

Nv-Series and P-Series Catalog

*American
Standard*
HEATING & AIR
CONDITIONING

Spring 2020



EZ FIT™
Ceiling Cassette



kumo:touch™
Wireless Controller



Floor Mount



Doing Our Part to Create a Better Future for All...

Core Environmental Policy

The Mitsubishi Electric Group promotes sustainable development and is committed to protecting and restoring the global environment through technology, all business activities and the actions of our employees.

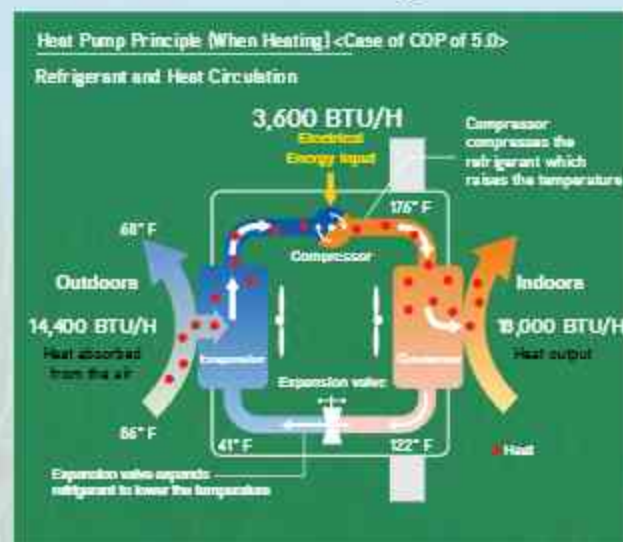


Mitsubishi Electric reflects the essence of this policy and vision in all aspects of its air conditioner business.

Preventing Global Warming

Heat pump technology inspires Mitsubishi Electric to design air conditioners that combine comfort and ecology.

Mitsubishi Electric develops technologies to balance comfort and ecology, achieving greater efficiency in heat pump operation.



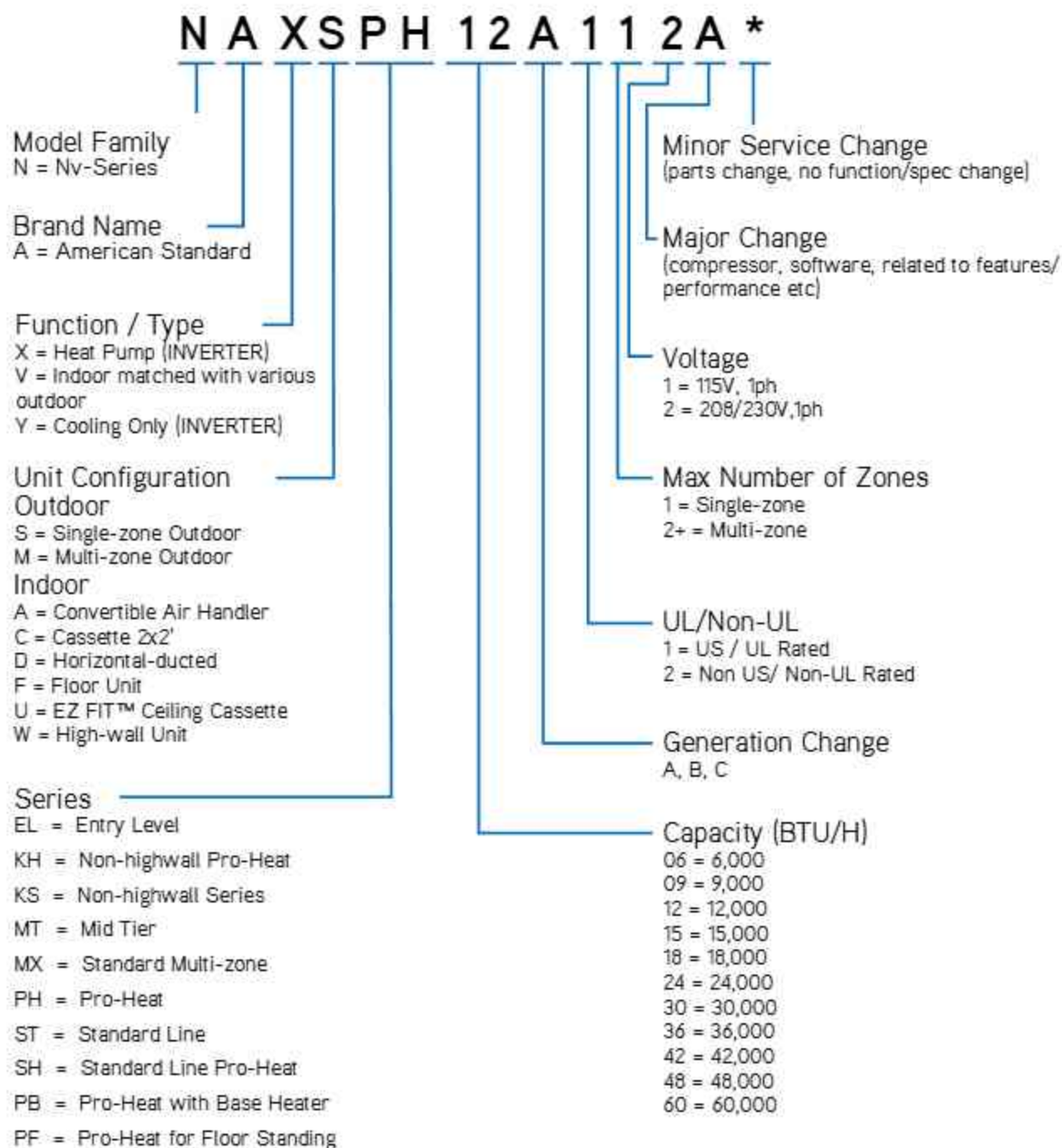
	Comfort	Ecology
1. Inverter	Faster start-up and more stable indoor temperature than non-inverter units.	Fewer On/Off operations than with non-inverter saving energy.
2. 3D i-see Sensor*	Since the position of people can be detected, airflow can be set to personal selection, such as direct airflow path. The ability to adjust to individual preferences results in more comfortable air conditioning.	Since the number of people in a room can be detected, energy-saving operation is adjusted or the power is turned off automatically. Efficient air conditioning with less waste is realized.
3. Flash Injection	Achieves high heating capacity even at low temperatures plus faster start-up compared to conventional inverters.	Expands the geographical region covered by heat pump heating systems.



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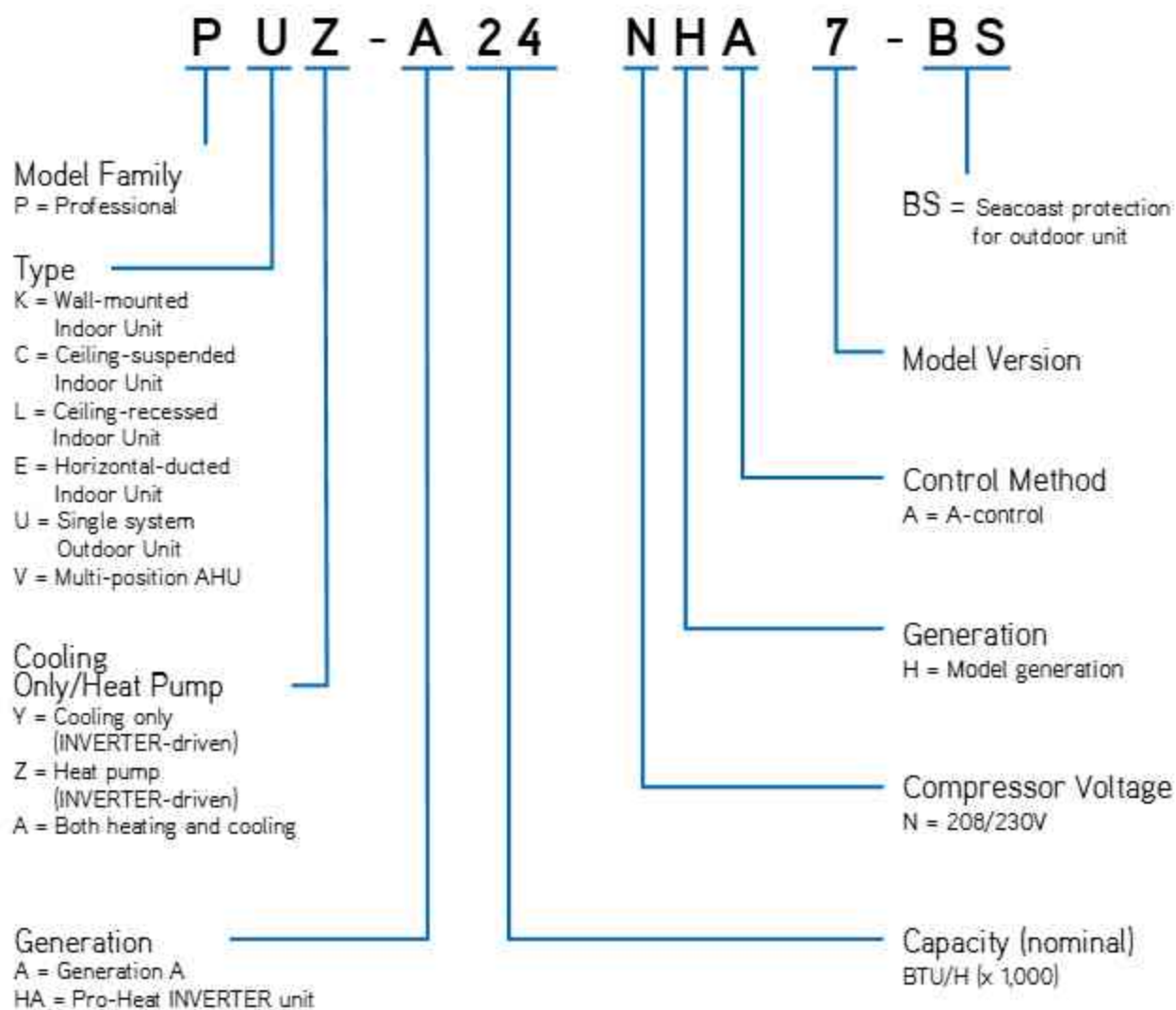
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Nv-Series Model Reference Guide



- Designed for residential applications
- User-friendly zoned cooling and heating solutions for single- or multi-room applications or the whole home
- Pro-Heat INVERTER-driven outdoor units can provide high heating performance at lower ambient temperatures
- Many ENERGY STAR® certified models

P-Series Model Reference Guide



- Designed for light commercial installations. Ideal for applications requiring year-round, low ambient cooling such as computer, elevator and equipment rooms
- Pro-Heat outdoor units can provide superior heating performance at lower ambient temperatures
- Long lineset lengths
- Outside air intake on PLA, PCA, PEAD and PVA models
- P-Series ducted units have higher static than most Nv-Series, allowing for design flexibility

Nv-Series

Model Name		6,000 BTU/H	9,000 BTU/H	12,000 BTU/H	15,000 BTU/H	18,000 BTU/H	24,000 BTU/H	30,000 BTU/H	36,000 BTU/H
Wall Mounted	NAXWPH Model 	●	●	●	●	●			
	MSZ-EF Model 		W-S-B *1	W-S-B *1	W-S-B *1	W-S-B *1			
	NAXWST Model 	● *1	●	●	●	●	●	●	●
	NAXWMT Model 		● *2	● *2	● *2	● *2	● *2		
	NAXWMT 115V Model 		● *2	● *2					
	NAXWEL Model 		● *2	● *2		● *2	● *2		
	NAYWST Model Color Match 		● *2	● *2	● *2	● *2	●	● *2	● *2
Floor Mounted	NAXFKS Model 		●	●	●	●			
EZ FIT™ Ceiling Cassette	NAXUKS Model 		●	●		●			
Multi-position Air Handler	NAXAMT Model 			●		●	●	●	●
Ceiling Cassette	NAXCKS Model 		●	●	●	● *2			
Horizontal Ducted	NAXDKS Model 		●	●	●	●			

*1 MX connection only
*2 Single-zone connection only

W*S*B: Indoor units are available in three colors: White, Silver, and Black.

MX Model

Model Name	Capacity	Wall Mounted	Floor Mounted	EZ FIT™ Ceiling Cassette	4-way Ceiling Cassette	Horizontal Ducted	Multi-position Air Handler	Ceiling Suspended
Heat Pump	NAXMMX20A122** up to 2 indoor units	20,000 BTU/H [1-phase]	WPH 06/09/12/15 MSZ-EF 09/12/15 NAXWST 06/09/12/15	FKS 09/12/15	UKS 09/12	CKS 09/12	DKS 09/12/15 PEAD-A12	AMT 12
	NAXMMX24A132** up to 3 indoor units	24,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAX- WST06/09/12/15/18	FKS 09/12/ 15/18	UKS 09/12/18	CKS 09/12/15 PLA-A18	DKS 09/12/15/18 PEAD-A12/18	AMT 12/18
	NAXMMX30A132** up to 3 indoor units	30,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/ 15/18	UKS 09/12/18	CKS 09/12/15 PLA-A18	DKS 09/12/15/18 PEAD-A12/18/24	AMT 12/18/24 PCA-A24
	NAXMMX36A142** up to 4 indoor units	36,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/ 15/18	UKS 09/12/18	CKS 09/12/15 PLA-A18	DKS 09/12/15/18 PEAD-A12/18/24	AMT 12/18/ 24/30/36 PCA-A24
	NAXMMX42A152** up to 5 indoor units	42,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/ 15/18	UKS 09/12/18	CKS 09/12/15 PLA-A18	DKS 09/12/15/18 PEAD-A12/18/24	AMT 12/18/ 24/30/36 PCA-A24
	NAXMMX48A182** *3 up to 8 indoor units	48,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/ 15/18	UKS 09/12/18	CKS 09/12/15 PLA-A 12/18/24/30/36	DKS 09/12/15/18 PEAD-A 12/18/24/30/36	AMT 12/18/ 24/30/36
	NAXMMX60A182** *3 up to 8 indoor units	60,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/ 15/18	UKS 09/12/18	CKS 09/12/15 PLA-A 12/18/24/30/36	DKS 09/12/15/18 PEAD-A 12/18/24/30/36	AMT 12/18/ 24/30/36
Pro-Heat	NAXMPH20A122** up to 2 indoor units	20,000 BTU/H [1-phase]	WPH 06/09/12/15 MSZ-EF 09/12/15 NAXWST 06/09/12/15	FKS 09/12/15	UKS 09/12	CKS 09/12	DKS 09/12/15 PEAD-A12	AMT1 2
	NAXMPH24A132** up to 3 indoor units	24,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18	FKS 09/12/15/18	UKS 09/12/18	CKS 09/12/15 PLA-A18	DKS 09/12/15/18 PEAD-A12/18	AMT 12/18
	NAXMPH30A132** up to 3 indoor units	30,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/15/18	UKS 09/12/18	CKS 09/12/15 PLA-A18	DKS 09/12/15/18 PEAD-A12/18/24	AMT 12/18/24 PCA-A24
	NAXMPH36A142** *3 up to 4 indoor units	36,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/15/18	UKS 09/12/18	CKS 09/12/15 PLA-A12/18/ 24/30/36	DKS 09/12/15/18 PEAD-A12/18/ 24/30/36	AMT 12/18/24/30/36
	NAXMPH42A152** *3 up to 5 indoor units	42,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/15/18	UKS 09/12/18	CKS 09/12/15 PLA-A12/18/ 24/30/36	DKS 09/12/15/18 PEAD-A12/18/ 24/30/36	AMT 12/18/24/30/36
	NAXMMX48A182** *3 up to 8 indoor units	48,000 BTU/H [1-phase]	WPH 06/09/12/15/18 MSZ-EF 09/12/15/18 NAXWST 06/09/12/15/18/24	FKS 09/12/15/18	UKS 09/12/18	CKS 09/12/15 PLA-A12/18/ 24/30/36	DKS 09/12/15/18 PEAD-A12/18/ 24/30/36	AMT 12/18/24/30/36

*3 The number of indoor units are limited when connected to PLA. For more information, please refer to pg.85-86

The number of ducted models (AMT, DKS, PEAD) connectable may be limited based on the outdoor unit and combination - refer to the compatibility charts.

P-Series

COOLING ONLY Models (PUY)

Model Name		12,000 BTU/H	18,000 BTU/H	24,000 BTU/H	30,000 BTU/H	36,000 BTU/H	42,000 BTU/H
4-way Ceiling Cassette	PLA Model 						
Wall Mount	PKA Model 						
Multi-position Air Handler	PVA Model 						
Horizontal Ducted	PEAD Model 						
Ceiling-suspended	PCA Model 						

HEAT PUMP Models (PUZ)

Model Name		12,000 BTU/H	18,000 BTU/H	24,000 BTU/H	30,000 BTU/H	36,000 BTU/H	42,000 BTU/H
4-way Ceiling Cassette	PLA Model 						
Wall Mount	PKA Model 						
Multi-position Air Handler	PVA Model 						
Horizontal Ducted	PEAD Model 						
Ceiling-suspended	PCA Model 						

PRO-HEAT Models (PUZ-HA)

Model Name		24,000 BTU/H	30,000 BTU/H	36,000 BTU/H	42,000 BTU/H
4-way Ceiling Cassette	PLA Model 				
Wall Mount	PKA Model 				
Multi-position Air Handler	PVA Model 				
Horizontal Ducted	PEAD Model 				
Ceiling-suspended	PCA Model 				

QUALITY AND TESTING

Quality First. Always.

Cutting-edge technologies and uncompromising commitment to quality and reliability have made us one of the world's most trusted brands in air-conditioning and refrigeration equipment and service.

DEVELOPMENT

Operating Tests in Harsh Conditions

Harsh environmental conditions of cold regions are simulated for the development of our air conditioners. This is another reason customers in severely cold regions rely on us for comfortable heating.



Combustion Test

Products are subjected to a wide range of tests including combustion testing, all to confirm safe operation under a variety of conditions. Combustion testing is done by assuming accidental firing and replicating abnormal conditions that cause breakage of pressure components.



Explosion-proof chamber

Shock Resistance

On the assumption of many different kinds of logistics environments in the world, we perform drop/strength tests, transport vibration tests, and many other product checks to assure that the quality and performance are maintained when the product reaches the user's home.



Drop/strength testing



Transport vibration testing

Waterproof and Corrosion Test

Since the outdoor unit is subject to rain, wind, and corrosive substances, potential problems are checked by tests such as showering the unit for a certain amount of time and increasing protection to enhance the lifespan of the unit.



Operation Noise Test

Operation noise tests are performed in an anechoic chamber with an extremely low 10dB(A) of background noise. This is just one of the ways we ensure our customers enjoy extremely quiet air conditioners with a minimum operation noise of 19dB(A) (sound pressure level).



Anechoic chamber

DESIGN

Designed to create and maintain a comfortable environment

To improve the quality of products, engineers strive to achieve our philosophy of combining comfort and ecology in an effort to continually raise the bar. Therefore, we are working to further improve quality at all stages from development to production.



PRODUCTION

Each and every unit is checked and double-checked by experienced professionals

Every air conditioner goes through a rigorous electrical inspection on the manufacturing line. In final testing, our experienced inspectors listen for even the faintest operation noise to detect any defect.



INVERTER TECHNOLOGIES

Our Promise: Mitsubishi Electric inverters ensure superior performance including the optimum control of operation frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost — that's the Mitsubishi Electric promise.

INVERTERS – HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an air conditioner. They receive information from sensors monitoring operating conditions, and adjust the revolution speed of the compressor, which directly regulates air conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.

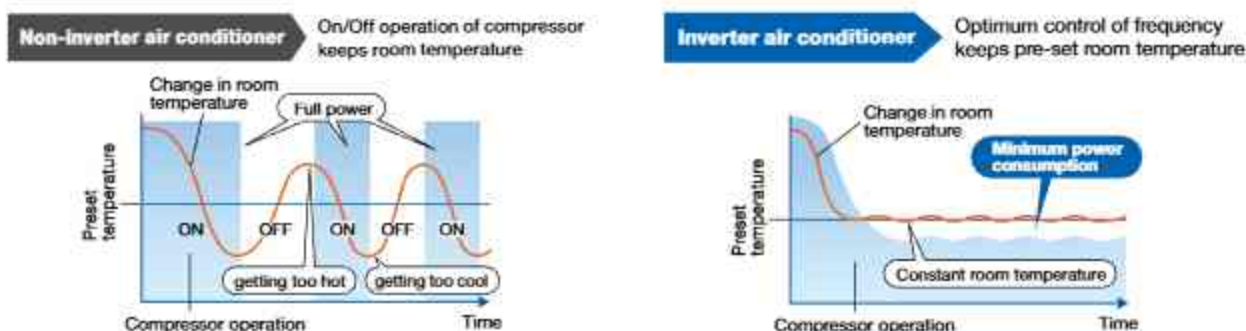
ECONOMIC OPERATION

Impressively low operating cost is a key advantage of inverter air conditioners. We've combined advanced inverter technologies with cutting-edge electronics and mechanical technologies to achieve a synergistic effect that enables improvements in heating/cooling performance efficiency. Better performance and lower energy consumption are the result.

TRUE COMFORT

Below is a comparison of air conditioner operation control with and without an inverter.

■ Inverter operation comparison



The compressors of air conditioners without an inverter start and stop repeatedly in order to maintain the pre-set room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of air conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

POINT 1 Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated faster and more efficiently.

POINT 2 Room Temperature Maintained

The compressor motor operating frequency and the change of room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates the large temperature swings common with non-inverter systems, and guarantees a pleasant, comfortable environment.

KEY TECHNOLOGIES

Our Rotary Compressor

Our rotary compressors use our original Poki-Poki Motor and Heat Cauting Fixing Method to realize downsizing and higher efficiency, and are designed to match various usage scenes in residential and commercial applications. Additionally, development of an innovative production method known as "Divisible Middle Plate" realizes further size/weight reductions and increased capacity while also answering energy-efficiency needs.

Our Scroll Compressor

Our scroll compressors are equipped with an advanced frame compliance mechanism that allows self-adjustment of the position of the orbiting scroll according to pressure load and the accuracy of the fixed scroll position. This minimizes gas leakage in the scroll compression chamber, maintains cooling capacity and reduces power loss.

MORE ADVANTAGES WITH OUR PRODUCTS



Joint Lap DC Motor

Mitsubishi Electric has developed a unique motor, called the Poki-Poki Motor in Japan, which is 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 actually a microprocessor that converts the compressor motor's electrical current waveform from a conventional waveform to a sine wave (180° conduction) to achieve higher efficiency by raising the motor winding utilization ratio and reducing energy loss.



Reluctance DC Rotary Compressor

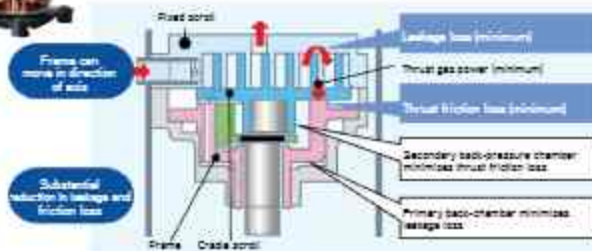
Powerful neodymium magnets are used in the rotor of the reluctance DC motor. More efficient operation is realized by strong magnetic and reluctance torques produced by the magnets.



Highly Efficient DC Scroll Compressor



Higher efficiency has been achieved by adding a frame compliance mechanism to the DC scroll compressor. The mechanism allows movement in the axial direction of the frame supporting the cradle scroll, thereby greatly reducing leakage and friction loss, and ensuring extremely high efficiency at all speeds.



Heat Caulking Fixing Method

To fix internal parts in place, a Heat Caulking Fixing Method is used, replacing the former arc spot welding method. Distortion of internal parts is reduced, realizing higher efficiency.



DC Fan Motor

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



Vector-Wave Eco Inverter

This inverter monitors the varying compressor motor frequency and creates the most efficient waveform for the motor speed. As a result, operating efficiency in all speed ranges is improved, less power is used and annual electricity cost is reduced.

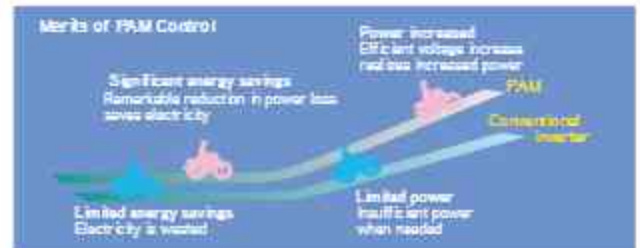
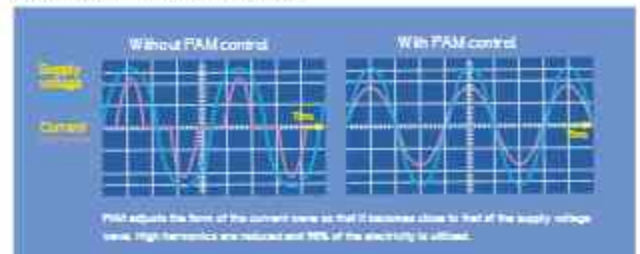
Smooth wave pattern

Inverter size has been reduced using insert-molding where the circuit pattern is molded into the synthetic resin. To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



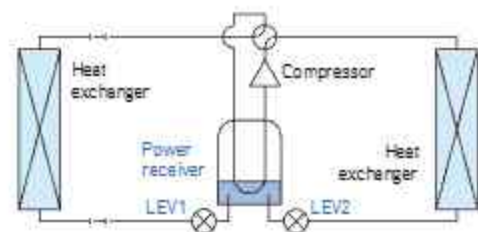
PAM (Pulse Amplitude Modulation)

PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realizing more efficient use of electricity. Using PAM control, 95% of the input power supply is used effectively.



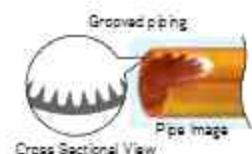
Power Receiver and Twin LEV Control

Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) circuit that optimize compressor performance. This technology ensures optimum control in response to operating waveform and outdoor temperature. Operating efficiency has been enhanced by tailoring the system to the characteristics of R410A refrigerant.



Grooved Piping

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

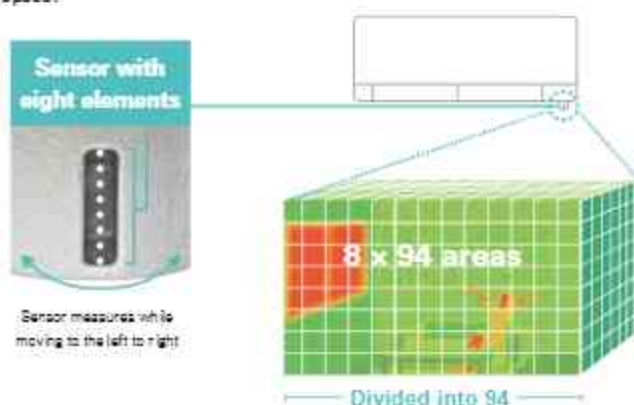


FEATURES

3D i-see Sensor®

3D i-see Sensor for Nv-Series

The WPH Model is equipped with 3D i-see Sensor®, an infrared-ray Sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged Sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as Indirect Airflow, to avoid airflow hitting people directly, and Direct Airflow to deliver airflow to where people are located in the space.



Indirect Airflow

The Indirect Airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling to avert airflow and prevent body temperature from becoming excessively cooled.



Direct Airflow

This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.



Absence Detection

The Sensors detect whether there are people in the room. When no-one is in the room the unit automatically switches to energy-saving mode.



The 3D i-see Sensor detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

3D i-see Sensor for CKS and PLA Models

Detects number of people

The 3D i-see Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode. Depending on the setting, it can also stop the operation.

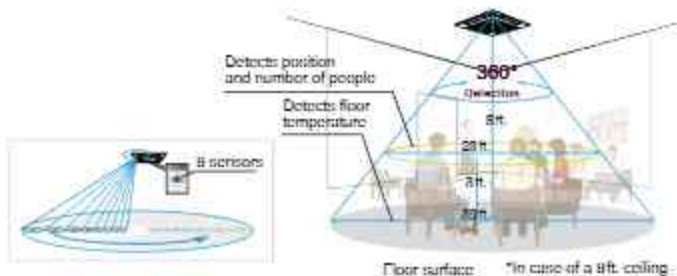
Detects number
of people

Detects people's position



Detects people's position

Once a person is detected, the angle of the vane is automatically adjusted. Each vane can be independently set to Direct Airflow or Indirect Airflow according to preference.



Highly accurate people detection

A total of eight Sensors rotate a full 360° in 3-minute intervals. In addition to detecting human body temperature, our original algorithm also detects people's positions and the number of people in the space.

Detects number of people

Room occupancy energy-saving mode

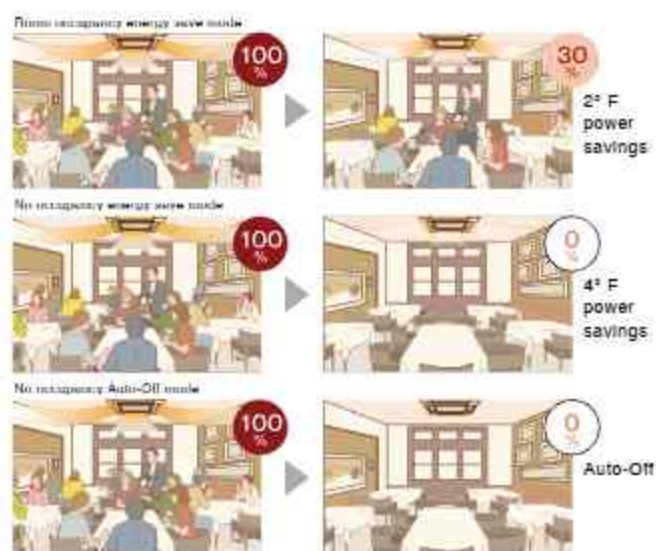
The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air-conditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 2° F during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60 min, air-conditioning power equivalent to 4° F during both cooling and heating operation is saved. This contributes to preventing waste in terms of heating and cooling.

No occupancy Auto-OFF mode

When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10 min, ranging from 60 to 180 min.



Detects people's position

Direct/Indirect settings*

The horizontal airflow spreads across the ceiling. When set to Indirect Airflow that uncomfortable drafty-feeling is eliminated completely!



*AAR-40MAAU is required for each setting.

Seasonal airflow*

When Cooling

Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

When Heating

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is re-used via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.



*AAR-40MAAU is required for each setting.



Area Temperature Monitor

The 3D i-see Sensor monitors the whole room in sections and directs the airflow to areas of the room where the temperature does not match the temperature setting. (When cooling the room, if the middle of the room is detected to be hotter, more airflow is directed towards it.) This eliminates unnecessary heating /cooling and contributes to lower electricity costs.



ENERGY-SAVING

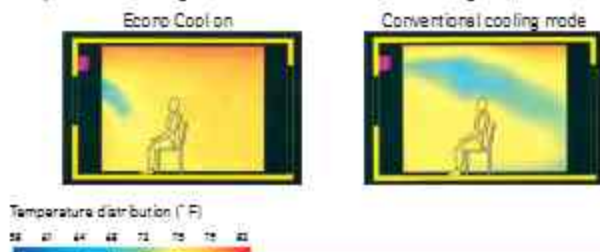
Econo Cool Energy-Saving Feature

Econo Cool is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 4° F without any loss in comfort, thereby realizing a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

	Conventional	Econo Cool
Ambient Temperature	95° F	95° F
Set Temperature	77° F	81° F
Perceived Temperature	86° F	85° F

Econo Cool Mode

A comfortable room environment is maintained even when setting the temperature 4° F higher than the conventional cooling mode.



Demand Function (Onsite Adjustment)

The demand function can be activated when the unit is equipped with a commercially available timer or an On/Off switch is added to the CNDM connector (option) on the control board of the outdoor unit. Energy consumption can be reduced up to 100% of the normal consumption according to the signal input from outside.

[Example: P-Series]

Limit energy consumption by changing the settings of SW7-1, SW1 and SW2 on the control board of the outdoor unit. The following settings are possible.

SW7-1	SW1	SW2	Energy Consumption
ON	OFF	OFF	100%
	ON	OFF	75%
	ON	ON	50%
	OFF	ON	0% (Stop)

* PUY/PUZ outdoor only

Blue Fin Heat Exchanger

Anti-corrosion treatment is done to the heat exchanger of the outdoor units. This coating prevents the corrosion of the aluminum fins caused by salt in the air especially in coastal areas. (Corrosion of the heat exchanger will effect the efficiency and performance of the air conditioner.)

AIR QUALITY

Nano Platinum Filter

This filter has a large capture area and incorporates nanometer-sized platinum-ceramic particles that work to kill bacteria and deodorize the circulating air.

Catechin Filter

Catechin is a bioflavonoid by-product of green tea with both antiviral and antioxidant qualities. In addition to improving air quality, it prevents the spreading of bacteria and viruses throughout the room, and also has an excellent deodorizing effect.

Air Filter

This filter can remove dust particles from the air.

Deodorizing Filter

The catalyst coating on the honeycomb-structured frame captures small foul-smelling substances in the air, then breaks down the source of the odors with the power of the ozone generated in a plasma electrode unit.

Electrostatic Anti-Allergy Enzyme Filter

This filter is charged with static electricity, enabling it to attract and capture dust particles that regular filters cannot capture. This filter can also trap allergens such as bacteria and decompose them using enzymes retained in the filter.

Air Purifying Filter

The filter has a large capture area and deodorize the circulating air.

Fresh-air Intake

Indoor air quality is enhanced by the direct intake of fresh exterior air.

High-efficiency Filter

This high-performance filter has a much finer mesh compared to standard filters, and is capable of capturing minute particulates floating in the air that were not previously caught.

Oil Mist Filter

The oil mist filter prevents oil mist from penetrating into the inner part of the air conditioner.

Long-life Filter

A special process for the entrapment surface improves the filtering effect, making the maintenance cycle longer than that of units equipped with conventional filters.

Filter Check Signal

Air conditioner operating time is monitored, and the user is notified when filter maintenance is necessary.

AIR DISTRIBUTION



Double Vane

Double vane separates the airflow in the different directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different locations.



Natural Flow Operation

Airflow will become more like natural wind. An occupant will not be directly exposed to the airflow and feel more comfortable.



Indirect/Direct Mode

This mode offers finely-tuned operation by locating where an occupant is in the room and sends the air directly or indirectly according to the selected mode.



Powerful Operation

The air conditioner will automatically adjust the fan speed and set temperature for 15 minutes. Rapid cooling and heating will make the room comfortable more quickly.



Wide Airflow

Especially beneficial for large spaces, helping to ensure that the air is well circulated and reaches every corner of the room. Select the desired airflow pattern and it will distribute air horizontally over a wide-ranging 150° in heating mode and 100° in cooling mode.



Horizontal Vane

The air outlet vane swings up and down so that the airflow is spread evenly throughout the room.



Vertical Vane

The air outlet fin swings from side to side so that the airflow reaches every part of the room.



High Ceiling Mode

In the case of rooms with high ceilings, the outlet-air volume can be increased to ensure that air is circulated all the way to the floor.



Low Ceiling Mode

If the room has a low ceiling, the airflow volume can be reduced for less draft.



Auto Fan Speed Mode

The airflow speed mode adjusts the fan speed of the indoor unit automatically according to the present room conditions.



Auto Vane Control

Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.

BLUE FIN COATING



Blue Fin Condenser

Anti-corrosion treatment is done to the heat exchanger of the outdoor units. This coating prevents the corrosion of the aluminum fins caused by salt in the air especially in coastal areas. (Corrosion of the heat exchanger will effect the efficiency and performance of the air conditioner.)

Standard HEX coatings:
Rated for 240 hours spraying time*

Blue Fin HEX coatings:
Rated for 960 hours spraying time*

*Per JRA 9002 Standard
Coating is applied on all Nv-Series single-zone outdoor units

Compatibility	
Outdoor Unit	Blue Fin Coating
SPH	•
SPF	•
SST	•
SMT	•
SMT 115V	•
SEL	•
SKS (9, 12, 15)	•
SKH	•
PUZ/Y-BS (sea coast protection models only)	•
MMX/MPH Multi-zone (branch box type)	•

CONVENIENCE

Smart Set

Smart Set is a simplified setting function that recalls the preferred (pre-set) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable waste-free operation, realizing the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.



Auto Changeover

The air conditioner automatically switches between heating and cooling modes to maintain the desired temperature.

Low-temperature Cooling

Intelligent fan speed control in the outdoor unit ensures optimum performance even when the outside temperature is low.

Ampere Limit Adjustment

Dip switch settings can be used to adjust the maximum electrical current for operation. This function is highly recommended for managing energy costs.

*Maximum capacity is lowered with the use of this function.

Auto Restart

Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

Operation Lock (Outdoor unit)

To accommodate specific-use applications, cooling or heating operation can be specified when setting the control board of the outdoor unit. A convenient option when a system needs to be configured for exclusive cooling or heating service.

Sleep Mode

When Sleep Mode is activated using the wireless remote controller, it will switch to the settings described below.

- After 30 minutes, the set temperature will automatically change to the sleep mode set temperature which the user can set beforehand.
- The fan speed will immediately change to low fan speed.

On/Off Operation Timer

Use the remote controller to set the times of turning the air conditioner On/Off.

Weekly Timer Function

Easily set desired temperatures and operation ON/OFF times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

■ Sample Operation Pattern (Winter/Heating mode)

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00 AM	ON 68°F	ON 68°F	ON 68°F	ON 68°F	ON 68°F	ON 68°F	ON 68°F
8:00 AM	Automatically changes to high-power operation at wake-up time						
10:00 AM	OFF	OFF	OFF	OFF	OFF	ON 64°F	ON 64°F
12:00 PM	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
2:00 PM							
4:00 PM							
6:00 PM	ON 72°F	ON 72°F	ON 72°F	ON 72°F	ON 72°F	ON 72°F	ON 72°F
8:00 PM	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside-air temperature is low	
10:00 PM							
(during sleeping hours)	ON 64°F	ON 64°F	ON 64°F	ON 64°F	ON 64°F	ON 64°F	ON 64°F
	Automatically lowers temperature at bedtime for energy-saving operation at night						

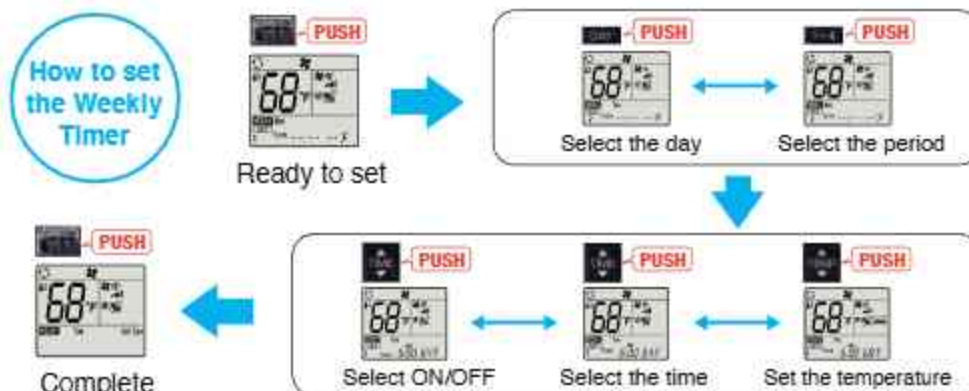
Settings

Pattern Settings: Input up to four settings for each day

Settings: • Start/Stop operation • Temperature setting * The operation mode cannot be set.

