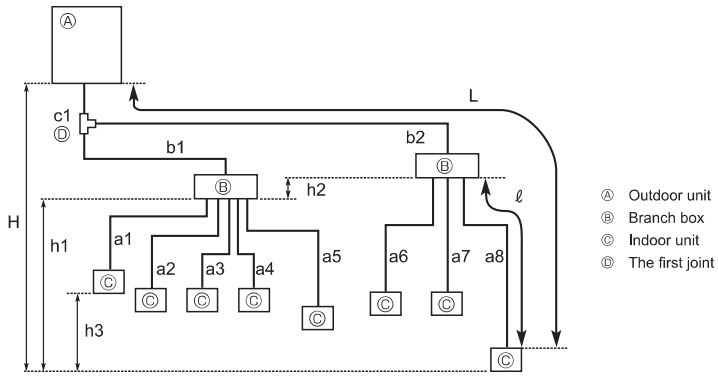
Maximum piping length (ft.)	
Outdoor unit - indoor unit (a, b, c, d, e)	82
Total length (a+b+c+d+e)	262

Maximum number of bends	
Outdoor unit - indoor unit (a, b, c, d, e)	25
Total length (a+b+c+d+e)	80



MXZ-SM piping lengths

MXZ-SM36NL, MXZ-SM48NL, MXZ-SM60NL, MXZ-SM36NLHZ, MXZ-SM42NLHZ, MXZ-SM48NLHZ



Permissible length (one-way)	Total piping length	c1 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≤ 150 m (492 ft.)
	Farthest piping length (l)[1]	c1 + b2 + a8 ≤ 80 m (262 ft.)
	Piping length between outdoor unit and branch boxes	c1 + b1 + b2 ≤ 55 m (180 ft.)
	Farthest branch box from the first joint (b2)	b2 ≤ 30 m (98 ft.)
	Farthest piping length after branch box (l)	a8 ≤ 25 m (82 ft.)
	Total piping length between branch boxes and indoor units	a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 ≤ 95 m (311 ft.)
Permissible height difference (one-way)	In indoor/outdoor section (h)[2]	H ≤ 50 m (164 ft.) (In case of outdoor unit is set higher than indoor unit)
	In branch box/indoor unit section (h1)	H ≤ 40 m (131 ft.) (In case of outdoor unit is set lower than indoor unit)
	In each branch unit (h2)	h1 + h2 ≤ 15 m (49 ft.)
	In each indoor unit (h3)	h2 ≤ 15 m (49 ft.)
Number of bends		h3 ≤ 12 m (39 ft.)
		| c1 + b1 + a1 |, | c1 + b1 + a2 |, | c1 + b1 + a3 |, | c1 + b1 + a4 |, | c1 + b1 + a5 |, | c1 + b2 + a6 |, | c1 + b2 + a7 |, | c1 + b2 + a8 | ≤ 15

1 The piping specification table does not provide a minimum line set length. However, indoor units with connected piping length less than 16 ft. (5m) could produce intermittent noise during normal system operation in very quiet environments. Please be aware of this important information when installing and locating the indoor unit within the conditioned space.
2 The branch box should be placed within the level between the outdoor unit and indoor units.

Conditions for specifications

Cooling	Indoor	D.B. 80° F (27° C), W.B. 67° F (19° C)
	Outdoor	D.B. 95° F (35° C), W.B. 75° F (24° C)
Heating	Indoor	D.B. 70° F (21° C), W.B. 60° F (16° C)
	Outdoor	D.B. 17° F (-8° C), W.B. 15° F (-9° C)

Temperature conditions are based on AHRI 210/240.

Refrigerant piping length: 16ft. The figures for total input are based on the following voltages.

Series	Indoor Unit	Outdoor Unit
M-Series P-Series MXZ-SM	–	208/230 V single phase 60Hz

The sound pressure measurement is conducted in an anechoic chamber. The actual sound level depends on the distance from the unit and the acoustic environment.

P-Series air outlet coverage range

Indoor unit	Airflow (CFM)	Air speed (ft./sec.)	Coverage range (ft.)
PCA-AK24NL	670	10.20	32.00
PCA-AK30NL	705	10.50	33.00
PCA-AK36NL	990	11.80	41.00
PCA-AK42NL	1,025	12.10	42.00
PKA-AL12NL	385	16.00	30.00
PKA-AL18NL	450	19.00	35.00
PKA-AK24NL	775	19.70	47.00
PKA-AK30NL	775	19.70	47.00
PKA-AK36NL	920	22.30	53.00
PLA-AE12NL	530	7.80	13.00
PLA-AE18NL	600	8.80	14.00
PLA-AE24NL	810	11.90	19.00
PLA-AE30NL	880	12.90	21.00
PLA-AE36NL	1,200	17.60	28.00
PLA-AE42NL	1,200	17.60	28.00
PLA-AE48NL	1,200	17.60	28.00

