

SUZ Universal Outdoor Unit



Introducing the new Low GWP SUZ Universal Outdoor Unit

The SUZ Universal Outdoor Unit connects to eight different indoor units in a one-to-one configuration. Available in both standard and Hyper-Heating models, the SUZ now includes two new capacities, the 48,000 BTU/H and 60,000 BTU/H. The 48,000 BTU/H and the 60,000 BTU/H are available as a standard heat pump, and the 48,000 BTU/H is available as a Hyper-Heating model. These new capacities are compatible with the SVZ Multi-position Air Handler.

Application possibilities have also expanded. The SUZ Universal outdoor unit is now compatible with the MFZ-KX Floor-mounted unit, EX-Series Designer Wall-mounted unit, and the PAA Intelli-HEAT® Cased Coil.

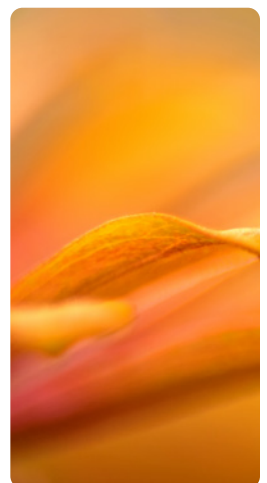


Exceptional efficiency



The SUZ Universal product lineup includes 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.



Outdoor unit 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 lengths have increased from 65 feet to 100 feet for the SUZ-09, SUZ-12, and SUZ-15 Hyper-Heating models and maximum height differences have increased from 40 feet to 50 feet, making these models now suitable for multi-family applications.
Heating operation range	Standard SUZ heat pumps now 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

*Combination specific, refer to submittals/AHRI database for efficiency values and energy star certified combinations






The SUZ is the perfect choice for both the contractor and the homeowner. By adding three more indoor units and extending piping line lengths, the versatile SUZ outdoor unit is a great option for a wide range of applications.

Compatible indoor units

Image	Series	Highlights
	<p>MSZ-EX <i>Designer Series</i></p>	<ul style="list-style-type: none"> • Available in three color options: silver, black, and white. • The unit's sleek, compact, modern low-depth design allow it to blend into spaces seamlessly. • Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the blower wheel, heat exchanger, and vanes, resulting in optimal air flow and easier maintenance.
	<p>MFZ-KX <i>Floor-standing</i></p>	<ul style="list-style-type: none"> • Three uniquely shaped vanes control the airflow and allows for customized comfort according to preference. • Rapid Heat Technology increases the room temperature to the desired set point quickly. • This unit can be mounted low on the wall or floor with the ability to be partially or fully recessed. • Wi-Fi enabled units can connect to the Comfort app for easy user control of temperature, fan speeds, modes, schedules, and more from a smart device without additional equipment.
	<p>MLZ-KX <i>EZ FIT®</i></p>	<ul style="list-style-type: none"> • This unit recesses between ceiling joists for easy installation and a flushed appearance. It is fully serviceable from the bottom, eliminating the need for additional access panels. • Dual-level airflow selection is engineered to accommodate varied ceiling heights. • Dual Barrier Coating is included. • Vanes automatically move left, right, up and down for even temperature distribution. • Horizontal airflow control eliminates uncomfortable drafts. • Wi-Fi enabled for Comfort app compatibility. • A built-in condensate lift mechanism removes water that is collected during operation.
	<p>SLZ <i>Ceiling Cassette</i></p>	<ul style="list-style-type: none"> • The size and shape are a perfect fit for ceilings made using 2'x2' construction, and the light package makes installation easy. • The 3D i-see Sensor® scans the room for occupancy, then adjusts temperature and airflow based on user preferences, and saves energy when a room is empty. • The patented 3D Turbo Fan with a two-stage blade structure ensures low noise operation while maintaining high airflow. • A built-in condensate lift mechanism is included. • Individual vane settings provide direct and indirect airflow control. • Horizontal airflow control eliminates uncomfortable drafts. • A duct opening is provided, which allows outside air to be brought inside so it can be heated or cooled. • Dual-level airflow selection is engineered to accommodate varied ceiling heights. • 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
	<p>SEZ <i>Horizontal-ducted</i></p>	<ul style="list-style-type: none"> • This unit fits easily into rooms with lowered ceilings. • All SEZ models incorporate four-stage external static pressures (0.02 – 0.20 in.w.g) and 3 fan speed selections at each static pressure setting. • Optional filter boxes are available for high efficiency filtration, offering MERV 8 filters. • A built-in condensate lift mechanism is included. A DC motor is now used to lower sound levels.