■ Easy set-up using dedicated buttons

The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL" button will end the set-up process without sending the operation patterns to the indoor unit).
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.

SYSTEM CONTROL



System Group Control

The same remote controller is capable of controlling the operational status of up to 16 refrigerant systems.



kumo cloud® Wireless Interface

Along with your smart phone or tablet device, you can manage your system in multiple venues, such as home, work and vacation locations. You can control functions like turning on/off, fan speed, and vane direction.



M-NET Connection

Units can be connected to MELANS system controllers (M-NET controllers) such as the AE-200A.



MX Connection

Connection to the MX multi-split outdoor unit is possible.



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Wireless Interface 2



Manage Your Comfort From Anywhere With kumo cloud

- Now compatible with Nv-Series and P-Series systems
- kumo cloud allows for a American Standard®/Mitsubishi Electric indoor unit to be controlled remotely or locally with the app
- For product information go to kumocloud.com
- Ability to group units and organize groups into sites
- Batch command units
- Ability to program events and scheduling into the unit itself
- Available in Fahrenheit or Celsius
- Easy to connect the device to your router using the kumo cloud app
- Each indoor unit must be equipped with a Wireless Interface (PAC-USWHS002-WF-2) installed by a licensed contractor
- Secure boot to prevent unauthorized reprogramming of Wireless Interface
- Intuitive initial settings feature for Nv- & P-Series equipment

Did you forget to turn off your unit before leaving for vacation? You don't have a worry in the world when you have the kumo cloud app. You can change temperatures, set and store a schedule, and much more from anywhere. It really is comfort made personal.

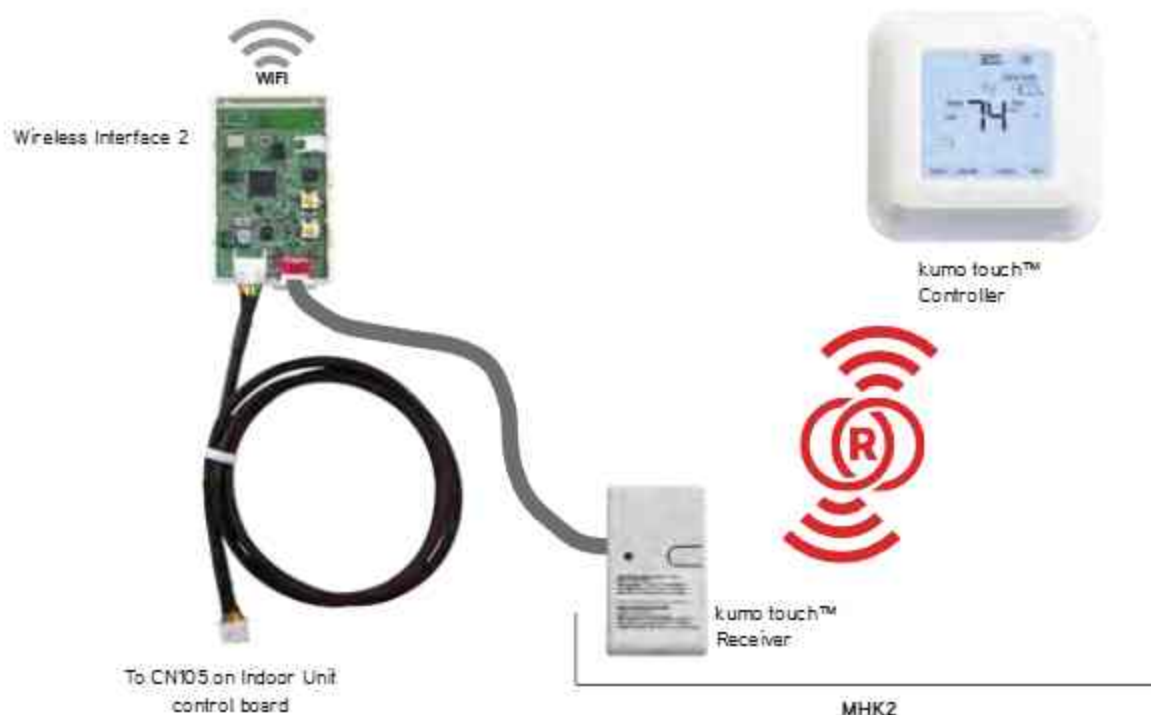
Anytime, Anywhere Control kumo cloud gives you the ability to effortlessly control your home's comfort. Whether you're out for the day or the month, looking to cool down or warm up, kumo cloud gives you control from any smart phone, tablet or web browser.

Program and Schedules: kumo cloud walks you through a five-step process to easily schedule the mode, set temperature and fan speed, for an individual zone or several zones at once.

Easily Zoned: Once your Wireless Interface is installed on your indoor unit by a trained HVAC professional, the indoor unit will discover the app. Name your indoor units, create groups, and organize multiple properties from one user-friendly app.

Check Filter Status: You never have to manually check a filter again, kumo cloud can tell you the status of any filter in your system at any time.

Simple wall-mounted design controllers can be installed anywhere with large, backlit, easy to read display. Both the controller and receiver is enabled with RedLINK reliability.



MRCH2 kumo touch Controller Specifications

- Touch panel, Backlit, easy-to-read display
- Used RedLINK™ 3.0 wireless technology
 - Not compatible with MHK1, MOS1 and MCCH1 RedLINK 2.0 wireless technology environment
- User functions allow user to set:
 - On/Off
 - Operation modes cool, heat, drying, fan
 - Set temperature (separate dual set points for heat and cool)
 - Fan speed setting
 - Airflow direction
- Set temperature range limits (dependent on the system connected):
 - Cooling from 50° to 99° F
 - Heating from 40° to 90° F
 - Auto from 50° to 90° F with dual temperature setting
- MHK2 Scheduling options:
 - No Schedule
 - MO-SU = Every day the same
 - MO-FR, SA, SU = 5-1-1 schedule
 - MO-FR, SA-SU = 5-2 schedule
 - Each Day = Every day individual
 - Allow kumo cloud to be schedule holder
- Hold function
- Temporary or Permanent schedule override
- Lockout:
 - On, Off, Mode, Fan Speed, Set point, Vane Direction
- Day/Time display with a 12 or 24-hour clock
- Supports both Fahrenheit and Celsius
- RedLINK™ Wireless Connection Status
- Filter sign display
- Diagnostics: Displays and records error codes
- Adjustable auto mode deadband
- Space temperature offset adjustment
- Space humidity offset adjustment
- Hide (on screen only)
 - Indoor temperature
 - Indoor humidity
- Temperature Sensing Source

- MHK2
- Indoor Unit
- RedLINK Wireless Indoor Air Sensor (IAS)
- Average of MHK2 and RedLINK Wireless Indoor Air Sensor (IAS)
- Indoor Humidity Source
 - MHK2
 - RedLINK Wireless Indoor Air Sensor (IAS)
 - Average of MHK2 and RedLINK Wireless Indoor Air Sensor (IAS)
- Improved indoor unit function code list
 - Indoor unit type
 - Expanded to 28 indoor unit codes
- Reset to factory default
- Uses two "AA" alkaline batteries (included)
- Dimensions: 4-5/64" x 4-5/64" x 1-1/16" (10.4 x 10.4 x 27 mm)
- Operating Ambient Temperature: 32° to 120° F (0° to 48.9° C)
- Operating Relative Humidity: 5% to 90%

MIFH2 WIRELESS RECEIVER SPECIFICATIONS:

- Included in MHK2 Kit
- Mounts next to or near indoor units to allow MRCH2 Remote Controller operation
- Connects to indoor unit control board with MRC2 Cable
- Dimensions: 3-3/32" H x 1-3/4" W x 39/64" D (74.8 x 44.4 x 15.4 mm)
- Operating Ambient Temperature: -40° to 165° F (-40° to 73.9° C)
- Operating Relative Humidity: 5% to 95%

MRC2 CABLE

- Included in MHK2 Kit in the MIFH2 box
- Connects MIFH2 Wireless Receiver to the CN105 connector on indoor unit control board
- Length: 39-23/64" (1 m)

WIRED CONTROLLERS

Simple MA Remote Controller

- Controls group operation for up to 16 indoor units in a single group
- Supports Fahrenheit and Celsius
- User defined functions:
 - On/Off
 - Operation modes: Heat/Cool/Auto/Dry
 - Fan speed setting
 - Airflow direction
 - Set temperature range: 40° F to 95° F depending on operation mode and indoor unit connected
- Set temperature range limit for cool and heat modes
- LOSSNAY®: Simple MA for interlocked system can set high/low/stop on LOSSNAY
- Room temperature can be sensed either at indoor unit (default) or at the remote controller
- Dimensions: 2-3/4" W x 9-1/16" D x 4-3/4" H
- Requires MAC-334IF-E for use with Nv-Series products



PAC-YT53CRAU-J

Deluxe MA Remote Controller

- User defined functions:
 - On/Off
 - Operation modes: Heat/Cool/Auto/Dry
 - Room temperature setting & Temperature range restriction
 - Manual vane angle (P-Series cassette indoor units)
 - Smooth maintenance (P-Series only)
 - Auto-off timer & Weekly timer
- Setting screen for 3D i-see Sensor®
- Draft reduction mode
- Daylight Saving Time (DST)
- Dimensions: 4-3/4" W x 3-3/4" D x 4-3/4" H
- Requires MAC-334IF-E for use with Nv-Series ductless products
- Room temperature displays room temperature sensed either at the indoor unit (default) or at the controller



AAR-40MAAU

Touch MA Remote Controller

- User-friendly, customizable full color touch panel display
- Ability to add a custom logo on the display
- Large icons with 160 color patterns
- Daily and weekly timers
- Password protected
- Requires MAC-334IF-E for use with Nv-Series products
- The MELRemo app and Bluetooth® Low Energy (BLE) technology supports communication with smartphones or tablets in multiple languages



PAR-CT01MAU-SB

INTERFACE DEVICES

T-STAT Thermostat Interface

- Control your Zoned Comfort Solution 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' (12 m)
- Dimensions: 3.17 in (w) x 3.96 in (h) x 0.93 in (d) (80.6 x 100.6 x 23.7 mm)
- Exterior shell made of ABS resin
- Environment Conditions —operating temperature range: Installation manual states that the temperature should be between 32° F and 104° F (0° C to 40° C)



BACnet® Interface

- Allows for third-party home automation/building management system to control indoor unit
- One interface required per indoor unit
- Compatible with remote controllers
- Dimensions: 3.74" x 2" x 0.75"
- Cable length: 37"
- Allows for third-party home automation/building management system to control indoor unit



USNAP Interface

- 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 to indoor unit
 - Demand Response Events
- System Reset



MAC-334IF-E System Control Interface

- Allows Nv-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 Nv-Series indoor units to connect to MHK2 Wall-Mounted Wireless Controller when using other MAC-334IF-E functions
- Allows Nv-Series indoor units to connect to a MA controller
- Power: 12V DC (supplied from indoor unit)



FEATURES

Category		Icon	Construction		Air-Series																			
			Indoor unit	Outdoor unit	NAXMPH(05/05/12/15/18)A112A*						M8Z-EP05/12/15/18NA(W)(B)(B)						NAXWST(05/05/12/15/18)A112A*							
					NAXGPH	MX 2zone	MX 3zone	MX 4zone	MX 5zone	MX 6zone	MX 2zone	MX 3zone	MX 4zone	MX 5zone	MX 6zone	NAXGST	MX 2zone	MX 3zone	MX 4zone	MX 5zone			MX 6zone	
Indoor	Isee Sensor	Radiant Temperature Control (3D Isee Sensor*)		•	•	•	•	•	•															
		AREA Temperature Monitor		•	•	•	•	•	•															
	Energy Saving	Econo Cool		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
		Air Quality	Nano Platinum Filter		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	Catechin Filter																							
	Air Cleaning Filter																							
	Deodorizing Filter		•	•	•	•	•	•																
	Electrostatic Anti-Allergy Enzyme Filter		•	•	•	•	•	•	•	•	•	•	•	24	24	24	24	24	24					
	Anti-Allergy Enzyme Filter													06-18	06-18	06-18	06-18	06-18	06-18					
	Air Purifying Filter																							
	Air Distribution		Double Vane		•	•	•	•	•	•														
		Horizontal Vane		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
		Vertical Vane		•	•	•	•	•	•						18/24	18/24	18/24	18/24	18/24	18/24				
		Natural Flow Operation		•	•	•	•	•	•															
		Wide Airflow													24	24	24	24	24	24				
		Indirect/Direct Airflow		•	•	•	•	•	•															
		Powerful Operation		•	•	•	•	•	•						24	24	24	24	24	24				
	Convenience	Smart Set		•	•	•	•	•	•	•	•	•	•	•	06-18	06-18	06-15	06-18	06-18	06-18				
		Auto Restart		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
		Low Temperature Cooling		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
		Sleep Mode																						
		12H On/Off Operation Timer																						
		24H On/Off Operation Timer		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
		Weekly Timer		•	•	•	•	•	•	•	•	•	•	•										
	Maintenance	Blue Fin		•			• *1	• *1	•				• *1	• *1	•	•			• *1	• *1	•			

*1 Branch box units only: NAXMM048A/82**, NAXMM060A/82**, NAXMPH66A/42**, NAXMPH42A/82**, and NAXMM048A/82**

*2 See coast protection models only (-BS)

		Nu-Series																						
	NAXWST (30/36) A112A*	NAXWMT (09/12/15/ 18/24/A112A*	NAYWST (09/12/15/ 18/24/A112A*	NAYWST (30/36) A112A*	NAXWEL (09/12/18/24) A112A*	NAXWMT 115V(09/12) A111A*	NAXFKB (09/12/15/18) A112A*						NAXUKB (09/15/18) A112A*						NAXAMT (12/18/24/30/36) A112A*					
	NAXSET	NAXEMT	NAYSET	NAYSET	NAXSEL	NAXEMT 115V	NAXSPE	MX 2zone	MX 3zone	MX 4zone	MX 5zone	MX 6zone	NAXGKS	MX 2zone	MX 3zone	MX 4zone	MX 5zone	MX 6zone	NAXGKS	MX 2zone	MX 3zone	MX 4zone	MX 5zone	MX 6zone
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
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		06-18					*	*	*	*	*	*	*	*	*	*	*	*						
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Opt. Separate parts must be purchased.

FEATURES

Category		Icon	Combination	Indoor unit	No-Sensor										P-Sensor											
					NAXCKB(09/12/15/18)A112A*					NAXDKB(09/12/15/18)A112A*					PLA-A12/18/24/30/36/42EA7											
					NAXSRS	MX2 zone	MX3 zone	MX4 zone	MX5 zone	MX6 zone	NAXSRS	MX2 zone	MX3 zone	MX4 zone	MX5 zone	MX6 zone	P12-A	P18-A	P12-NA	MX3 zone	MX4 zone	MX5 zone		MX6 zone		
Functions	I-see Sensor	Radiant Temperature Control (3D I-see Sensor®)															•	•	•	•	•	•	•			
		AREA Temperature Monitor																•	•	•	•	•	•	•		
	Energy Saving	ENERGY STAR®															12/18/24/36	12/18/24/36	30/36							
		Demand Function (AAR-4DMAAU)																•	•	•						
	Air Quality	Fresh-air Intake			•	•	•	•	•	•								•	•	•	•	•	•	•		
		High-efficiency Filter																								
		Long-life Filter			•	•	•	•	•	•								•	•	•	•	•	•	•		
		Filter Check Signal			•	•	•	•	•	•								•	•	•	•	•	•	•		
	Air Distribution	Vertical Swing			•	•	•	•	•	•								•	•	•	•	•	•	•		
		Horizontal Swing																								
		High Ceiling Mode			•	•	•	•	•	•								•	•	•	•	•	•	•		
		Low Ceiling Mode																•	•	•	•	•	•	•		
		Auto Fan Speed Mode			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Convenience	Auto Restart			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		Low Temperature Cooling			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		12H On/Off Operation Timer																								
		24H On/Off Operation Timer																								
		Weekly Timer																								
	Maintenance	Self-Diagnostic Function			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		Failure Recall Function			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		Blue Fin			•			• ^{*1}	• ^{*1}	•	•			• ^{*1}	• ^{*1}	•	•	• ^{*2}	• ^{*2}			• ^{*1}	• ^{*1}	•		

*1 Branch box units only: NAXMM048A182**, NAXMM060A182**, NAXMPH66A142**, NAXMPH42A182**, and NAXMM048A182**

*2 See coast protection models only (-BS)

	P-Series																			
	PKA-A12/18/24/30/36/42AA7			PCA-A24/30/36/42KA7						PEAD-A12/18/24/30/36/42AA7								PVA-A12/18/24/30/36/42AA7		
	P12-A	P18-A	P24-A	P12-A	P18-A	P24-A	MX3 zone	MX4 zone	MX5 zone	P12-A	P18-A	P24-A	MX2 zone	MX3 zone	MX4 zone	MX5 zone	MX6 zone	P12-A	P18-A	P24-A
				Opt	Opt	Opt	Opt	Opt	Opt											
										12	12	30/36						12	12	30/36
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				Opt	Opt	Opt	Opt	Opt	Opt											
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	Opt	Opt	Opt	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
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	• *2	• *2		• *2	• *2			• *1	• *1	• *2	• *2				• *1	• *1	•	• *2	• *2	

Opt: Separate parts must be purchased.

Nv

Series



LINE-UP

HEAT PUMP

A multiple model line-up to choose from, each with various outstanding features. In addition to inverter-equipped wall-mounted models, floor-standing and multi-position air handlers can be selected. Choose the best style to match usage needs.

Wall-mounted Units

WPH Model



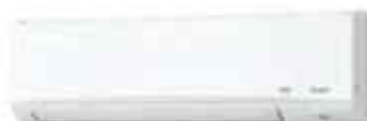
MSZ-EF Model



WST Model



WST Model



WMT Model WMT 115V Model



WEL Model



EZ FIT™ Ceiling Cassette Units

UKS Model



Multi-position Air Handler

AMT Model



Floor-mounted Units

FKS Model



Ceiling Cassette Unit

CKS Model



Horizontal-ducted Units

DKS Model



PEAD Model



COOLING ONLY

For applications with needs for only cooling, there are cooling-only models to choose from.

Wall-mounted Units

WST Model



WPH Model

The WPH Model is designed for optimum cooling/heating performance as well as operational comfort. Quiet, energy-saving operation is supported by some of our latest technologies. Advanced functions such as the 3D i-see Sensor® temperature control and Triple-action filtration raise room comfort levels to new heights.

NAXWPH06/09/12/15/18(A112A*)
NAXWPH18(A112A*)



ENERGY STAR® Certified for Entire Range of Series

The WPH Model has achieved an industry-leading efficiency of 33.1 SEER (NAXWPH06A112A*) and 30.5 SEER (NAXWPH09A112A*). All systems of the WPH Model feature high efficiencies and are ENERGY STAR® qualified, meaning that these units can save up to 25% on heating and cooling costs when installed correctly.



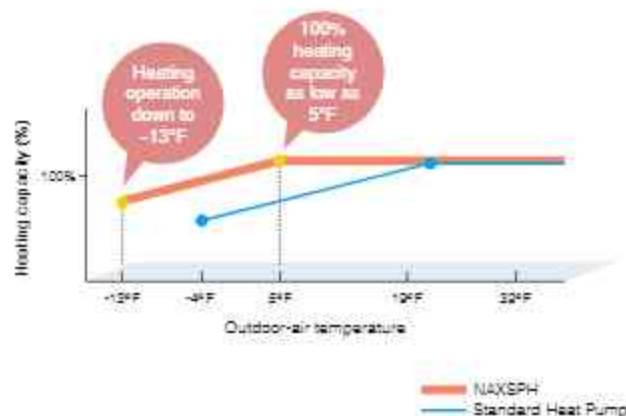
Pro-Heat INVERTER®

The WPH Model can provide heating even when it's minus 13° F outdoor ambient, producing up to 100% heating capacity at 5° F. These units offer year-round comfort even in extreme climates.

Operation guaranteed at minus 13° F,
100% heating capacity at 5° F

Base Heater equipped as standard*

The base heater restricts lowered capacity and operation shutdowns caused by the drain water freezing. This supports stable operation in low-temperature environments.



Without base heater

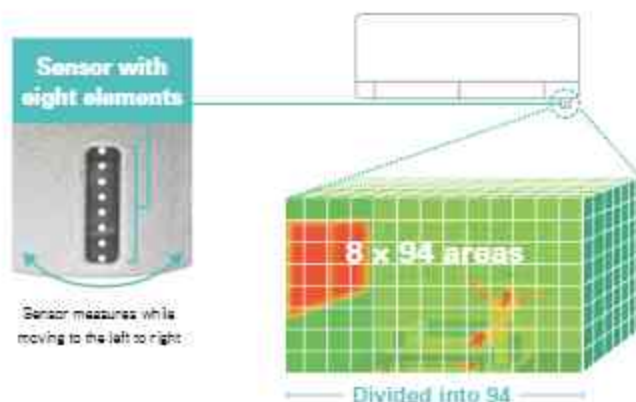


With base heater

*Standard for NAXSPB models
Optional for NAXSPH models

3D i-see Sensor

The WPH Model is equipped with 3D i-see Sensor®, an infrared-ray Sensor that measures the temperature at distant positions. While moving to the left and right, eight vertically arranged Sensor elements analyze the room temperature in three dimensions. This detailed analysis makes it possible to judge where people are in the room, thus allowing creation of features such as Indirect Airflow, to avoid airflow hitting people directly, and Direct Airflow to deliver airflow to where people are located.



Indirect Airflow

The Indirect Airflow setting can be used when the flow of air feels too strong or direct. For example, it can be used during cooling to avert airflow and prevent body temperature from becoming excessively cooled.



Direct Airflow

This setting can be used to directly target airflow at people such as for immediate comfort when coming indoors on a hot (cold) day.



Absence Detection

The Sensors detect whether there are people in the room. When no one is in the room the unit automatically switches to energy-saving mode.



The 3D i-see Sensor detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

Natural Flow

To create healthy airflow, the most important aspect is that the flow of air feels natural. Our solution to this is Natural Flow, thanks to our technology that freely and flexibly controls airflow.

Natural Flow (in Cooling)



Direct airflow (in Cooling)



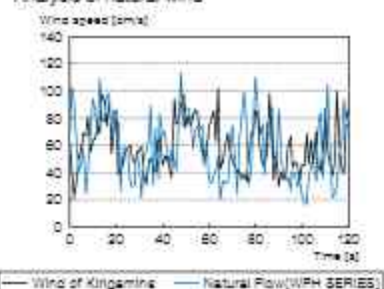
Through realizing airflow that imitates a natural breeze, we have avoided the unpleasant feeling of being hit directly by constant, unnatural airflow.

Base data for Natural Flow



Kirigamine Highland is one of the most famous sightseeing spots in Japan, and is visited by a large number of people for its pleasant and comfortable environment. We have attempted to recreate this Kirigamine Highland comfort. As part of development, seeking to create a natural airflow, we measured actual data on the refreshing breezes of Kirigamine Highland. Through imitating the natural waveforms of this data, we have been able to recreate almost-imperceptible currents of gently comforting airflow.

Analysis of natural wind



Triple-action Filtration

Air, like water, is something we use every day unconsciously. Yet, clean, fresh air is a vital part of creating a healthy space for humans. Healthy air is achieved with three filters: the Nano Platinum filter, the Deodorizing filter, and the Electrostatic anti-allergy enzyme filter.

Nano Platinum Filters

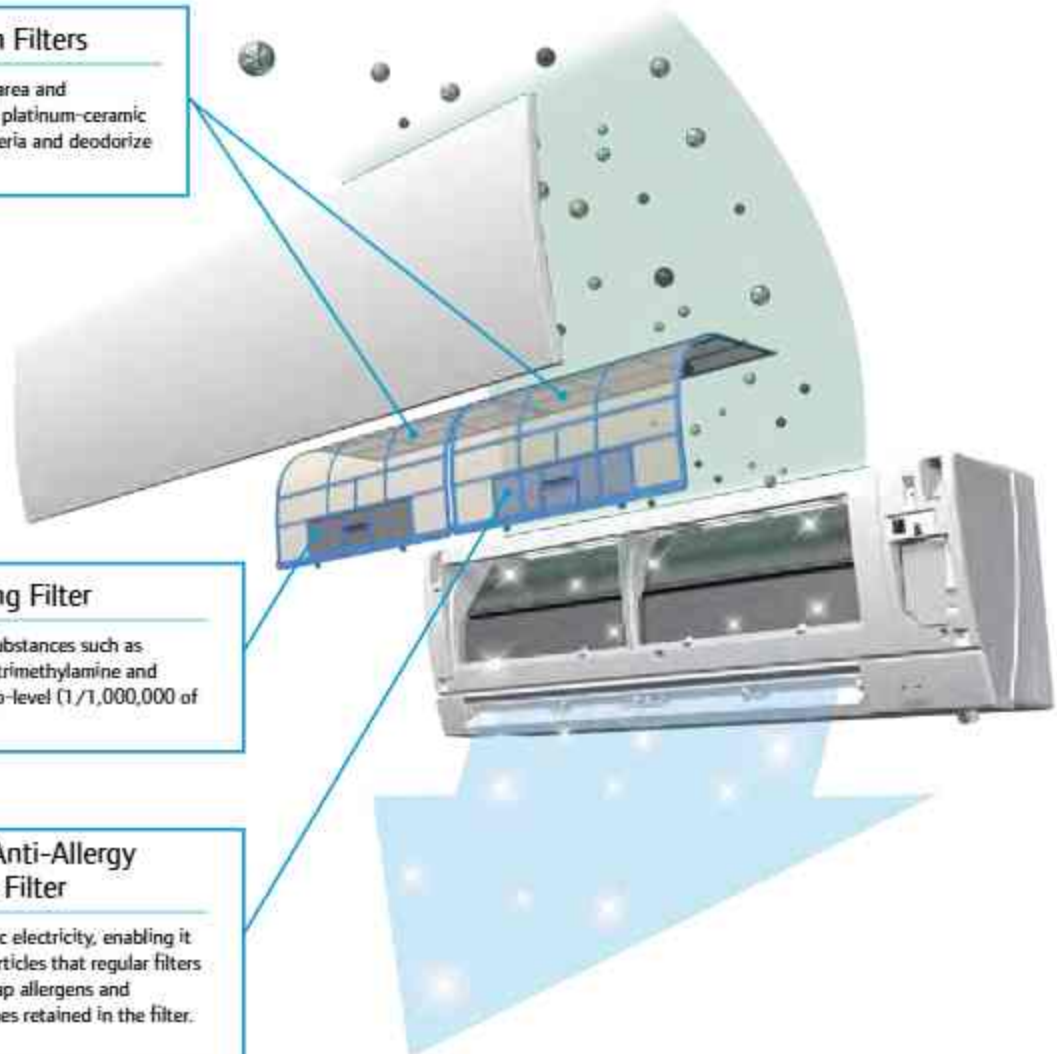
This filter has a large capture area and incorporates nanometer-sized platinum-ceramic particles that work to kill bacteria and deodorize the circulating air.

Deodorizing Filter

This filter removes chemical substances such as ammonia, methyl mercaptan, trimethylamine and hydrogen sulphide at the nano-level (1/1,000,000 of a millimeter).

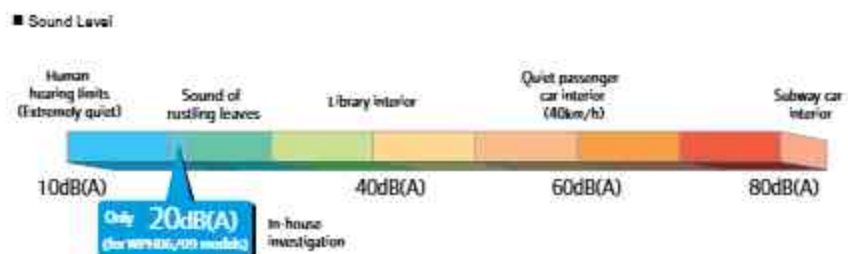
Electrostatic Anti-Allergy Enzyme Filter

This filter is charged with static electricity, enabling it to attract and capture dust particles that regular filters cannot capture. Also, it can trap allergens and decompose them using enzymes retained in the filter.



Quiet Operation

The indoor unit noise level is as low as 20dB(A) for WPH06/09 models, offering a peaceful inside environment.



WPH Model



Indoor Unit				NAXWPH06A112A*	NAXWPH09A112A*	NAXWPH12A112A*	NAXWPH15A112A*	NAXWPH18A112A*
Outdoor Unit				NAXSPH06A112A*	NAXSPH09A112A*	NAXSPH12A112A*	NAXSPH15A112A*	NAXSPH18A112A*
Cooling	Capacity	Rated ¹	B1 U/H	6,000	9,000	12,000	15,000	17,200
	Capacity Range	Min-Max	B1 U/H	1,700-9,000	1,700-12,000	2,500-13,000	6,400-19,000	6,400-21,000
	Power Input	Rated ¹	W	815	560	870	1,200	1,375
	Moisture Removal	l/min		0.2	0.6	1.0	4.0	4.8
	Sensible Heat Factor			0.900	0.920	0.880	0.700	0.690
Heating	Capacity at 47°F	Rated ²	B1 U/H	8,700	10,900	13,600	18,000	20,900
	Capacity Range	Min-Max	B1 U/H	1,000-14,000	1,000-18,000	3,700-21,000	5,150-24,000	5,150-30,000
	Power Input at 47°F	Rated ²	W	545	710	950	1,300	1,720
	Capacity at 17°F	Rated ³	B1 U/H	3,900	6,700	8,000	11,000	13,700
	Capacity at 5°F	Max ⁴	B1 U/H	10,700	12,200	13,600	18,000	20,900
Efficiency	SEER			35.1	30.5	26.1	22.0	21.0
	eER			19.1	16.1	13.8	12.5	12.5
	HSPF			13.5 (12.5)	13.5 (12.5)	12.0 (11.5)	12.0 (11.0)	12.0 (11.0)
	UDF			4.68	4.5	4.2	4.06	3.46
	ENERGY STAR® Certified			Yes	Yes	Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Mod Hi SH)	Dry	CHM	137-167-221-304-381	137-167-221-304-381	137-167-221-304-308	225-262-304-355-411	225-262-304-355-459
		Wet	CHM	117-143-190-261-328	117-143-190-261-328	117-143-190-261-342	194-225-261-305-354	194-225-261-305-395
	Air Flow Rate - Heating (Quiet Lo Mod Hi SH)	Dry	CHM	146-167-225-325-437	140-167-225-325-437	140-167-225-325-454	201-254-317-394-497	201-254-317-394-514
	Sound Pressure Level (Quiet Lo Mod Hi SH)	Cooling	dB(A)	21-23-29-36-40	20-23-29-36-40	21-24-29-36-41	27-31-35-39-44	27-31-35-39-47
		Heating	dB(A)	20-24-29-36-42	20-24-29-36-42	21-24-29-36-42	25-29-34-39-46	25-29-34-39-46
	External Static Pressure		In. W.G.					
	Condensate Lift Mechanism	Max Distance	In. (mm)					
		H	In. (mm)	12 (11/16) (305 (17))	12 (11/16) (305)	12 (11/16) (305 (17))	12 (11/16) (305 (17))	12 (11/16) (305 (17))
	Dimensions	W	In. (mm)	36 7/16 (925)	36 7/16 (925)	36 7/16 (925)	36 7/16 (925)	36 7/16 (925)
		D	In. (mm)	9 9/16 (234)	9 9/16 (234)	9 9/16 (234)	9 9/16 (234)	9 9/16 (234)
Outdoor Unit	Weight	lbs (kg)		29 (13.5)	29 (13.5)	29 (13.5)	29 (13.5)	29 (13.5)
	MCA	Δ		11.0	11.0	11.0	16.0	16.0
	MCO ₂	Δ		15	15	15	20	20
		H	In. (mm)	21 5/8 (550)	21 5/8 (550)	21 5/8 (550)	34 5/8 (880)	34 5/8 (880)
	Dimensions	W	In. (mm)	31 1/2 (800)	31 1/2 (800)	31 1/2 (800)	33 1/16 (840)	33 1/16 (840)
		D	In. (mm)	11 1/4 (285)	11 1/4 (285)	11 1/4 (285)	13 (330)	13 (330)
	Weight	lbs (kg)		81 (37)	81 (37)	83 (38)	124 (56)	124 (56)
	Air Flow Rate (Cooling/Heating)	CHM		1074/1202	1074/1202	1074/1202	1332/1634	1332/1634
	Sound Pressure Level	Cooling	dB(A)	47	48	49	51	52
		Heating	dB(A)	48	49	51	55	55
Piping	Diameter	Gas (L.U.)	In. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
		Liquid (L.U.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)
		Indoor Drain	In. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
	Max. Length	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)	100 (30)
Electrical	Max. Height	ft (m)		40 (12)	40 (12)	40 (12)	50 (15)	50 (15)
	Outdoor Indoor ⁵	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Recommended Breaker Size		Δ		15	15	15	20	20
Refrigerant Type				H410A	H410A	H410A	H410A	H410A
Guaranteed Temperature Operation Range	Cooling ⁶	°F DB (°C DB)		14.0 to 115.0 (10.0 to 46.0)				

Abstract.

AHP: Fixed Conditions
(Fixed data is determined at a fixed compressor speed)

Cooling (Indoor & Outdoor)

^bHeating at 47°F (index of Quedner).^aHeating at 17°F (indoor // Outdoor)^b Heating at 5°F (indoor / Outdoor).

*F AD DB, 67 WB / 95 DB, 75 WB

F 70 DB, 60 WB // 47 DB, 43 WB

°F 70 DB, 60 WB // 17 DB, 15 WB

70 CB, 60 WB // 5 CB, 4 WB

* Author's address: Department of Psychology, University of California, San Diego, La Jolla, CA 92037, USA.

*Applications should be restricted to common conditions and to common populations in a population-based study.

MSZ-EF Model

Developed to complement modern interior room décor, the EF Model are available in three colors specially chosen to blend in naturally wherever installed.

MSZ-EF09/12/15/18NAB/S/W



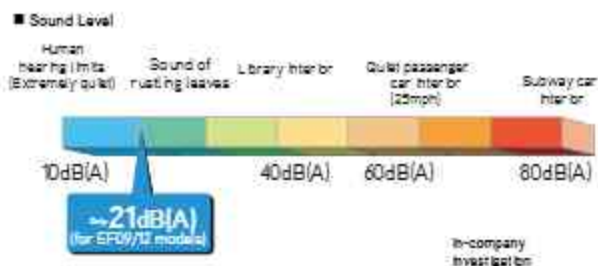
A Stylish Line-up Matches Any Room Décor

The streamlined wall-mounted indoor units have eloquent edges, expressing sophistication and quality. Combining impressively low power consumption and quiet yet powerful performance, these units provide a best-match scenario for diverse interior designs while simultaneously ensuring maximum room and energy savings.



Quiet Operation All Day Long

Our advanced Quiet Mode fan speed setting provides super-quiet operation as low as 21dB(A) for EF09/12 models. This unique feature makes the EF Model ideal for use in any situation.



Superior Exterior and Operating Design Concept

The indoor unit of the EF Model keeps its amazingly thin form even during operation. The only physical change notable is the movement of the variable vent. As a result, a slim attractive look is maintained.



MSZ-EF Model



Indoor Unit



MSZ-EF09/12/15/18 NAB**
MSZ-EF09/12/15/18 NAB
MSZ-EF09/12/15/18 NAW

Glossy Black
Matte Silver
Glossy White

*Soft-dry Cloth is enclosed with Black models.

Outdoor Unit

For MX Connection
Only

* To confirm compatibility with the MX Model multi-zone system, refer to MX Model page.

Remote Controller



Indoor Unit				MSZ-EF09N/W(S)/B	MSZ-EF12N/W(S)/B	MSZ-EF15N/W(S)/B	MSZ-EF18N/W(S)/B
Cooling	Capacity	Rated *	B1 U/H				
	Capacity Range	Min-Max	B1 U/H				
	Power Input	Rated *	W				
	Minimum Removal	Rated *					
	Sensible Heat Factor						
Heating	Capacity at 47°F	Rated *	B1 U/H				
	Capacity Range	Min-Max	B1 U/H				
	Power Input at 47°F	Rated *	W				
	Capacity at 17°F	Max	B1 U/H				
	Capacity at 0°F	Max *	B1 U/H				
Efficiency	SEER						
	SEER						
	HSPF						
	COP						
	ENERGY STAR® Certified						
Indoor Unit	Air Flow Rate: Cooling	Dry	CFM	141 162 222 278 371	141 162 222 278 371	205 235 272 314 364	205 240 279 328 388
	(Quiet Lo-Med-Hi-SH)	Wet	CFM	121 140 191 252 319	121 140 191 252 319	176 200 234 270 313	176 206 240 282 334
	Air Flow Rate: Heating	Dry	CFM	141 162 219 314 420	141 162 219 314 448	194 222 275 320 448	226 258 318 392 490
	(Quiet Lo-Med-Hi-SH)						
	Sound Pressure Level	Cooling	dB(A)	21 23 25 36 42	21 24 25 36 42	28 31 35 39 42	30 35 39 43 49
	(Quiet Lo-Med-Hi-SH)	Heating	dB(A)	21 24 25 37 45	21 24 30 38 46	28 30 35 41 48	30 35 37 43 49
	External Static Pressure		In. W.G.				
	Condensate Lift Mechanism	Max Distance	In. (mm)				
		H	In. (mm)	11 3/4 (295)	11 3/4 (295)	11 3/4 (295)	11 3/4 (295)
	Dimensions	W	In. (mm)	34 13/16 (884)	34 13/16 (884)	34 13/16 (884)	34 13/16 (884)
Outdoor Unit		U	In. (mm)	7 11/16 (195)	7 11/16 (195)	7 11/16 (195)	7 11/16 (195)
	Weight	lbs (kg)		26 (11.8)	26 (11.8)	26 (11.8)	26 (11.8)
	MLA	A					
	MOLP	A					
	Dimensions	H	In. (mm)				
Piping		W	In. (mm)				
		U	In. (mm)				
	Weight	lbs (kg)					
	Air Flow Rate	(Cooling/Heating)	CFM				
	Sound Pressure Level	Cooling	dB(A)				
Electrical		Heating	dB(A)				
	Diameter	Gas (G.U.)	In. (mm)				
		Liquid (L.U.)	In. (mm)				
	Max. Length	Indoor Drain	In. (mm)	58 (15.88)	58 (15.88)	58 (15.88)	58 (15.88)
	Max. Height		ft (m)				
Refrigerant Type							
	Outdoor Indoor *	V. ph. Hz					
Guaranteed Temperature Operation Range							
	Cooling *	°F DB (°C DB)					
	Heating	°F DB (°C DB)					

Notes:

AHRI Rated Conditions: Cooling (Indoor // Outdoor) °F 80 DB, 87 WB // 55 DB, 75 WB

Rated data is determined at a fixed compressor speed: Heating at 47°F (Indoor // Outdoor) °F 70 DB, 80 WB // 47 DB, 43 WB

Conditions: Heating at 17°F (Indoor // Outdoor) °F 70 DB, 80 WB // 17 DB, 15 WB

*Indoor unit receive power from outdoor unit through field supplied interconnecting wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

NA(X/Y)WST Model

Introducing a compact and stylish indoor unit with amazingly quiet performance. Not only are neat installations in small bedrooms, you can increase energy-savings by selecting the optimal capacity required for each room.