M-Series air outlet coverage range

Indoor unit	Mode	Function	Airflow (CFM)	Air speed (ft./sec.)	Coverage range (ft.)
MLZ-KX06NL	Heat	Dry	212	14.60	17.60
	Heat	Dry	325	13.60	21.70
MFZ-KX09NL	Heat	Dry	417	20.30	29.60
	Cool	Wet	354	17.20	25.30
MFZ-KX12NL	Heat	Dry	417	20.30	29.60
	Cool	Wet	354	17.20	25.30
MFZ-KX15NL	Heat	Dry	470	22.90	33.30
	Cool	Wet	366	17.80	26.20
MFZ-KX18NL	Heat	Dry	470	22.90	33.30
	Cool	Wet	417	20.30	29.70
MLZ-KX12NL	Heat	Dry	350	14.60	23.30
	Heat	Dry	417	17.50	27.60
MSY-GX09NL	Cool	Wet	403	20.40	29.20
MSY-GX12NL	Cool	Wet	403	20.40	29.20
MSY-GX15NL	Cool	Wet	528	26.70	38.00
MSY-GX18NL	Cool	Wet	585	29.60	42.00
MSY-GX24NL	Cool	Wet	688	34.80	49.10
MSY-GX30NL	Cool	Wet	688	34.80	49.10
MSY-GX36NL	Cool	Wet	688	34.80	49.10
MSZ-EX09NL (B, S, W)	Heat	Dry	448	20.70	31.00
	Cool	Wet	352	16.30	24.50
MSZ-EX12NL (B, S, W)	Heat	Dry	479	22.20	33.10
MSZ-EX15NL (B, S, W)	Heat	Dry	479	22.20	33.10
MSZ-EX18NL (B, S, W)	Heat	Dry	497	23.00	34.30
MSZ-FX06NL	Heat	Dry	477	20.50	31.80
	Cool	Wet	357	15.40	24.10
MSZ-FX09NL	Heat	Dry	477	20.50	31.80
	Cool	Wet	447	19.30	29.90
MSZ-FX12NL	Heat	Dry	477	20.50	31.80
	Cool	Wet	447	19.30	29.90
MSZ-FX15NL	Heat	Dry	614	26.50	40.70
	Cool	Wet	504	21.70	33.60
MSZ-FX18NL	Heat	Dry	614	26.50	40.70
	Cool	Wet	504	21.70	33.60
MSZ-FX24NL	Heat	Dry	749	32.20	49.30
	Cool	Wet	612	26.40	40.60
MSZ-GX06NL	Heat	Dry	459	23.20	33.20
	Cool	Wet	403	20.40	29.20
MSZ-GX09NL	Heat	Dry	448	22.60	32.40
	Cool	Wet	403	20.40	29.20

Indoor unit	Mode	Function	Airflow (CFM)	Air speed (ft./sec.)	Coverage range (ft.)
MSZ-GX12NL	Heat	Dry	448	22.60	32.40
	Cool	Wet	403	20.40	29.20
MSZ-GX15NL	Heat	Dry	516	26.10	37.20
	Cool	Wet	528	26.70	38.00
MSZ-GX18NL	Heat	Dry	672	28.10	43.70
	Cool	Wet	585	29.60	42.00
MSZ-GX24NL	Heat	Dry	765	32.00	49.60
	Cool	Wet	688	34.80	49.10
MSZ-GX30NL	Heat	Dry	765	32.00	49.60
	Cool	Wet	688	34.80	49.10
MSZ-GX36NL	Heat	Dry	765	32.00	49.60
	Cool	Wet	688	34.80	49.10
MSZ-HX09NL	Heat	Dry	390	18.30	27.30
	Cool	Wet	342	16.00	24.00
MSZ-HX12NL	Heat	Dry	401	18.80	28.00
	Cool	Wet	428	20.00	29.80
MSZ-HX18NL	Heat	Dry	621	28.50	42.40
	Cool	Wet	559	25.60	38.30
MSZ-HX24NL	Heat	Dry	720	33.00	49.00
	Cool	Wet	597	27.40	40.80
MSZ-JX09WL	Heat	Dry	384	18.00	26.90
	Cool	Wet	337	15.80	23.60
MSZ-JX12WL	Heat	Dry	395	18.50	27.60
	Cool	Wet	422	19.70	29.40
MSZ-WX09NL	Heat	Dry	391	18.30	27.40
	Cool	Wet	343	16.10	24.10
MSZ-WX12NL	Heat	Dry	391	18.30	27.40
	Cool	Wet	343	16.10	24.10
MSZ-WX18NL	Heat	Dry	453	21.20	31.50
	Cool	Wet	426	19.90	29.70
MSZ-WX24NL	Heat	Dry	698	32.00	47.50
	Cool	Wet	560	25.70	38.30
SLZ-AF09NL	Heat	Dry	300	19.70	15.10
	Cool	Dry	300	19.70	15.10
SLZ-AF12NL	Heat	Dry	335	22.00	16.90
	Cool	Dry	335	22.00	16.90
SLZ-AF15NL	Heat	Dry	405	26.70	20.30
	Cool	Dry	405	26.70	20.30
SLZ-AF18NL	Heat	Dry	475	31.30	23.70
	Cool	Dry	475	31.30	23.70

Points to remember when installing outdoor units

Drainage water considerations

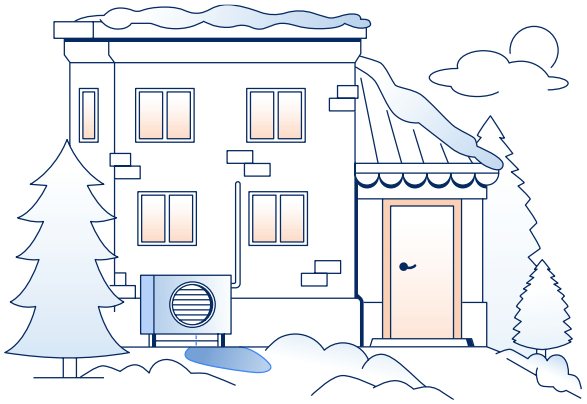
Case 1: Unit is installed close to passage

Avoid placing units near walkways. Drainage water can freeze and create a slipping hazard.