Compatible indoor units






Image	Series	Highlights
	<p>SVZ <i>Multi-position Air Handler</i></p>	<ul style="list-style-type: none"> • This unit is a whole home solution that can replace furnaces or forced-air systems using existing ductwork. • The air handler can be configured for horizontal left/right, upflow, and downflow¹ applications. • 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. • The cabinet is designed with highly corrosion resistant Black ZAM material, a hot-dip coated steel that has a coated layer of zinc, aluminum and magnesium. • 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 • The unit can be fully disassembled and reassembled easily to fit through small spaces. • Optional Electric Heat Kits in capacities ranging from 3 kW to 23kW for cold climate or back-up applications are available. • The versatile control board includes connectors and logic to control an ERV, humidifier, auxiliary heat, and condensate overflow switch. • Newly added capacities: 48,000 BTU/h and 60,000 BTU/h.
	<p>PEAD <i>Horizontal- ducted</i></p>	<ul style="list-style-type: none"> • All PEAD models incorporate five-stage external static pressures (0.14 – 0.60 in.w.g) and 3 fan speed selections, providing application diversity. • Optional filter boxes are available. • A built-in condensate lift mechanism is included.
	<p>PAA <i>intelli-HEAT® Cased Coil</i></p>	<ul style="list-style-type: none"> • intelli-HEAT's cased coil is compatible with any thermostatically controlled gas furnace.³ • Intelligent Comfort Control automatically switches between the all-electric heat pump and the gas furnace based on a fully adjustable combination of ambient temperature and time settings. Economic balance point configuration can also be utilized instead of Intelligent Comfort Control. • The ultra-slim control box uses multiple algorithms to automatically and seamlessly switch between all-electric heat pump and furnace operation, optimizing comfort, improving energy efficiency, and reducing a space's carbon footprint. • Re-designed circuit boards and push terminals for wiring allow for simple installation and configuration. Dedicated terminals for 2-fan speed control allow for efficiency and humidity removal. • The unit is available in multiple sizes and capacities. 14.5" and 17.5" widths are offered in 18, 24, 30 kBTU/H capacities, and 17.5" and 21" widths are offered in 36, 42 kBTU/h capacities. • All cased coils can be configured for horizontal left/right, upflow, and downflow applications.




¹ Downflow kit required.

² Tested in accordance with ASHRAE Standard 193.

³ Mitsubishi Electric air-conditioner and heat pump systems should only be connected with ANSI-Z21.47/CSA2.3 certified furnaces.

Indoor and outdoor unit capacity charts

Outdoor Unit Capacity kBtu/h	9,000		12,000		15,000		18,000		24,000	
Model Type	HP		HP		HP		HP		HP	
MSZ-EX Wall-mounted	•	•	•	•	•	•	•	•		
MFZ Floor-standing	•	•	•	•	•	•	•	•		
MLZ EZ FIT®	•	•	•	•			•	•		
SLZ 2'x2' Cassette	•	•	•	•	•	•	•	•		
SEZ Low Static-ducted	•	•	•	•	•	•	•	•		
SVZ Multi-position Air Handler			•	•			•	•	•	•
PEAD Mid Static-ducted	•	•	•	•	•	•	•	•	•	•
PAA intelli-HEAT® Cased Coil										

Outdoor Unit Capacity kBtu/h	30,000		36,000		48,000		60,000	
Model Type	HP		HP		HP		HP	
MSZ-EX Wall-mounted								
MFZ Floor-standing								
MLZ EZ FIT®								
SLZ 2'x2' Cassette								
SEZ Low Static-ducted								
SVZ Multi-position Air Handler	•	•	•	•	•	•	•	
PEAD Mid Static-ducted	•	•	•	•				
PAA intelli-HEAT® Cased Coil		•		•				

See full details and technical documents at MitsubishiPro.com