NA(X/Y)WST(30/36)A112A*
NA(X/Y)WST24A112A*
NA(X/Y)WST18A112A*
NAXWST(06/09/12/15)A112A*
NAYWST(09/12/15)A112A*



ENERGY STAR® Qualified for Entire Range of NA(X/Y)WST Model

All systems of the NAXWST and NAYWST Model feature high efficiencies and are ENERGY STAR® qualified.



Wide Line-up with Family Design

Eight different capacities (6,000 BTU/H to 36,000 BTU/H) are available to meet your diversified air conditioning needs, and all capacities from 6,000 BTU/H to 36,000 BTU/H indoor units have a family design. From small rooms to large living rooms, it is possible to coordinate residences with a unified design.



NAXWST(06/09/12/15)A112A*
NAYWST(09/12/15)A112A*



NA(X/Y)WST18A112A*



NA(X/Y)WST24A112A*



NA(X/Y)WST(30/36)A112A*

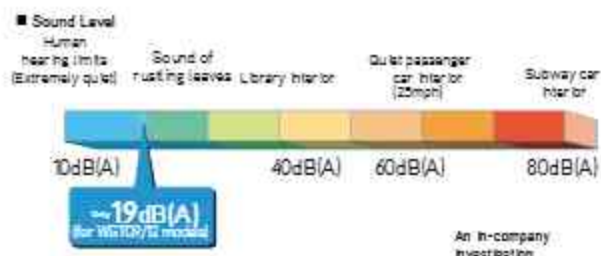
Compact Design

Slim and compact indoor units provide enhanced, industry-leading performance for cooling and heating.



Quiet Operation

The indoor unit noise level is as low as 19dB(A) for WST09/12 models, offering a peaceful inside environment.



Powerful Operation (WST24, WST30/36)

Depending on the capacity, the unit will automatically adjust the fan speed and set temperature for 15 minutes. Rapid cooling and heating will make the room comfortable more quickly.

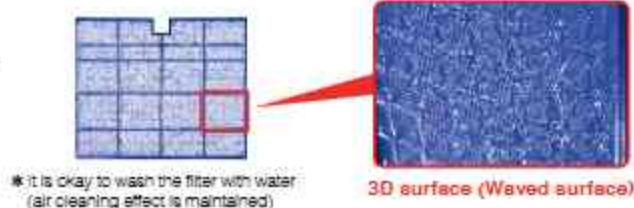
Fan speed: Exclusive speed for POWERFUL mode.

Horizontal Vane: Set position, or downward airflow position during AUTO setting.



Nano Platinum Filter (NAXWST06, NA(X/Y)WST09/12/15/18/24)

This filter generates stable antibacterial and deodorizing effects. The size of the three-dimensional surface has been increased as well, enlarging the filter capture area. These features give the Nano Platinum Filter better dust collection performance than conventional filters. The superior air cleaning effectiveness raises room comfort yet another level.



Smart Set (NAXWST06, NA(X/Y)WST09/12/15/18/24)

Smart Set is a simplified setting function that recalls the preferred (pre-set) temperature by pressing a single button on the remote controller. Press the same button twice in repetition to immediately return to the previous temperature setting. Using this function contributes to comfortable, waste-free operation, realizing the most suitable air conditioning settings and saving on power consumption when, for example, leaving the room or going to bed.



NA(X/Y)WST Model



Indoor Unit				NAYW S108A112A*	NAYW S112A112A*	NAYW S115A112A*	NAYW S118A112A*	NAYW S124A112A*	NAYW S130A112A*	NAYW S136A112A*
Outdoor Unit				NAYSS108A112A*	NAYSS112A112A*	NAYSS115A112A*	NAYSS118A112A*	NAYSS124A112A*	NAYSS130A112A*	NAYSS136A112A*
Cooling	Capacity	Rated *	BTU/H	9,000	12,000	14,000	18,000	22,500	30,700	34,600
	Capacity Range	Min-Max	BTU/H	3,600-12,000	1,500-18,000	3,100-18,200	5,800-22,000	8,200-31,400	9,800-30,600	9,800-34,600
	Power Input	Rated *	W	585	205	1,090	1,340	1,800	3,380	4,240
	Maximum Removal	British		1.5	2.5	2.7	2.1	3.1	5.5	11.9
	Sensible Heat Factor			0.820	0.770	0.790	0.870	0.750	0.640	0.620
Heating	Capacity at 47°F	Rated *	BTU/H							
	Capacity Range	Min-Max	BTU/H							
	Power Input at 47°F	Rated *	W							
	Capacity at 17°F	Rated *	BTU/H							
	Capacity at 5°F	Max *	BTU/H							
Efficiency	SEER			34.0	25.1	21.6	20.5	20.5	16.0	15.1
	EER			15.4	13.0	13.0	13.4	12.5	9.1	8.2
	HSPF									
	CEEF									
	ENERGY STAR® Certified			Yes	Yes	Yes	Yes	Yes	No	No
Indoor Unit	Air Flow Rate: Cooling (Quiet/Low Mod/H-SH)	Dry	CFM	145/170/297/321/339	145/170/297/321/339	205/272/395/420/533	258/332/417/522/646	388/487/544/628/738	560/693/848/887	580/693/848/887
		Wet	CFM	100/134/201/280/304	100/134/201/280/304	170/237/300/385/438	292/299/375/470/581	347/420/487/562/661	500/576/718/718	500/576/718/718
	Air Flow Rate: Heating (Quiet/Low Mod/H-SH)	Dry	CFM							
	Sound Pressure Level (Quiet/Low Mod/H-SH)	Cooling	dB(A)	19/22/30/37/43	19/22/30/37/43	20/32/38/44/40	28/33/38/44/40	34/41/45/40/39	32/42/40/51	32/42/40/51
		Heating	dB(A)							
	External Static Pressure	In. W.G.								
	Condensate Lift Mechanism	Max Distance	In. (mm)							
	Dimensions	H	In. (mm)	11 5/8 (295)	11 5/8 (295)	11 5/8 (295)	12 (305)	12 13/16 (325)	14 5/8 (365)	14 5/8 (365)
		W	In. (mm)	31 7/16 (798)	31 7/16 (798)	31 7/16 (798)	36 5/16 (928)	43 5/16 (1100)	46 1/16 (1170)	46 1/16 (1170)
		D	In. (mm)	9 1/8 (232)	9 1/8 (232)	9 1/8 (232)	9 13/16 (250)	9 5/8 (238)	11 5/8 (295)	11 5/8 (295)
Outdoor Unit	Weight	lbs (kg)		22 (10.0)	22 (10.0)	22 (10.0)	28 (13.0)	37 (17.0)	40 (18.0)	40 (18.0)
	MCA	A		7.0	7.0	9.0	14.0	17.1	21.0	21.0
	MCHP	A		15	15	15	15	20	25	25
	Dimensions	H	In. (mm)	21 5/8 (550)	21 5/8 (550)	21 5/8 (550)	34 5/8 (880)	34 5/8 (880)	38 7/16 (950)	38 7/16 (950)
		W	In. (mm)	31 1/2 (800)	31 1/2 (800)	31 1/2 (800)	38 1/16 (940)	38 1/16 (940)	38 1/16 (940)	38 1/16 (940)
		D	In. (mm)	11 1/4 (286)	11 1/4 (286)	11 1/4 (286)	13 (330)	13 (330)	13 (330)	13 (330)
	Weight	lbs (kg)		81 (36.7)	81 (36.7)	81 (36.7)	121 (55)	119 (54)	126 (57)	126 (57)
	Air Flow Rate (Cooling/Heating)	CFM		1225/	1225/	1248/	1621/	1759/	1941/	1941/
	Sound Pressure Level	Cooling	dB(A)	48	48	48	54	55	55	56
		Heating	dB(A)							
Piping	Diameter	Gas (D.U.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (D.U.)	In. (mm)	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)
		Indoor Drain	In. (mm)	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)
	Max. Length	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)	100 (30)	100 (30)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	40 (12)	50 (15)	50 (15)	50 (15)	50 (15)
Electrical	Outdoor Indoor *	V, ph, 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
	Recommended Breaker Size	A		15	15	15	15	20	25	25
Refrigerant type				R410A	R410A	R410A	R410A	R410A	R410A	R410A
Guaranteed Comfortable Operation Range	Cooling *	°F DB (°C DB)		14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)
	Heating	°F DB (°C DB)								

Notes:
 AHRI Rated Conditions
 (Rated data is determined at a fixed compressor speed)
 Conditions
 *Indoor unit receive power from outdoor units through field supplied interconnecting wiring.
 *Applications should be restricted to comfort cooling only, equipment cooling applications are not recommended for low ambient temperature conditions.

NA(X/Y)WST Model



Indoor Unit				NAXW S106A112A*	NAXW S109A112A*	NAXW S112A112A*	NAXW S115A112A*	NAXW S118A112A*	NAXW S124A112A*	NAXW S130A112A*	NAXW S136A112A*	
Outdoor Unit												
Cooling	Capacity	Rated *	BTU/H		9,000	12,000	14,000	16,000	22,400	30,000	36,000	
	Capacity Range	Min-Max	BTU/H		8,600-12,200	1,500-18,600	3,100-16,200	5,600-22,000	8,200-31,400	9,600-30,700	9,600-35,200	
	Power Input	Rated *	W		560	920	1,080	1,340	1,800	3,650	4,900	
	Maximum Horizontal	Feet/in			1.5	2.5	2.7	2.1	5.1	9.9	11.3	
	Sensible Heat Factor				0.820	0.740	0.800	0.870	0.750	0.640	0.620	
Heating	Capacity at 47°F	Rated *	BTU/H		10,000	14,400	16,000	21,600	27,600	32,000	35,200	
	Capacity Range	Min-Max	BTU/H		4,300-15,900	2,000-18,100	4,800-20,300	5,400-25,000	7,500-36,900	8,700-34,000	8,700-36,000	
	Power Input at 47°F	Rated *	W		720	1,100	1,080	1,080	2,840	3,360	3,840	
	Capacity at 17°F	Rated *	BTU/H		6,700	9,200	12,200	13,600	16,000	19,000	21,600	
	Max	BTU/H			10,200	12,000	15,400	16,200	24,600	20,800	22,400	
Efficiency	Capacity at 5°F	Max *	BTU/H		8,170	9,790	13,680	14,904	10,820			
	SEER				34.8	25.1	21.6	20.5	20.5	14.5	14.5	
	EER				13.4	13.0	13.0	13.4	12.5	9.0	7.6	
	HSPF				12.8	12.5	11.7	11.2	10.0	8.2	8.2	
	COP				4.44	3.84	3.3	3.77	3.46	2.84	2.69	
ENERGY STAR® Certified					Yes	Yes	Yes	Yes	Yes	No	No	
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Mod Hi SH)	Dry	CHM	145/170/297 321/309	145/170/297 321/309	145/170/297 321/309	205/272/335 420/533	258/332/417 522/646	388/469/544 628/738	389/639/848 887	389/639/848 887	
		Wet	CHM	109/134/201 289/304	109/134/201 289/304	109/134/201 289/304	170/237/300 385/498	232/299/375 470/581	347/420/487 592/708	350/576/703 738	350/576/703 738	
	Air Flow Rate - Heating (Quiet Lo Mod Hi SH)	Dry	CHM	145/170/297 321/406	145/170/297 321/406	145/170/297 321/406	205/247/304 307/403	217/385/429 603/738	388/469/544 628/738	445/639/848 887	445/639/848 887	
		Heating	dB(A)	19/22/30 37/43	19/22/30 37/43	19/22/30 37/43	25/32/38 44/49	28/33/38 44/49	34/41/45 49/53	32/42/49/51	32/42/49/51	
	Sound Pressure Level (Quiet Lo Mod Hi SH)	Heating	dB(A)	19/22/30 37/43	19/22/30 37/43	19/22/30 37/43	25/30/35 40/46	28/33/38 43/48	32/41/45 49/52	34/42/49/50	34/42/49/50	
		External Static Pressure		In. W.G.								
	Condensate Lift Mechanism	Max Distance	In. (mm)									
	Dimensions	H	In. (mm)	11/5/8 (295)	11/5/8 (295)	11/5/8 (295)	11/5/8 (295)	12 (305)	12/13/16 (325)	14/3/8 (365)	14/3/8 (365)	
		W	In. (mm)	31/7/16 (798)	31/7/16 (798)	31/7/16 (798)	31/7/16 (798)	36/5/16 (925)	43/5/16 (1100)	46/1/16 (1170)	46/1/16 (1170)	
	Weight	lbs (kg)		22 (10.0)	22 (10.0)	22 (10.0)	22 (10.0)	28 (13.0)	37 (17.0)	40 (18.0)	40 (18.0)	
MCA	A			9.0	9.0	10.0	14.0	17.0	21.0	21.0		
MCCF	A			15	15	15	15	20	25	25		
Outdoor Unit	Dimensions	H	In. (mm)	21/5/8 (550)	21/5/1 (550)	21/5/10 (550)	34/5/8 (880)	34/5/8 (880)	38/7/16 (950)	33/7/16 (850)		
		W	In. (mm)	31/1/2 (800)	31/1/2 (800)	31/1/4 (800)	33/1/16 (840)	33/1/16 (840)	33/1/16 (840)	33/1/16 (840)		
	Weight	lbs (kg)	31 (157)	31 (157)	31 (157)	43 (390)	43 (390)	43 (390)	43 (390)	43 (390)		
		Air Flow Rate (Cooling/Heating)	CHM	1229/1172	1229/1172	1243/1129	1691/1091	1769/1701	1941/1941	1941/1941		
	Sound Pressure Level	Cooling	dB(A)	48	49	49	54	55	55	56		
Piping	Diameter	Gas (L.O.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)		
		Liquid (L.O.)	In. (mm)	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)		
	Indoor Drain	In. (mm)	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)			
	Max. Length	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)	100 (30)	100 (30)	100 (30)		
	Max. Height	ft (m)		40 (12)	40 (12)	40 (12)	50 (15)	50 (15)	50 (15)	50 (15)		
Electrical	Outdoor Indoor *	V, ph, Hz		208/230, 1, 60	208/250, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60		
	Recommended Breaker Size	A		15	15	15	15	25	25	25		
Refrigerant Type					R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Guaranteed Temperature Operation Range	Cooling *	°F/DB (°C/DB)		14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	
	Heating	°F/DB (°C/DB)		-4.0 to 75.0 (20.0 to 24.0)	-4.0 to 75.0 (20.0 to 24.0)	-4.0 to 75.0 (20.0 to 24.0)	-4.0 to 75.0 (20.0 to 24.0)	-4.0 to 75.0 (20.0 to 24.0)	-4.0 to 75.0 (20.0 to 24.0)	-4.0 to 75.0 (20.0 to 24.0)	-4.0 to 75.0 (20.0 to 24.0)	

Notes

AHRI Fixed Condition
(Fixed data is determined
in a fixed compressor speed)

Conditions

*Index with constant power law number with total supply of connected wires

*Applications should be restricted to cooling only; equipment cooling applications are not recommended for in-vehicle temperature conditions.

WMT Model

Compact, high-performance indoor and outdoor units and advanced inverter technologies provide superior energy savings and comfort in all rooms.

Stylish Design with Flat Panel Front

A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



Econo Cool Energy-Saving Feature

Econo Cool is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 4° F without any loss in comfort, thereby realizing a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

	Conventional	Econo Cool
Ambient Temperature	95° F	95° F
Set Temperature	77° F	81° F
Perceived Temperature	80° F	85° F

Air Filter

This filter can remove dust particles from the air.

Anti-allergy Enzyme Filter*

(*Optional)

This filter works to trap allergens such as bacteria and decompose them using enzymes retained in the filter.

NAJXWMT09/12/13A/12A*

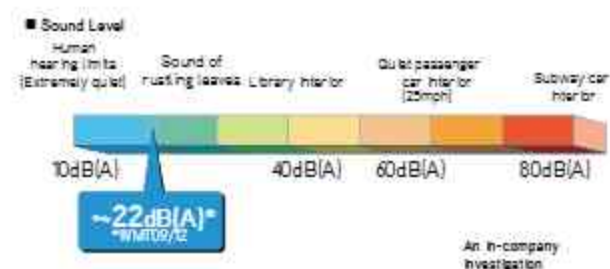


NAJXWMT18/24A/12A*



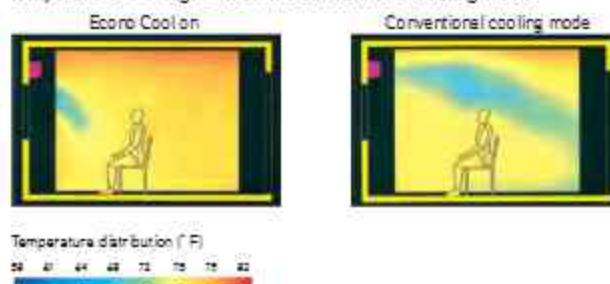
Quiet Operation

Quiet, relaxing space is within reach. Operational noise is a low 22dB(A) (0.9/12 classes). Operation is so silent you might even forget the air conditioner is on.



Econo Cool Mode

A comfortable room environment is maintained even when setting the temperature 4° F higher than the conventional cooling mode.



12-hour Timer

Allows for one ON/OFF cycle during a 12-hour period.

Blue Fin Condenser

Anti-corrosion treatment is done to the heat exchanger of the outdoor units. This coating prevents the corrosion of the aluminum fins caused by salt in the air especially in coastal areas. (Corrosion of the heat exchanger will effect the efficiency and performance of the air conditioner.)

WMT Model



Indoor Unit				NAXWM109A112A*	NAXWM112A112A*	NAXWM115A112A*	NAXWM118A112A*	NAXWM124A112A*
Outdoor Unit				NAXSM109A112A*	NAXSM112A112A*	NAXSM115A112A*	NAXSM118A112A*	NAXSM124A112A*
Cooling	Capacity	Rated*	B1U/H	9,000	12,000	14,000	17,200	22,500
	Capacity Range	Min/Max	B1U/H	8,800 - 10,000	8,800 - 12,200	8,100 - 15,000	5,800 - 18,000	5,800 - 22,500
	Power Input	Rated*	W	750	1,210	1,170	1,540	2,190
	Moisture Removal	Rated*	l/h	1.5	2.5	2.7	2.1	2.9
	Sensible Heat Factor			0.820	0.770	0.780	0.860	0.890
Heating	Capacity at 47°F	Rated*	B1U/H	10,000	12,200	18,000	18,000	26,000
	Capacity Range	Min/Max	B1U/H	4,500 - 11,800	4,500 - 14,500	4,800 - 18,500	5,400 - 20,900	5,400 - 26,000
	Power Input at 47°F	Rated*	W	900	990	1,000	1,500	2,500
	Capacity at 17°F	Rated*	B1U/H	6,700	7,600	11,500	11,500	18,500
	Capacity at 5°F	Max†	B1U/H	7,200	900	14,000	15,000	18,500
Efficiency	SEER			18.0	18.0	18.0	18.0	18.0
	EEER			12.0	11.5	12.0	10.5	8.5
	HSPF			10	10	10	10	10
	CEP			8.55	8.91	8.8	8.32	10.05
	ENERGY STAR® Certified			No	No	No	No	No
Indoor Unit	Air Flow Rate - Cooling	Dry	CFM	170/257/321/395	170/257/321/395	272/395/420/538	328/431/530/625	358/431/530/702
		Wet	CFM	134/201/286/364	134/201/286/364	237/300/385/498	295/388/477/562	318/388/477/632
	Air Flow Rate - Heating	Dry	CFM	170/257/321/406	170/257/321/406	247/304/367/468	307/431/530/625	346/448/579/702
		Wet	CFM	134/201/286/364	134/201/286/364	237/300/385/498	295/388/477/562	318/388/477/632
	Sound Pressure Level	Cooling	dB(A)	22/30/37/43	22/30/37/43	32/38/44/46	30/37/42/47	33/38/44/50
		Heating	dB(A)	22/30/37/43	22/30/37/43	30/35/40/46	30/37/42/47	32/38/44/50
	External Static Pressure		in. W.G.					
	Condensate Lift Mechanism	Max. Distance	in. (mm)					
	Dimensions	H	in. (mm)	11 5/8 (295)	11 5/8 (295)	11 5/8 (295)	12 (305)	12 (305)
		W	in. (mm)	31 7/16 (798)	31 7/16 (798)	31 7/16 (798)	36 5/16 (928)	36 5/16 (928)
		U	in. (mm)	9 1/8 (232)	9 1/8 (232)	9 1/8 (232)	9 1/8 (232)	9 1/8 (232)
Outdoor Unit	Weight	lbs (kg)		22 (10.0)	22 (10.0)	22 (10.0)	28 (13.0)	28 (13.0)
	MCA	A		9.0	9.0	10.0	10.0	14.0
	MURP	A		15	15	15	15	15
	Dimensions	H	in. (mm)	21 5/8 (550)	21 5/8 (550)	21 5/8 (550)	21 5/8 (550)	34 5/8 (880)
		W	in. (mm)	31 1/2 (800)	31 1/2 (800)	31 1/2 (800)	31 1/2 (800)	33 1/16 (840)
		U	in. (mm)	11 1/4 (286)	11 1/4 (286)	11 1/4 (286)	11 1/4 (286)	19 (480)
	Weight	lbs (kg)		73 (33.1)	73 (33.1)	81 (36.7)	81 (36.7)	121 (55)
	Air Flow Rate (Cooling/Heating)	CFM		1151/1225	1151/1225	1243/1225	1243/1225	1651/1651
	Sound Pressure Level	Cooling	dB(A)	46	46	46	50	54
		Heating	dB(A)	50	51	51	51	55
Piping	Diameter	Gas (U.U.)	in. (mm)	5/8 (15.2)	5/8 (15.2)	1/2 (12.7)	1/2 (12.7)	5/8 (15.8)
		Liquid (U.U.)	in. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
		Indoor Drain	in. (mm)	5/8 (15.8)	5/8 (15.8)	5/8 (15.8)	5/8 (15.8)	5/8 (15.8)
	Max. Length	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	40 (12)	40 (12)	50 (15)
Electrical	Outdoor Indoor*	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	15	15	15
Refrigerant Type				R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling*	°F DB (°C DB)		14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)
	Heating	°F DB (°C DB)		4.0 to 75.0 (20.0 to 24.0)	4.0 to 75.0 (20.0 to 24.0)	4.0 to 75.0 (20.0 to 24.0)	4.0 to 75.0 (20.0 to 24.0)	4.0 to 75.0 (20.0 to 24.0)

Notes:

AHRI Rated Conditions
(Rated data is determined
at a fixed compressor speed)
Conditions

Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 55 DB, 75 WB
Heating at 47°F (Indoor // Outdoor) °F 70 DB, 80 WB // 47 DB, 43 WB
Heating at 17°F (Indoor // Outdoor) °F 70 DB, 80 WB // 17 DB, 15 WB
Heating at 5°F (Indoor // Outdoor) °F 70 DB, 80 WB // 5 DB, 4 WB

*Indoor units receive power from outdoor units through field supplied interconnecting wiring.

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

WMT 115V Model

The 115 volt single-zone WMT 115V Model is ideal for homes or businesses with electrical service restrictions.

NA1XWMT(09/12)A111A*



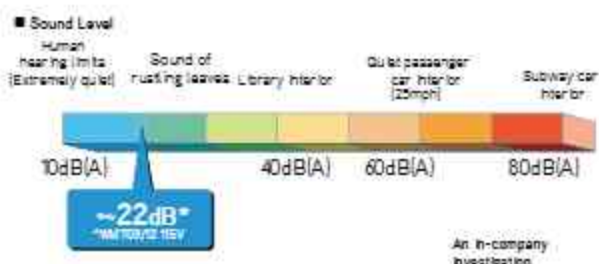
Stylish Design with Flat Panel Front

A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



Quiet Operation

Quiet, relaxing space is within reach. Operational noise is a low 22dB(A) (09/12 classes). Operation is so silent you might even forget the air conditioner is on.



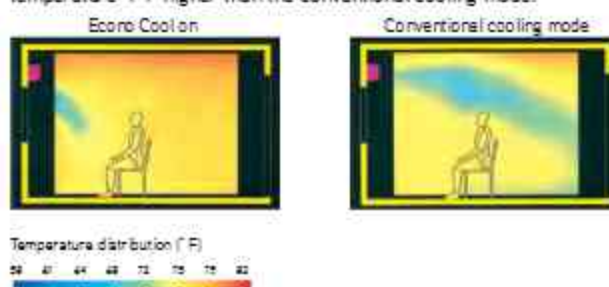
Econo Cool Energy-Saving Feature

Econo Cool is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 4° F without any loss in comfort, thereby realizing a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

	Conventional	Econo Cool
Ambient Temperature	95° F	95° F
Set Temperature	77° F	81° F
Perceived Temperature	80° F	85° F

Econo Cool Mode

A comfortable room environment is maintained even when setting the temperature 4° F higher than the conventional cooling mode.



Air Filter

This filter can remove dust particles from the air.

12-hour Timer

Allows for one ON/OFF cycle during a 12-hour period.

Anti-allergy Enzyme Filter*

(*Optional)

This filter works to trap allergens such as bacteria and decompose them using enzymes retained in the filter.

Blue Fin Condenser

Anti-corrosion treatment is done to the heat exchanger of the outdoor units. This coating prevents the corrosion of the aluminum fins caused by salt in the air especially in coastal areas. (Corrosion of the heat exchanger will effect the efficiency and performance of the air conditioner.)

WMT 115V Model



Indoor Unit				Outdoor Unit				Remote Controller			
NAXWMT09/12(A11)A*				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
Cooling				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
Capacity	Rated *	B1 U/H		9,000				12,000			
Capacity Range	Min Max	B1 U/H		8,800 - 10,000				9,800 - 12,000			
Power Input	Rated *	W		750				1,215			
Moisture Removal	Rated *	l/h		1.5				2.5			
Sensible Heat Factor				0.820				0.770			
Heating				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
Capacity at 47°F	Rated *	B1 U/H		10,900				12,800			
Capacity Range	Min Max	B1 U/H		4,000 - 11,800				4,500 - 14,500			
Power Input at 47°F	Rated *	W		900				900			
Capacity at 17°F	Rated *	B1 U/H		6,700				7,600			
Capacity at 5°F	Max *	B1 U/H		5,900				7,440			
Efficiency				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
SEER				17.0				17.0			
EER				12.0				9.9			
HSPF				9				9			
CEEF				8.55				8.61			
ENERGY STAR® Certified				No				No			
Indoor Unit				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
Air Flow Rate - Cooling (Quiet Lo Mod Hi SH)	Dry	C-H		170 / 287 / 321 / 339				170 / 287 / 321 / 339			
Air Flow Rate - Heating (Quiet Lo Mod Hi SH)	Wet	C-H		134 / 201 / 286 / 354				134 / 201 / 286 / 354			
Sound Pressure Level (Quiet Lo Mod Hi SH)	Dry	C-H		170 / 287 / 321 / 406				170 / 287 / 321 / 406			
Sound Pressure Level (Quiet Lo Mod Hi SH)	Cooling	dB(A)		22 / 30 / 37 / 43				22 / 30 / 37 / 43			
Sound Pressure Level (Quiet Lo Mod Hi SH)	Heating	dB(A)		22 / 30 / 37 / 43				22 / 30 / 37 / 43			
External Static Pressure		in. W.G.									
Condensate Lift Mechanism	Max Distance	in. (mm)									
Dimensions	H	in. (mm)		11 / 5/8 (285)				11 / 5/8 (285)			
Dimensions	W	in. (mm)		31 / 7/16 (798)				31 / 7/16 (798)			
Dimensions	D	in. (mm)		9 / 1/8 (232)				9 / 1/8 (232)			
Weight	lbs (kg)			22 (10)				22 (10)			
MCA	A			12.0				14.0			
MCOF	A			15				15			
Dimensions	H	in. (mm)		21 / 5/8 (550)				21 / 5/8 (550)			
Dimensions	W	in. (mm)		31 / 1/2 (800)				31 / 1/2 (800)			
Dimensions	D	in. (mm)		11 / 1/4 (285)				11 / 1/4 (285)			
Weight	lbs (kg)			81 (37)				81 (37)			
Air Flow Rate (Cooling/Heating)	C-H			1105/1225				1105/1225			
Sound Pressure Level	Cooling	dB(A)		46				46			
Sound Pressure Level	Heating	dB(A)		46				50			
Piping				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
Diameter	Gas (G.D.)	in. (mm)		3/8 (9.52)				3/8 (9.52)			
Diameter	Liquid (L.D.)	in. (mm)		1/4 (6.35)				1/4 (6.35)			
Diameter	Indoor Drain	in. (mm)		5/8 (15.88)				5/8 (15.88)			
Max. Length	ft (m)			40 (12)				40 (12)			
Max. Height	ft (m)			65 (20)				65 (20)			
Electrical				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
Outdoor Indoor *	V, ph, Hz			115, 1, 60				115, 1, 60			
Recommended Breaker Size	A			15				15			
Hanging Type				NAXSM109/12(A11)A*				NAXSM112(A11)A*			
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		14.0 to 115.0 (10.0 to 46.0)				14.0 to 115.0 (10.0 to 46.0)			
Guaranteed Temperature Operation Range	Heating	°F DB (°C DB)		4.0 to 75.0 (20.0 to 24.0)				4.0 to 75.0 (20.0 to 24.0)			

Notes:

AHR: Rated Conditions

(Rated data is determined at a fixed compressor speed)

Condensate

*Indoor unit receive power from outdoor unit through field supplied interconnect wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

*Cooling (Indoor // Outdoor)

*Heating at 47°F (Indoor // Outdoor)

*Heating at 17°F (Indoor // Outdoor)

*Heating at 5°F (Indoor // Outdoor)

*F 80 DB, 67 WB // 95 DB, 75 WB

*F 70 DB, 60 WB // 47 DB, 43 WB

*F 70 DB, 60 WB // 17 DB, 15 WB

*F 70 DB, 60 WB // 5 DB, 4 WB

WEL Model

The WEL Model is a basic 16 SEER INVERTER-driven heat pump.

Stylish Design with Flat Panel Front

A stylish flat panel design is employed for the front of the indoor unit. The simple look matches room aesthetics.



Econo Cool Energy-Saving Feature

Econo Cool is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 4° F without any loss in comfort, thereby realizing a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

	Conventional	Econo Cool
Ambient Temperature	95° F	95° F
Set Temperature	77° F	81° F
Perceived Temperature	80° F	85° F

Air Filter

This filter can remove dust particles from the air.

Anti-allergy Enzyme Filter*

(*Optional)

This filter works to trap allergens such as bacteria and decompose them using enzymes retained in the filter.

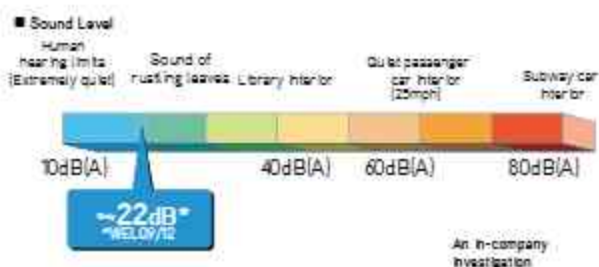
NA3WEL09/12A112A*

NA3WEL18/24A112A*



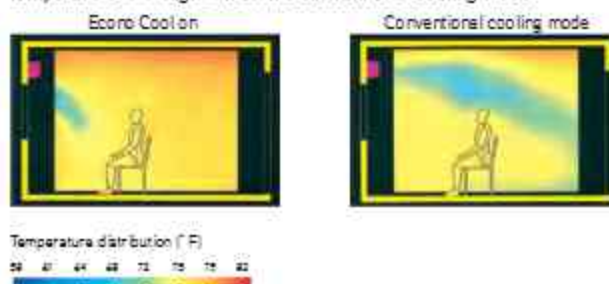
Quiet Operation

Quiet, relaxing space is within reach. Operational noise is a low 22dB(A) (0.9/12 classes). Operation is so silent you might even forget the air conditioner is on.



Econo Cool Mode

A comfortable room environment is maintained even when setting the temperature 4° F higher than the conventional cooling mode.



12-hour Timer

Allows for one ON/OFF cycle during a 12-hour period.

Blue Fin Condenser

Anti-corrosion treatment is done to the heat exchanger of the outdoor units. This coating prevents the corrosion of the aluminum fins caused by salt in the air especially in coastal areas. (Corrosion of the heat exchanger will effect the efficiency and performance of the air conditioner.)

WEL Model



Indoor Unit				NAXWEL09/12A/12A*	NAXWEL12A/12A*	NAXWEL18A/12A*	NAXWEL24A/12A*
Outdoor Unit				NAXSEL09A/12A*	NAXSEL12A/12A*	NAXSEL18A/12A*	NAXSEL24A/12A*
Cooling	Capacity	Rated *	B1 U/H	9,000	12,000	17,200	22,500
	Capacity Range	Min Max	B1 U/H	3,600 - 10,500	3,600 - 12,200	5,600 - 16,000	5,600 - 22,500
	Power Input	Rated *	W	620	1,330	1,725	2,510
	Maximum Removal	Rated *		1.5	2.5	2.1	2.9
	Sensible Heat Factor			0.820	0.770	0.860	0.860
Heating	Capacity at 47°F	Rated *	B1 U/H	10,500	12,200	16,000	20,000
	Capacity Range	Min Max	B1 U/H	4,500 - 11,000	4,500 - 14,500	5,400 - 20,000	5,400 - 25,000
	Power Input at 47°F	Rated *	W	980	1,000	1,670	2,060
	Capacity at 17°F	Max	B1 U/H	6,700	7,900	11,500	16,500
	Capacity at 5°F	Max *	B1 U/H	5,000	7,440	12,760	15,000
Efficiency	SEER			16.0	16.0	16.0	16.0
	EEER			11.0	9.0	10.0	9.0
	HSPF			8.5	8.5	8.5	8.5
	COP			3.25	3.28	3.16	2.84
	ENERGY Saver Certified			No	No	No	No
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Med Hi 5Hz)	Dry	CFM	170 / 237 / 321 / 399	170 / 237 / 321 / 399	328 / 431 / 530 / 625	353 / 431 / 530 / 702
		Wet	CFM	134 / 201 / 286 / 364	134 / 201 / 286 / 364	295 / 388 / 477 / 562	318 / 388 / 477 / 632
	Air Flow Rate - Heating (Quiet Lo Med Hi 5Hz)	Dry	CFM	170 / 237 / 321 / 406	170 / 237 / 321 / 406	307 / 431 / 530 / 625	346 / 448 / 579 / 702
		Wet	CFM	134 / 201 / 286 / 364	134 / 201 / 286 / 364	295 / 388 / 477 / 562	318 / 388 / 477 / 632
	Sound Pressure Level (Quiet Lo Med Hi 5Hz)	Cooling	dB(A)	22 / 30 / 37 / 43	22 / 30 / 37 / 45	30 / 37 / 42 / 47	33 / 38 / 44 / 50
		Heating	dB(A)	22 / 30 / 37 / 43	22 / 30 / 37 / 43	30 / 37 / 42 / 47	32 / 38 / 44 / 50
	External Static Pressure		In. W.G.				
	Condensate Lift Mechanism	Max Distance	In. (mm)				
	Dimensions	H	In. (mm)	11 / 5.8 (295)	11 / 5.8 (295)	12 / 5.9 (305)	12 / 5.9 (305)
		W	In. (mm)	31 / 7.16 (798)	31 / 7.16 (798)	36 / 9.16 (923)	36 / 9.16 (923)
		D	In. (mm)	9 / 1.8 (232)	9 / 1.8 (232)	9 / 1.8 (232)	9 / 1.8 (232)
Outdoor Unit	Weight	lbs (kg)		22 (10)	22 (10)	28 (13)	28 (13)
	MCA	A		9.0	9.0	10.0	14.0
	MDCP	A		15	15	15	15
	Dimensions	H	In. (mm)	21 / 5.8 (550)	21 / 5.8 (550)	34 / 5.8 (880)	34 / 5.8 (880)
		W	In. (mm)	31 / 1.2 (800)	31 / 1.2 (800)	33 / 1.16 (840)	31 / 1.16 (840)
		D	In. (mm)	11 / 1.4 (286)	11 / 1.4 (286)	13 / 3.30	13 / 3.30
	Weight	lbs (kg)		73 (33.1)	73 (33.1)	81 (36.7)	121 (54.9)
	Air Flow Rate (Cooling/Heating)	CFM		1151 / 1225	1151 / 1225	1243 / 1225	1601 / 1601
	Sound Pressure Level	Cooling	dB(A)	48	51	53	57
		Heating	dB(A)	50	51	51	55
Piping	Diameter	Gas (L.U.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	5/8 (15.88)
		Liquid (L.U.)	In. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
		Indoor Unit	In. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
	Max. Length	ft (m)		40 (12)	40 (12)	40 (12)	50 (15)
	Max. Height	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)
Electrical	Outdoor Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	15	15
Refrigerant Type				H410A	H410A	H410A	H410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		32.0 to 115.0 (10.0 to 46.0)	32.0 to 115.0 (10.0 to 46.0)	32.0 to 115.0 (10.0 to 46.0)	32.0 to 115.0 (10.0 to 46.0)
	Heating	°F DB (°C DB)		5.0 to 75.0 (20.0 to 24.0)	5.0 to 75.0 (20.0 to 24.0)	5.0 to 75.0 (20.0 to 24.0)	5.0 to 75.0 (20.0 to 24.0)

Notes:

AHRI Rated Conditions:
(Rated data is determined
at a fixed compressor speed)
Conditions

Cooling (Indoor // Outdoor)

Heating at 47°F (Indoor // Outdoor)

Heating at 17°F (Indoor // Outdoor)

Heating at 5°F (Indoor // Outdoor)

°F 80 DB, 87 WB // 55 DB, 75 WB

°F 70 DB, 80 WB // 47 DB, 43 WB

°F 70 DB, 80 WB // 17 DB, 15 WB

°F 70 DB, 80 WB // 5 DB, 4 WB

*Indoor units receive power from outdoor units through field supplied interconnecting wiring.