Poor installation

- Frozen drainage water can cause slip hazards.



Good installation

- Mount at a sufficient height to prevent issues caused by frozen drainage
- Choose a location where drainage won't create hazards
- Keep the unit upright to ensure proper drainage

Case 2: Multiple units are installed

Do not stack units. Drainage from the upper unit may freeze on the lower one.



Poor installation

Bottom unit may freeze over

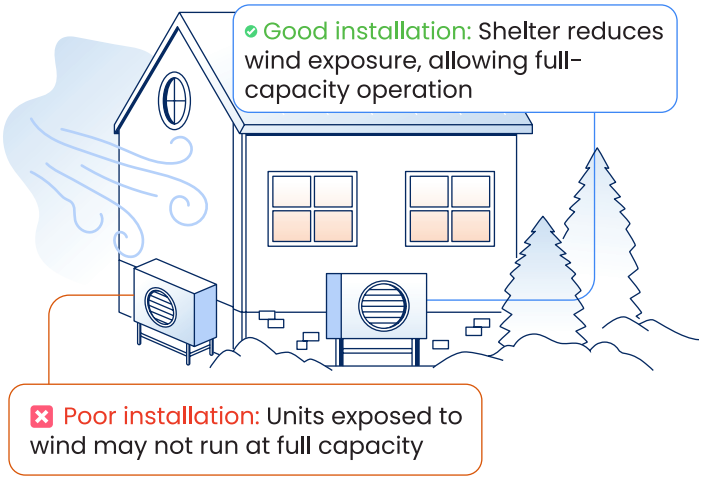


Good installation

Place units side by side

Installation location

Be mindful of prevailing winter winds. Install the unit in a sheltered location to maintain performance.



Considerations for snow

Do not install the unit on the ground

To prevent performance issues caused by snow or frozen drainage, install the unit on a stand to elevate it safely above ground level.



Poor installation

- Unit may become buried due to snowdrift, heavy snowfall, or snow sliding off the roof



Poor installation

- Unit may be damaged due to snowfall or icicles



Good installation

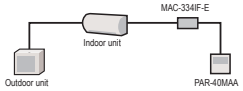
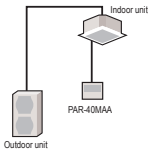
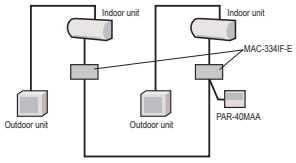
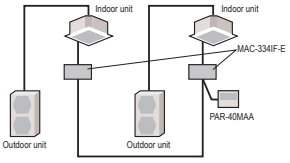
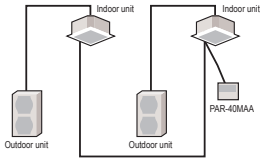
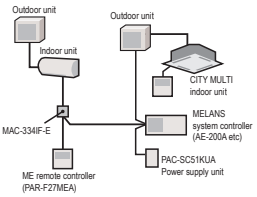
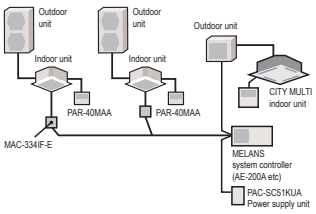
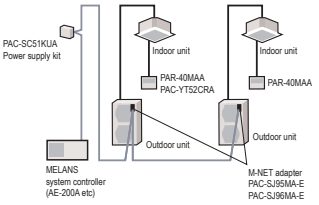
- Install at a height that prevents burial by snow and protects against frozen drainage[1]
- Choose a location that avoids roof runoff, snowdrift, or icicle impact[2]

1. Install at a height above the highest snowfall depth.
2. Even for correct installations, dripping drainage water may form an icicle which needs to be cleared away regularly to prevent a blocked drainage outlet.

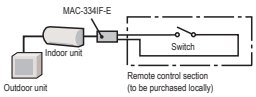
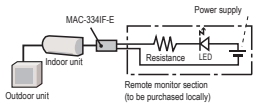
Recommended accessories for cold climates

Accessories	Countermeasures for snow	Countermeasures for freezing temps	Comments
Drain Socket, Centralized Drain Pan	Not Used	Not Used	• In cold or snowy climates, drainage may freeze in the a or hose, preventing proper operation. • Don't attach a drain socket as an accessory - it may become blocked by ice.
Stand	Needed	Reccomended	• Raise unit above highest expected snow depth • Prevent damage from icicles and ensure proper drainage
Snow Protection Hood*	Needed	Reccomended	• Shields heat exchanger from snow • Reduces snow buildup inside the unit • Compatible models vary. Contact Mitsubishi Electric Trane HVAC US or your local dealer for availability and installation guidance.
Base Heater	Reccomended	Needed	• Strongly recommended in cold regions and areas with high winter humidity

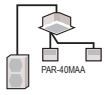
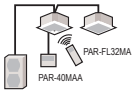
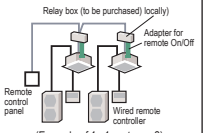
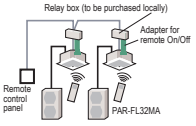
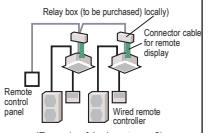
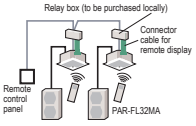
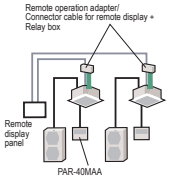
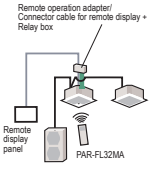
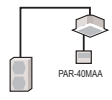
System control options

	System examples		
Indoor Unit	M-Series Indoor Unit	S- and P-Series Indoor Unit	P-Series Indoor Unit
Outdoor Unit	M-Series and MXZ Series Outdoor	S-Series and MXZ Series Outdoor	P-Series Outdoor
PAR-40MAA control **PAR-42MAAUB control**			
Details	• Wired remote controller can be connected to indoor unit	Standard equipment (for indoor units compatible with wired remote controllers)	
Major optional parts required	• MAC-334IF-E (Interface) • PAR-40MAA (Wired remote controller)	• PAR-40MAA (Wired remote controller)	
System group control	 		
Details	• One remote controller can control plural air conditioners with the same settings simultaneously. • One remote controller can control up to 16 refrigerant systems. (When connected to a MXZ unit, MAC-334IF-E is counted as one system.) • Up to two remote controller can be connected.		
Major optional parts required	• MAC-334IF-E (Interface) • PAR-40MAA (Wired remote controller)		• PAR-40MAA (Wired remote controller)
M-NET connections			
Details	• Group of air conditioners can be controlled by MELANS system controller (M-NET). Note: When connecting to M-NET, the reduction control for the power failure automatic recovery does not operate and it will take 3 minutes to restart.		
Major optional parts required	• MAC-334IF-E (M-NET Interface) • MELANS System controller • PAC-SC51KUA (power supply unit)		• PAC-SJ19MA-E/PAC-SF83M/PAC-SJ95MA-E/ PAC-SJ96MA-E (M-NET converter) • MELANS System controller • PAC-SC51KUA (power supply unit)

For M-Series indoor units (new A-control models only)

	System examples	Connection details	Control details	Major optional parts required
1 Remote On/Off Operation • Air conditioner can be started/stopped remotely. (1 and 2 can be used in combination)		Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	On/Off operation is possible from a remote location.	• MAC-334IF-E (Interface) • Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)
2 Remote Display of Operation Status • The On/Off status of air conditioners can be confirmed remotely. (1 and 2 can be used in combination)		Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	The operation status (On/Off) or error signals can be monitored from a remote location.	• MAC-334IF-E (Interface) • Parts for circuit to be purchased locally (DC power source needed) • External power source (12V DC) is required when using MAC-334IF-E.

For P-Series and S-Series indoor units

	System examples		Details	Major optional parts required
	Wired remote controller	Wireless remote controller		
A 2-remote Controller Control With two remote controllers, control can be performed locally and remotely from two locations.	 * Set "Main" and "Sub" remote controllers. (Example of 1 : 1 system)	 * When using wired and wireless remote controllers (Example of Simultaneous Twin)	• Up to two remote controllers can be connected to one group. • Both wired and wireless remote controllers can be used in combination.	• Wired Remote Controller PAR-40MAA • Wireless Remote Controller PAR-FL32MA • Wireless Remote Controller Kit for PCA PAR-SL93B-E
B Operation Control by Level Signal Air conditioner can be started/stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permitted.	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 system x 2)	• Operation other than On/Off (e.g., adjustment of temperature, fan speed, and airflow) can be performed even when remote controller operation is prohibited. • Timer control is possible with an external timer.	• Adapter for remote On/Off PAC-SE55RA-E • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
C Operation Control by Pulse Signal	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 system x 2)	• The pulse signal can be turned On/Off. • Operation/emergency signal can be received at a remote location.	• Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E) • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
D Remote Display of Operating Status Operating status can be displayed at a remote location.	 (Example of 1 : 1 system)	 (Example of Simultaneous Twin)	• Operation/emergency signal can be received at a remote location (when channeled through the PAC-SF40RM-E → no-voltage signal, when channeled through the PAC-SA88HA-E DC 12V• signal).	• Remote display panel (to be purchased locally) • Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E) • Relay box (to be purchased locally) • Remote operation adapter PAC-SF40RM-E *Unable to use with wireless remote controller
E Timer Operation Allows On/Off operation with timer *For control by an external timer, refer to B Operation Control by Level Signal.	 (Example of 1 : 1 system)		• Weekly Timer: On/Off and up to 8 pattern temperatures can be set for each calendar day. (Initial setting) • On/Off Timer: On/Off can be set once each within 72 hr in intervals of 5-minute units. • Auto-off Timer: Operation will be switched off after a certain time elapse. Set time can be changed from 30 min. to 4 hr. at 10 min. intervals. *Simple Timer and Auto-off Timer cannot be used at the same time.	Standard functions of PAR-40MAA

M-Series heating capacity (BTU/H)