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

FKS Model

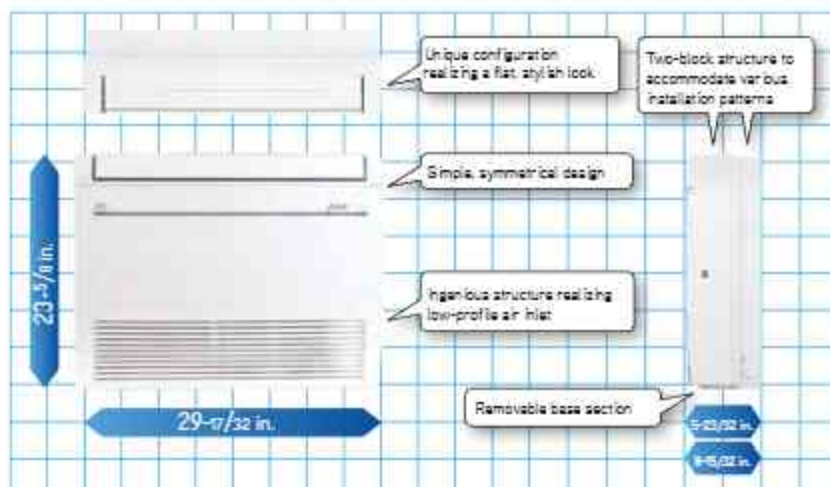
High capacity, energy savings and a design that harmonizes with living spaces raise the value of your room to the next level.

NA/FKS109/12/15/18/21/24*



Simple Flat Design

Uneven surfaces have been smoothed to provide a simple design with linear beauty, harmonized with all types of interiors.

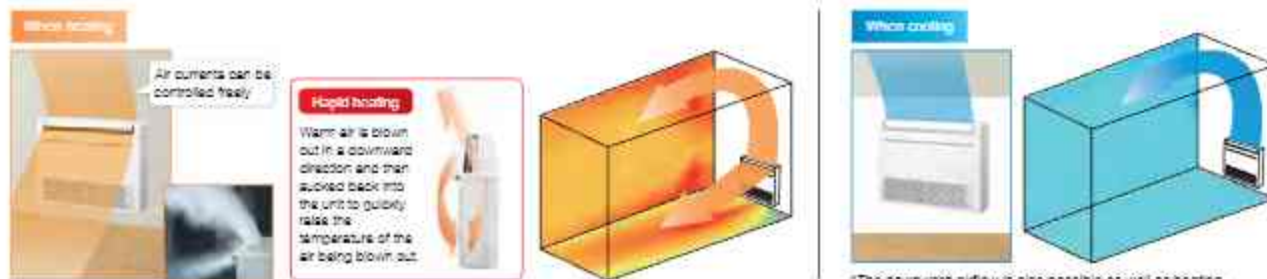


Images of installed unit



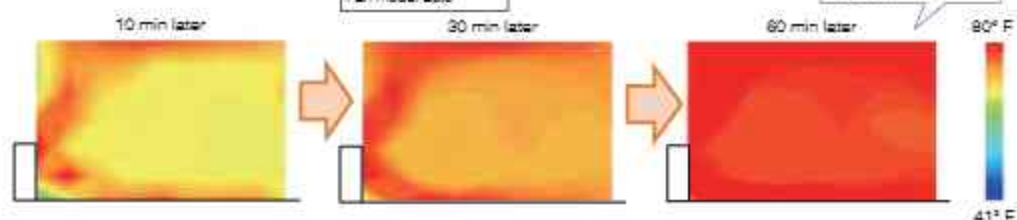
Multi-flow Vane

Three uniquely shaped vanes control the airflow and allow the freedom to customize comfort according to preferences.



Pro-Heat

Air Distribution (NTXFKS15A112AA) (sectional view)



FKS Model



Indoor Unit

NAXFKS(09/12/15/18)A112A*

Outdoor Unit

NAXFKS(15/18)A112A*

Remote Controller

NAXFKS(09/12)A112A*

* To confirm compatibility with the MX Model multi-zone system, refer to MX Model page.

Eco Cool

Blue Fin

Main Platform

Anti-breeze System

Digital Inverter

Eco Mode

AUTO

Weekly Timer

Smart Set

Eco Fan

Eco Boost

Low Temp Cooling

Eco Sleep

Group Control

M-NET

USMAP

Wi-Fi

T-START

MX

Eco Mode

Auto Restart

Failure Recall

Pre-Heat

Indoor Unit				NAXFKS09A112A*	NAXFKS12A112A*	NAXFKS15A112A*	NAXFKS18A112A*
Outdoor Unit				NAXFKS09A112A*	NAXFKS12A112A*	NAXFKS15A112A*	NAXFKS18A112A*
Cooling	Capacity	Rated ¹	B1 U/H	9,000	12,000	15,000	17,000
	Capacity Range	Min/Max	B1 U/H	2,300 / 14,000	2,300 / 15,000	5,500 / 19,000	5,500 / 22,500
	Power Input	Rated ¹	W	570	980	1,120	1,250
	Maximum Heat Removal	Pinch		1.4	2.7	3.9	4.4
	Sensible Heat Factor			0.790	0.700	0.668	0.650
Heating	Capacity at 47°F	Rated ²	B1 U/H	11,000	13,000	16,000	21,000
	Capacity Range	Min/Max	B1 U/H	2,300 / 19,000	2,300 / 22,800	5,700 / 25,000	5,700 / 25,000
	Power Input at 47°F	Rated ²	W	750	900	1,410	1,750
	Capacity at 17°F	Max	B1 U/H	13,400	14,800	20,500	23,000
	Capacity at 5°F	Max ³	B1 U/H	11,000	13,000	16,000	21,000
Efficiency	SEER			28.2	25.5	21.8	21.0
	EEER			15.8	13.6	13.5	12.6
	HSPF			13	12	11.6	11.3
	COP			4.3	4.2	3.7	3.5
	ENERGY STAR Certified			Yes	Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Mod Hi 50Hz)	Dry	CHM	138 / 138 / 272 / 300 / 417	138 / 138 / 272 / 300 / 417	138 / 254 / 311 / 332 / 431	138 / 254 / 328 / 420 / 451
		Wet	CHM	117 / 138 / 251 / 306 / 354	117 / 138 / 251 / 306 / 354	138 / 216 / 264 / 333 / 366	138 / 216 / 279 / 357 / 417
	Air Flow Rate - Heating (Quiet Lo Mod Hi 50Hz)	Dry	CHM	138 / 131 / 254 / 328 / 417	138 / 131 / 254 / 328 / 417	212 / 258 / 328 / 339 / 470	212 / 258 / 328 / 339 / 470
		Wet	CHM	138 / 131 / 254 / 328 / 417	138 / 131 / 254 / 328 / 417	212 / 258 / 328 / 339 / 470	212 / 258 / 328 / 339 / 470
	Sound Pressure Level (Quiet Lo Mod Hi 50Hz)	Cooling	dB(A)	21 / 27 / 34 / 41 / 46	21 / 27 / 34 / 41 / 46	28 / 33 / 38 / 43 / 47	28 / 33 / 38 / 43 / 47
		Heating	dB(A)	21 / 27 / 34 / 40 / 46	21 / 27 / 34 / 40 / 46	29 / 35 / 40 / 45 / 49	29 / 35 / 40 / 45 / 49
	External Static Pressure			In. W.G.			
	Condensate Lift Mechanism			Max Distance	In. (mm)		
	Dimensions	H	In. (mm)	29 5/8 (750)	29 5/8 (750)	29 5/8 (750)	29 5/8 (750)
		W	In. (mm)	29 17/32 (750)	29 17/32 (750)	29 17/32 (750)	29 17/32 (750)
		D	In. (mm)	8 15/32 (215)	8 15/32 (215)	8 15/32 (215)	8 15/32 (215)
Outdoor Unit	Weight	lbs (kg)		33 (15.0)	33 (15.0)	33 (15.0)	33 (15.0)
	MLA	A		11.0	11.0	16.0	16.0
	MDGP	A		15	15	20	20
	Dimensions	H	In. (mm)	21 5/8 (550)	21 5/8 (550)	21 5/8 (550)	21 5/8 (550)
		W	In. (mm)	31 1/2 (800)	31 1/2 (800)	31 1/2 (800)	31 1/2 (800)
		D	In. (mm)	11 1/4 (285)	11 1/4 (285)	11 1/4 (285)	11 1/4 (285)
	Weight	lbs (kg)		83 (38)	83 (38)	124 (56)	124 (56)
	Air Flow Rate - Cooling/Heating			CHM	1074 / 1202	1074 / 1202	1653 / 1790
	Sound Pressure Level	Cooling	dB(A)	48	48	51	51
		Heating	dB(A)	50	50	55	55
Piping	Diameter	Gas (L.U.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)
		Liquid (L.U.)	In. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
		Indoor Drain	In. (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
	Max. Length	ft (m)		65 (20)	65 (20)	100 (30)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	50 (15)	50 (15)
Electrical	Outdoor Indoor ⁴	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	20	20
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling ⁵	°F DB (°C DB)		14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)	14.0 to 115.0 (10.0 to 46.0)
	Heating	°F DB (°C DB)		18.0 to 75.0 (25.0 to 24.0)	18.0 to 75.0 (25.0 to 24.0)	18.0 to 75.0 (25.0 to 24.0)	18.0 to 75.0 (25.0 to 24.0)

Notes:

AHRI Rated Conditions
(Rated data is determined at a fixed compressor speed)

Conditions

*Indoor unit receive power from outdoor units through field supplied interconnecting wiring.

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

1 Cooling (Indoor // Outdoor) °F 80 DB, 87 WB // 15 DB, 75 WB

2 Heating at 47°F (Indoor // Outdoor) °F 70 DB, 80 WB // 47 DB, 43 WB

3 Heating at 17°F (Indoor // Outdoor) °F 70 DB, 80 WB // 17 DB, 15 WB

4 Heating at 5°F (Indoor // Outdoor) °F 70 DB, 80 WB // 5 DB, 4 WB

Konnect Series

Konnect Series heat pump and Pro-Heat outdoor units achieve high energy-saving performance as well as heating capacity and all the combinations are ENERGY STAR® qualified. For an attractive and optimum use of indoor space, you can choose the indoor unit that best matches your needs.



NAXSKH09/12/15/18/A112A*



NAXSKS09/12/15/A112A*



NAXSKS18/24/30/36/A112A*
NAXSKH09/12/15/18/A112A*



UKS



CKS



DKS



PEAD



AMT

- Available capacities in KBTU/H: 9, 12, 15, 18, 24, 30, 36
- Single-zone outdoor unit matches multiple indoor unit options
- Heat Pump or Pro-Heat INVERTER

Konnect Series Compatibility

Outdoor Unit Capacity KBTU/H		9		12		15		18		24		30		36	
Model	Type	HP	Pro-Heat	HP	Pro-Heat	HP	Pro-Heat	HP	Pro-Heat	HP	Pro-Heat	HP	Pro-Heat	HP	Pro-Heat
CKS	2' x 2' cassette	•	•	•	•	•	•	•	•						
DKS	Low static ducted	•	•	•	•	•	•	•	•						
PEAD	Mid static ducted	•	•	•	•	•	•	•	•	•		•		•	
AMT	Multi-position Air Handler			•	•			•	•	•		•		•	
UKS	EZ FIT™ Recessed Ceiling Cassette	•	•	•	•			•	•						

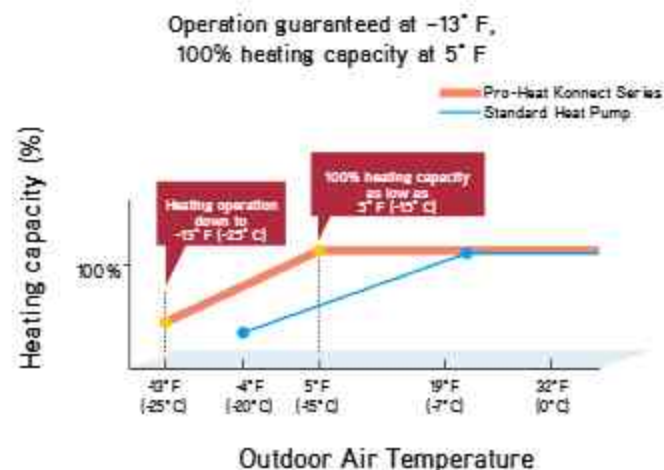
HP: Heat Pump

Pro-Heat: Pro-Heat Hyper-Heating

Pro-Heat Inverter



The H2[®] models provide heating even when it's -13° F (-25° C) outdoor ambient, producing up to 100% heating capacity at 5° F (-15° C). These units offer year-round comfort even in extreme climates.



Heating Performance at Low Temperatures

NAXSKH09A112A*					NAXSKH12A112A*					
COP at	OKS	OKS	PEAD	UKS	COP at	OKS	OKS	PEAD	AMT	UKS
47° F	3.90	2.80	3.80	4.10	47° F	3.40	3.90	3.90	3.80	3.80
17° F	2.56	2.20	2.56	2.76	17° F	2.38	2.56	2.72	2.81	2.54
5° F	1.34	1.59	1.67	1.67	5° F	1.83	2.19	2.09	1.69	1.57

NAXSKH10A112A*					NAXSKH18A112A*					
COP at	OKS	OKS	PEAD		COP at	OKS	OKS	PEAD	AMT	UKS
47° F	2.60	2.70	3.00		47° F	2.70	3.40	3.30	3.30	3.00
17° F	1.91	2.15	2.29		17° F	2.20	2.52	2.49	2.32	2.42
5° F	1.84	1.88	1.81		5° F	1.44	1.75	1.66	1.75	1.39

Built-in Base Heater

The base heater restricts lowered capacity and operation shutdowns caused by the drain water freezing. This supports stable operation in low-temperature environments.

Operation Guaranteed at
Outside Temperature of -13° F (-25° C)



Without base heater



With base heater

Compact and Powerful Compressor

A special manufacturing technology, Heat Caulking Fixing Method, has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the installation of a powerful compressor in compact outdoor units. As a result, excellent heating performance is achieved when operating in cold outdoor environments.

Compressor using
conventional method
(Arc spot-welded method)



Compressor using
Heat Caulking
Fixing Method



UKS Model

Introducing EZ FIT™ ceiling cassette with streamlined interior dimensions and a sharp, sleek appearance.

MAX UKS(09/12/18)A112A"



Slim Design

Industry leading slim body realized a simple design with linear beauty.



Ceiling Mounted

Installing the ceiling-mounted EZ FIT Model unit in a room creates a more spacious feel that enhances room comfort. This overhead format is also an excellent solution when lighting equipment is installed at the center of the room and fixtures such as bookshelves are mounted on wall surfaces.



Slim Body

The new units are designed with a slim body (only 7-5/16"), ensuring easy installation even when low ceiling cavities limit installation space. The need for ceiling cavity service space is also eliminated, further reducing the dimensions required for installation.



Set Airflow According to Ceiling Height

Dual-level airflow selection is engineered to accommodate specific ceiling heights. This is a key feature for adjusting airflow effectively when it is either too strong or too weak due to being mismatched with the height of the ceiling.

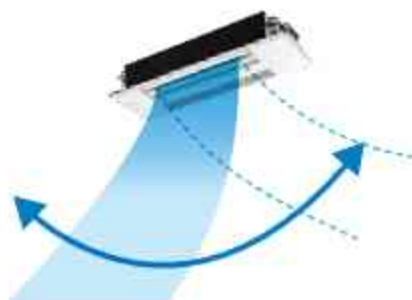
	09	12	18
Standard	7-7/8 ft.	7-7/8 ft.	7-7/8 ft.
High ceiling	8-7/8 ft.	8-7/8 ft.	8-7/8 ft.

Auto Vane Control

Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.



Up and Down



Left and Right

*Only available when Econo Cool is set.



Built-in Weekly Timer Function

Easily set desired temperatures and operation ON/OFF times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

■ Example Operation Pattern (Winter/Heating mode)

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00 AM	ON 68°F	ON 68°F	ON 68°F	ON 68°F	ON 68°F	ON 68°F	ON 68°F
8:00 AM	Automatically changes to high-power operation at wake-up time						
10:00 AM	OFF	OFF	OFF	OFF	OFF	ON 64°F	ON 64°F
12:00 AM	Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
2:00 PM							
4:00 PM							
6:00 PM	ON 72°F	ON 72°F	ON 72°F	ON 72°F	ON 72°F	ON 72°F	ON 72°F
8:00 PM	Automatically turns on, synchronized with arrival at home					Automatically raises temperature setting to match time when outside air temperature is low	
10:00 PM							
(during sleeping hours)	ON 64°F	ON 64°F	ON 64°F	ON 64°F	ON 64°F	ON 64°F	ON 64°F
	Automatically lowers temperature at bedtime for energy-saving operation at night						

Settings

Pattern Settings: Input up to four settings for each day

Settings: • Start/Stop operation • Temperature setting *The operation mode cannot be set.

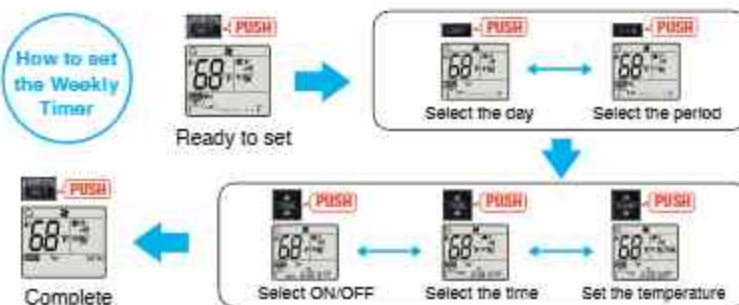
■ Easy set-up using dedicated buttons



The remote controller is equipped with buttons that are used exclusively for setting the Weekly Timer. Setting operation patterns is easy and quick.



How to set the Weekly Timer



- Start by pushing the SET button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the SET button one more time. (Push the SET button only after inputting all of the desired patterns into the remote controller memory. Pushing the CANCEL button will end the set-up process without sending the operation patterns to the indoor unit.)
- It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.

Easy Installation

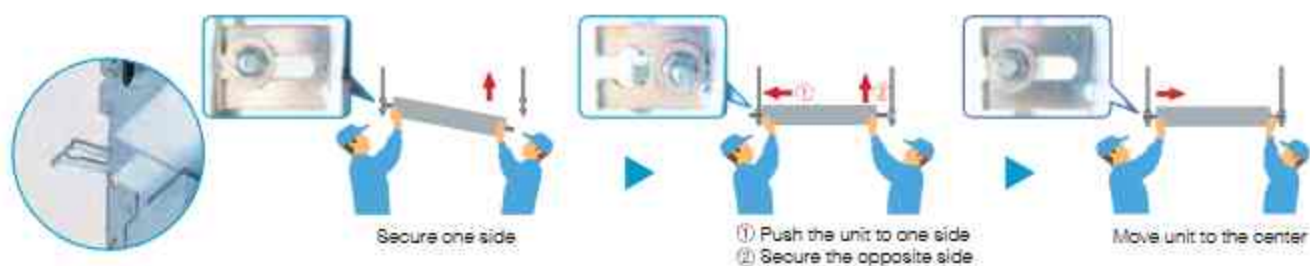
Industry Leading Slim Body

The EZ FIT™ can be installed within standard joists that span 16 inches on center. There is no need for large-scale construction, such as the cutting of the joist.



Temporary hanging hook

Work efficiency has improved during installation.



Drain Piping Supporters + Drain Cover

Industry leading slim body realized a simple design with linear beauty.



Wireless Interface Installation

(Optional)

The indoor unit panel is equipped with a Wireless Interface pocket, contributing to the beautiful appearance, easy installation and maintenance.



UKS Model



Indoor Unit				NAXUKS09A112A*	NAXUKS12A112A*	NAXUKS18A112A*
Outdoor Unit				NAXKS09A112A*	NAXKS12A112A*	NAXKS18A112A*
Cooling	Capacity	Rated †	BTU/H	9,000	12,000	18,000
	Capacity Range	Min-Max	BTU/H	3,600-9,000	3,900-12,000	6,600-18,000
	Power Input	Rated †	W	710	960	1,440
	Moisture Removal	Filter-in		1.5	2.8	5.3
	Sensible Heat Factor			0.820	0.740	0.670
Heating	Capacity at 47°F	Rated †	BTU/H	12,000	15,400	20,000
	Capacity Range	Min-Max	BTU/H	4,010-13,000	4,600-17,000	6,200-22,800
	Power Input at 47°F	Rated †	W	860	1,300	1,170
	Capacity at 17°F	Rated †	BTU/H	7,700	9,900	13,100
	Capacity at 5°F	Max †	BTU/H	7,700	9,900	13,100
Efficiency	SEER			19.5	19.8	22.3
	EER			12.6	12.5	12.5
	HSPF			13.3	12.1	12.4
	COP			4.0	3.4	3.3
	ENERGY STAR® Certified			Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet-Low-Med-High)	Dry	CFM	212-254-282-311	212-258-297-332	212-293-346-403
		Wet	CFM	180-216-240-264	180-219-252-282	180-249-294-343
	Air Flow Rate - Heating (Quiet-Low-Med-High)	Dry	CFM	212-247-260-325	212-272-311-350	212-311-364-417
	Sound Pressure Level (Quiet-Low-Med-High)	Cooling	dB(A)	27-31-34-38	27-32-36-40	29-36-41-47
		Heating	dB(A)	26-29-34-37	26-32-36-40	26-37-42-48
	External Static Pressure		in. W.G.	—	—	—
	Condensate Lift Mechanism	Max Distance	in. (mm)	19-11/16 (500)	19-11/16 (500)	19-11/16 (500)
	Dimensions	H	in. (mm)	7-5/16 (182)	7-5/16 (182)	7-5/16 (182)
		W	in. (mm)	43-3/8 (1102)	43-3/8 (1102)	43-3/8 (1102)
		D	in. (mm)	14-3/16 (360)	14-3/16 (360)	14-3/16 (360)
Outdoor Unit	Weight	lbs (kg)		34 (15.5)	34 (15.5)	34 (15.5)
	MOA	A		9.0	9.0	14.0
	MOCP	A		15	15	24
	Dimensions	H	in. (mm)	21-5/8 (550)	21-5/8 (550)	34-5/8 (880)
		W	in. (mm)	31-1/2 (800)	31-1/2 (800)	33-1/16 (840)
		D	in. (mm)	11-1/4 (285)	11-1/4 (285)	13 (330)
	Weight	lbs (kg)		81 (37)	81 (37)	127 (58)
	Air Flow Rate (Cooling/Heating)	CFM		1228/1172	1228/1172	1691/1691
	Sound Pressure Level	Cooling	dB(A)	48	48	54
		Heating	dB(A)	50	51	55
Piping	Diameter	Gas (O.D.)	in. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)
		Liquid (O.D.)	in. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
		Indoor Drain	in. (mm)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)
	Max. Length	ft (m)		65 (20)	65 (20)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	80 (25)
Electrical	Outdoor-Indoor ‡	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	15
Refrigerant Type				R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling ‡	°F DB (°C DB)		14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)
	Heating	°F DB (°C DB)		-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)

Notes:

AHR® Brand Conditions:
(Brand data is determined
at a fixed compressor speed)

Conditions:

*Indoor unit receive power from outdoor unit through field supplied interconnect wiring.

†Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

‡Cooling (Indoor // Outdoor)

‡Heating at 47°F (Indoor // Outdoor)

‡Heating at 17°F (Indoor // Outdoor)

‡Heating at 5°F (Indoor // Outdoor)

†F 80 DB, 67 WB // 95 DB, 75 WB

†F 70 DB, 60 WB // 47 DB, 45 WB

†F 70 DB, 60 WB // 17 DB, 15 WB

†F 70 DB, 60 WB // 5 DB, 4 WB

UKS Model



Indoor Unit				NAXUKB09A112A*	NAXUKB12A112A*	NAXUKB18A112A*
Outdoor Unit				NAXSKH09A112A*	NAXSKH12A112A*	NAXSKH18A112A*
Cooling	Capacity	Rated †	BTU/H	9,000	12,000	16,700
	Capacity Range	Min-Max	BTU/H	4,800-9,000	5,270-12,000	8,740-16,700
	Power Input	Rated †	W	720	840	1,335
	Moisture Removal	Pinch		1.8	3.1	5.1
	Sensible Heat Factor			0.760	0.710	0.660
Heating	Capacity at 47°F	Rated †	BTU/H	12,000	16,000	18,600
	Capacity Range	Min-Max	BTU/H	8,300-14,000	7,800-18,000	8,600-22,000
	Power Input at 47°F	Rated †	W	840	1,130	1,790
	Capacity at 17°F	Rated †	BTU/H	6,600	9,100	11,800
	Capacity at 5°F	Max †	BTU/H	12,000	16,000	18,600
Efficiency	SEER			13.9	15.0	16.8
	EER			12.5	12.7	12.5
	HSPF			11	10.2	10
	COP			4.1	3.8	3.0
	ENERGY STAR® Certified			Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet/Lo-Med-Hi-SH)	Dry	CFM	212-254-283-311	212-256-297-332	212-293-346-403
		Wet	CFM	180-216-240-264	180-219-252-282	180-249-294-343
	Air Flow Rate - Heating (Quiet/Lo-Med-Hi-SH)	Dry	CFM	212-247-260-325	212-272-311-360	212-311-364-417
		Wet	CFM	180-216-240-264	180-219-252-282	180-249-294-343
	Sound Pressure Level (Quiet/Lo-Med-Hi-SH)	Cooling	dB(A)	27-31-34-38	27-32-36-40	29-36-41-47
		Heating	dB(A)	26-29-34-37	26-32-36-40	26-37-42-48
	External Static Pressure		in. W.G.	—	—	—
	Condensate Lift Mechanism	Max Distance	in. (mm)	19-11/16 (500)	19-11/16 (500)	19-11/16 (500)
	Dimensions	H	in. (mm)	7-5/16 (188)	7-5/16 (188)	7-5/16 (188)
		W	in. (mm)	43-3/8 (1102)	43-3/8 (1102)	43-3/8 (1102)
		D	in. (mm)	14-3/16 (360)	14-3/16 (360)	14-3/16 (360)
Outdoor Unit	Weight	lbs (kg)		34 (15.5)	34 (15.5)	34 (15.5)
	MDA	A		14.0	14.0	17.0
	MDCP	A		24	24	31
	Dimensions	H	in. (mm)	34-5/8 (880)	34-5/8 (880)	34-5/8 (880)
		W	in. (mm)	38-1/16 (940)	33-1/16 (840)	33-1/16 (840)
		D	in. (mm)	13 (330)	13 (330)	13 (330)
	Weight	lbs (kg)		129 (58.5)	129 (58.5)	131 (59.5)
	Air Flow Rate (Cooling/Heating)	CFM		1,691/1,691	1,691/1,691	2,020/1,930
	Sound Pressure Level	Cooling	dB(A)	54	54	55
		Heating	dB(A)	55	55	55
Piping	Diameter	Gas (O.D.)	in. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)
		Liquid (O.D.)	in. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
		Indoor Drain	in. (mm)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)
	Max. Length	ft (m)		65 (20)	65 (20)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	60 (18)
Electrical	Outdoor-Indoor ‡	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	20
Refrigerant Type				R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling ‡	°F DB [°C DB]		14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]
	Heating	°F DB [°C DB]		-13.0 to -75.0 [-25.0 to 24.0]	-13.0 to -75.0 [-25.0 to 24.0]	-13.0 to -75.0 [-25.0 to 24.0]

Notes:

AHR® Rated Conditions
(Rated data is determined at a fixed compressor speed)

† Cooling (Indoor / Outdoor)

‡ Heating at 47°F (Indoor / Outdoor)

‡ Heating at 17°F (Indoor / Outdoor)

‡ Heating at 5°F (Indoor / Outdoor)

† 80 DB, 67 WB // 95 DB, 75 WB

† 70 DB, 60 WB // 47 DB, 45 WB

† 70 DB, 60 WB // 17 DB, 15 WB

† 70 DB, 60 WB // 5 DB, 4 WB

‡ Indoor unit receive power from outdoor units through field supplied indoor/outdoor wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

AMT Model

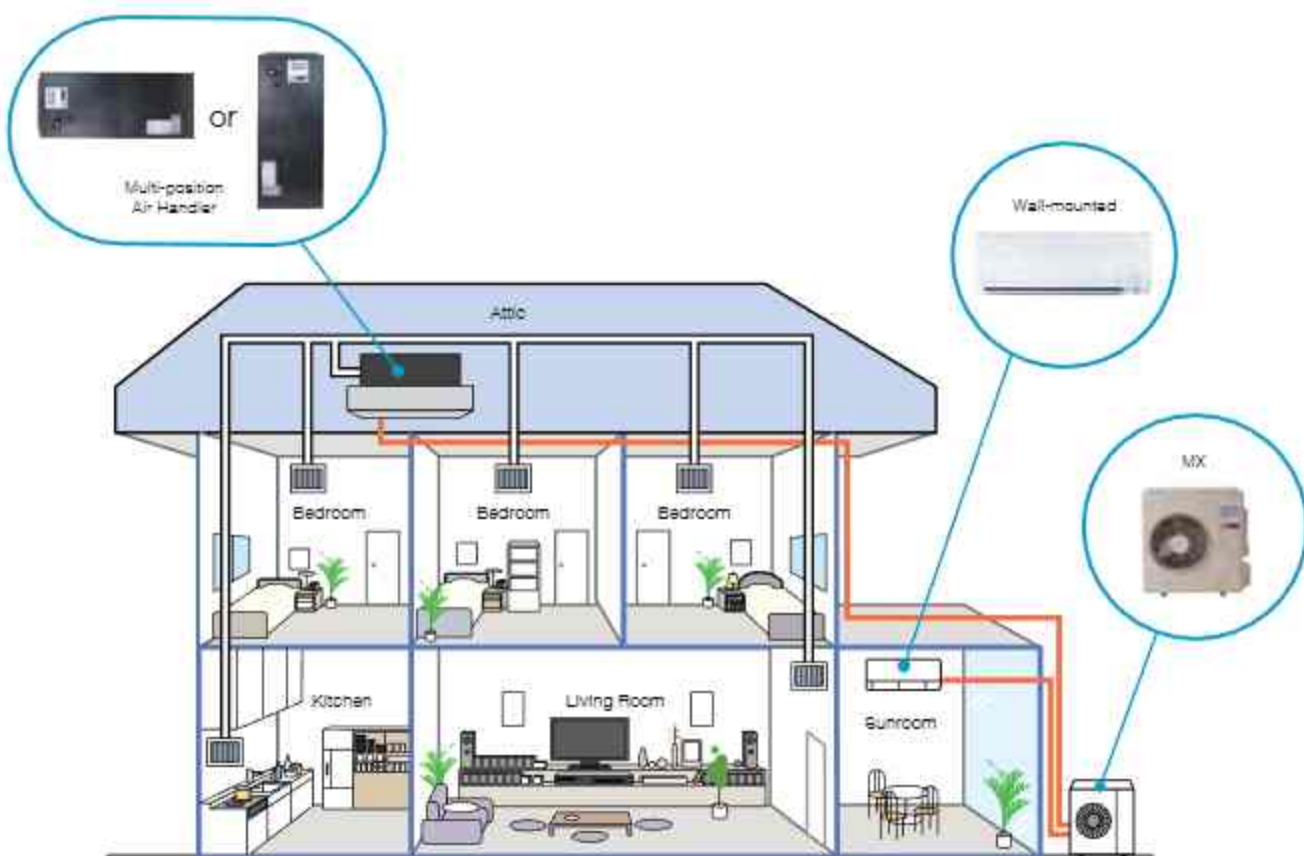
The multi-position air handler is well-suited for supplemental or replacement applications, and allows for effective and efficient air conditioning as airflow strength can be set to ensure any desired comfort level.

NAXAMT12/18/24/30/36(A)12A*



Slim Design

Industry leading quality and compact design.



Flexibility

The AMT air handler is truly multi-positional unit offering up, down*, left or right airflow, making it ideal for tight and unique spaces.

*Downflow kit required for downflow installations

Quiet

The DC motor ensures quiet and efficient operation year round.

Small Footprint

The AMT's compact design makes it possible to replace any kind of existing furnace or air handler, and can also be hidden in a closet or basement corner. The single-zone and multi-zone outdoor units are compact as well, since up to eight indoor units can be connected to one outdoor unit.

AMT Model



Indoor Unit				NAXAMT12A112A*	NAXAMT18A112A*	NAXAMT24A112A*	NAXAMT30A112A*	NAXAMT36A112A*
Outdoor Unit				NAXSKS12A112A*	NAXSKS18A112A*	NAXSKS24A112A*	NAXSKS30A112A*	NAXSKS36A112A*
Cooling	Capacity	Rated †	BTU/H	12,000	18,000	24,000	27,000	33,000
	Capacity Range	Min-Max	BTU/H	4,300-12,000	6,200-18,000	12,400-24,000	13,500-27,000	11,600-33,000
	Power Input	Rated †	W	840	1,360	1,920	2,160	3,720
	Moisture Removal	Per Hour		1.2	2.4	4.1	2.4	4.7
	Sensible Heat Factor			0.890	0.860	0.810	0.800	0.840
Heating	Capacity at 47°F	Rated †	BTU/H	15,000	21,600	26,000	30,000	33,500
	Capacity Range	Min-Max	BTU/H	4,700-16,700	8,300-26,000	14,600-26,000	12,640-33,000	13,260-36,000
	Power Input at 47°F	Rated †	W	1,210	1,600	1,910	2,060	3,030
	Capacity at 17°F	Rated †	BTU/H	9,500	14,000	14,600	21,400	23,200
	Capacity at 5°F	Max †	BTU/H	9,800	14,000	14,600	21,400	23,200
Efficiency	SEER			18.0	18.0	18.0	18.0	18.0
	EER			12.7	13.2	12.5	12.5	8.8
	HSPF			12.10	12.60	10.40	13.60	11.70
	COP			3.6	3.9	3.6	4.2	3.2
	ENERGY STAR® Certified			Yes	Yes	Yes	Yes	No
Indoor Unit	Air Flow Rate - Cooling (Quiet/Lo-Med-Hi-SH)	Dry	CFM	278-381-448	471-573-675	519-629-735	613-744-875	767-910-910
		Wet	CFM	—	—	—	—	—
	Air Flow Rate - Heating (Quiet/Lo-Med-Hi-SH)	Dry	CFM	278-381-448	471-573-675	519-629-735	613-744-875	767-910-910
		Wet	CFM	—	—	—	—	—
	Sound Pressure Level (Quiet/Lo-Med-Hi-SH)	Cooling	dB(A)	29-36-39	33-36-41	30-34-38	32-46-40	35-39-43
		Heating	dB(A)	29-36-39	33-36-41	30-34-38	32-46-40	35-39-43
	External Static Pressure	in. W.G.		0.3-0.5-0.8	0.3-0.5-0.8	0.3-0.5-0.8	0.3-0.5-0.8	0.3-0.5-0.8
	Condensate Lift Mechanism	Max Distance	in. (mm)	—	—	—	—	—
	Dimensions	H	in. (mm)	39-13/16 [1011]	39-13/16 [1011]	39-13/16 [1011]	43-3/4 [1111]	43-3/4 [1111]
		W	in. (mm)	17 [432]	17 [432]	17 [432]	21 [533]	21 [533]
		D	in. (mm)	21-5/8 [548]	21-5/8 [548]	21-5/8 [548]	21-5/8 [548]	21-5/8 [548]
Outdoor Unit	Weight	lbs (kg)		93 [42]	93 [42]	93 [42]	119 [54]	119 [54]
	MCA	A		9.0	14.0	17.0	17.0	17.0
		A		16	24	31	31	31
	Dimensions	H	in. (mm)	21-5/8 [550]	34-5/8 [880]	34-5/8 [880]	34-5/8 [880]	34-5/8 [880]
		W	in. (mm)	31-1/2 [800]	33-1/8 [840]	33-1/8 [840]	33-1/8 [840]	33-1/8 [840]
		D	in. (mm)	11-1/4 [285]	13 [330]	13 [330]	13 [330]	13 [330]
	Weight	lbs (kg)		81 [37]	127 [58]	129 [58.5]	129 [58.5]	129 [58.5]
	Air Flow Rate (Cooling/Heating)	CFM		1228/1172	1691/1651	2020/1930	2020/1930	2020/1930
	Sound Pressure Level	Cooling	dB(A)	49	54	55	55	55
		Heating	dB(A)	51	55	55	55	55
Piping	Diameter	Gas (O.D.)	in. (mm)	3/8 [9.52]	1/2 [12.7]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
		Liquid (O.D.)	in. (mm)	1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
		Indoor Drain	in. (mm)	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]
	Max. Length	ft (m)		65 [20]	100 [30]	100 [30]	100 [30]	100 [30]
	Max. Height	ft (m)		40 [12]	50 [15]	100 [30]	100 [30]	100 [30]
Electrical	Outdoor-Indoor ‡	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	20	20	20
Refrigerant Type				R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling †	°F DB [°C DB]		14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]
	Heating	°F DB [°C DB]		-4.0 to -75.0 [-20.0 to 24.0]	-4.0 to -75.0 [-20.0 to 24.0]	-4.0 to -75.0 [-20.0 to 24.0]	-4.0 to -75.0 [-20.0 to 24.0]	-4.0 to -75.0 [-20.0 to 24.0]

Notes:

AHR® Rated Conditions:
(Rated data is determined at a fixed compressor speed)

† Cooling (Indoor // Outdoor)

‡ Heating at 47°F (Indoor // Outdoor)

§ Heating at 17°F (Indoor // Outdoor)

¶ Heating at 5°F (Indoor // Outdoor)

† 80 DB, 67 WB // 95 DB, 75 WB

‡ 70 DB, 60 WB // 47 DB, 45 WB

§ 70 DB, 60 WB // 17 DB, 15 WB

¶ 70 DB, 60 WB // 5 DB, 4 WB

*Indoor unit receive power from outdoor unit through field supplied interconnect wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

AMT Model

Indoor Unit



NAXAMT12/18A112A*

Outdoor Unit

NAXSKH12/18A112A*



* To confirm compatibility with the MX Model multi-zone system, refer to MX Model page.