Indoor unit	Outdoor unit	Outdoor temperature							
		47°F	17°F	5°F	-4°F	-5°F	-10°F	-13°F	-22°F
MFZ-KX09NL	SUZ-AA09NL	13,000	7,700	6,200	5,200	–	–	–	–
	SUZ-AA09NLHZ	15,000	12,000	12,000	–	–	–	7,300	–
MFZ-KX12NL	SUZ-AA12NL	15,000	9,700	7,800	6,600	–	–	–	–
	SUZ-AA12NLHZ	18,000	15,000	15,000	–	–	–	9,000	–
MFZ-KX15NL	SUZ-AA15NL	20,400	10,900	9,800	8,300	–	–	–	–
	SUZ-AA15NLHZ	19,000	17,000	17,000	–	–	–	10,300	–
MFZ-KX18NL	SUZ-AA18NL	22,500	13,400	10,700	8,600	–	–	–	–
	SUZ-AA18NLHZ	22,500	20,000	20,000	–	–	–	12,100	–
MLZ-KX09NL	SUZ-AA09NL	13,000	7,800	6,300	5,300	–	–	–	–
	SUZ-AA09NLHZ	14,500	11,400	11,400	–	–	–	6,900	–
MLZ-KX12NL	SUZ-AA12NL	14,600	9,600	7,700	6,400	–	–	–	–
	SUZ-AA12NLHZ	18,000	15,000	15,000	–	–	–	9,000	–
MLZ-KX18NL	SUZ-AA18NL	21,000	12,600	10,000	8,100	–	–	–	–
	SUZ-AA18NLHZ	21,000	18,400	18,400	–	–	–	11,100	–
MSZ-EX09NL (B, S, W)	SUZ-AA09NL	13,000	7,700	6,200	5,200	–	–	–	–
	SUZ-AA09NLHZ	15,000	12,000	12,000	–	–	–	7,300	–
MSZ-EX12NL (B, S, W)	SUZ-AA12NL	15,000	9,600	7,800	6,500	–	–	–	–
	SUZ-AA12NLHZ	18,000	15,000	15,000	–	–	–	9,100	–
MSZ-EX15NL (B, S, W)	SUZ-AA15NL	20,000	11,100	9,900	8,500	–	–	–	–
	SUZ-AA15NLHZ	19,300	17,000	17,000	–	–	–	10,200	–
MSZ-EX18NL (B, S, W)	SUZ-AA18NL	21,700	13,100	10,600	8,600	–	–	–	–
	SUZ-AA18NLHZ	21,700	20,000	20,000	–	–	–	12,100	–
MSZ-FX06NL	MUZ-FX06NLHZ	20,000	14,400	12,600	–	10,500	9,000	–	7,400
MSZ-FX09NL	MUZ-FX09NLHZ	21,300	16,300	14,700	–	14,500	12,000	–	8,700
MSZ-FX12NL	MUZ-FX12NLHZ	23,500	18,200	16,200	–	14,500	13,200	–	8,700
MSZ-FX15NL	MUZ-FX15NLHZ	28,400	26,500	22,200	–	19,800	16,500	–	9,400
MSZ-FX18NL	MUZ-FX18NLHZ	30,200	28,200	23,600	–	19,800	17,500	–	9,400
MSZ-FX24NL	MUZ-FX24NLHZ	36,200	29,200	26,600	–	22,400	19,800	–	11,700
MSZ-GX09NL	MUZ-GX09NL	15,900	10,200	8,100	–	6,180	5,330	–	–
	MUZ-GX09NLHZ	15,900	11,500	9,600	–	8,180	7,450	–	5,150
MSZ-GX12NL	MUZ-GX12NL	18,100	12,000	10,100	–	7,700	6,780	–	–
	MUZ-GX12NLHZ	19,100	16,000	12,300	–	9,540	8,160	–	4,020
MSZ-GX15NL	MUZ-GX15NL	21,000	16,400	13,700	–	13,160	12,220	–	–
	MUZ-GX15NLHZ	21,000	16,800	14,000	–	11,910	10,870	–	7,730
MSZ-GX18NL	MUZ-GX18NL	27,400	18,200	15,200	–	11,720	10,330	–	–
	MUZ-GX18NLHZ	27,400	22,400	19,000	–	16,460	15,150	–	10,700
MSZ-GX24NL	MUZ-GX24NL	32,000	24,600	19,400	–	17,100	15,140	–	–
	MUZ-GX24NLHZ	32,000	25,400	21,200	–	18,070	16,410	–	11,380
MSZ-GX30NL	MUZ-GX30NL	34,000	26,000	20,000	–	17,940	16,000	–	–
MSZ-GX36NL	MUZ-GX36NL	36,000	26,400	20,600	–	18,600	16,680	–	–