Indoor Unit				NAXAMT12A112A*	NAXAMT18A112A*
Outdoor Unit				NAXSKH12A112A*	NAXSKH18A112A*
Cooling	Capacity	Rated ¹	BTU/H	12,000	18,000
	Capacity Range	Min-Max	BTU/H	6,600-12,000	9,360-18,000
	Power Input	Rated ¹	W	860	1,440
	Moisture Removal	Filter-in		0.8	1.1
	Sensible Heat Factor			0.920	0.930
Heating	Capacity at 47°F	Rated ¹	BTU/H	16,000	21,600
	Capacity Range	Min-Max	BTU/H	7,700-16,000	8,800-21,600
	Power Input at 47°F	Rated ¹	W	1,130	1,880
	Capacity at 17°F	Rated ¹	BTU/H	8,900	14,300
		Max	BTU/H	16,000	21,600
	Capacity at 5°F	Max ¹	BTU/H	16,000	21,600
Efficiency	SEER			15.0	16.4
	EER			13.5	12.5
	HSPF			10.2	10.4
	COP			3.8	3.3
	ENERGY STAR® Certified			Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet/Lo-Med-Hi-SH)	Dry	CFM	278-381-448	471-573-675
		Wet	CFM	—	—
	Air Flow Rate - Heating (Quiet/Lo-Med-Hi-SH)	Dry	CFM	278-381-448	471-573-675
	Sound Pressure Level (Quiet/Lo-Med-Hi-SH)	Cooling	dB(A)	29-36-39	33-36-41
		Heating	dB(A)	29-36-39	33-36-41
	External Static Pressure		in. W.G.	0.3-0.5-0.8	0.3-0.5-0.8
	Condensate Lift Mechanism	Max Distance	in. (mm)	—	—
	Dimensions	H	in. (mm)	39-13/16 [1011]	39-13/16 [1011]
		W	in. (mm)	17 [432]	17 [432]
		D	in. (mm)	21-5/8 [548]	21-5/8 [548]
Outdoor Unit	Weight	lbs (kg)		93 [42]	93 [42]
	MCA	A		14.0	17.0
	MCCP	A		24	31
	Dimensions	H	in. (mm)	34-5/8 [880]	34-5/8 [880]
		W	in. (mm)	33-1/16 [840]	33-1/16 [840]
		D	in. (mm)	13 [330]	13 [330]
	Weight	lbs (kg)		125 [56.5]	131 [59.5]
	Air Flow Rate (Cooling/Heating)	CFM		1,651/1,691	2,020/1,930
	Sound Pressure Level	Cooling	dB(A)	54	55
		Heating	dB(A)	55	56
Piping	Diameter	Gas (O.D.)	in. (mm)	3/8 [9.52]	1/2 [12.7]
		Liquid (O.D.)	in. (mm)	1/4 [6.35]	1/4 [6.35]
		Indoor Drain	in. (mm)	3/4 [19.05]	3/4 [19.05]
	Max. Length	ft (m)		65 [20]	100 [30]
	Max. Height	ft (m)		40 [12]	50 [15]
Electrical	Outdoor-Indoor ²	V, ph, Hz		208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	20
Refrigerant Type				R410A	R410A
Guaranteed Temperature Operation Range	Cooling ³	°F DB [°C DB]		14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]
	Heating	°F DB [°C DB]		-13.0 to -75.0 [-25.0 to 24.0]	-13.0 to -75.0 [-25.0 to 24.0]

Notes:

AHR® Brand Conditions:
(Round data is determined
at a fixed compressor speed)

Conditions:

*Indoor unit receive power from outdoor unit through field supplied interconnect wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

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

CKS Model

Compact, lightweight ceiling cassette units with 4-way air outlets provide maximum comfort by evenly distributing airflow throughout the entire room.

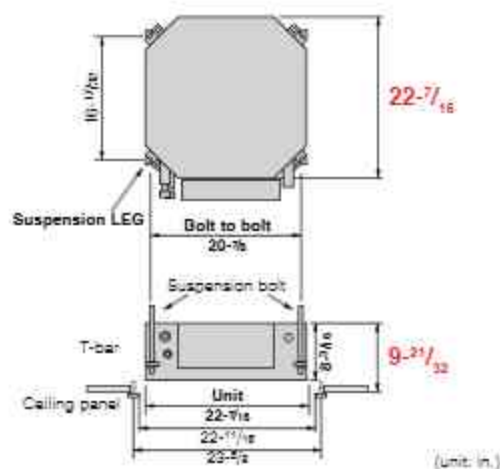


Flexibility

The attractive CKS Model ceiling cassette units offer a slim width and a 4-way air outlet. The size and shape are a perfect match for ceilings made using 2'x2' construction and its light weight package makes installation easy.



■ NAXCKS12A112A*

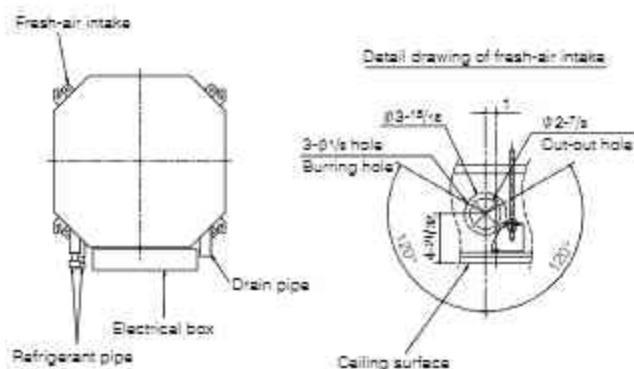


* Access door is required.

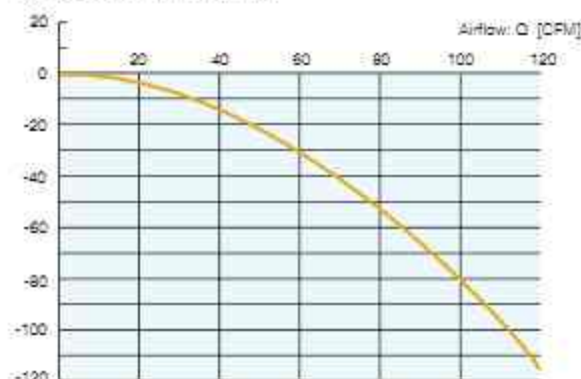
Fresh-air Intake

A duct hole is provided in the main body, making it possible to intake fresh air from outside.

■ Intake-air volume



Static pressure: P [in. W.G.x10⁻³]



Note: Fresh-air intake amount should be 20% or less of whole air amount to prevent dew dripping. Booster fan required.

CKS Model



Indoor Unit				NAXCK805A112A*	NAXCK812A112A*	NAXCK815A112A*	NAXCK815A112A*
Outdoor Unit				NAX8K805A112A*	NAX8K812A112A*	NAX8K815A112A*	NAX8K815A112A*
Cooling	Capacity	Rated 1	BTU/H	9,000	12,000	14,100	17,700
	Capacity Range	Min-Max	BTU/H	3,600-9,000	3,900-12,000	5,100-14,100	6,100-17,700
	Power Input	Rated 1	W	670	900	1,180	1,410
	Moisture Removal			1.0	2.8	3.2	4.7
	Sensible Heat Factor			0.870	0.740	0.780	0.710
Heating	Capacity at 47°F	Rated 1	BTU/H	11,000	13,000	18,000	19,700
	Capacity Range	Min-Max	BTU/H	4,010-12,000	4,800-13,000	5,100-19,100	6,400-20,900
	Power Input at 47°F	Rated 1	W	4,010	4,800	5,100	6,400
	Capacity at 17°F	Rated 1	BTU/H	6,900	8,900	11,900	12,900
		Max	BTU/H	6,900	8,900	11,900	12,900
	Capacity at 5°F	Max 4	BTU/H	5,600	6,100	8,900	9,800
Efficiency	SEER			22.4	22.0	19.8	20.7
	EER			13.4	13.3	12.2	12.5
	HSPF			12.2	11.4	11.2	11.6
	COP			3.9	2.9	3.0	3.1
	ENERGY STAR® Certified			Yes	Yes	No	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet-Low-Med-High-Silent)	Dry Wet	CFM	230-265-300 207-239-270	230-265-335 207-252-302	245-315-405 221-284-365	300-420-475 270-378-425
	Air Flow Rate - Heating (Quiet-Low-Med-High-Silent)	Dry	CFM	230-265-335	230-265-335	245-315-405	300-420-475
	Sound Pressure Level (Quiet-Low-Med-High-Silent)	Cooling Heating	dB(A)	25-28-31 25-28-31	25-30-34 25-30-34	27-34-39 27-34-39	32-40-43 32-40-43
	External Static Pressure		In. W.G.	—	—	—	—
	Condensate Lift Mechanism	Max Distance	In. [mm]	33 [850]	33 [850]	35 [850]	33 [850]
	Dimensions	H	In. [mm]	9-21/32 [245]	9-21/32 [245]	9-21/32 [245]	9-21/32 [245]
		W	In. [mm]	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]
		D	In. [mm]	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]
	Weight	lbs [kg]		31 [13.9]	31 [13.9]	31 [13.9]	31 [13.9]
	Outdoor Unit	MCA	A		9.0	9.0	10.0
MCCP		A		15	16	18	24
Dimensions		H	In. [mm]	21-5/8 [550]	21-5/8 [550]	21-5/8 [550]	24-5/8 [620]
		W	In. [mm]	31-1/2 [800]	31-1/2 [800]	31-1/2 [800]	33-1/16 [840]
		D	In. [mm]	11-1/4 [285]	11-1/4 [285]	11-1/4 [285]	13 [330]
Weight		lbs [kg]		81 [37]	81 [37]	81 [37]	127 [58]
Air Flow Rate (Cooling/Heating)		CFM		1228/1172	1228/1172	1243/1229	1691/1691
Sound Pressure Level		Cooling Heating	dB(A)	48 50	49 51	49 51	54 56
		Gas (O.D.) Liquid (O.D.) Indoor Drain	In. [mm]	3/8 [9.52] 1/4 [6.35] 1-1/4 [32]	3/8 [9.52] 1/4 [6.35] 1-1/4 [32]	1/2 [12.7] 1/4 [6.35] 1-1/4 [32]	1/2 [12.7] 1/4 [6.35] 1-1/4 [32]
Max. Length	ft [m]		65 [20]	65 [20]	65 [20]	100 [30]	
	Max. Height	ft [m]	40 [12]	40 [12]	40 [12]	50 [15]	
Electrical	Outdoor/Indoor P	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	15	15
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling 4	°F DB [°C DB]		14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]
	Heating	°F DB [°C DB]		-4.0 to -75.0 [20.0 to 24.0]	-4.0 to -75.0 [20.0 to 24.0]	-4.0 to -75.0 [20.0 to 24.0]	-4.0 to -75.0 [20.0 to 24.0]

References

AHR Field Conditions:
(Field data is determined by a field computer specific

Cooling (Index of Dissociation)

Holding at 47°F (Index // Outdoor)

*Heating at 17°F (Index 0.000000)

^aHeating at 5°F (indicate if Quindone).^aF: 80 DB, 67 WB; 95 DB, 75 WB.

70 DB, 60 WB N 47 DB, 43 WB

F 70 DB, 60 WB // 17 DB, 15 WB

*F 70 DB, 80 WB // 5 DB, 4 WB

Condition: Heating at 5°F (indoor / Outdoor)

*All systems should be installed in a confined space only. Equipment noise limitations are not recommended for low ambient conditions or conditions.

CKS Model



Indoor Unit				NAXCKB05A112A*	NAXCKB12A112A*	NAXCKB15A112A*	NAXCKB18A112A*
Outdoor Unit				NAXBKH05A112A*	NAXBKH12A112A*	NAXBKH15A112A*	NAXBKH18A112A*
Cooling	Capacity	Rated ¹	BTU/h	9,000	12,000	13,700	16,800
	Capacity Range	Min-Max	BTU/h	4,800-9,000	5,070-12,000	8,500-13,700	9,010-16,800
	Power Input	Rated ¹	W	600	840	1,095	1,340
	Moisture Removal	Pints/h		1.5	3.1	3.4	4.2
	Sensible Heat Factor			0.770	0.710	0.720	0.720
Heating	Capacity at 47°F	Rated ²	BTU/h	11,000	13,800	16,400	18,800
	Capacity Range	Min-Max	BTU/h	7,400-13,200	7,800-14,500	8,300-19,000	8,300-20,000
	Power Input at 47°F	Rated ²	W	820	1,170	1,830	2,020
	Capacity at 17°F	Rated ²	BTU/h	8,300	8,300	9,700	12,100
		Max	BTU/h	11,000	13,800	16,400	18,800
Efficiency	Capacity at 5°F	Max ⁴	BTU/h	11,000	13,800	16,400	18,800
	SEER			20.2	20.3	17.7	19.0
	EER			15.0	12.7	12.5	12.5
	HSPF			10	10	9	9.4
	COP			3.9	3.4	2.6	2.7
ENERGY STAR® Certified				Yes	Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet-Low-Med-High-SH)	Dry	CFM	230-265-300	230-265-325	245-315-405	300-420-475
		Wet	CFM	207-239-270	207-252-302	221-284-365	270-378-429
	Air Flow Rate - Heating (Quiet-Low-Med-High-SH)	Dry	CFM	230-265-325	230-265-325	245-315-405	300-420-475
	Sound Pressure Level (Quiet-Low-Med-High-SH)	Cooling	dB(A)	25-28-31	25-30-34	27-34-39	32-40-43
		Heating	dB(A)	25-28-31	25-30-34	27-34-39	32-40-43
	External Static Pressure		in. W.G.	—	—	—	—
	Condensate Lift Mechanism	Max Distance	in./mm	33 [850]	33 [850]	33 [850]	33 [850]
	Dimensions	H	in./mm	9-21/32 [245]	9-21/32 [245]	9-21/32 [245]	9-21/32 [245]
		W	in./mm	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]
		D	in./mm	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]	22-7/16 [570]
Weight	lbs [kg]		31 [13.9]	31 [13.9]	31 [13.9]	31 [13.9]	
Outdoor Unit	MCA	A		14.0	14.0	17.0	17.0
	MOCP	A		24	24	31	31
	Dimensions	H	in./mm	34-5/8 [880]	34-5/8 [880]	34-5/8 [880]	34-5/8 [880]
		W	in./mm	39-1/16 [840]	33-1/16 [840]	33-1/16 [840]	33-1/16 [840]
		D	in./mm	13 [330]	13 [330]	13 [330]	13 [330]
	Weight	lbs [kg]		129 [58.5]	129 [58.5]	131 [59.5]	131 [59.5]
	Air Flow Rate (Cooling/Heating)	CFM		1,691/1,691	1,691/1,691	2,020/1,930	2,020/1,930
	Sound Pressure Level	Cooling	dB(A)	54	54	55	55
		Heating	dB(A)	55	55	55	55
	Piping	Diameter	Gas (O.D.)	in./mm	3/8 [9.52]	3/8 [9.52]	1/2 [12.7]
Liquid (O.D.)			in./mm	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]
Indoor Drain			in./mm	1-1/4 [32]	1-1/4 [32]	1-1/4 [32]	1-1/4 [32]
Max. Length		ft [m]		65 [20]	65 [20]	65 [20]	100 [30]
Max. Height	ft [m]		40 [12]	40 [12]	40 [12]	50 [15]	
Electrical	Outdoor-Indoor ⁵	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	20	20
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling ⁶	°F DB [°C DB]		14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]
	Heating	°F DB [°C DB]		-13.0 to -75.0 [25.0 to 34.0]	-13.0 to -75.0 [25.0 to 34.0]	-13.0 to -75.0 [25.0 to 34.0]	-13.0 to -75.0 [25.0 to 34.0]

Notes

AHR: Read Conditions:
(Read data is determined
by a fixed computer speed)

Cooling index # Ductbox

Holding at 47°F (Index // Outlook)

^aHeating at 17°F (indoor if outdoor).^aHeating at 5°F (indoor / Outdoor).

Figure 1. Distribution of the 1000 simulated data sets.

*F 80 DB, 67 WB / 95 DB, 75 WB

*F 70 DB, 80 WB / 47 DB, 43 WB

F 70 DB, 60 WB // 17 DB, 15 WB

*F 70 DB, 80 WB // 5 DB, 4 WB

*Hydroxyl with respect to other first number with through first column are connected with

*Applications should be restricted to comfort cooling only. Evaporative cooling applications are not recommended for low ambient temperature conditions.

DKS Model

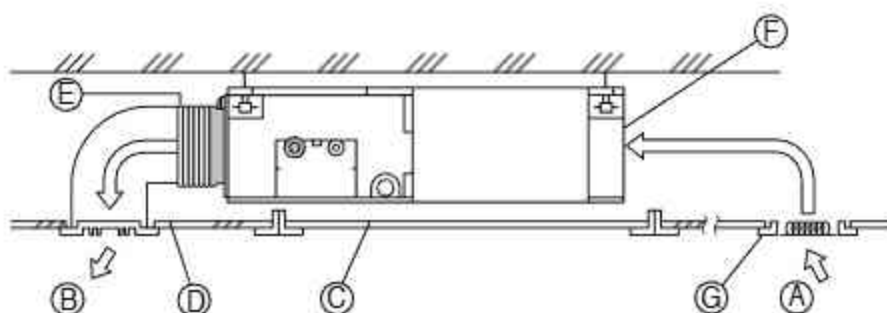
This concealed ceiling-mounted indoor unit model is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

NAXDKS(09/12/15/18)A1/2A*4



Compact Ceiling-concealed Units

Only the intake-air grille and outlet vents are visible when using this ceiling-concealed indoor unit. The rest of the unit is conveniently hidden in the ceiling cavity, essentially leaving the ceiling and walls free of bulky looking devices and maintaining a high-class interior décor. The compact units require minimal space and can be installed in buildings with lowered ceilings, where exposed units were the rule in the past.



- Ⓐ Air inlet
- Ⓑ Air outlet
- Ⓒ Access door
- Ⓓ Ceiling surface
- Ⓔ Canvas duct
- Ⓕ Air filter
- Ⓖ Inlet grille

Selection of Fan Speeds and Static Pressure Levels

Three fan speed settings (Low, Medium and High) and four static pressure levels are available for all capacities.

Static Pressure Levels

DKS09 - 18	0.02-0.06-0.14-0.20 in.W.G.
------------	-----------------------------

Sound Levels

	Low	Medium	High
09	23 dB(A)	26 dB(A)	30 dB(A)
12	23 dB(A)	26 dB(A)	33 dB(A)
15	30 dB(A)	34 dB(A)	37 dB(A)
18	30 dB(A)	34 dB(A)	38 dB(A)

DKS Model



Indoor Unit				NAXDKS09A112A*	NAXDKS12A112A*	NAXDKS15A112A*	NAXDKS18A112A*
Outdoor Unit				NAXDKS09A112A*	NAXDKS12A112A*	NAXDKS15A112A*	NAXDKS18A112A*
Cooling	Capacity	Rated ¹	BTU/H	9,000	12,000	18,000	18,000
	Capacity Range	Min-Max	BTU/H	3,900-9,000	4,000-12,000	5,200-18,000	6,100-18,000
	Power Input	Rated ¹	W	700	930	1,150	1,310
	Moisture Removal	Filter-in		1.5	1.8	1.9	2.8
	Sensible Heat Factor			0.820	0.820	0.860	0.820
Heating	Capacity at 47°F	Rated ²	BTU/H	12,000	15,000	18,000	21,800
	Capacity Range	Min-Max	BTU/H	4,200	4,600	5,000	6,100
	Power Input at 47°F	Rated ²	W	1,100	1,330	1,440	1,580
	Capacity at 17°F	Rated ³	BTU/H	7,600	10,000	11,700	13,900
	Capacity at 5°F	Max ⁴	BTU/H	6,700	9,000	11,800	13,100
Efficiency	SEER			18.8	20.5	19.0	22.0
	EER			12.8	12.9	13.0	13.7
	HSPF			11.00	12.40	11.40	13.10
	COP			3.1	3.3	3.6	4.0
	ENERGY STAR® Certified			Yes	Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet-Low-Med-High)	Dry	CFM	194-247-317	247-317-388	353-441-525	423-529-635
		Wet	CFM	174-222-285	222-285-349	317-398-476	361-476-572
	Air Flow Rate - Heating (Quiet-Low-Med-High)	Dry	CFM	194-247-317	247-317-388	353-441-525	423-529-635
	Sound Pressure Level (Quiet-Low-Med-High)	Cooling	dB(A)	23-26-30	23-28-33	30-34-37	30-34-38
		Heating	dB(A)	23-26-30	23-28-33	30-34-37	30-34-38
	External Static Pressure		in. W.G.	0.02-0.06-0.14-0.2	0.02-0.06-0.14-0.2	0.02-0.06-0.14-0.2	0.02-0.06-0.14-0.2
	Condensate Lift Mechanism	Max Distance	in. (mm)	212/32 (560)	21-21/32 (560)	21-21/32 (560)	21-21/32 (560)
	Dimensions	H	in. (mm)	7-7/8 (200)	7-7/8 (200)	7-7/8 (200)	7-7/8 (200)
		W	in. (mm)	31-7/8 (790)	39 (990)	39 (990)	46-7/8 (1190)
		D	in. (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Outdoor Unit	Weight	lbs (kg)		42 (19.0)	50 (22.0)	64 (24.0)	62 (28.0)
	MCA	A		9.0	9.0	10.0	14.0
	MOCP	A		15	16	16	24
	Dimensions	H	in. (mm)	21-5/8 (560)	21-5/8 (560)	21-5/8 (560)	34-5/8 (880)
		W	in. (mm)	31-1/2 (800)	31-1/2 (800)	31-1/2 (800)	33-1/16 (840)
		D	in. (mm)	11-1/4 (285)	11-1/4 (285)	11-1/4 (285)	13 (330)
	Weight	lbs (kg)		81 (37)	81 (37)	81 (37)	127 (58)
	Air Flow Rate (Cooling/Heating)	CFM		1228/1172	1228/1172	1343/1229	1651/1691
	Sound Pressure Level	Cooling	dB(A)	48	49	49	54
		Heating	dB(A)	50	51	51	56
Piping	Diameter	Gas (O.D.)	in. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)
		Liquid (O.D.)	in. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
		Indoor Drain	in. (mm)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)
	Max. Length	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	40 (12)	80 (24)
Electrical	Outdoor-Indoor ⁵	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	15	15
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling ⁶	°F DB / °C DB		14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]	14.0 to 115.0 [-10.0 to 46.0]
	Heating	°F DB / °C DB		-4.0 to -75.0 [-20.0 to 24.0]	-4.0 to -75.0 [-20.0 to 24.0]	-4.0 to -75.0 [-20.0 to 24.0]	-4.0 to -75.0 [-20.0 to 24.0]

Notes:

AHRI Rated Conditions
(Rated data is determined at a fixed compressor speed)

Conditions

*Indoor unit receives power from outdoor unit through field supplied interconnecting wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

¹Cooling (Indoor // Outdoor)

²Heating at 47°F (Indoor // Outdoor)

³Heating at 17°F (Indoor // Outdoor)

⁴Heating at 5°F (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

°F 70 DB, 60 WB // 47 DB, 43 WB

°F 70 DB, 60 WB // 17 DB, 15 WB

°F 70 DB, 60 WB // 5 DB, 4 WB

DKS Model



Indoor Unit				Outdoor Unit				Remote Controller			
NAXDKB09/12/15/18A112A*				NAXSKH09/12/15/18A112A*				*optional AAR-40MAAU *optional PAR-CT01MAU-SB *optional PAC-YT53CRAU-J			
Cooling				Cooling				Cooling			
Capacity	Rated ¹	BTU/H		Capacity	Rated ¹	BTU/H		Capacity	Rated ¹	BTU/H	
Capacity Range	Min-Max	BTU/H		Capacity Range	Min-Max	BTU/H		Capacity Range	Min-Max	BTU/H	
Power Input	Rated ¹	W		Power Input	Rated ¹	W		Power Input	Rated ¹	W	
Moisture Removal	Rated ¹	l/h		Moisture Removal	Rated ¹	l/h		Moisture Removal	Rated ¹	l/h	
Sensible Heat Factor				Sensible Heat Factor				Sensible Heat Factor			
Heating				Heating				Heating			
Capacity at 47°F	Rated ²	BTU/H		Capacity at 47°F	Rated ²	BTU/H		Capacity at 47°F	Rated ²	BTU/H	
Capacity Range	Min-Max	BTU/H		Capacity Range	Min-Max	BTU/H		Capacity Range	Min-Max	BTU/H	
Power Input at 47°F	Rated ²	W		Power Input at 47°F	Rated ²	W		Power Input at 47°F	Rated ²	W	
Capacity at 17°F	Max	BTU/H		Capacity at 17°F	Max	BTU/H		Capacity at 17°F	Max	BTU/H	
Capacity at 5°F	Max ⁴	BTU/H		Capacity at 5°F	Max ⁴	BTU/H		Capacity at 5°F	Max ⁴	BTU/H	
Efficiency				Efficiency				Efficiency			
SEER				SEER				SEER			
EER				EER				EER			
HSPF				HSPF				HSPF			
COP				COP				COP			
ENERGY STAR [®] Certified				ENERGY STAR [®] Certified				ENERGY STAR [®] Certified			
Air Flow Rate - Cooling (Quiet-Low-Med-High)	Dry	CFM		Air Flow Rate - Cooling (Quiet-Low-Med-High)	Dry	CFM		Air Flow Rate - Cooling (Quiet-Low-Med-High)	Dry	CFM	
Air Flow Rate - Heating (Quiet-Low-Med-High)	Dry	CFM		Air Flow Rate - Heating (Quiet-Low-Med-High)	Dry	CFM		Air Flow Rate - Heating (Quiet-Low-Med-High)	Dry	CFM	
Sound Pressure Level (Quiet-Low-Med-High)	Cooling	dB(A)		Sound Pressure Level (Quiet-Low-Med-High)	Cooling	dB(A)		Sound Pressure Level (Quiet-Low-Med-High)	Cooling	dB(A)	
External Static Pressure		in. W.G.		External Static Pressure		in. W.G.		External Static Pressure		in. W.G.	
Condensate Lift Mechanism	Max Distance	ft. (mm)		Condensate Lift Mechanism	Max Distance	ft. (mm)		Condensate Lift Mechanism	Max Distance	ft. (mm)	
Dimensions	H	in. (mm)		Dimensions	H	in. (mm)		Dimensions	H	in. (mm)	
Weight	lbs (kg)			Weight	lbs (kg)			Weight	lbs (kg)		
Outdoor Unit				Outdoor Unit				Outdoor Unit			
MCA	A			MCA	A			MCA	A		
MOCP	A			MOCP	A			MOCP	A		
Dimensions	H	in. (mm)		Dimensions	H	in. (mm)		Dimensions	H	in. (mm)	
Weight	lbs (kg)			Weight	lbs (kg)			Weight	lbs (kg)		
Air Flow Rate (Cooling/Heating)	CFM			Air Flow Rate (Cooling/Heating)	CFM			Air Flow Rate (Cooling/Heating)	CFM		
Sound Pressure Level	Cooling	dB(A)		Sound Pressure Level	Cooling	dB(A)		Sound Pressure Level	Cooling	dB(A)	
Gas (O.D.)	in. (mm)			Gas (O.D.)	in. (mm)			Gas (O.D.)	in. (mm)		
Liquid (O.D.)	in. (mm)			Liquid (O.D.)	in. (mm)			Liquid (O.D.)	in. (mm)		
Indoor Drain	in. (mm)			Indoor Drain	in. (mm)			Indoor Drain	in. (mm)		
Max. Length	ft (m)			Max. Length	ft (m)			Max. Length	ft (m)		
Max. Height	ft (m)			Max. Height	ft (m)			Max. Height	ft (m)		
Outdoor-Indoor ³	V, ph, Hz			Outdoor-Indoor ³	V, ph, Hz			Outdoor-Indoor ³	V, ph, Hz		
Recommended Breaker Size	A			Recommended Breaker Size	A			Recommended Breaker Size	A		
Refrigerant Type				Refrigerant Type				Refrigerant Type			
Guaranteed Temperature	Cooling ⁵	°F DB (°C DB)		Guaranteed Temperature	Cooling ⁵	°F DB (°C DB)		Guaranteed Temperature	Cooling ⁵	°F DB (°C DB)	
Operation Range	Heating	°F DB (°C DB)		Operation Range	Heating	°F DB (°C DB)		Operation Range	Heating	°F DB (°C DB)	

Note:

AHR: Rated Conditions
(Rated data is determined at a fixed compressor speed)

Conditions

*Indoor units receive power from outdoor units through field supplied interconnect wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

°F 80 DB, 67 WB // 95 DB, 75 WB
°F 70 DB, 60 WB // 47 DB, 43 WB
°F 70 DB, 60 WB // 17 DB, 15 WB
°F 70 DB, 60 WB // 5 DB, 4 WB

PEAD Model

The thin, ceiling-concealed indoor units of this model are the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, reducing electricity consumption and contributing to a further reduction in operating cost.



PEAD-A/12/18/24/30/36/42AA7

Compact Indoor Units

The height is only 9-7/8" for all sizes of this model from 12 to 42 kBTU/H. This makes it possible for the unit to be installed in low ceilings with minimal clearance space.



External Static Pressure

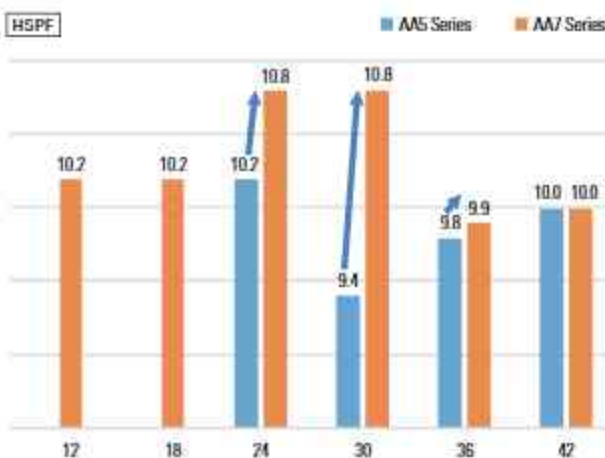
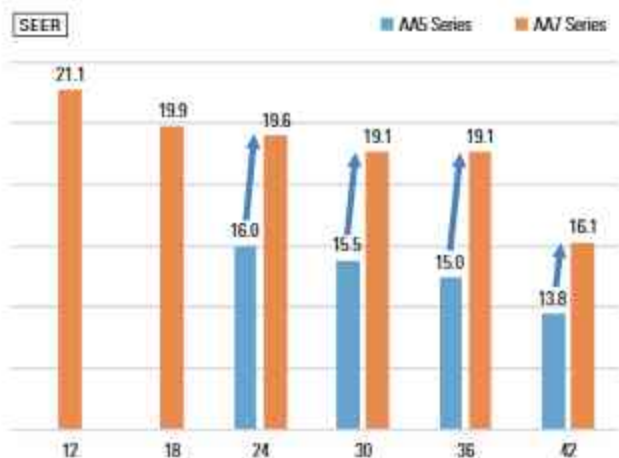
External static pressure conversion can be set up to five settings. Capable of being set to a maximum of 0.60 In.W.G., units are applicable to a wide range of building types.

■ External static pressure

Model	12	18	24	30	36	42
PEAD-A AA	0.14-0.20-0.28-0.40-0.60 In. W.G.					

High Energy Efficiency

SEER/HSPF has been greatly improved, and 12,000/16,000 BTU/H models have been added to the line-up.



Built-in Drain Lift Mechanism

All models feature a built-in drain lift mechanism for removal of condensate. The unit's fail-safe mechanism recognizes when there is a high liquid level in the condensate pan and turns off the indoor fan and the outdoor unit compressor to prevent overflow.

PEAD Model



Indoor Unit				PEAD-A09AA7	PEAD-A12AA7	PEAD-A15AA7	PEAD-A18AA7	PEAD-A24AA7	PEAD-A30AA7	PEAD-A36AA7
Outdoor Unit				NAXSK-09A112A*	NAXSK-12A112A*	NAXSK-15A112A*	NAXSK-18A112A*	NAXSK-24A112A*	NAXSK-30A112A*	NAXSK-36A112A*
Cooling	Capacity	Rated ¹	BTU/H	9,000	12,000	15,000	18,000	24,000	27,000	33,000
	Capacity Range	Min-Max	BTU/H	4,300-9,000	4,400-12,000	5,500-15,000	6,200-18,000	12,000-24,000	13,200-27,000	14,000-33,000
	Power Input	Rated ¹	W	720	930	1,150	1,270	1,920	2,160	2,810
	Moisture Removal	Filter-in		0.8	1.1	1.3	3.2	4.9	3.9	4.8
	Sensible Heat Factor			0.900	0.900	0.900	0.800	0.770	0.840	0.840
Heating	Capacity at 47°F	Rated ²	BTU/H	12,000	15,000	18,000	21,600	26,000	30,000	33,400
	Capacity Range	Min-Max	BTU/H	3,960-13,000	4,800-17,000	4,900-21,500	8,120-26,600	14,400-28,000	15,860-33,000	14,750-36,000
	Power Input at 47°F	Rated ²	W	900	1,160	1,350	1,600	1,890	2,410	3,170
	Capacity at 17°F	Max ⁴	BTU/H	7,600	9,900	11,300	14,000	15,000	22,400	23,000
	Capacity at 5°F	Max ⁴	BTU/H	6,100	7,900	10,100	12,000	—	—	—
Efficiency	SEER			19.7	20.5	19.2	19.8	18.0	18.0	18.0
	EER			12.6	12.9	13.0	14.1	12.8	12.8	9.4
	HSPF			12.6	13	11.6	12.9	11.2	12.8	11.6
	COP			3.9	3.7	3.9	3.9	3.6	3.6	3.0
	ENERGY STAR [®] Certified			Yes	Yes	Yes	Yes	Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet/Lo-Med-High)	Dry	CFM	262-316-353	353-424-494	424-512-600	424-512-600	512-636-742	616-742-883	847-1024-1201
		Wet	CFM	254-298-316	316-382-445	382-461-540	382-461-540	461-572-687	556-669-795	762-922-1081
	Air Flow Rate - Heating (Quiet/Lo-Med-High)	Dry	CFM	262-316-353	353-424-494	424-512-600	424-512-600	512-636-742	616-742-883	847-1024-1201
		Wet	CFM	254-298-316	316-382-445	382-461-540	382-461-540	461-572-687	556-669-795	762-922-1081
	Sound Pressure Level (Quiet/Lo-Med-High)	Cooling	dB(A)	24-26-28	28-30-34	30-33-37	30-33-37	30-33-37	30-34-39	33-36-42
		Heating	dB(A)	24-26-28	28-30-34	30-33-37	30-33-37	30-33-37	30-34-39	33-36-42
	External Static Pressure ³		in. W.G.	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6
	Condensate Lift Mechanism	Max Distance	in. (mm)	275/16 (700)	275/16 (700)	275/16 (700)	275/16 (700)	275/16 (700)	275/16 (700)	275/16 (700)
	Dimensions	H	in. (mm)	9-7/8 (250)	9-7/8 (250)	9-7/8 (250)	9-7/8 (250)	9-7/8 (250)	9-7/8 (250)	9-7/8 (250)
		W	in. (mm)	35-7/16 (900)	35-7/16 (900)	35-7/16 (900)	35-7/16 (900)	43-5/16 (1100)	43-5/16 (1100)	55-1/8 (1400)
		D	in. (mm)	28-7/8 (732)	28-7/8 (732)	28-7/8 (732)	28-7/8 (732)	28-7/8 (732)	28-7/8 (732)	28-7/8 (732)
Outdoor Unit	Weight	lbs (kg)		58 (26)	58 (26)	62 (28)	62 (28)	69 (31)	69 (31)	86 (39)
	MCA	A		9.0	9.0	10.0	14.0	17.0	17.0	17.0
	MOCF	A		15	15	18	24	31	31	31
	Dimensions	H	in. (mm)	21-5/8 (550)	21-5/8 (550)	21-5/8 (550)	34-5/8 (880)	34-5/8 (880)	34-5/8 (880)	34-5/8 (880)
		W	in. (mm)	31-1/2 (800)	31-1/2 (800)	31-1/2 (800)	33-1/16 (840)	33-1/16 (840)	33-1/16 (840)	33-1/16 (840)
		D	in. (mm)	11-1/4 (285)	11-1/4 (285)	11-1/4 (285)	13 (330)	13 (330)	13 (330)	13 (330)
	Weight	lbs (kg)		81 (37)	81 (37)	81 (37)	127 (58)	129 (58.5)	129 (58.5)	129 (58.5)
	Air Flow Rate (Cooling/Heating)	CFM		1228/1172	1228/1172	1243/1229	1691/1691	2020/1930	2020/1930	2000/1930
	Sound Pressure Level	Cooling	dB(A)	48	48	48	54	55	55	55
		Heating	dB(A)	50	51	51	55	55	55	55
Piping	Diameter	Gas (O.D.)	in. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (O.D.)	in. (mm)	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)
		Indoor Drain	in. (mm)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)
	Max. Length	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)	100 (30)	100 (30)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	40 (12)	50 (15)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor-Indoor ⁵	V, ph, 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
	Recommended Breaker Size	A		15	15	15	20	20	20	20
Refrigerant Type				R410A	R410A	R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling ⁶	°F DB (°C DB)		14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)
	Heating	°F DB (°C DB)		-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)	-4.0 to -75.0 (-20.0 to 24.0)

*Indoor unit receives power from outdoor unit through field supplied interconnecting wiring.
 *Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.

PEAD Model



Indoor Unit				PEAD-A09AA7	PEAD-A12AA7	PEAD-A15AA7	PEAD-A18AA7
Outdoor Unit				NAXSKH09A112A*	NAXSKH12A112A*	NAXSKH15A112A*	NAXSKH18A112A*
Cooling	Capacity	Rated *	BTU/H	9,000	12,000	15,000	18,000
	Capacity Range	Min-Max	BTU/H	5,000-9,000	5,770-12,000	9,600-15,000	9,320-18,000
	Power Input	Rated *	W	660	850	1,190	1,400
	Moisture Removal	l/min		1.4	1.8	2.4	3.6
	Sensible Heat Factor			0.820	0.820	0.820	0.780
Heating	Capacity at 47°F	Rated *	BTU/H	12,000	15,000	18,000	21,600
	Capacity Range	Min-Max	BTU/H	8,200-14,000	7,900-15,000	8,800-23,000	8,800-26,000
	Power Input at 47°F	Rated *	W	910	1,100	1,710	1,890
	Capacity at 17°F	Rated *	BTU/H	6,800	9,000	11,700	14,200
	Capacity at 5°F	Max *	BTU/H	12,000	15,000	18,000	21,600
Efficiency	SEER			17.8	19.3	18.3	16.9
	EER			13.8	14.1	12.6	12.8
	HSPF			10.8	11	9.9	10.8
	COP			3.9	3.9	3.0	3.3
	ENERGY STAR® Certified			Yes	Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet/Lo-Med-Hi-SH)	Dry	CFM	282-318-363	353-424-494	424-512-600	424-512-600
		Wet	CFM	254-286-318	318-382-445	382-451-540	382-451-540
	Air Flow Rate - Heating (Quiet/Lo-Med-Hi-SH)	Dry	CFM	282-318-363	353-424-494	424-512-600	424-512-600
		Wet	CFM	254-286-318	318-382-445	382-451-540	382-451-540
	Sound Pressure Level (Quiet/Lo-Med-Hi-SH)	Cooling	dB(A)	24-26-28	28-30-34	30-33-37	30-33-37
		Heating	dB(A)	24-26-28	28-30-34	30-33-37	30-33-37
	External Static Pressure	in. W.G.		0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6	0.14-0.2-0.28-0.4-0.6
	Condensate Lift Mechanism	Max Distance	in. (mm)	279/16 (700)	279/16 (700)	279/16 (700)	279/16 (700)
	Dimensions	H	in. (mm)	9-7/8 (250)	9-7/8 (250)	9-7/8 (250)	9-7/8 (250)
		W	in. (mm)	35-7/16 (900)	35-7/16 (900)	35-7/16 (900)	35-7/16 (900)
		D	in. (mm)	28-7/8 (732)	28-7/8 (732)	28-7/8 (732)	28-7/8 (732)
Outdoor Unit	Weight	lbs (kg)		58 (26)	58 (26)	62 (28)	62 (28)
	MCA	A		14.0	14.0	17.0	17.0
	MCOF	A		24	24	31	31
	Dimensions	H	in. (mm)	34-5/8 (880)	34-5/8 (880)	34-5/8 (880)	34-5/8 (880)
		W	in. (mm)	39-1/16 (940)	39-1/16 (940)	39-1/16 (940)	39-1/16 (940)
		D	in. (mm)	13 (330)	13 (330)	13 (330)	13 (330)
	Weight	lbs (kg)		129 (58.5)	129 (58.5)	131 (59.5)	131 (59.5)
	Air Flow Rate (Cooling/Heating)	CFM		1,691/1,691	1,691/1,691	2,020/1,930	2,020/1,930
	Sound Pressure Level	Cooling	dB(A)	54	54	55	55
		Heating	dB(A)	55	55	55	55
Piping	Diameter	Gas (O.D.)	in. (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)
		Liquid (O.D.)	in. (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
		Indoor Drain	in. (mm)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)	1-1/4 (32)
	Max. Length	ft (m)		65 (20)	65 (20)	65 (20)	100 (30)
	Max. Height	ft (m)		40 (12)	40 (12)	40 (12)	60 (18)
Electrical	Outdoor-Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	20	20
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB / °C DB		14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)	14.0 to 115.0 (-10.0 to 46.0)
	Heating	°F DB / °C DB		-13.0 to -75.0 (-25.0 to 24.0)	-13.0 to -75.0 (-25.0 to 24.0)	-13.0 to -75.0 (-25.0 to 24.0)	-13.0 to -75.0 (-25.0 to 24.0)

Notes:

AHR® Rated Conditions:
(Rated data is determined at a fixed compressor speed)

*Cooling (Indoor // Outdoor)

*Heating at 47°F (Indoor // Outdoor)

*Heating at 17°F (Indoor // Outdoor)

*Heating at 5°F (Indoor // Outdoor)

*F 80 DB, 67 WB // 95 DB, 75 WB

*F 70 DB, 60 WB // 47 DB, 43 WB

*F 70 DB, 60 WB // 17 DB, 15 WB

*F 70 DB, 60 WB // 5 DB, 4 WB

*Indoor unit receive power from outdoor unit through field supplied indoor/outdoor wiring.

*Applications should be restricted to comfort cooling only. Equipment cooling applications are not recommended for low ambient temperature conditions.



P Series



SELECTION

Line-up includes a selection of six indoor units and three categories of outdoor units.
Easily construct a system that best matches room air conditioning needs.

STEP 1

SELECT INDOOR UNIT

Choose from Cooling Only, Heat Pump, or Hyper-heating models.



STEP 2

SELECT OUTDOOR UNIT

Choose from Cooling Only, Heat Pump, or Hyper-heating models.

Cooling Only



Heat Pump



Pro-Heat



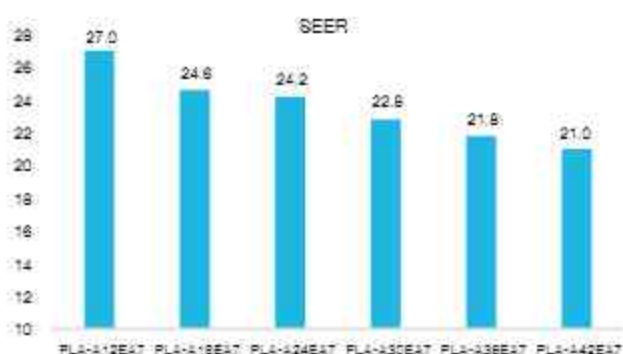
P-SERIES

The P-Series is designed to achieve industry-leading seasonal energy-efficiency through use of new technologies and high-performance compressors. Installation is easy thanks to outdoor units with a side-flow configuration, a maximum piping length of 225 ft. PUY only and pipe-replacement technologies.



Industry Leading Energy Efficiency

Industry-leading energy efficiency has been achieved through optimization of a newly designed compressor and the use of the latest energy-saving technologies. All compressors offer high performance due to advanced variable-speed INVERTER-drive technology, which varies the compressor speed dynamically to continuously adapt to the conditioning requirements of the room.



Advanced Energy-saving Technology

Highly efficient fan for outdoor unit

Fan opening of 21-3/4" (A36-42)

The opening for the fan in the outdoor unit is 21-3/4" in diameter. By exchanging heat more efficiently, this will contribute to energy-saving and low noise level.



The opening for the fan in the outdoor unit is 21-3/4" in diameter.

Improved fan (A36-42)

A newly designed fan has been adopted, increasing airflow capacity and reducing operation noise.



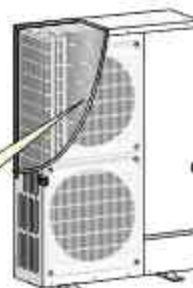
Fan rear edge

Highly efficient heat exchanger

High-density heat exchanger (A36-42)

The A36-42 units use 5/16"-diameter pipe. The high-density heat exchanger contributes to efficient heat exchange and reduces the amount of refrigerant used, which is better for the environment.

2 lines, 64 columns
(A36-42)



COOLING ONLY

PUY Model

Low ambient cooling operation range

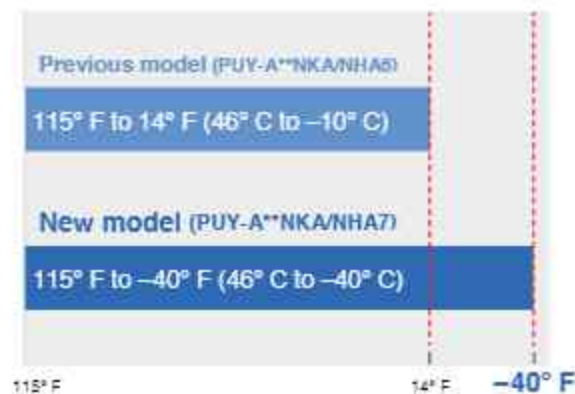


High Reliability and Performance in Low Ambient Conditions

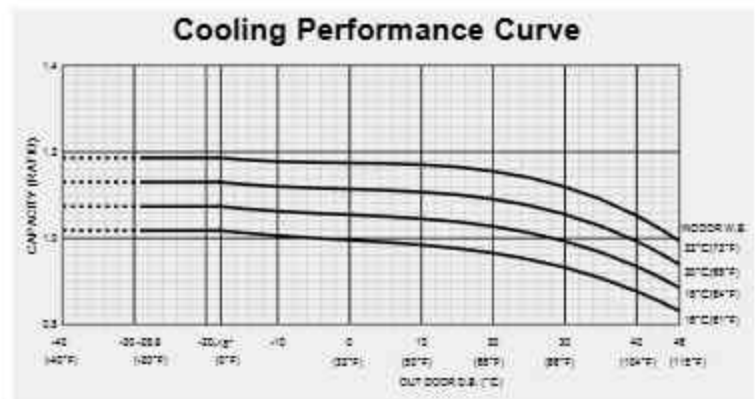
By changing the fan speed control in low ambient temperatures, the PUY model can offer stable operation down to -40°F . This model range is well suited for cooling needs in cold regions.

*Optional Air Protection Guide/Wind Baffle is needed when ambient temperature is under 23°F .

Low ambient cooling operation range



High capacity at low ambient condition



Quick auto restart after power failure

In case of power failures, the time until auto restart became shorter from 180 seconds to 60 seconds. The unit will quickly restart with the same operation mode as before the power failure.



Backup rotation function

The two units can operate alternately so the units can maintain their quality for a longer period of time, and so that even if there is trouble with one unit, the other unit will keep operating.

*Can only be used with AAR-40MAAU controller



Continuous operation

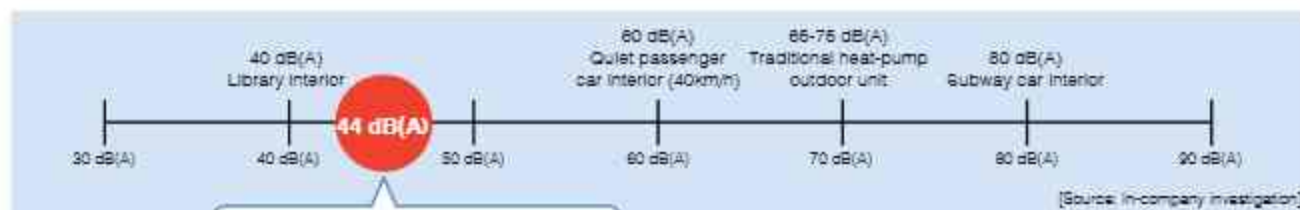
Control algorithm allows for stable continuous operation to meet cooling requirements all year round. The unit will quickly restart with the same operation mode as before the power failure.

HEAT PUMP PUZ Model



Quiet and Comfort

Sound level



PUZ Series outdoor unit*
*PUZ-A12/18 cooling mode

Energy saving

Not only do all capacities meet standard requirements, but they also are ENERGY STAR® certified*, with top level efficiency.

*With PLA-A12/18/24/36 indoor unit.

All units are inverter-driven, operating efficiently in accordance to the cooling/heating load.



Wide Operation Range

Due to the wide operation range, the units can be used in many different climates.

Cooling

115° F to 0° F*1 (46° C to -18.8° C)

Heating

70° F to -4° F (19° C to -20° C)*2

*1 In case that the air protection guide wind baffle is installed. (In case the wind baffle is not installed, the minimum temperature will be 23° F (-5° C) DB)

*2 A24/30/36/42

Flexible Installation

Long piping length

The long piping length allows them to be installed in unnoticeable places such as rooftops.

	Piping	
	Length (ft)	Height (ft)
PUZ-A12NKA7	100	100
PUZ-A18NKA7	100	100
PUZ-A24NKA7	165	100
PUZ-A30NKA7	165	100
PUZ-A36NKA7	165	100
PUZ-A42NKA7	165	100

Various types of indoor units

With various types of indoor units, there is a perfect match for any type of application, starting from residential homes to restaurants and offices.

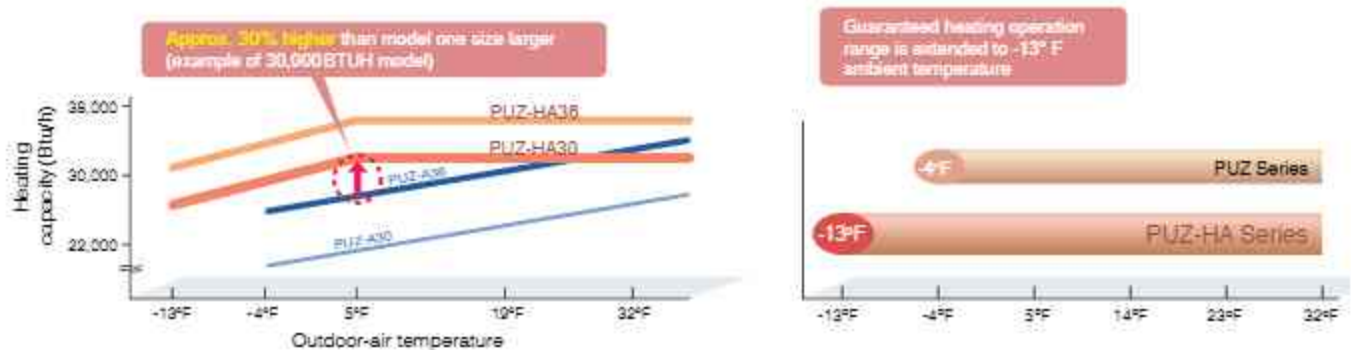


Pro-HEAT PUZ-HA Model



Improved Heating Performance

Our unique Flash Injection circuit achieves remarkably high heating performance. This technology has resulted in an excellent heating capacity rating in outdoor temperatures as low as 5° F, and the guaranteed heating operation range of the heating mode has been extended to -13° F. Accordingly, the hyper-heating PUZ-HA Model are perfect for warming homes in the coldest of regions.

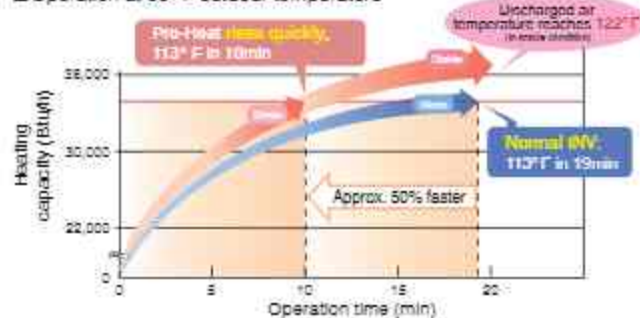


Enhanced Comfort

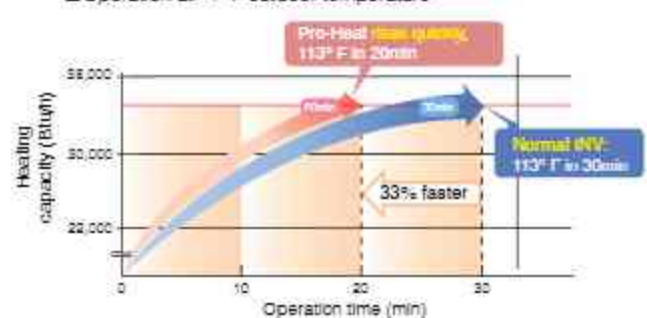
The Flash Injection circuit improves start-up and recover from the defrosting operation. A newly introduced defrost operation control also improves defrost frequency. These features enable the temperature to reach the set temperature more quickly, and contribute to maintaining it at the desired setting.

Quick Start-up

■ Operation at 96° F outdoor temperature



■ Operation at -4° F outdoor temperature



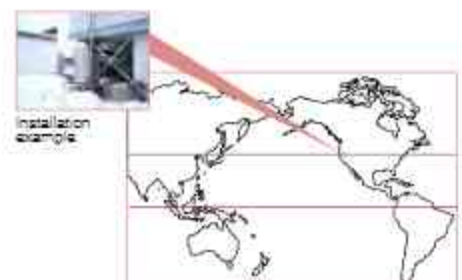
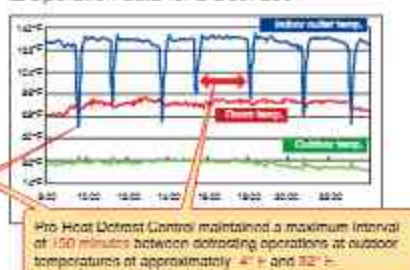
Pro-Heat Defrost Control and Faster Recovery from Defrost Operation

Field Test Results: Office building in Asahikawa, Hokkaido, Japan

■ Operation data for 25 Jan. 2005



■ Operation data for 2 Dec. 2004



PLA Model

A complete line-up that offer superior energy savings. The incorporation of wide air-outlet and the 3D i-see Sensor® enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user satisfaction.



4-way Ceiling Cassette Line-up

For users seeking further energy savings, we offer a wide line-up from 12-42 KBTU/H.

Line-up

Model	12	18	24	30	36	42
Series						
4-way Cassette (PLA-A)	PLA A12EA7	PLA A18EA7	PLA A24EA7	PLA A30EA7	PLA A36EA7	PLA A42EA7

Key Technologies for Higher Energy Efficiency

3D Turbo Fan

By optimizing the fan blade wing design using a three-dimensional shape, efficiency has been improved and operating noise reduced.

Indoor/Outdoor Unit Combinations



4-way Cassette
PLA-A EA

Power Inverter



Energy-saving Performance

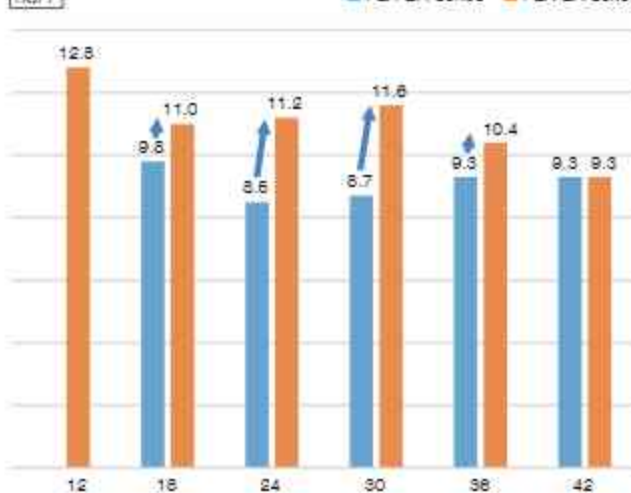
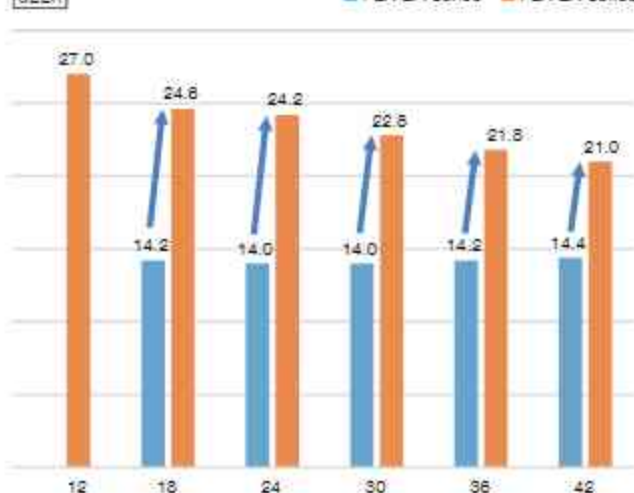
SEER/HSPF has been greatly improved, realizing industry-leading energy-saving features.

SEER

PLA-BA Series PLA-EA Series

HSPF

PLA-BA Series PLA-EA Series



Horizontal Airflow

For users seeking further energy savings, we offer a wide line-up from 12-42 KBTU/H.

Draft reduction vane setting

The newly function Draft Reduction of manual vane setting makes the air flow direction more horizontal than usual horizontal vane setting. It reduces a drafty feeling dramatically.

*The draft reduction can be set for only 1 vane. AAR-40MAAU is required for this setting.

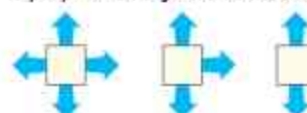
Individual vane settings

72 patterns of airflow to accommodate any room layout are available. The number of outlet can be set to 4, 3, or 2. Flexible airflow is available by fixing the up-down airflow direction of the outlet with a wired remote controller (or manually).

72 airflow patterns

||

4-, 3-, or 2- way outlet selection*



*Optional parts air outlet shutter plate is required for 2- or 3- way outlet selection.

×

Setting the air direction for each outlet with wired remote controller



Easy Installation

Electrical box wiring

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made previously complex wiring work easier.

■ Previous Model (BA Model)



■ New Model (EA Model)



Increased space for piping work

The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving liquid pipe work and enabling it to be completed smoothly.



Temporary hanging hook

The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during panel installation.



No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply loosen them. This lowers the risk of losing screws.

■ Corner panel



■ Corner box cover



Lightweight decorative panel

After reviewing the structure and materials, weight has been reduced approximately 20% compared to the previous model, reducing the burden of installation.



3D i-see Sensor for P-Series

Detects number of people

The 3D i-see Sensor® detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode. Depending on the setting, it can also stop the operation.

Detects people's position

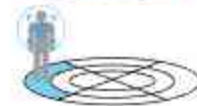
Once a person is detected, the angle of the vane is automatically adjusted. Each vane can be independently set to Direct Airflow or Indirect Airflow according to taste.



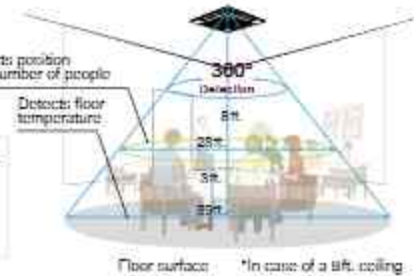
Detects number of people



Detects people's position



Detects position and number of people



Floor surface *In case of a tilt ceiling

Detects number of people

Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save air conditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 2° F during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

Room occupancy energy-saving mode



100%



30%

2° F power savings



100%



0%

4° F power savings



100%



0%

Auto-Off

No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60 min, air-conditioning power equivalent to 4° F during both cooling and heating operation is saved. This contributes to preventing waste in terms of heating and cooling.

No occupancy Auto-OFF mode

When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10 min, ranging from 60 to 180 min.

*AAH-40MAAU is required for each setting

Detects people's position

Direct/Indirect settings*

The horizontal airflow spreads across the ceiling. When set to Indirect Airflow uncomfortable drafty-feeling is eliminated completely.



*AAH-40MAAU is required for each setting

Seasonal airflow*

When Cooling

Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

When Heating

The air conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the air conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.



*AAH-40MAAU is required for each setting

PLA-A Model



MODEL SELECTION

Indoor Unit



PLA-A12/18/24/30/36/42EA7



Required grille: PLP-40EA7 / PLP-41EA7

Outdoor Unit

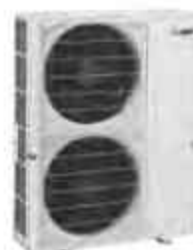
Cooling Only



PUY-A12/18NKA7



PUY-A24/30NHA7



PUY-A36/42NKA7

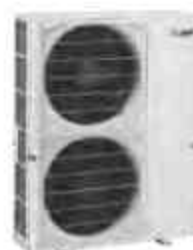
Heat Pump



PUZ-A12/18NKA7



PUZ-A24/30NHA7



PUZ-A36/42NKA7

Hyper-heating



PUZ-HA24NHA



PUZ-HA30/36NHA5



PUZ-HA42NKA

Remote Controller



*optional
AAR-40MAAU



*optional
PAC-YT33CRAU-J



*optional



*optional
PAR-CT01MAU-SB

PLA Model



Indoor Unit				PLA A12E/A7	PLA A18E/A7	PLA A24E/A7	PLA A30E/A7	PLA A36E/A7	PLA A42E/A7
Outdoor Unit				PUR A12NKA7 (BS)	PUR A18NKA7 (BS)	PUR A24NKA7 (BS)	PUR A30NKA7 (BS)	PUR A36NKA7 (BS)	PUR A42NKA7 (BS)
Cooling	Capacity	Rated *	BTU/H	12,000	18,000	24,000	30,000	36,000	42,000
	Capacity Range	Min-Max	BTU/H	5,800-12,000	8,000-18,000	10,000-24,000	11,000-30,000	16,000-36,000	16,000-42,000
	Power Input	Rated †	W	760	1,250	1,670	2,540	2,780	3,530
	Moisture Removal	Pitch		1.2	2.4	3.0	5.4	4.5	7.9
	Sensible Heat Factor			0.800	0.850	0.860	0.800	0.860	0.790
Heating	Capacity at 47°F	Rated	BTU/H						
	Capacity Range	Min-Max	BTU/H						
	Power Input at 47°F	Rated	W						
	Capacity at 17°F	Rated	BTU/H						
		Max	BTU/H						
Efficiency	SEER			27.0	34.0	34.2	32.8	31.8	31.0
	EER			16.4	14.4	14.9	11.8	12.9	11.0
	HSPF								
	COP								
	ENERGY STAR® Certified			Yes	Yes	Yes	No	Yes	No
Indoor Unit	Air Flow Rate: Cooling (Quiet Lo Mod Hi SH)	Dry	CHM	420/460/490/530	420/460/570/600	530/640/710/810	570/670/780/880	670/850/1020/1200	740/920/1090/1200
		Wet	CHM	380/420/450/490	380/420/530/560	430/500/570/770	530/630/740/840	630/810/980/1100	700/880/1020/1100
	Air Flow Rate: Heating (Quiet Lo Mod Hi SH)	Dry	CHM	420/460/490/530	420/460/570/600	530/640/710/810	570/670/780/880	670/850/1020/1200	740/920/1090/1200
	Sound Pressure Level (Quiet Lo Mod Hi SH)	Cooling	dB(A)	27/28/29/30	28/29/31/32	28/30/33/36	28/32/35/38	32/37/41/44	34/38/42/45
		Heating	dB(A)	27/28/29/30	28/29/31/32	28/30/33/36	28/32/35/38	32/37/41/44	34/38/42/45
	External Static Pressure		In. W.G.						
	Condensate Lift Mechanism	Max Distance	In. (mm)	(840)	(840)	(840)	(840)	(840)	(840)
	Dimensions	H	In. (mm)	10/5/32 // 1/9/16 (258 // 40)	10/5/32 // 1/9/16 (258 // 40)	10/5/32 // 1/9/16 (258 // 40)	11/3/4 // 1/9/16 (258 // 40)	11/3/4 // 1/9/16 (258 // 40)	11/3/4 // 1/9/16 (258 // 40)
		W	In. (mm)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)
		D	In. (mm)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)	33/1/16 // 37/13/32 (840)
Weight		Lbs (kg)		46 // 11/32 // 5	46 // 11/32 // 5	50 // 11/25 // 5	50 // 11/25 // 5	56 // 11/25 // 5	56 // 11/25 // 5
MCA	Λ		11.0	11.0	13.0	13.0	25.0	25.0	
MUCH	Λ		28	28	26	25	31	31	
Outdoor Unit	Dimensions	H	In. (mm)	24/13/16 (620)	24/13/16 (620)	37/18/34 (943)	37/18/34 (943)	52/11/16 (1338)	52/11/16 (1338)
		W	In. (mm)	31/13/16 // 7/16 (809 // 102)	31/13/16 // 7/16 (809 // 102)	37/13/32 (950)	37/13/32 (950)	41/5/16 (1050)	41/5/16 (1050)
		D	In. (mm)	11/3/16 (300)	11/3/16 (300)	13/1/13/16 (330 // 130)	13/1/13/16 (330 // 130)	18/1/13/16 (380 // 130)	18/1/13/16 (380 // 130)
	Weight	Lbs (kg)		92 (41)	99 (44)	151 (68)	151 (68)	211 (96)	211 (96)
	Air Flow Rate (Cooling/Heating)	CHM		1790/	1790/	1940/	1940/	3880/	3880/
Piping	Sound Pressure Level	Cooling	dB(A)	44	44	47	47	52	52
		Heating	dB(A)						
	Diameter	Gas (G.U.)	In. (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)
		Liquid (L.U.)	In. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)						
Max. Length	ft (m)		165 (50)	165 (50)	225 (68)	225 (68)	225 (68)	225 (68)	
Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	
Electrical	Outdoor Indoor *	V, ph, 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
	Recommended Breaker Size	Λ		15	15	25	25	30	30
Refrigerant Type				R410A					
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)	40.0 to 115.0 (40.0 to 46.0)						
	Heating	°F DB (°C DB)	40.0 to 115.0 (40.0 to 46.0)						

Notes

455 Bond Condition

(Fixed data is determined
in a fixed compressor speed)

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*Wind baffles required to operate below 20°F DB in cooling mode. PU/Y with wind baffle. 40°F to 115°F Refer to wind baffle documentation for further information.

BEACON PROTECTION

- External/Chute Panel: Phosphor coating + Arylic Enamel coating
- Fan Motor Support, Epoxy resin coating (air tight force)
- Insulating Assembly, White Red Epoxy resin coating (air tight force)

- "Blue Fin" insulation is an oil based insulation that is applied in the conductive coil to extend a heating surface component

PLA Model

HEAT PUMP



Indoor Unit				PLA A12EAT	PLA A18EAT	PLA A24EAT	PLA A30EAT	PLA A36EAT	PLA A42EAT
Outdoor Unit				PUL A12NKA7 (B5)	PUL A18NKA7 (B5)	PUL A24NKA7 (B5)	PUL A30NKA7 (B5)	PUL A36NKA7 (B5)	PUL A42NKA7 (B5)
Cooling	Capacity	Rated *	BtU/H	12,000	18,000	24,000	30,000	36,000	42,000
	Capacity Range	Min/Max	BtU/H	5,800 / 12,000	8,000 / 18,000	10,000 / 24,000	11,000 / 30,000	16,000 / 36,000	16,000 / 42,000
	Power Input	Rated *	W	730	1,250	1,370	2,540	2,790	3,090
	Moisture Removal	Pint/h		1.2	2.4	3.0	5.4	4.5	7.0
	Seizable Heat Exchanger			0.800	0.850	0.860	0.800	0.860	0.790
Heating	Capacity at 47°F	Rated *	BtU/H	14,000	19,000	26,000	32,000	38,000	45,000
	Capacity Range	Min/Max	BtU/H	5,500 / 20,000	7,000 / 25,000	9,000 / 29,000	9,000 / 33,000	18,000 / 42,000	18,000 / 48,000
	Power Input at 47°F	Rated *	W	890	1,300	1,750	2,400	2,540	3,200
	Capacity at 17°F	Rated *	BtU/H	10,100	11,000	14,900	18,100	22,000	28,000
	Capacity at 5°F	Max *	BtU/H	12,200	13,500	17,400	20,800	25,000	30,800
Efficiency	SEER			27.0	24.0	24.2	22.8	21.8	21.0
	HSPF			16.4	14.4	14.3	11.8	12.0	11.0
	HSPF			12.8	11	11.2	11.6	10.4	9.9
	CEC			4.94	4.38	4.35	5.9	4.38	4.0
	ENERGY STAR® Certified			Yes	Yes	Yes	No	Yes	No
Indoor Unit	Air Flow Rate - Cooling (Quiet Lr Mod Hr SH)	Dry	C-M	420 / 460 / 490 / 530	420 / 460 / 570 / 600	530 / 640 / 710 / 810	570 / 670 / 780 / 880	670 / 850 / 1020 / 1200	740 / 920 / 1080 / 1200
		Wet	C-M	380 / 420 / 450 / 490	380 / 420 / 530 / 560	400 / 600 / 670 / 770	530 / 630 / 740 / 840	630 / 810 / 980 / 1160	700 / 880 / 1020 / 1160
	Air Flow Rate - Heating (Quiet Lr Mod Hr SH)	Dry	C-M	420 / 460 / 490 / 530	420 / 460 / 570 / 600	530 / 640 / 710 / 810	570 / 670 / 780 / 880	670 / 850 / 1020 / 1200	740 / 920 / 1080 / 1200
		Wet	C-M	380 / 420 / 450 / 490	380 / 420 / 530 / 560	400 / 600 / 670 / 770	530 / 630 / 740 / 840	630 / 810 / 980 / 1160	700 / 880 / 1020 / 1160
	Sound Pressure Level (Quiet Lr Mod Hr SH)	Cooling	dB(A)	27 / 28 / 29 / 30	28 / 29 / 31 / 32	28 / 30 / 33 / 36	28 / 32 / 35 / 38	32 / 37 / 41 / 44	34 / 38 / 42 / 45
		Heating	dB(A)	27 / 28 / 29 / 30	28 / 29 / 31 / 32	28 / 30 / 33 / 36	28 / 32 / 35 / 38	32 / 37 / 41 / 44	34 / 38 / 42 / 45
	External Static Pressure		In. W.G.						
	Condensate Lift Mechanism	Max Distance	In. (mm)	(840)	(840)	(840)	(840)	(840)	(840)
	Dimensions	H	In. (mm)	10 5/32 // 1 5/16 (258 // 40)	10 5/32 // 1 5/16 (258 // 40)	10 5/32 // 1 5/16 (258 // 40)	11 3/4 // 1 5/16 (298 // 40)	11 3/4 // 1 5/16 (298 // 40)	11 3/4 // 1 5/16 (298 // 40)
		W	In. (mm)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)
		D	In. (mm)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)	33 1/16 // 37 13/32 (840)
	Weight	lbs (kg)		46 // 11 (21 // 5)	46 // 11 (21 // 5)	56 // 11 (25 // 5)	56 // 11 (25 // 5)	56 // 11 (25 // 5)	56 // 11 (25 // 5)
Outdoor Unit	MCA	A		11.0	11.0	13.0	13.0	25.0	25.0
	MDCP	A		28	28	26	26	31	31
	Dimensions	H	In. (mm)	24 (616) (630)	24 (616) (630)	37 (943) (950)	37 (943) (950)	52 (1320) (1338)	52 (1320) (1338)
		W	In. (mm)	31 (787) (790)	31 (787) (790)	37 (943) (950)	37 (943) (950)	41 (1041) (1050)	41 (1041) (1050)
		D	In. (mm)	11 5/16 (300)	11 5/16 (300)	13 (11 5/16) (330)	13 (11 5/16) (330)	13 (11 5/16) (330)	13 (11 5/16) (330)
	Weight	lbs (kg)		98 (42)	100 (45)	153 (69)	153 (69)	214 (97)	214 (97)
	Air Flow Rate (Cooling/Heating)	C-M		1290/1590	1590/1590	1940/1940	1940/1940	3880/3880	3880/3880
		Cooling	dB(A)	44	44	47	47	52	52
	Sound Pressure Level	Heating	dB(A)	46	46	48	48	53	53
Piping	Diameter	Gas (L/D)	In. (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)
		Liquid (L/D)	In. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)						
	Max. Length	ft (m)		100 (30)	100 (30)	165 (50)	165 (50)	165 (50)	165 (50)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor Indoor *	V, ph, 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
	Recommended Breaker Size	A		15	15	25	25	30	30
Refrigerant Type				R410A	R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		12.0 to 70.0 (11.0 to 21.0)	12.0 to 70.0 (11.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)

Notes:

AHRF Rated Conditions:
(Rated data is determined at a fixed compressor speed)

Cooling (Indoor // Outdoor)

°F 80 DB, 87 WB // 95 DB, 75 WB

Heating at 47°F (Indoor // Outdoor)

°F 70 DB, 50 WB // 47 DB, 43 WB

Heating at 17°F (Indoor // Outdoor)

°F 70 DB, 50 WB // 17 DB, 15 WB

Conditions:
Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 50 WB // 5 DB, 4 WB

*Indoor units receive power from outdoor units through field supplied interconnecting wiring.

*Wind baffles required in operation below 23°F DB in cooling mode. PUL with wind baffles. 0°F - 115°F. Refer to wind baffle documentation for further information.

REAR-CASE PROTECTION

- External Outer Panel: Phosphoric coating + Acrylic Enamel coating

- Fan Motor Support: Epoxy resin coating (at edge face)

- Refrigerant Assembly, Valve Body: Epoxy resin coating (at edge face)

- "Blue Fry" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.

PLA Model

HYPER-HEATING



Indoor Unit				PLA A24eA7	PLA A30eA7	PLA A36eA7	PLA A42eA7
Outdoor Unit				PUZ H424NH4	PUZ H430NH4S	PUZ H436NH4S	PUZ H442NH4
Cooling	Capacity	Rated *	B1U/H	24,000	30,000	36,000	42,000
	Capacity Range	Min/Max	B1U/H	10,000-24,000	18,000	18,000	18,000
	Power Input	Rated *	W	1,710	2,400	2,950	4,160
	Moisture Removal	Rated *		3.0	7.2	7.1	10.0
Heating	Sensible Heat Factor			0.860	0.790	0.710	0.710
	Capacity at 47°F	Rated *	B1U/H	26,000	32,000	38,000	48,000
	Capacity Range	Min/Max	B1U/H	10,000-26,000	18,000-34,000	18,000-40,000	21,000-54,000
	Power Input at 47°F	Rated *	W	1,700	3,380	3,130	4,560
Efficiency	Capacity at 17°F	Rated *	B1U/H	17,800	19,000	28,000	44,000
	Capacity at 5°F	Max *	B1U/H	25,000	32,000	38,000	48,000
	SEER			21.5	15.6	17.0	14.8
	HSPF			14.0	12.0	12.6	10.1
Indoor Unit	ESR			12	9.4	10	10
	ODP			4.81	2.72	3.44	3.02
	ENERGY STAR Certified			Yes	Yes	Yes	No
	Air Flow Rate (Cooling)	Quiet/Lo/Mod/Hi (SH)	CHM	530/640/710/810	570/670/760/880	670/850/1020/1200	740/920/1060/1200
Outdoor Unit	Air Flow Rate (Heating)	Quiet/Lo/Mod/Hi (SH)	CHM	530/640/710/810	570/670/760/880	670/850/1020/1200	740/920/1060/1200
	Sound Pressure Level (Cooling)	dB(A)		28/30/33/36	28/32/35/38	32/37/41/44	34/38/42/45
	Sound Pressure Level (Heating)	dB(A)		28/30/33/36	28/32/35/38	32/37/41/44	34/38/42/45
	External Static Pressure	In. W.G.					
Dimensions	Condensate Lift Mechanism	Max. Distance	In. (mm)	(840)	(840)	(840)	(840)
	H	In. (mm)		10 5/32 // 1 9/16 (258 // 40)	11 3/4 // 1 9/16 (298 // 40)	11 3/4 // 1 9/16 (298 // 40)	11 3/4 // 1 9/16 (298 // 40)
	W	In. (mm)		33 1/16 // 37 (832 // 940)	33 1/16 // 37 (832 // 940)	33 1/16 // 37 (832 // 940)	33 1/16 // 37 (832 // 940)
	D	In. (mm)		33 1/16 // 37 (832 // 940)	33 1/16 // 37 (832 // 940)	33 1/16 // 37 (832 // 940)	33 1/16 // 37 (832 // 940)
Weight	Weight	Lbs (kg)		56 // 11 (25 // 5)	56 // 11 (25 // 5)	56 // 11 (25 // 5)	56 // 11 (25 // 5)
	MLA	A		19.0	28.0	28.0	37.0
	MOCP	A		25	40	40	44
	H	In. (mm)		37 1/8 (948)	38 1/8 (975)	38 1/8 (975)	38 1/8 (975)
Piping	W	In. (mm)		37 1/8 (948)	37 3/8 (950)	37 3/8 (950)	41 3/8 (1051)
	D	In. (mm)		13 (1 9/16) (330 // 180)	13 (1 9/16) (330 // 180)	13 (1 9/16) (330 // 180)	13 (1 9/16) (330 // 180)
	Weight	Lbs (kg)		85 (188)	265 (120)	265 (120)	287 (130)
	Air Flow Rate (Cooling/Heating)	CHM		1340/1340	3030/3030	3030/3030	3320/3320
Electrical	Sound Pressure Level (Cooling)	dB(A)		52	52	52	48
	Sound Pressure Level (Heating)	dB(A)		53	53	53	51
	Gas (U.U.)	In. (mm)		5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
	Liquid (U.U.)	In. (mm)		3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Piping	Indoor Drain	In. (mm)					
	Max. Length	ft (m)		165 (50)	245 (75)	245 (75)	245 (75)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)
	Outdoor Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Electrical	Recommended Breaker Size	A		25	30	30	40
	Refrigerant Type			R410A	R410A	R410A	R410A
	Guaranteed Temperature			0.0 to 115.0	0.0 to 115.0	0.0 to 115.0	0.0 to 115.0
	Operation Range			(18.0 to 46.0)	(18.0 to 46.0)	(18.0 to 46.0)	(18.0 to 46.0)
Operation Range	Heating			13.0 to 70.0	13.0 to 70.0	13.0 to 70.0	13.0 to 70.0
				(25.0 to 21.0)	(25.0 to 21.0)	(25.0 to 21.0)	(25.0 to 21.0)

Notes:

AHRI Rated Conditions: Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 55 DB, 75 WB
 (Rated data is determined at a fixed compressor speed) Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
 Conditions: Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
 Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

*Indoor unit indoor power from outdoor unit through field supplied non-vented wiring.