Indoor unit	Outdoor unit	Outdoor temperature							
		47°F	17°F	5°F	-4°F	-5°F	-10°F	-13°F	-22°F
MSZ-HX09NL	MUZ-HX09NL	13,000	7,200	7,700	–	6,420	–	–	–
MSZ-HX12NL	MUZ-HX12NL	15,500	9,000	8,600	–	8,300	–	–	–
MSZ-HX18NL	MUZ-HX18NL	20,800	15,000	12,600	–	10,810	–	–	–
MSZ-HX24NL	MUZ-HX24NL	26,000	18,500	18,200	–	17,980	–	–	–
MSZ-JX09WL	MUZ-JX09WL	13,000	7,200	7,700	–	6,740	–	–	–
MSZ-JX12WL	MUZ-JX12WL	15,500	9,000	8,600	–	8,300	–	–	–
MSZ-WX09NL	MUZ-WX09NL	11,800	7,200	–	–	–	–	–	–
MSZ-WX12NL	MUZ-WX12NL	14,500	9,000	–	–	–	–	–	–
MSZ-WX18NL	MUZ-WX18NL	20,800	15,000	–	–	–	–	–	–
MSZ-WX24NL	MUZ-WX24NL	26,000	17,800	–	–	–	–	–	–
SEZ-AD09NL	SUZ-AA09NL	12,800	7,900	6,400	5,300	–	–	–	–
	SUZ-AA09NLHZ	14,000	12,000	12,000	–	–	–	7,300	–
SEZ-AD12NL	SUZ-AA12NL	15,000	9,700	7,800	6,500	–	–	–	–
	SUZ-AA12NLHZ	18,000	15,000	15,000	–	–	–	9,000	–
SEZ-AD15NL	SUZ-AA15NL	20,600	10,200	9,700	8,300	–	–	–	–
	SUZ-AA15NLHZ	20,000	18,000	18,000	–	–	–	10,900	–
SEZ-AD18NL	SUZ-AA18NL	23,500	13,100	10,500	8,500	–	–	–	–
	SUZ-AA18NLHZ	23,500	20,000	20,000	–	–	–	12,100	–
SLZ-AF09NL	SUZ-AA09NL	12,800	7,800	6,300	5,300	–	–	–	–
	SUZ-AA09NLHZ	14,600	12,000	12,000	–	–	–	7,300	–
SLZ-AF12NL	SUZ-AA12NL	15,000	9,800	7,900	6,600	–	–	–	–
	SUZ-AA12NLHZ	16,900	15,000	15,000	–	–	–	9,000	–
SLZ-AF15NL	SUZ-AA15NL	19,600	11,300	9,600	8,200	–	–	–	–
	SUZ-AA15NLHZ	19,000	17,000	17,000	–	–	–	10,300	–
SLZ-AF18NL	SUZ-AA18NL	21,800	13,200	10,400	8,400	–	–	–	–
	SUZ-AA18NLHZ	21,800	20,000	20,000	–	–	–	12,100	–
SVZ-AP12NL	SUZ-AA12NL	15,100	9,700	7,800	6,500	–	–	–	–
	SUZ-AA12NLHZ	18,000	15,000	15,000	–	–	–	9,100	–
SVZ-AP18NL	SUZ-AA18NL	23,800	12,800	10,200	8,200	–	–	–	–
	SUZ-AA18NLHZ	23,800	20,000	20,000	–	–	–	12,100	–
SVZ-AP24NL	SUZ-AA24NL	28,000	17,100	14,000	11,300	–	–	–	–
	SUZ-AK24NLHZ	28,000	23,000	23,000	–	–	–	17,200	–
SVZ-AP30NL	SUZ-AA30NL	32,000	18,600	16,700	13,500	–	–	–	–
	SUZ-AK30NLHZ	34,000	32,000	32,000	–	–	–	21,300	–
SVZ-AP36NL	SUZ-AA36NL	36,200	20,900	18,800	15,200	–	–	–	–
	SUZ-AK36NLHZ	40,000	37,000	37,000	–	–	–	30,400	–
SVZ-AP48NL	SUZ-AK48NL	60,000	38,000	30,800	27,000	–	–	–	–
	SUZ-AK48NLHZ	60,000	52,000	52,000	–	–	–	24,732	–
SVZ-AP60NL	SUZ-AK60NL	67,000	42,500	34,600	31,000	–	–	–	–

P-Series heating capacity (BTU/H)

Indoor unit	Outdoor unit	Outdoor temperature				
		47°F	17°F	5°F	-4°F	-13°F
PCA-AK24NL	PUZ-AH24NL	30,800	15,300	11,600	10,400	–
	PUZ-AK24NLHZ	28,000	26,000	26,000	–	18,500
PCA-AK30NL	PUZ-AH30NL	34,200	18,700	12,900	11,600	–
	PUZ-AK30NLHZ	35,000	32,000	32,000	–	21,700
PCA-AK36NL	PUZ-AK36NL	40,000	23,200	20,000	17,600	–
	PUZ-AK36NLHZ	40,000	38,000	38,000	–	31,200
PCA-AK42NL	PUZ-AK42NL	49,400	29,600	25,400	22,400	–
	PUZ-AK42NLHZ	54,000	48,000	48,000	–	36,500
PEAD-AA09NL	SUZ-AA09NL	13,000	7,800	6,200	5,200	–
	SUZ-AA09NLHZ	14,700	12,000	12,000	–	7,300
PEAD-AA12NL	PUZ-AK12NL	18,000	9,200	7,900	7,000	–
	SUZ-AA12NL	15,000	9,700	7,800	6,500	–
	SUZ-AA12NLHZ	18,000	15,000	15,000	–	9,000
PEAD-AA15NL	SUZ-AA15NL	20,900	10,400	9,600	8,200	–
	SUZ-AA15NLHZ	20,400	18,000	18,000	–	11,000
PEAD-AA18NL	PUZ-AK18NL	22,000	11,600	9,100	8,000	–
	SUZ-AA18NL	23,500	13,100	10,500	8,500	–
	SUZ-AA18NLHZ	23,500	20,000	20,000	–	12,100
PEAD-AA24NL	PUZ-AH24NL	31,400	15,300	11,500	10,300	–
	PUZ-AK24NLHZ	28,000	25,000	25,000	–	17,700
	SUZ-AA24NL	28,200	17,100	13,900	11,200	–
	SUZ-AK24NLHZ	28,000	25,000	25,000	–	17,700
PEAD-AA30NL	PUZ-AH30NL	34,400	18,000	12,900	11,500	–
	PUZ-AK30NLHZ	34,000	32,000	32,000	–	21,300
	SUZ-AA30NL	31,400	18,700	17,000	13,700	–
	SUZ-AK30NLHZ	34,000	32,000	32,000	–	21,300
PEAD-AA36NL	PUZ-AK36NL	40,000	23,400	20,000	17,600	–
	PUZ-AK36NLHZ	40,000	38,000	38,000	–	31,000
	SUZ-AA36NL	36,000	21,000	18,900	15,300	–
	SUZ-AK36NLHZ	40,000	38,000	38,000	–	31,000
PEAD-AA42NL	PUZ-AK42NL	49,700	29,600	25,400	22,400	–
	PUZ-AK42NLHZ	54,000	48,000	48,000	–	36,200
PKA-AL12NL	PUZ-AK12NL	18,000	9,400	8,000	7,100	–
PKA-AL18NL	PUZ-AK18NL	23,600	11,700	9,200	8,900	–
PKA-AK24NL	PUZ-AH24NL	31,000	15,300	11,600	10,400	–
	PUZ-AK24NLHZ	28,000	26,000	26,000	–	18,500
PKA-AK30NL	PUZ-AH30NL	34,400	18,700	12,900	11,500	–
	PUZ-AK30NLHZ	34,000	32,000	32,000	–	21,400
PKA-AK36NL	PUZ-AK36NL	40,000	23,200	20,000	17,600	–
	PUZ-AK36NLHZ	40,000	38,000	38,000	–	31,200