*Wind baffles required to operate below 20°F DB in cooling mode. PUZ with wind baffles, 0°F - 115°F.



PKA Model

The compact, wall-mounted indoor units offer the convenience of simple installation, and a large product line-up (A12-A36 models) ensures a best-match solution. Designed for highly efficient energy savings, the PKA Model is the answer to your air conditioning needs.



Flat Panel & Pure White Finish

A flat panel design and pure white color that harmonizes with virtually any interior.



PKA-A HA7



PKA-A KA7

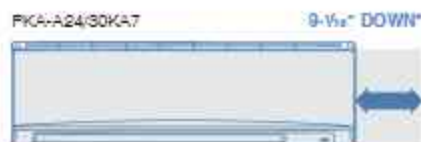


Compact Indoor Units

Indoor unit width has been reduced by as much as 20-1/16" (A36KA7). Units take up much less space, greatly increasing installation possibilities.



*Compared to PKA-A12/18GA



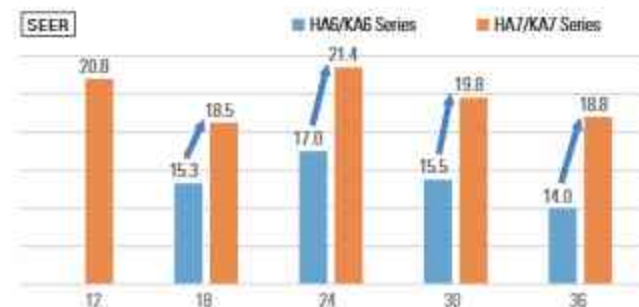
*Compared to PKA-A24/30FA



*Compared to PKA-A36FA

Energy Saving Performance

SEER/HSPF has been greatly improved, realizing industry-leading energy-saving features.



PKA Model



MODEL SELECTION

Indoor Unit

PKA-A12/18HA7



PKA-A24/30/36KA7



Outdoor Unit

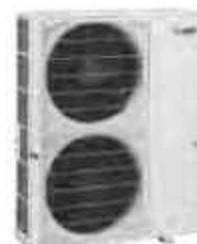
Cooling Only



PUY-A12/18NKA7



PUY-A24/30NHA7



PUY-A36/42NKA7

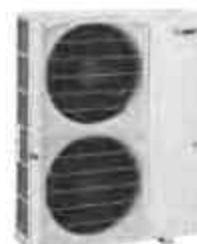
Heat Pump



PUZ-A12/18NKA7



PUZ-A24/30NHA7



PUZ-A36/42NKA7

Hyper-heating



PUZ-HA24NHA



PUZ-HA30/36NHA5

Remote Controller



*optional
AAR-40MAAU



*optional
PAC-YT53CRAU-J



*optional



*optional
PAR-CT01MAU-SB

PKA Model

COOLING ONLY



Indoor Unit				PKA A12HA7	PKA A18HA7	PKA A24HA7	PKA A30KA7	PKA A36KA7
Outdoor Unit				PUV A12NKA7 (BS)	PUV A18NKA7 (BS)	PUV A24NKA7 (BS)	PUV A30NKA7 (BS)	PUV A36NKA7 (BS)
Cooling	Capacity	Rated ¹	B1 U/H	12,000	18,000	24,000	30,000	36,000
	Capacity Range	Min/Max	B1 U/H	5,800 / 12,000	8,500 / 18,000	10,000 / 24,000	12,000 / 30,000	16,000 / 36,000
	Power Input	Rated ¹	W	1,000	1,620	1,960	3,150	3,890
	Moisture Removal	Rated ¹	l/h	2.0	3.2	5.0	8.1	9.7
	Sensible Heat Factor			0.810	0.680	0.770	0.700	0.700
Heating	Capacity at 47°F	Rated	B1 U/H					
	Capacity Range	Min/Max	B1 U/H					
	Power Input at 47°F	Rated	W					
	Capacity at 17°F	Max	B1 U/H					
	Capacity at 5°F	Max	B1 U/H					
Efficiency	SEER			20.8	18.5	21.4	19.8	18.8
	EEER			12.0	9.9	12.2	9.5	10.8
	HSPF							
	ODP							
	ENERGY STAR [®] Certified			No	No	No	No	No
Indoor Unit	Air Flow Rate: Cooling (Quiet Lo Med Hi SH)	Dry	CHM	320 / 370 / 425	320 / 370 / 425	635 / 705 / 775	635 / 705 / 775	705 / 810 / 920
		Wet	CHM	290 / 335 / 380	290 / 335 / 380	570 / 635 / 700	570 / 635 / 700	635 / 730 / 830
	Air Flow Rate: Heating (Quiet Lo Med Hi SH)	Dry	CHM	320 / 370 / 425	320 / 370 / 425	635 / 705 / 775	635 / 705 / 775	705 / 810 / 920
		Wet	CHM	290 / 335 / 380	290 / 335 / 380	570 / 635 / 700	570 / 635 / 700	635 / 730 / 830
	Sound Pressure Level (Quiet Lo Med Hi SH)	Cooling	dB(A)	36 / 40 / 43	36 / 40 / 43	39 / 42 / 45	39 / 42 / 45	43 / 46 / 49
		Heating	dB(A)	36 / 40 / 43	36 / 40 / 43	39 / 42 / 45	39 / 42 / 45	43 / 46 / 49
	External Static Pressure		in. W.G.					
	Condensate Lift Mechanism	Max Distance	in. (mm)					
	Dimensions	H	in. (mm)	11.5/8 (295)	11.5/8 (295)	14.5/8 (365)	14.5/8 (365)	14.5/8 (365)
		W	in. (mm)	35.5/8 (908)	35.5/8 (908)	46.1/16 (1170)	46.1/16 (1170)	46.1/16 (1170)
		D	in. (mm)	9.13/16 (243)	9.13/16 (243)	11.5/8 (295)	11.5/8 (295)	11.5/8 (295)
Outdoor Unit	Weight	lbs (kg)		29 (13)	29 (13)	46 (21)	46 (21)	46 (21)
	MLA	A		11.0	11.0	19.0	19.0	25.0
	MLCP	A		28	28	26	26	31
	Dimensions	H	in. (mm)	24.13/16 (630)	24.13/16 (630)	37.1/8 (943)	37.1/8 (943)	52.11/16 (1338)
		W	in. (mm)	31.13/16 (771) (809) (1125)	31.13/16 (771) (809) (1125)	37.13/32 (950)	37.13/32 (950)	41.5/16 (1050)
		D	in. (mm)	11.3/16 (300)	11.3/16 (300)	13.11/16 (330) (130)	13.11/16 (330) (130)	13.11/16 (330) (130)
	Weight	lbs (kg)		112 (41)	119 (44)	151 (68)	151 (68)	211 (96)
	Air Flow Rate (Cooling/Heating)	CHM		1500/	1500/	1940/	1940/	2880/
		dB(A)		44	44	47	47	52
	Sound Pressure Level	Heating	dB(A)					
Piping	Diameter	Gas (L/D)	in. (mm)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (L/D)	in. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	in. (mm)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)
	Max. Length	ft (m)		100 (30)	100 (30)	225 (68)	225 (68)	225 (68)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor Indoor ²	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	25	25	30
Refrigerant Type				H410A	H410A	H410A	H410A	H410A
Guaranteed Temperature Operation Range	Cooling ³	°F DB (°C DB)		40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)
	Heating	°F DB (°C DB)						

Notes:

AHRI Rated Conditions

(Rated data is determined
at a fixed compressor speed)

¹Indoor units receive power from outdoor units through field supplied interconnecting wiring.

²Wind baffles required to operate below 21°F DB in cooling mode. PUV with wind baffles, 40°F / 115°F. Refer to wind baffle documentation for further information.

SEACREST PROTECTION

• External Outer Panel: Phosphor coating + Acrylic Enamel coating

• Fan Motor Support: Epoxy resin coating (on edge face)

• Sprocket Assembly, Valve Body: Epoxy resin coating (on edge face)

• "Blue Fin" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.

PKA Model

HEAT PUMP



Indoor Unit				PKA A12HA7	PKA A18HA7	PKA A24KA7	PKA A30KA7	PKA A36KA7
Outdoor Unit				PUL A12NKA7 (BS)	PUL A18NKA7 (BS)	PUL A24NKA7 (BS)	PUL A30NKA7 (BS)	PUL A36NKA7 (BS)
Cooling	Capacity	Rated *	BtU/H	12,000	18,000	24,000	30,000	36,000
	Capacity Range	Min/Max	BtU/H	5,800 - 12,000	8,000 - 18,000	10,000 - 24,000	11,000 - 30,000	15,000 - 36,000
	Power Input	Rated *	W	1,000	1,320	1,390	3,150	3,330
	Moisture Removal	Pints/h		2.0	5.2	5.0	8.1	9.7
	Sensible Heat Factor			0.810	0.680	0.770	0.700	0.700
Heating	Capacity at 47°F	Rated *	BtU/H	14,000	19,000	26,000	32,000	38,000
	Capacity Range	Min/Max	BtU/H	5,500 - 18,000	7,700 - 22,000	9,000 - 28,000	8,500 - 34,000	18,200 - 40,000
	Power Input at 47°F	Rated *	W	950	1,200	1,750	2,460	2,480
	Capacity at 17°F	Max	BtU/H	9,200	11,800	15,700	18,800	22,400
	Capacity at 5°F	Max *	BtU/H	11,100	15,900	18,900	21,000	25,900
Efficiency	SEER			20.8	18.5	21.4	19.8	18.8
	EER			12.0	9.9	12.2	9.5	10.8
	HSPF			10.2	10.2	11	9.5	9.2
	COEF			4.81	4.28	4.35	3.81	4.52
	ENERGY STAR® Certified			No	No	No	No	No
Indoor Unit	Air Flow Rate - Cooling (Direct Ln Mod H: 3RH)	Dry	CFM	820 970 425	820 970 425	685 705 775	685 705 775	705 810 920
		Wet	CFM	290 335 380	290 335 380	570 685 700	570 685 700	685 790 880
	Air Flow Rate - Heating (Direct Ln Mod H: 3RH)	Dry	CFM	820 970 425	820 970 425	685 705 775	685 705 775	705 810 920
		Wet	CFM	290 335 380	290 335 380	570 685 700	570 685 700	685 790 880
	Sound Pressure Level (Direct Ln Mod H: 3RH)	Cooling	dB(A)	36 40 48	36 40 43	39 42 45	39 42 45	43 46 49
		Heating	dB(A)	36 40 48	36 40 43	39 42 45	39 42 45	43 46 49
	External Static Pressure		In. W.G.					
	Condensate Lift Mechanism	Max Distance	In. (mm)					
	Dimensions	H	In. (mm)	11 5/8 (295)	11 5/8 (295)	14 3/8 (365)	14 3/8 (365)	14 3/8 (365)
		W	In. (mm)	35 3/8 (908)	35 3/8 (908)	46 1/16 (1170)	46 1/16 (1170)	46 1/16 (1170)
		D	In. (mm)	9 13/16 (249)	9 13/16 (249)	11 5/8 (295)	11 5/8 (295)	11 5/8 (295)
		Weight	Lbs (kg)	29 (13)	29 (13)	46 (21)	46 (21)	46 (21)
Outdoor Unit	MCA	A		11.0	11.0	19.0	19.0	25.0
	MOCF	A		28	28	26	26	31
	Dimensions	H	In. (mm)	24 13/16 (630)	24 13/16 (630)	37 1/8 (948)	37 1/8 (948)	52 11/16 (1338)
		W	In. (mm)	31 13/16 (1716) (809) (1622)	31 13/16 (1716) (809) (1622)	37 13/32 (950)	37 13/32 (950)	41 5/16 (1050)
		D	In. (mm)	11 3/16 (300)	11 3/16 (300)	13 (11 3/16) (330) (180)	13 (11 3/16) (330) (180)	13 (11 3/16) (330) (180)
		Weight	Lbs (kg)	98 (42)	100 (45)	153 (69)	153 (69)	214 (97)
	Air Flow Rate (Cooling/Heating)	CFM		1590/1590	1590/1590	1540/1540	1540/1540	3880/3880
		CFM		1590/1590	1590/1590	1540/1540	1540/1540	3880/3880
	Sound Pressure Level	Cooling	dB(A)	44	44	47	47	52
		Heating	dB(A)	46	46	48	48	53
Piping	Diameter	Gas (L/D)	In. (mm)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (L/D)	In. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)
	Max. Length	ft (m)		100 (30)	100 (30)	165 (50)	165 (50)	165 (50)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor/Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		15	15	25	25	30
Refrigerant type				H410A	H410A	H410A	H410A	H410A
Guaranteed Temperature Operation Range	Cooling **	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		12.0 to 70.0 (11.0 to 21.0)	12.0 to 70.0 (11.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)

Notes:

AHRF Rated Conditions

(Rated data is documented at a fixed compressor speed)

Conditions

*Indoor units receive power from outdoor units through field supplied interconnecting wiring.

**Wind baffles required to operate below 23°F DB in cooling mode. PUL with wind baffles, 0°F - 115°F. Refer to wind baffle documentation for further information.

SEACAST PROTECTION

- External Outer Panel: Phosphate coating + Acrylic Enamel coating

- Fan Motor Support: Epoxy resin coating (on edge face)

- Refrigerator Assembly, Valve Body: Epoxy resin coating (on edge face)

- "Blue Fin" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.

PKA Model

HYPER-HEATING



Indoor Unit				PKA A24KAT	PKA A30KAT	PKA A36KAT
Outdoor Unit				PUL H424NHA	PUL H430NHA5	PUL H436NHA5
Cooling	Capacity	Rated *	B1UH	24,000	30,000	36,000
	Capacity Range	Min/Max	B1UH	10,000-24,000	18,000-30,000	18,000-36,000
	Power Input	Rated *	W	1,300	2,500	2,750
	Moisture Removal	Rated *		5.0	8.1	8.7
	Sensible Heat Factor			0.770	0.700	0.710
Heating	Capacity at 47°F	Rated *	B1UH	26,000	32,000	38,000
	Capacity Range	Min/Max	B1UH	10,000-26,000	18,000-32,000	18,000-40,000
	Power Input at 47°F	Rated *	W	1,920	2,880	3,410
	Capacity at 17°F	Rated *	B1UH	17,200	19,000	25,000
	Capacity at 5°F	Max *	B1UH	26,000	32,000	38,000
Efficiency	SEER			13.5	13.5	13.2
	HSPF			12.6	12.0	12.0
	HSPF			11.2	9.5	10
	ODP			3.8	3.2	3.26
	ENERGY STAR® Certified			Yes	No	No
Indoor Unit	Air Flow Rate - Cooling (Quiet/Lo Med/Hi SH)	Dry/Wet	CFM	635/705/775	635/705/775	705/810/920
	Air Flow Rate - Heating (Quiet/Lo Med/Hi SH)	Dry	CFM	635/705/775	635/705/775	705/810/920
	Sound Pressure Level (Quiet/Lo Med/Hi SH)	Cooling/Heating	dB(A)	39/42/45	39/42/45	43/46/49
	External Static Pressure		In. W.G.			
	Condensate Lift Mechanism	Max Distance	In. (mm)			
	Dimensions	H/W/D	In. (mm)	14 3/8 (365)/46 1/16 (1170)/11 5/8 (295)	14 3/8 (365)/46 1/16 (1170)/11 5/8 (295)	14 3/8 (365)/46 1/16 (1170)/11 5/8 (295)
	Weight		Lbs (kg)	46 (21)	46 (21)	46 (21)
	MLA			19.0	28.0	28.0
	MURP			26	40	40
	Dimensions	H/W/D	In. (mm)	37 1/8 (948)/37 13/32 (950)/19 1/16 (488)	37 1/8 (948)/37 13/32 (950)/19 1/16 (488)	37 1/8 (948)/37 13/32 (950)/19 1/16 (488)
Outdoor Unit	Weight		Lbs (kg)	85 (38)	265 (120)	265 (120)
	Air Flow Rate (Cooling/Heating)		CFM	1940/1940	3030/3030	3030/3030
	Sound Pressure Level	Cooling/Heating	dB(A)	52/53	52/53	52/53
	Dimensions	L/D	In. (mm)	5/8 (15.88)/3/8 (9.52)	5/8 (15.88)/3/8 (9.52)	5/8 (15.88)/3/8 (9.52)
	Max. Length		ft (m)	165 (50)	245 (75)	245 (75)
Piping	Max. Height		ft (m)	100 (30)	100 (30)	100 (30)
	Outdoor Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		25	30	30
Refrigerant Type				R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		18.0 to 70.0 (25.0 to 21.0)	18.0 to 70.0 (25.0 to 21.0)	18.0 to 70.0 (25.0 to 21.0)

Notes:
 AHRI Rated Conditions: *Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
 (Rated data is determined at a fixed compressor speed) *Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
 Conditions: *Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
 *Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB
 *Indoor unit indoor power from outdoor unit through field supplied non-vented wiring.
 *Wind baffles required to operate below 20°F DB in cooling mode. PUL with wind baffles, 0°F - 115°F F.



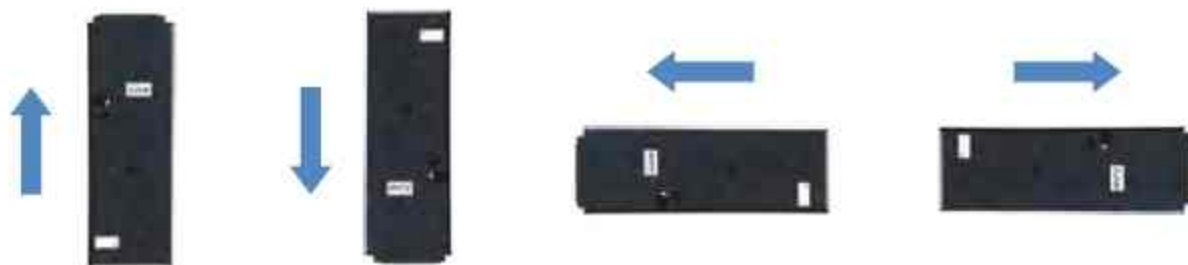
PVA Model

The PVA air handler is truly multi-positional offering up, down, left or right airflow, making it ideal for tight and unique spaces.



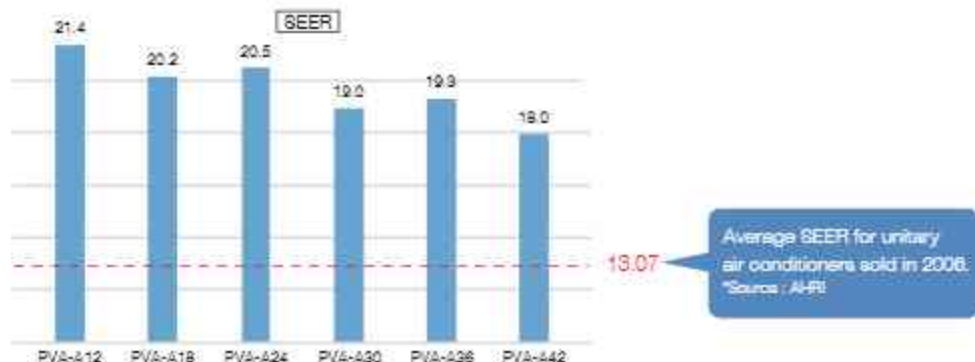
Flexibility

The PVA air handler is truly multi-positional* offering up, down, left or right airflow, making it ideal for tight and unique spaces.



High Energy Efficiency

The PVA Model has high SEER, and is highly energy efficient compared to outdated unitary air conditioners.



Interlocking Function

The PVA Model has an output terminal which allows it to interlock with other appliances such as humidifiers and dehumidifiers.

Thermostat Control

Using the Thermostat Interface (PAC-US444CN-1), the user can replace their unitary air conditioner without changing the thermostat.

Durability

The cabinet is made of galvanized metal with a black ZAM (zinc, aluminum, magnesium) hot dip coated steel finish. The internal fan, coil, piping and circuitry are engineered and designed to work in harmony to provide years of reliable operation.



*CMA accessory recommended for downflow applications.

Power Inverter Model



MODEL SELECTION

Indoor Unit



PVA-A12/18/24/30/36/42AA7

Outdoor Unit

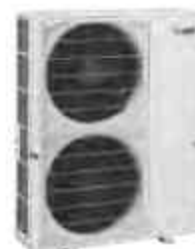
Cooling Only



PUY-A12/18NKA7



PUY-A24/30NHA7



PUY-A36/42NKA7

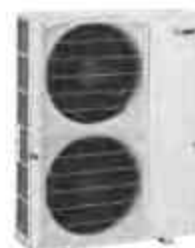
Heat Pump



PUZ-A12/18NKA7



PUZ-A24/30NHA7



PUZ-A36/42NKA7

Hyper-heating



PUZ-HA24NHA



PUZ-HA30/36NHA5



PUZ-HA42NKA

Remote Controller



*optional
AAR-40MAAU



*optional
PAC-YT52CRA



*optional
PAR-CT01MAU-SB

PVA Model

COOLING ONLY



Indoor Unit				PVA A12AA7	PVA A18AA7	PVA A24AA7	PVA A30AA7	PVA A36AA7	PVA A42AA7
Outdoor Unit				PVU A12NKA7 (B5)	PVU A18NKA7 (B5)	PVU A24NKA7 (B5)	PVU A30NKA7 (B5)	PVU A36NKA7 (B5)	PVU A42NKA7 (B5)
Cooling	Capacity	Rated ¹	B1UH	12,000	18,000	24,000	30,000	36,000	42,000
	Capacity Range	Min-Max	B1UH	4,800-12,000	7,000-18,000	10,000-24,000	10,000-30,000	14,000-36,000	15,000-42,000
	Power Input	Rated ¹	W	890	1,570	1,960	3,000	3,250	4,150
	Moisture Removal	Rated ¹	l/h	1.2	2.4	3.0	5.4	4.5	7.9
	Sensible Heat Factor			0.770	0.760	0.830	0.740	0.770	0.840
Heating	Capacity at 47°F	Rated	B1UH						
	Capacity Range	Min-Max	B1UH						
	Power Input at 47°F	Rated	W						
	Capacity at 17°F	Rated	B1UH						
	Capacity at 5°F	Max	B1UH						
Efficiency	SEER			21.4	20.2	20.5	19.0	19.3	18.0
	EEER			13.4	11.4	12.2	10.0	9.8	10.1
	HSPF								
	COP								
	ENERGY STAR [®] Certified			Yes	No	No	No	No	No
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Mod Hi SH)	Dry	C-M	280 340 400	515 625 735	613 744 875	613 744 875	788 926 1125	1040 1262 1485
		Wet	C-M						
	Air Flow Rate - Heating (Quiet Lo Mod Hi SH)	Dry	C-M	280 340 400	515 625 735	613 744 875	613 744 875	788 926 1125	1040 1262 1485
		Wet	C-M						
	Sound Pressure Level (Quiet Lo Mod Hi SH)	Cooling	dB(A)	24 28 32	28 33 36	30 34 38	30 34 38	30 34 38	34 38 42
		Heating	dB(A)	24 28 32	28 33 36	30 34 38	30 34 38	30 34 38	34 38 42
	External Static Pressure	In. W.G.		0.5 0.5 0.8	0.5 0.5 0.8	0.5 0.5 0.8	0.5 0.5 0.8	0.5 0.5 0.8	0.5 0.5 0.8
	Condensate Lift Mechanism	Max Distance	In. (mm)						
	Dimensions	H	In. (mm)	50 1/4 (1275)	50 1/4 (1275)	54 1/4 (1378)	54 1/4 (1378)	58 1/2 (1511)	58 1/2 (1511)
		W	In. (mm)	17 (432)	17 (432)	21 (534)	21 (534)	25 (635)	25 (635)
		D	In. (mm)	21 5/8 (548)	21 5/8 (548)	21 5/8 (548)	21 5/8 (548)	21 5/8 (548)	21 5/8 (548)
Outdoor Unit	Weight	lbs (kg)		113 (51.2)	113 (51.2)	141 (64)	141 (64)	172 (78)	172 (78)
	MLA	A		11.0	11.0	19.0	19.0	25.0	25.0
	MOCP	A		28	28	25	25	31	31
	Dimensions	H	In. (mm)	24 13/16 (630)	24 13/16 (630)	37 1/8 (943)	37 1/8 (943)	52 11/16 (1338)	52 11/16 (1338)
		W	In. (mm)	31 13/16 (811)	31 13/16 (811)	37 13/32 (950)	37 13/32 (950)	41 5/16 (1050)	41 5/16 (1050)
		D	In. (mm)	11 3/16 (300)	11 3/16 (300)	13 1/2 (341)	13 1/2 (341)	13 1/2 (341)	13 1/2 (341)
	Weight	lbs (kg)		92 (41)	93 (44)	151 (68)	151 (68)	211 (96)	211 (96)
	Air Flow Rate (Cooling/Heating)	C-M		1200/	1200/	1240/	1240/	1680/	1680/
	Sound Pressure Level	Cooling	dB(A)	44	44	47	47	52	52
		Heating	dB(A)						
Piping	Diameter	Gas (G.D.)	In. (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)
		Liquid (L.D.)	In. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	3/4 HP (19.05)	3/4 HP (19.05)	3/4 HP (19.05)	3/4 HP (19.05)	3/4 HP (19.05)	3/4 HP (19.05)
	Max. Length	ft (m)		165 (50)	165 (50)	225 (68)	225 (68)	225 (68)	225 (68)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor Indoor ²	V, Ph, 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
	Recommended Breaker Size	A		15	15	25	25	30	30
Refrigerant Type				R410A	R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range				Cooling ³	Heating ³	Cooling ³	Heating ³	Cooling ³	Heating ³
				°F DB (°C DB)	°F DB (°C DB)	°F DB (°C DB)	°F DB (°C DB)	°F DB (°C DB)	°F DB (°C DB)
				40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)

Notes:

AHR[®] Rated Conditions:

(Rated data is determined at a fixed compressor speed)

¹Indoor units receive power from outdoor units through field supplied interconnect wiring.

²Wind baffles required to operate below 23°F DB in cooling mode. PUV with wind baffle. 40°F - 115°F. Refer to wind baffle documentation for further information.

REAR-PORT PROTECTION

• External Duct Panel, Polypropylene coating + Acrylic Enamel coating

• For Mounting Support, Epoxy resin coating (on edge face)

• Separator Assembly, Valve Box, Epoxy resin coating (on edge face)

• "Blue Fin" treatment is an anti corrosion treatment that is applied to the condenser coil to protect against airborne contaminants.

PVA Model

HEAT PUMP



Indoor Unit				PVA A12AA7	PVA A18AA7	PVA A24AA7	PVA A30AA7	PVA A36AA7	PVA A42AA7
Outdoor Unit				PUZ A12NKA7 (B5)	PUZ A18NKA7 (B5)	PUZ A24NKA7 (B5)	PUZ A30NKA7 (B5)	PUZ A36NKA7 (B5)	PUZ A42NKA7 (B5)
Cooling	Capacity	Rated *	BtU/H	12,000	18,000	24,000	30,000	36,000	42,000
	Capacity Range	Min/Max	BtU/H	4,800 - 12,000	7,000 - 18,000	10,000 - 24,000	10,000 - 30,000	14,000 - 36,000	15,000 - 42,000
	Power Input	Rated *	W	890	1,570	1,360	8,000	8,250	4,150
	Moisture Removal	Pint/h		1.2	2.4	3.0	5.4	4.5	7.0
	Sensible Heat Factor			0.770	0.760	0.890	0.740	0.770	0.810
Heating	Capacity at 47°F	Rated *	BtU/H	14,000	19,000	26,000	32,000	38,000	46,000
	Capacity Range	Min/Max	BtU/H	5,700 - 19,000	7,700 - 25,000	12,000 - 28,000	12,000 - 34,000	17,700 - 42,000	18,100 - 48,000
	Power Input at 47°F	Rated *	W	1,070	1,470	1,020	2,640	3,090	3,000
	Capacity at 17°F	Rated *	BtU/H	9,900	12,000	15,000	18,000	24,000	28,400
	Capacity at 5°F	Max *	BtU/H	12,000	14,700	17,500	20,700	27,800	31,400
Efficiency	SEER			21.4	20.2	20.5	19.0	19.3	18.0
	EER			13.4	11.4	12.2	10.0	9.8	10.1
	HSPF			10.3	10.4	9.5	10	9.5	9.3
	UEP			3.82	3.78	3.96	3.54	3.66	3.44
	ENERGY STAR® Certified			Yes	No	No	No	No	No
Indoor Unit	Air Flow Rate - Cooling (Quiet Ln Mod H 35)	Dry	CFM	280/340/400	515/625/735	613/744/875	613/744/875	788/956/1125	1040/1262/1485
		Wet	CFM						
	Air Flow Rate - Heating (Quiet Ln Mod H 35)	Dry	CFM	280/340/400	515/625/735	613/744/875	613/744/875	788/956/1125	1040/1262/1485
	Sound Pressure Level (Quiet Ln Mod H 35)	Cooling	dB(A)	24/28/32	28/33/36	30/34/38	30/34/38	30/34/38	34/38/42
		Heating	dB(A)	24/28/32	28/33/36	30/34/38	30/34/38	30/34/38	34/38/42
	External Static Pressure		In. W.G.	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8	0.3/0.5/0.8
	Condensate Lift Mechanism		Max Distance	In. (mm)					
	Dimensions	H	In. (mm)	50/14 (1275)	50/14 (1275)	54/14 (1378)	54/14 (1378)	59/12 (1511)	59/12 (1511)
		W	In. (mm)	17/432	17/432	21/534	21/534	25/635	25/635
		D	In. (mm)	21/58 (548)	21/58 (548)	21/58 (548)	21/58 (548)	21/58 (548)	21/58 (548)
Outdoor Unit	Weight		Lbs (kg)	113 (51.2)	113 (51.2)	141 (64)	141 (64)	172 (78)	172 (78)
	MCA		A	11.0	11.0	19.0	19.0	25.0	25.0
	MOCF		A	28	28	26	26	31	31
	Dimensions	H	In. (mm)	24/13/16 (630)	24/13/16 (630)	37/18 (943)	37/18 (943)	52/11/16 (1338)	52/11/16 (1338)
		W	In. (mm)	31/15/16 (771)	31/15/16 (771)	37/13/16 (950)	37/13/16 (950)	41/5/16 (1050)	41/5/16 (1050)
		D	In. (mm)	11/8/16 (300)	11/8/16 (300)	13/11/8/16 (330)	13/11/8/16 (330)	13/11/8/16 (330)	13/11/8/16 (330)
	Weight		Lbs (kg)	55 (25)	100 (45)	153 (69)	153 (69)	214 (97)	214 (97)
	Air Flow Rate (Cooling/Heating)		CFM	1590/1590	1590/1590	1940/1940	1940/1940	3880/3880	3880/3880
	Sound Pressure Level	Cooling	dB(A)	44	44	47	47	52	52
		Heating	dB(A)	46	46	48	48	53	53
Piping	Diameter	Gas (L/D)	In. (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)
		Liquid (L/D)	In. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	3/4 HP1 (19.05)	3/4 HP1 (19.05)	3/4 HP1 (19.05)	3/4 HP1 (19.05)	3/4 HP1 (19.05)	3/4 HP1 (19.05)
	Max. Length		ft (m)	100 (30)	100 (30)	165 (50)	165 (50)	165 (50)	165 (50)
	Max. Height		ft (m)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor/Indoor *		V, ph, 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
	Recommended Breaker Size		A	15	15	25	25	30	30
Refrigerant Type				R410A	R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		12.0 to 70.0 (11.0 to 21.0)	12.0 to 70.0 (11.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)

Notes

AHRI Rated Conditions

*Based data is determined at a fixed compressor speed

Conditions

*Indoor units receive power from outdoor units through field supplied interconnecting wiring.

*Wind baffles required to operate below 23°F DB in cooling mode. PUZ with wind baffle, 0° F - 115° F. Refer to wind baffle documentation for further information.

REAR-PORT PROTECTION

- External Outer Panel: Phosphate coating + Acrylic Enamel coating

- Fin Motor Support: Epoxy resin coating (to edge face)

- Refrigerant Assembly, Valve Body: Epoxy resin coating (to edge face)

- "Blue Fin" inspection is an anti-corrosion requirement that is applied to the condenser coil to protect it against airborne contaminants.

HYPER-HEATING



Indoor Unit				PWA A24/A7	PWA A30/A7	PWA A36/A7	PWA A42/A7
Outdoor Unit				PLZ H/24NH/A	PLZ H/30NH/A	PLZ H/36NH/A	PLZ H/42NH/A
Cooling	Capacity	Rated *	B1 U/H	24,000	28,400	33,000	42,000
	Capacity Range	Min-Max	B1 U/H	10,000-24,000	18,000	18,000	18,000
	Power Input	Rated *	W	2,100	2,280	2,640	4,270
	Moisture Removal	Pint/h		5.7	8.0	7.3	9.0
	Sensible Heat Factor			0.890	0.700	0.740	0.760
Heating	Capacity at 47°F	Rated *	B1 U/H	26,000	32,000	38,000	48,000
	Capacity Range	Min-Max	B1 U/H	10,000-26,000	18,000-34,000	18,000-40,000	18,000-54,000
	Power Input at 47°F	Rated *	W	1,980	2,500	3,040	4,010
	Capacity at 17°F	Rated *	B1 U/H	17,500	22,000	29,000	42,400
		Max	B1 U/H	26,000	32,000	38,000	48,000
	Capacity at 5°F	Max *	B1 U/H	26,000	32,000	38,000	48,000
Efficiency	SEER			13.0	17.0	17.8	15.9
	EER			11.5	12.0	12.5	9.8
	HSPF			11	9.7	11	11
	COP			3.7	3.62	3.66	3.14
	ENERGY STAR® Certified			No	Yes	Yes	No
Indoor Unit	Air Flow Rate: Cooling (Quiet Lo-Med-Hi SH)	Dry	CFM	613/744/875	613/744/875	788/956/1125	1040/1262/1485
		Wet	CFM				
	Air Flow Rate: Heating (Quiet Lo-Med-Hi SH)	Dry	CFM	613/744/875	613/744/875	788/956/1125	1040/1262/1485
		Cooling	dB(A)	30/34/38	30/34/38	30/34/38	34/38/42
	Sound Pressure Level (Quiet Lo-Med-Hi SH)	Heating	dB(A)	30/34/38	30/34/38	30/34/38	34/38/42
		External Static Pressure	in. W.G.	0.3-0.5-0.8	0.3-0.5-0.8	0.3-0.5-0.8	0.3-0.5-0.8
	Condensate Lift Mechanism	Max. Distance	in. (mm)				
	Dimensions	H	in. (mm)	54.1/41 (1378)	54.1/41 (1378)	55.1/2 (1511)	59.1/2 (1511)
		W	in. (mm)	21 (534)	21 (534)	25 (635)	25 (635)
D		in. (mm)	21.5/8 (548)	21.5/8 (548)	21.5/8 (548)	21.5/8 (548)	
Weight	lbs (kg)		141 (64)	141 (64)	172 (78)	172 (78)	
Outdoor Unit	MLA	Λ		19.0	28.0	28.0	37.0
	MOXF	Λ		26	40	40	44
	Dimensions	H	in. (mm)	57.1/8 (548)	58.1/8 (1375)	58.1/8 (1375)	52.11/16 (1336)
		W	in. (mm)	37.13/32 (950)	37.3/8 (950)	37.3/8 (950)	41.3/8 (1051)
		D	in. (mm)	18.11/8/11/2 (380) (180)	18.11/8/11/2 (380) (180)	18.11/8/11/2 (380) (180)	18.11/8/11/2 (380) (180)
	Weight	lbs (kg)		85 (188)	265 (120)	265 (120)	287 (130)
	Air Flow Rate (Cooling/Heating)	CFM		1940/1940	3030/3030	3030/3030	3320/3320
	Sound Pressure Level	Cooling	dB(A)	52	52	52	49
		Heating	dB(A)	53	53	53	51
Piping	Diameter	Gas (U.O.)	in. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (U.O.)	in. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	in. (mm)	3/4 F-P (19.05)	3/4 F-P (19.05)	3/4 F-P (19.05)	3/4 F-P (19.05)
	Max. Length	ft (m)		165 (50)	245 (75)	245 (75)	245 (75)
Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)	
Electrical	Outdoor Indoor*	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommend Breaker Size	Λ		25	30	30	40
Refrigerant type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		18.0 to 70.0 (25.0 to 21.0)	18.0 to 70.0 (25.0 to 21.0)	18.0 to 70.0 (25.0 to 21.0)	18.0 to 70.0 (25.0 to 21.0)

*Wind baffles required to operate below 20°F DB in cooling mode. PUZ with wind baffles, 0° F - 115° F



PEAD Model

The thin, ceiling-concealed indoor units of this model are the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, reducing electricity consumption and contributing to a further reduction in operating cost.



Compact Indoor Units

The height is only 9-7/8" for all sizes of this model from 12 to 42 kBTU/H. This makes it possible for the unit to be installed in low ceilings with minimal clearance space.