1 All capacities in B/TUH

Indoor unit	Outdoor unit	Outdoor temperature				
		47°F	17°F	5°F	-4°F	-13°F
PLA-AE18NL	PUZ-AK18NL	24,000	12,000	9,400	8,800	–
PLA-AE24NL	PUZ-AH24NL	31,600	15,700	11,500	10,300	–
	PUZ-AK24NLHZ	28,000	26,000	26,000	–	18,800
PLA-AE30NL	PUY-AH30NL	–	–	–	–	–
	PUZ-AH30NL	34,600	17,700	12,800	11,500	–
	PUZ-AK30NLHZ	34,000	32,000	32,000	–	26,300
PLA-AE36NL	PUY-AK36NL	–	–	–	–	–
	PUZ-AK36NL	40,000	23,600	20,000	17,600	–
	PUZ-AK36NLHZ	40,000	38,000	38,000	–	32,500
PLA-AE42NL	PUY-AK42NL	–	–	–	–	–
	PUZ-AK42NL	49,600	29,400	25,400	22,400	–
	PUZ-AK42NLHZ	54,000	48,000	48,000	–	36,100
PLA-AE48NL	PUY-AK48NL	–	–	–	–	–
	PUZ-AK48NL	60,000	33,400	23,000	26,700	–
	PUZ-AK48NLHZ	60,000	52,000	52,000	–	39,600
PVA-AA12NL	PUY-AK12NL	–	–	–	–	–
	PUZ-AK12NL	19,000	10,200	8,500	7,500	–
PVA-AA18NL	PUY-AK18NL	–	–	–	–	–
	PUZ-AK18NL	24,000	12,100	9,500	8,800	–
PVA-AA24NL	PUY-AH24NL	–	–	–	–	–
	PUZ-AH24NL	31,800	15,200	11,500	10,300	–
	PUZ-AK24NLHZ	28,000	26,000	26,000	–	18,500
PVA-AA30NL	PUY-AH30NL	–	–	–	–	–
	PUZ-AH30NL	34,400	18,200	12,800	11,500	–
	PUZ-AK30NLHZ	34,000	32,000	32,000	–	21,000
PVA-AA36NL	PUY-AK36NL	–	–	–	–	–
	PUZ-AK36NL	40,000	23,600	20,000	17,600	–
	PUZ-AK36NLHZ	40,000	38,000	38,000	–	30,800
PVA-AA42NL	PUY-AK42NL	–	–	–	–	–
	PUZ-AK42NL	49,700	29,600	25,400	22,400	–
	PUZ-AK42NLHZ	54,000	48,000	48,000	–	36,700
PVA-AA48NL	PUY-AK48NL	–	–	–	–	–
	PUZ-AK48NL	60,000	38,000	30,800	27,000	–
	PUZ-AK48NLHZ	60,000	30,800	52,000	38,400	24,800
PVA-AA60NL	PUY-AK60NL	–	–	–	–	–
	PUZ-AK60NL	67,000	42,500	34,600	31,000	–

1 All capacities in B/TUH

MXZ Ported heating capacity[1]

Outdoor unit	Configuration	Outdoor temperature			
		47°F	17°F	5°F	-13°F
MXZ-2D20NL	Ducted	25,800	15,800	11,800	–
	Mixed	25,750	16,200	12,600	–
	NonDucted	25,700	16,600	13,700	–
MXZ-2D20NLHZ	Ducted	25,500	22,000	22,000	19,200
	Mixed	25,500	22,000	22,000	19,200
	NonDucted	25,500	22,000	22,000	19,200
MXZ-3D24NL	Ducted	30,600	21,000	19,800	–
	Mixed	30,600	21,000	19,800	–
	NonDucted	30,600	21,000	19,800	–
MXZ-3D24NLHZ	Ducted	30,600	24,600	24,600	20,000
	Mixed	30,600	24,800	24,800	20,200
	NonDucted	30,600	25,000	25,000	20,400
MXZ-3D30NLHZ	Ducted	35,000	27,600	27,600	21,800
	Mixed	35,500	28,100	28,000	22,100
	NonDucted	36,000	28,600	28,600	22,400
MXZ-4D30NL	Ducted	36,000	21,000	19,800	–
	Mixed	36,000	21,000	19,800	–
	NonDucted	36,000	21,000	19,800	–
MXZ-5D36NL	Ducted	35,000	26,600	18,400	–
	Mixed	39,000	26,600	21,200	–
	NonDucted	43,000	26,600	24,000	–
MXZ-5D42NL	Ducted	41,000	29,100	20,000	–
	Mixed	47,300	29,800	22,400	–
	NonDucted	53,600	30,500	25,000	–
MXZ-SM36NL	Ducted	41,000	36,000	29,000	18,600
	Mixed	41,000	36,000	29,000	18,600
	NonDucted	41,000	36,000	29,000	18,600

SMART MULTI® heating capacity[1]

Outdoor unit	Configuration	Outdoor temperature			
		47°F	17°F	5°F	-13°F
MXZ-SM36NLHZ	Ducted	42,000	42,000	42,000	42,000
	Mixed	42,000	42,000	42,000	42,000
	NonDucted	42,000	42,000	42,000	42,000
MXZ-SM42NLHZ	Ducted	48,000	48,000	48,000	48,000
	Mixed	48,000	48,000	48,000	48,000
	NonDucted	48,000	48,000	48,000	48,000
MXZ-SM48NL	Ducted	50,000	43,000	35,400	22,800
	Mixed	50,000	43,000	35,400	22,800
	NonDucted	50,000	43,000	35,400	22,800
MXZ-SM48NLHZ	Ducted	54,000	54,000	54,000	54,000
	Mixed	54,000	54,000	54,000	54,000
	NonDucted	54,000	54,000	54,000	54,000
MXZ-SM60NL	Ducted	66,000	65,000	46,500	30,000
	Mixed	66,000	65,000	46,500	30,000
	NonDucted	66,000	65,000	46,500	30,000

Model number reference guides

M-Series outdoor units

M	U	Z	GX	09	N	L	H	Z	
Family	Type	Application	System series	Capacity	Input voltage	Refrigerant	Additional features		Generation
M = M-Series mini-split **S =** S-Series mini-split	**U =** Outdoor unit	**Y =** Cooling only **Z =** Heat pump	FX GX JX HX WX AA AK	in kBTU/H	**W =** 115V, 1 phase **N =** 230V, 1 phase	**L =** R454B	**H =** Base pan heater	**Z =** H2i® Hyper-Heating	Blank, 2, 3, etc...

M-Series indoor units

M	S	Z	EX	09	N	L	B	
Family	Type	Application	System series	Capacity	Input voltage	Refrigerant	Additional features	Generation
M = M-Series mini-split **S =** S-Series mini-split	**S =** Wall-mounted **E=** Horizontal Ducted **F=** Floor-mounted **L=** Ceiling Cassette **V=** Muli-position Air Handler	**Y =** Cooling only **Z =** Heat pump	FX GX EX JX HX WX KX AD AF AP	in kBTU/H	**W =** 115V, 1 phase **N =** 230V, 1 phase	**L =** R454B	**B =** Black **S =** Silver **W =** White	Blank, 2, 3, etc...

P-Series single-zone outdoor units

P	U	Z	AK	12	N	L	H	Z	
Family	Type	Application	Chassis Generation	Capacity	Input voltage	Refrigerant	Additional features		Generation
P = P-Series mini-split	**U =** Outdoor unit	**Y =** Cooling only **Z =** Heat pump	AH AK	in kBTU/H	**N =** 230V, 1 phase	**L =** R454B	**H =** Base pan heater	**Z =** H2i® Hyper-Heating	Blank, 2, 3, etc...

P-Series indoor units

P	K	A	AL	12	N	L	
Family	Type	Application	System series	Capacity	Input voltage	Refrigerant	Generation
P = P-Series mini-split	**K =** Wall-mounted **E =** Horizontal Ducted **C =** Floor-mounted **L =** Ceiling Cassette **V =** Muli-position Air Handler **A =** intell-HEAT®	**A =** Indoor unit **AD =** Horizontal-ducted indoor unit (PEAD)	AA AE AK AL AA/BA/CA (intelli-HEAT®)	in kBTU/H	**N =** 230V, 1 phase	**L =** R454B	Blank, 2, 3, etc...

SMART MULTI® outdoor units

M	X	Z	SM	36	N	L	H	Z	
Family	Type	Application	System series	Capacity	Input voltage	Refrigerant	Additional features		Generation
M = M-series mini-split	**X =** Multi-zone outdoor unit	**Y =** Cooling only **Z =** Heat pump	SM	in kBTU/H	**N =** 230V, 1 phase **T =** 230V, 3 phase	**L =** R454B	**H =** Base pan heater	**Z =** H2i® Hyper-Heating	Blank, 2, 3, etc...

MXZ Ported outdoor units

M	X	Z	2D	20	N	L	H	Z	
Family	Type	Application	Number of ports + model gen.	Capacity	Input voltage	Refrigerant	Additional features		Generation
M = M-series mini-split	**X =** Multi-zone outdoor unit	**Z =** Heat pump	2D 3D 4D 5D	in kBTU/H	**N =** 230V, 1 phase	**L =** R454B	**H =** Base pan heater	**Z =** H2i® Hyper-Heating	Blank, 2, 3, etc...

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