External Static Pressure

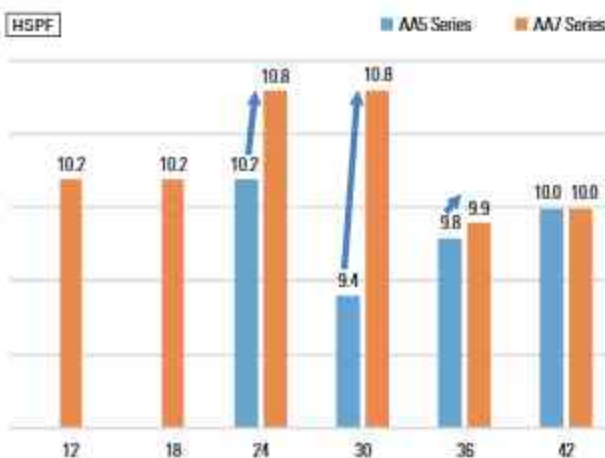
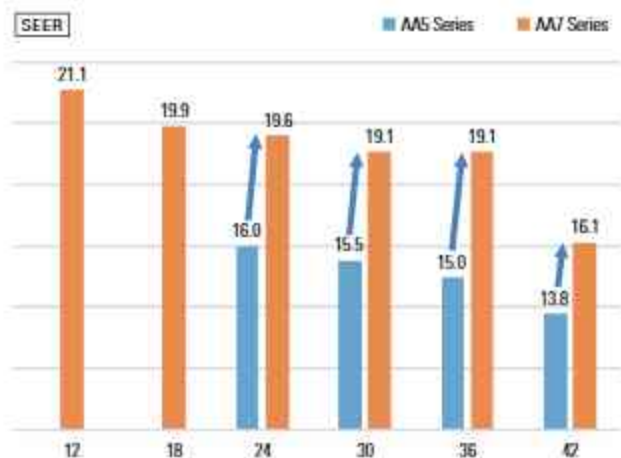
External static pressure conversion can be set up to five settings. Capable of being set to a maximum of 0.60 In.W.G., units are applicable to a wide range of building types.

■ External static pressure

Model	12	18	24	30	36	42
PEAD-A AA	0.14-0.20-0.28-0.40-0.60 In. W.G.					

High Energy Efficiency

SEER/HSPF has been greatly improved, and 12,000/16,000 BTU/H models have been added to the line-up.



Built-in Drain Lift Mechanism

All models feature a built-in drain lift mechanism for removal of condensate. The unit's fail-safe mechanism recognizes when there is a high liquid level in the condensate pan and turns off the indoor fan and the outdoor unit compressor to prevent overflow.

PEAD Model



SERIES SELECTION

Indoor Unit

PEAD-A12/18/24/30/36/42AA7



Outdoor Unit

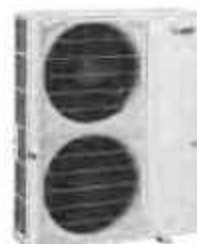
Cooling Only



PUY-A12/18NKA7



PUY-A24/30NHA7



PUY-A36/42NKA7

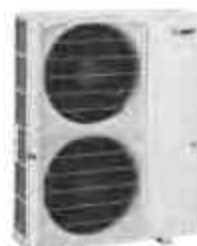
Heat Pump



PUZ-A12/18NKA7



PUZ-A24/30NHA7



PUZ-A36/42NKA7

Hyper-heating



PUZ-HA24NHA



PUZ-HA30/36NHA5



PUZ-HA42NKA

Remote Controller



*optional
AAR-40MAAU



*optional
PAC-YT02CRA



*optional
PAR-CT01MAU-SB



*optional

PEAD Model

COOLING ONLY



Indoor Unit				PEAD A12AA7	PEAD A18AA7	PEAD A24AA7	PEAD A30AA7	PEAD A36AA7	PEAD A42AA7
Outdoor Unit				PUY A12NKA7 (B5)	PUY A18NKA7 (B5)	PUY A24NKA7 (B5)	PUY A30NKA7 (B5)	PUY A36NKA7 (B5)	PUY A42NKA7 (B5)
Cooling	Capacity	Rated ¹	B1U/H	12,000	18,000	24,000	30,000	36,000	42,000
	Capacity Range	Min/Max	B1U/H	5,000/12,000	8,000/18,000	10,000/24,000	15,000/30,000	16,000/36,000	16,000/42,000
	Power Input	Rated ¹	W	920	1,390	2,070	3,000	3,000	3,520
	Moisture Removal	Pinch		1.8	3.7	5.0	8.6	8.1	9.0
	Sensible Heat Factor			0.890	0.770	0.680	0.580	0.750	0.760
Heating	Capacity at 47°F	Rated	B1U/H						
	Capacity Range	Min/Max	B1U/H						
	Power Input at 47°F	Rated	W						
	Capacity at 17°F	Max	B1U/H						
	Capacity at 5°F	Max	B1U/H						
Efficiency	SEER			21.1	19.9	19.6	19.1	19.1	18.1
	EER			13.0	12.8	11.7	10.0	12.0	10.7
	HSPF								
	COP								
	ENERGY STAR [®] Certified			Yes	No	No	No	No	No
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Mod Hi SH)	Dry	CFM	333/424/494	424/512/600	512/636/742	618/742/883	847/1024/1201	1042/1254/1483
		Wet	CFM	818/882/445	882/461/540	461/572/637	556/668/795	762/922/1081	1002/1214/1443
	Air Flow Rate - Heating (Quiet Lo Mod Hi SH)	Dry	CFM	333/424/494	424/512/600	512/636/742	618/742/883	847/1024/1201	1042/1254/1483
		Wet	CFM	818/882/445	882/461/540	461/572/637	556/668/795	762/922/1081	1002/1214/1443
	Sound Pressure Level (Quiet Lo Mod Hi SH)	Cooling	dB(A)	28/30/34	30/33/37	30/33/37	30/34/39	33/38/42	36/40/44
		Heating	dB(A)	28/30/34	30/33/37	30/33/37	30/34/39	33/38/42	36/40/44
	External Static Pressure		In. W.G.	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6
	Condensate Lift Mechanism	Max Distance	In. (mm)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)
		H	In. (mm)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)
	Dimensions	W	In. (mm)	33/18/16 (839)	33/18/16 (839)	43/18/16 (1100)	43/18/16 (1100)	55/18/14 (1400)	55/18/14 (1400)
		U	In. (mm)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)
Outdoor Unit	Weight		Lbs (kg)	58 (26)	62 (28)	69 (31)	69 (31)	86 (39)	91 (41)
	MCA		A	11.0	11.0	13.0	13.0	25.0	25.0
	MOCP		A	28	28	26	26	31	31
	Dimensions	H	In. (mm)	24/13/16 (630)	24/13/16 (630)	37/18/24 (943)	37/18/24 (943)	52/11/16 (1338)	52/11/16 (1338)
		W	In. (mm)	31/18/16 (771)	31/18/16 (771)	37/18/24 (943)	37/18/24 (943)	41/16/16 (1050)	41/16/16 (1050)
		U	In. (mm)	11/8/16 (300)	11/8/16 (300)	13/11/8/16 (330)	13/11/8/16 (330)	13/11/8/16 (330)	13/11/8/16 (330)
	Weight		Lbs (kg)	52 (41)	50 (44)	151 (68)	151 (68)	211 (96)	211 (96)
	Air Flow Rate (Cooling/Heating)	CFM		1590/	1590/	1540/	1540/	3880/	3880/
		Cooling	dB(A)	44	44	47	47	52	52
	Sound Pressure Level	Heating	dB(A)						
Piping	Diameter	Gas (L.U.)	In. (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)
		Liquid (L.U.)	In. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	1/4 (32)	1/4 (32)	1/4 (32)	1/4 (32)	1/4 (32)	1/4 (32)
	Max. Length		ft (m)	165 (50)	165 (50)	225 (68)	225 (68)	225 (68)	225 (68)
	Max. Height		ft (m)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor Indoor ²		V, ph, 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
	Recommended Breaker Size		A	15	15	25	25	30	30
Refrigerant Type				R410A	R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling ³	→ DB (°C DB)		40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)
	Heating	→ DB (°C DB)							

Notes:
 ARII Round Conditions
 (Round data is determined at a fixed compressor speed)
¹Indoor unit receives power from outdoor unit through field supplied recommended wiring.
²Wind baffles required to operate below 25°F DB in cooling mode. PUY with wind baffle, 40°F - 115°F. Refer to wind baffle documentation for further information.
REARCAST PROTECTION
 • Exterior Outer Panel: Photovoltaic coating + Acrylic Enamel coating
 • Fan Motor Support: Epoxy resin coating (at edge face)
 • Refrigerant Assembly, Valve Box: Epoxy resin coating (at edge face)
 • "Blue Fin" insulation is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.

PEAD Model

HEAT PUMP



Indoor Unit				PEAD A12AA7	PEAD A18AA7	PEAD A24AA7	PEAD A30AA7	PEAD A36AA7	PEAD A42AA7
Outdoor Unit				PUZ A12NKA7 (B5)	PUZ A18NKA7 (B5)	PUZ A24NKA7 (B5)	PUZ A30NKA7 (B5)	PUZ A36NKA7 (B5)	PUZ A42NKA7 (B5)
Cooling	Capacity	Rated †	BtU/H	12,000	18,000	24,000	30,000	36,000	42,000
	Capacity Range	Min/Max	BtU/H	5,000/12,000	8,000/18,000	10,000/24,000	11,000/30,000	16,000/36,000	16,000/42,000
	Power Input	Rated †	W	320	1,660	2,050	3,000	3,000	3,920
	Moisture Removal	Pint/h		1.8	3.7	6.9	8.6	8.1	9.0
	Scrubable Heat Exchanger			0.890	0.770	0.680	0.680	0.750	0.700
Heating	Capacity at 47°F	Rated †	BtU/H	14,000	19,000	26,000	32,000	38,000	45,000
	Capacity Range	Min/Max	BtU/H	5,800/18,000	7,000/22,000	9,000/28,000	8,800/34,000	18,200/40,000	18,100/48,000
	Power Input at 47°F	Rated †	W	1,090	1,400	1,750	2,400	2,410	3,290
	Capacity at 17°F	Rated †	BtU/H	8,700	11,000	14,800	18,500	20,800	30,600
	Capacity at 5°F	Max †	BtU/H	10,500	18,500	17,200	21,200	24,200	33,700
Efficiency	SEER			21.1	19.9	19.6	19.1	19.1	16.1
	EEER			13.0	10.8	11.7	10.0	12.0	10.7
	HSPF			10.2	10.2	10.8	10.8	9.5	9.0
	LODP			3.98	3.97	4.35	3.70	4.62	4.0
	ENERGY STAR® Certified			Yes	No	No	No	No	No
Indoor Unit	Air Flow Rate - Cooling (Quiet Lr Mod H 35H)	Dry	CFM	358/424/494	424/512/600	512/636/742	618/742/888	847/1024/1201	1042/1254/1483
		Wet	CFM	318/382/445	382/461/540	461/572/667	550/668/795	702/922/1081	1002/1214/1448
	Air Flow Rate - Heating (Quiet Lr Mod H 35H)	Dry	CFM	358/424/494	424/512/600	512/636/742	618/742/888	847/1024/1201	1042/1254/1483
		Wet	CFM	318/382/445	382/461/540	461/572/667	550/668/795	702/922/1081	1002/1214/1448
	Sound Pressure Level (Quiet Lr Mod H 35H)	Cooling	dB(A)	28/30/34	30/33/37	30/33/37	30/34/39	33/38/42	36/40/44
		Heating	dB(A)	28/30/34	30/33/37	30/33/37	30/34/39	33/38/42	36/40/44
	External Static Pressure		In. W.G.	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6	0.14/0.2/0.28 0.4/0.6
	Condensate Lift Mechanism	Max Distance	In. (mm)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)
		H	In. (mm)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)
	Dimensions	W	In. (mm)	35/7/16 (900)	35/7/16 (900)	43/5/16 (1100)	43/5/16 (1100)	55/1/8 (1400)	55/1/8 (1400)
		D	In. (mm)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)
Weight	lbs (kg)		38 (30)	62 (28)	60 (31)	60 (31)	86 (39)	91 (41)	
Outdoor Unit	MCA	A		11.0	11.0	11.0	11.0	25.0	25.0
	MOCF	A		28	28	26	26	31	31
	Dimensions	H	In. (mm)	24 (3/16) (630)	24 (3/16) (630)	37 (1/8) (943)	37 (1/8) (943)	52 (1/16) (1338)	52 (1/16) (1338)
		W	In. (mm)	31 (18/16) (771) 809 (162)	31 (18/16) (771) 809 (162)	37 (13/32) (950)	37 (13/32) (950)	41 (5/16) (1050)	41 (5/16) (1050)
		D	In. (mm)	11 (3/16) (300)	11 (3/16) (300)	13 (11/32) (330) (130)	13 (11/32) (330) (130)	13 (11/32) (330) (130)	13 (11/32) (330) (130)
	Weight	lbs (kg)		55 (25)	100 (45)	153 (69)	153 (69)	214 (97)	214 (97)
	Air Flow Rate (Cooling/Heating)		CFM	1500/1500	1500/1500	1940/1940	1940/1940	3880/3880	3880/3880
	Sound Pressure Level	Cooling	dB(A)	44	44	47	47	52	52
		Heating	dB(A)	46	46	48	48	53	53
	Piping	Diameter	Gas (L.D.)	In. (mm)	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Liquid (L.D.)			In. (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Indoor Drain			In. (mm)	1/4 (32)	1/4 (32)	1/4 (32)	1/4 (32)	1/4 (32)	1/4 (32)
Max. Length		ft (m)	100 (30)	100 (30)	165 (50)	165 (50)	165 (50)	165 (50)	
Max. Height		ft (m)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)	
Electrical	Outdoor/Indoor †		V, ph, 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
	Recommended Breaker Size		A	15	15	25	25	30	30
Refrigerant type				R410A	R410A	R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling †	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		12.0 to 70.0 (11.0 to 21.0)	12.0 to 70.0 (11.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)

Notes:

AHRI Rated Conditions

(Based data is determined at 4 fixed compressor speeds)

Condenser

†Indoor units receive power from outdoor units through field supplied interconnect wiring.

*Wind baffles required to operate below 25°F DB in cooling mode. PUZ with wind baffles, 0" F, 115" F. Refer to wind baffle documentation for further information.

SEACOAST PROTECTION

• External Outer Panel: Phosphor coating + Acrylic Enamel coating

• Fan Motor Support: Epoxy resin coating (on edge face)

• Refrigerant Assembly, Valve Body: Epoxy resin coating (on edge face)

• "Blue Fin" treatment is an anti corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.

PEAD Model

HYPER-HEATING



Indoor Unit				PEAD A24/M7	PEAD A33/M7	PEAD A36/M7	PEAD A42/M7
Outdoor Unit				PUZ H424NH4	PUZ H430NH4S	PUZ H436NH4S	PUZ H442NH4
Cooling	Capacity	Rated *	BtU/H	24,000	27,000	33,000	42,000
	Capacity Range	Min/Max	BtU/H	10,000-24,000	18,000	18,000	15,000
	Power Input	Rated *	W	2,080	2,160	2,540	4,200
	Moisture Removal	Pint/h		5.0	8.9	7.3	9.0
	Sensible Heat Factor			0.680	0.670	0.760	0.760
Heating	Capacity at 47°F	Rated *	BtU/H	25,000	32,000	38,000	48,000
	Capacity Range	Min/Max	BtU/H	10,000-28,000	18,000-34,000	18,000-40,000	21,000-54,000
	Power Input at 47°F	Rated *	W	1,920	2,750	3,150	5,800
	Capacity at 17°F	Rated *	BtU/H	18,000	19,000	27,000	43,000
	Capacity at 5°F	Max *	BtU/H	25,000	32,000	38,000	48,000
Efficiency	SEER			10.5	10.5	10.8	14.3
	HSPF			11.5	12.0	12.5	10.0
	HSPF			11	9.5	10.4	10.8
	ODP			0.5	0.4	0.52 *	0.7
	ENERGY STAR Certified			No	Yes	Yes	No
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Med Hi SH)	Dry	CFM	512/636/742	618/742/888	847/1024/1201	1042/1254/1488
		Wet	CFM	461/572/667	556/688/795	762/922/1081	1002/1214/1448
	Air Flow Rate - Heating (Quiet Lo Med Hi SH)	Dry	CFM	512/636/742	618/742/888	847/1024/1201	1042/1254/1488
		Wet	CFM	461/572/667	556/688/795	762/922/1081	1002/1214/1448
	Sound Pressure Level (Quiet Lo Med Hi SH)	Cooling	dB(A)	30/33/37	30/34/39	33/38/42	36/40/44
		Heating	dB(A)	30/33/37	30/34/39	33/38/42	36/40/44
	External Static Pressure	In. W.G.		0.14/0.2/0.28/0.4/0.6	0.14/0.2/0.28/0.4/0.6	0.14/0.2/0.28/0.4/0.6	0.14/0.2/0.28/0.4/0.6
	Condensate Lift Mechanism	Max Distance	In. (mm)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)	27/9/16 (700)
	Dimensions	H	In. (mm)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)	9/7/8 (250)
		W	In. (mm)	43/5/16 (1100)	43/5/16 (1100)	55/1/8 (1400)	55/1/8 (1400)
		D	In. (mm)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)	28/7/8 (732)
	Weight	Lbs (kg)		69 (31)	69 (31)	86 (39)	91 (41)
Outdoor Unit	MLA	A		19.0	28.0	28.0	37.0
	MOCP	A		26	40	40	44
	Dimensions	H	In. (mm)	37/1/8 (948)	53/1/8 (1375)	53/1/8 (1375)	52/11/16 (1338)
		W	In. (mm)	37/13/32 (950)	37/9/8 (950)	37/9/8 (950)	41/3/8 (1051)
		D	In. (mm)	19 (1/2) 9/16 (380) (180)	19 (1/2) 9/16 (380) (180)	19 (1/2) 9/16 (380) (180)	19 (1/2) 9/16 (380) (180)
	Weight	Lbs (kg)		85 (38)	265 (120)	265 (120)	287 (130)
	Air Flow Rate (Cooling/Heating)	CFM		1940/1940	3030/3030	3080/3080	3320/3320
		Cooling	dB(A)	52	52	52	48
	Sound Pressure Level	Heating	dB(A)	53	53	53	51
		Heating	dB(A)	53	53	53	51
Piping	Diameter	Gas (U.U.)	In. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (U.U.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	1/4 (32)	1/4 (32)	1/4 (32)	1/4 (32)
	Max. Length	ft (m)		165 (50)	245 (75)	245 (75)	245 (75)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		25	30	30	40
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		13.0 to 70.0 (25.0 to 21.0)	13.0 to 70.0 (25.0 to 21.0)	13.0 to 70.0 (25.0 to 21.0)	13.0 to 70.0 (25.0 to 21.0)

Notes:
 AHRI Rated Conditions: *Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
 (Rated data is determined at a fixed compressor speed) *Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
 *Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
 *Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB
 *Indoor unit indoor power from outdoor unit through field supplied non-vented wiring.
 *Wind baffles required to operate below 20°F DB in cooling mode. PUZ with wind baffles, 0°F F, 115°F F.



PCA Model

A stylish new indoor unit design and airflow settings for both high and low ceiling interiors expand installation possibilities. Together with exceptional energy-saving performance, these units are the solution to diversified air conditioning needs.

PCA-A24/30/36/42KA7



Stylish Indoor Unit Design

A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



High Energy Efficiency

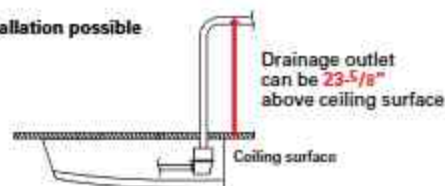
SEER/HSPF has been greatly improved, realizing industry-leading energy-saving features.



Optional Drain Pump for All Models

The pumping height of the optional drain pump has been increased from 15-3/4" to 23-5/8", expanding flexibility in choosing unit location during installation work.

● Drain pump installation possible



Equipped with Automatic Air-speed Adjustment

In addition to the conventional 4-speed setting, units are now equipped with an automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



Equipped with High/Low-ceiling Modes

Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match room height. The ability to choose the optimum airflow volume ensures even temperature distribution throughout the room.

Capacity (kBTU/h)	High ceiling (ft)	Standard ceiling (ft)	Low ceiling (ft)
24	11.5	8.9	6.2
30	11.5	8.9	6.2
36	13.8	9.8	6.5
42	13.8	9.8	6.5

COOLING ONLY



Indoor Unit				PCA A24KA7	PCA A30KA7	PCA A36KA7	PCA A42KA7
Outdoor Unit				PUY A24NHKA7 (BS)	PUY A30NHKA7 (BS)	PUY A36NHKA7 (BS)	PUY A42NHKA7 (BS)
Cooling	Capacity	Rated 1	BTU/H	34,000	50,000	56,000	42,000
	Capacity Range	Min-Max	BTU/H	10,000-34,000	15,000-50,000	16,000-56,000	16,000-42,000
	Power Input	Rated 1	W	1,900	3,190	3,270	4,110
	Moisture Removal	Pints/h		5.8	8.8	8.7	11.7
	Sensible Heat Factor			0.790	0.700	0.750	0.690
Heating	Capacity at 47°F	Rated	BTU/H				
	Capacity Range	Min-Max	BTU/H				
	Power Input at 47°F	Rated	W				
	Capacity at 17°F	Rated	BTU/H				
	Capacity at 5°F	Max	BTU/H				
Efficiency	SEER			21.2	19.6	19.1	17.6
	EER			12.2	9.4	11.0	10.2
	HSPF						
	COP						
ENERGY STAR® Certified				Yes	Yes	Yes	Yes
Indoor Unit	Air Flow Rate - Cooling (Quiet Lo Mod Hi SH)	Dry	CFM	530/565/600/670	565/600/635/705	775/850/920/990	810/885/955/1025
		Wet	CFM	495/530/565/635	530/565/600/670	705/775/850/920	740/810/885/955
	Air Flow Rate - Heating (Quiet Lo Mod Hi SH)	Dry	CFM	530/565/600/670	565/600/635/705	775/850/920/990	810/885/955/1025
		Sound Pressure Level (Quiet Lo Mod Hi SH)	Cooling	dB(A)	33/35/37/40	35/37/39/41	37/39/41/43
		Heating	dB(A)	33/35/37/40	35/37/39/41	37/39/41/43	39/41/43/45
	External Static Pressure		In. W.G.				
	Condensate Lift Mechanism		Max Distance	In. (mm)			
	Dimensions	H	In. (mm)	9 1/16 (230)	9 1/16 (230)	9 1/16 (230)	9 1/16 (230)
		W	In. (mm)	50 3/8 (1280)	50 3/8 (1280)	53 (1330)	53 (1330)
		D	In. (mm)	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)
Weight	lbs (kg)		71 (32)	71 (32)	73 (33)	85 (39)	
Outdoor Unit	MLA	A		19.0	19.0	25.0	25.0
	MOCP	A		26	26	31	31
	Dimensions	H	In. (mm)	37 1/8 (943)	37 1/8 (943)	52 11/16 (1338)	52 11/16 (1338)
		W	In. (mm)	37 13/32 (950)	37 13/32 (950)	41 5/16 (1050)	41 5/16 (1050)
		D	In. (mm)	18 (1 3/16) (390 (+90))	18 (1 3/16) (390 (+90))	19 (1 5/16) (390 (+90))	19 (1 5/16) (390 (+90))
	Weight	lbs (kg)		151 (68)	151 (68)	211 (96)	211 (96)
	Air Flow Rate (Cooling/Heating)	CFM		1940/	1940/	3880/	3880/
	Sound Pressure Level	Cooling	dB(A)	47	47	52	52
Heating		dB(A)					
Piping	Diameter	Gas (U.U.)	In. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (U.U.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	1 1/32 (26)	1 1/32 (26)	1 1/32 (26)	1 1/32 (26)
	Max. Length	ft (m)		225 (68)	225 (68)	225 (68)	225 (68)
Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)	
Electrical	Outdoor Indoor*	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		25	25	30	30
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling*	°F DB (°C DB)		40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)	40.0 to 115.0 (40.0 to 46.0)
	Heating	°F DB (°C DB)					

Notes:

AHRF Road Conditions
(Road data is determined
by a field computer board)

Cooling (indoor) / Ductless

*F 80 CB, 67 WB // 95 CB, 75 WB

*Author's address: Department of Psychology, University of California, San Diego, 3551 La Jolla Village Drive, San Diego, CA 92093, USA. E-mail: andrew@ucl.ac.uk

*Wind baffles required to operate below 20°F DB in cooling mode. PU/Y with wind baffle. 40°F - 115°F. Refer to wind baffle documentation for further information.

BEACONART PROTECTION

- External/Outer Panel: Phosphate coating + A-2141 Enamel coating
- Fan Motor Support: Epoxy resin coating (at edge face)
- Boreplate Assembly, Valve Body: Epoxy resin coating (at edge face)

- "Blue Fin" component is an oil-cooled component that is applied to the condenser coil to protect it against a future oil-soaked state

PCA Model

HEAT PUMP



Indoor Unit				PCA A24KA7	PCA A30KA7	PCA A36KA7	PCA A42KA7
Outdoor Unit				PUZ A24NKA7 (BS)	PUZ A30NKA7 (BS)	PUZ A36NKA7 (BS)	PUZ A42NKA7 (BS)
Cooling	Capacity	Rated *	BtU/h	24,000	30,000	36,000	42,000
	Capacity Range	Min/Max	BtU/h	10,000-24,000	15,000-30,000	16,000-36,000	16,000-42,000
	Power Input	Rated *	W	1,300	3,100	3,270	4,110
	Moisture Removal	Pints/h		5.8	8.3	8.7	11.7
	Sensible Heat Factor			0.780	0.690	0.730	0.690
Heating	Capacity at 47°F	Rated *	BtU/h	26,000	32,000	38,000	45,000
	Capacity Range	Min/Max	BtU/h	8,800-26,000	8,600-34,000	17,900-40,000	16,100-48,000
	Power Input at 47°F	Rated *	W	1,800	2,520	2,410	3,480
	Capacity at 17°F	Max	BtU/h	15,400	18,800	21,000	31,800
	Capacity at 5°F	Max *	BtU/h	17,900	21,600	24,400	35,000
Efficiency	SEER			21.2	19.6	19.1	17.8
	EEER			12.2	9.4	11.0	10.2
	HSPF			10.8	10	10.2	10.2
	LODP			4.23	3.72	4.62	3.78
	ENERGY STAR Certified			No	No	No	No
Indoor Unit	Air Flow Rate - Cooling	Dry	CFM	530/565/600/670	565/600/635/705	775/800/820/890	810/885/955/1025
	Air Flow Rate - Heating	Wet	CFM	405/530/565/630	580/565/600/670	705/775/850/920	740/810/885/955
	Air Flow Rate - Heating	Dry	CFM	530/565/600/670	565/600/635/705	775/800/820/890	810/885/955/1025
	Sound Pressure Level (Quiet Ln Mod H. SH)	Cooling	dB(A)	38/35/37/40	35/37/39/41	37/39/41/43	39/41/43/45
	Sound Pressure Level (Quiet Ln Mod H. SH)	Heating	dB(A)	38/35/37/40	35/37/39/41	37/39/41/43	39/41/43/45
	External Static Pressure		In. W.G.				
	Condensate Lift Mechanism	Max Distance	In. (mm)				
	Dimensions	H	In. (mm)	9 1/16 (230)	9 1/16 (230)	9 1/16 (230)	9 1/16 (230)
		W	In. (mm)	50 3/8 (1280)	50 3/8 (1280)	63 (1600)	63 (1600)
		D	In. (mm)	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)
Outdoor Unit	Weight	lbs (kg)		71 (32)	71 (32)	70 (30)	86 (39)
	MCA	A		19.0	19.0	25.0	25.0
	MOCF	A		26	26	31	31
	Dimensions	H	In. (mm)	37 1/8 (948)	37 1/8 (948)	52 11/16 (1338)	52 11/16 (1338)
		W	In. (mm)	37 13/32 (950)	37 13/32 (950)	41 5/16 (1050)	41 5/16 (1050)
		D	In. (mm)	18 (1 3/16) (330 (130))	18 (1 3/16) (330 (130))	18 (1 3/16) (330 (130))	18 (1 3/16) (330 (130))
	Weight	lbs (kg)		153 (69)	153 (69)	214 (97)	214 (97)
	Air Flow Rate (Cooling/Heating)	CFM		1540/1540	1540/1540	3880/3880	3880/3880
	Sound Pressure Level	Cooling	dB(A)	47	47	52	52
		Heating	dB(A)	48	48	53	53
Piping	Diameter	Gas (O.D.)	In. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (O.D.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	1 (1/32) (25)	1 (1/32) (25)	1 (1/32) (25)	1 (1/32) (25)
	Max. Length	ft (m)		165 (50)	165 (50)	165 (50)	165 (50)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)
Electrical	Outdoor Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		25	25	30	30
Refrigerant type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)	4.0 to 70.0 (20.0 to 21.0)

Notes:

AHRF Rated Conditions:

(Rated data is determined at a fixed compressor speed)

*Heating at 47°F (Indoor // Outdoor)

*Heating at 17°F (Indoor // Outdoor)

*Heating at 5°F (Indoor // Outdoor)

*Indoor units receive power from outdoor units through field supplied interconnecting wiring.

*Wind baffles required to operate below 25°F DB in cooling mode. PUZ with wind baffle. 0° F - 115° F. Refer to wind baffle documentation for further information.

REARDOOR PROTECTION

- External Door Panel: Phosphate coating + Acrylic Enamel coating

- Fan Motor Support: Epoxy resin coating (at edge face)

- Refrigerator Assembly, Valve Body: Epoxy resin coating (at edge face)

- "Blue Fin" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants.

Cooling (Indoor // Outdoor)

*Heating at 47°F (Indoor // Outdoor)

*Heating at 17°F (Indoor // Outdoor)

*Heating at 5°F (Indoor // Outdoor)

°F 80 DB, 87 WB // 95 DB, 75 WB

°F 70 DB, 80 WB // 47 DB, 43 WB

°F 70 DB, 80 WB // 17 DB, 15 WB

°F 70 DB, 80 WB // 5 DB, 4 WB

PCA Model

HYPER-HEATING



Indoor Unit				PCA A24KA7	PCA A26KA7	PCA A28KA7	PCA A42KA7
Outdoor Unit				PUZ H424NH4	PUZ H430NH4S	PUZ H436NH4S	PUZ H442NH4S
Cooling	Capacity	Rated *	B1UH	24,000	30,000	34,000	42,000
	Capacity Range	Min/Max	B1UH	10,000-24,000	18,000	19,000	19,000
	Power Input	Rated *	W	1,840	2,480	2,910	4,200
	Moisture Removal	Rated *		5.6	8.8	8.2	11.7
Heating	Sensible Heat Factor			0.790	0.900	0.790	0.690
	Capacity at 47°F	Rated *	B1UH	26,000	32,000	38,000	48,000
	Capacity Range	Min/Max	B1UH	10,000-26,000	18,000-32,000	18,000-40,000	21,000-54,000
	Power Input at 47°F	Rated *	W	2,050	2,900	3,270	4,150
Efficiency	Capacity at 17°F	Rated *	B1UH	17,700	19,000	27,000	44,000
	Max	B1UH		25,000	32,000	38,000	48,000
	Capacity at 5°F	Max *	B1UH	25,000	32,000	38,000	48,000
	SEER			18.5	16.1	16.0	14.5
Indoor Unit	EEER			12.5	12.1	12.1	10.0
	HSPF			10.8	9.3	10.3	10.4
	ODP			3.5	3.14	3.4	3.38
	ENERGY STAR Certified			Yes	No	No	No
Indoor Unit	Air Flow Rate: Cooling (Quiet Lo Mod Hi SH)	Dry	CFM	580/565/600/670	565/600/635/705	775/850/920/990	810/885/955/1025
		Wet	CFM	495/580/565/635	580/565/600/670	705/775/850/920	740/810/885/955
	Air Flow Rate: Heating (Quiet Lo Mod Hi SH)	Dry	CFM	580/565/600/670	565/600/635/705	775/850/920/990	810/885/955/1025
	Sound Pressure Level (Quiet Lo Mod Hi SH)	Cooling	dB(A)	38/35/37/40	35/37/39/41	37/39/41/43	39/41/43/45
Indoor Unit		Heating	dB(A)	38/35/37/40	35/37/39/41	37/39/41/43	39/41/43/45
	External Static Pressure		In. W.G.				
	Condensate Lift Mechanism	Max Distance	In. (mm)				
Outdoor Unit	Dimensions	H	In. (mm)	9 1/16 (230)	9 1/16 (230)	9 1/16 (230)	9 1/16 (230)
		W	In. (mm)	50 9/8 (1280)	50 9/8 (1280)	63 (1600)	63 (1600)
		D	In. (mm)	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)	26 3/4 (680)
	Weight	lbs (kg)		71 (32)	71 (32)	79 (36)	86 (39)
Outdoor Unit	MLA	A		19.0	28.0	28.0	37.0
	MOCP	A		25	40	40	44
	Dimensions	H	In. (mm)	37 1/8 (945)	53 1/8 (1375)	53 1/8 (1375)	52 11/16 (1338)
		W	In. (mm)	37 13/32 (952)	37 9/8 (950)	37 9/8 (950)	41 3/8 (1051)
Outdoor Unit		D	In. (mm)	19 (1 9/16) (330) (180)	19 (1 9/16) (330) (180)	19 (1 9/16) (330) (180)	19 (1 9/16) (330) (180)
	Weight	lbs (kg)		85 (188)	265 (120)	265 (120)	287 (130)
	Air Flow Rate (Cooling/Heating)	CFM		1940/1940	3030/3030	3030/3030	3320/3320
	Sound Pressure Level	Cooling	dB(A)	52	52	52	48
Piping		Heating	dB(A)	53	53	53	51
	Diameter	Gas (U.U.)	In. (mm)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
		Liquid (U.U.)	In. (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
		Indoor Drain	In. (mm)	1 (1/32) (25)	1 (1/32) (25)	1 (1/32) (25)	1 (1/32) (25)
Electrical	Max. Length	ft (m)		165 (50)	245 (75)	245 (75)	245 (75)
	Max. Height	ft (m)		100 (30)	100 (30)	100 (30)	100 (30)
	Outdoor Indoor *	V, ph, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
	Recommended Breaker Size	A		25	30	30	40
Refrigerant Type				R410A	R410A	R410A	R410A
Guaranteed Temperature Operation Range	Cooling *	°F DB (°C DB)		0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)	0.0 to 115.0 (18.0 to 46.0)
	Heating	°F DB (°C DB)		13.0 to 70.0 (25.0 to 21.0)	13.0 to 70.0 (25.0 to 21.0)	13.0 to 70.0 (25.0 to 21.0)	13.0 to 70.0 (25.0 to 21.0)

Notes:
 AHRI Rated Conditions: *Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
 (Rated data is determined at a fixed compressor speed) *Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
 *Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
 *Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB
 *Indoor unit indoor power from outdoor unit through field supplied non-vented wiring.
 *Wind baffles required to operate below 20°F DB in cooling mode. PUZ with wind baffles, 0°F 115°F.



MULTI- ZONE Series



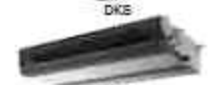
SELECTION

Choose from six types of indoor units and thirteen outdoor units that can run up to eight indoor units each.

STEP 1

SELECT INDOOR UNIT

Select the indoor unit to be installed in each room.

Wall Mounted  WPH  MSZ-EF  NAXWST	Floor Mounted  FKS	Multi-Position Air Handler  AMT	Ceiling Cassette  DKS  PLA  UKS	Ceiling Suspended  PCA Horizontal Ducted  DKS  PEAD
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STEP 2

SELECT OUTDOOR UNIT

Select the best outdoor unit based on the number of indoor units and overall system capacity required.

2-port up to 2 indoor units  NAXMM020A122A*	3-port up to 3 indoor units  NAXMM024A132A* NAXMM030A132A*	4-port up to 4 indoor units  NAXMM036A142A*	5-port up to 5 indoor units  NAXMM042A152A*	8-port up to 8 indoor units  NAXMM048A182BA NAXMM060A182BA
Pro-Heat 2-port up to 2 indoor units  NAXMPH20A122A*	3-port up to 3 indoor units  NAXMPH24A132A* NAXMPH30A132A*	4-port up to 4 indoor units  NAXMPH36A142A*2	5-port up to 5 indoor units  NAXMPH42A152A*2	8-port up to 8 indoor units  NAXMM048A182A*H22

STEP 3

CHECK SYSTEM COMPATIBILITY

Possible combinations depends on the outdoor unit chosen. Please check the following points.

Check Indoor Units

Refer to the Indoor Unit Compatibility Table to check if the indoor units selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.)

Check Indoor Unit Capacity Combination

Refer to the Combination Table to check if the capacity combination of the indoor unit selected is connectible. (Combinations not listed cannot be connected.)

If the desired combination cannot be found, please change either the indoor or outdoor unit to match one of the combinations shown in the tables.

MX Model

Advancements in the MX Models include efficiency and flexibility in system expansion capabilities. The best solution when requiring multi-system air conditioning needs.

Outdoor Unit



2-port

NAXMMX20A122**



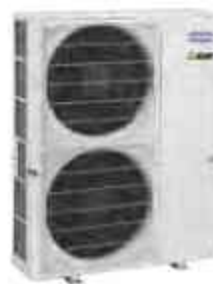
3-port 4-port

NAXMMX24A132**
NAXMMX30A132**
NAXMMX36A142**



5-port

NAXMMX42A152**

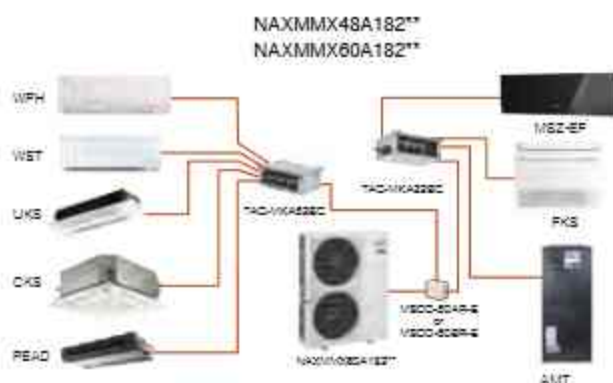


8-port

NAXMMX48A182**
NAXMMX60A182**
8 Port Branch Box required

EXAMPLE SYSTEM

Smaller MX 2, 3, 4 and 5 ports
(example of NAXMMX42A152** system)



Refer to the multi-zone compatibility table on page 9.

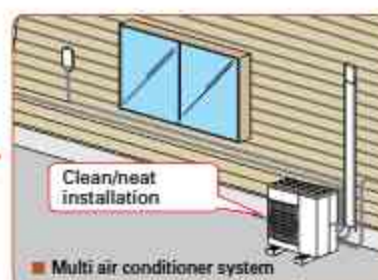
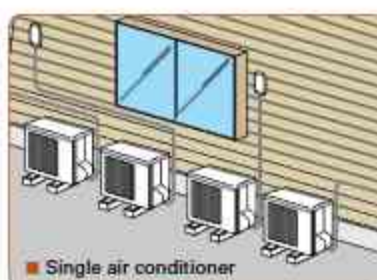
Handle Up to 8 Rooms with a Single Outdoor Unit

The MX Model offers a seven-system line-up to choose from, ranging between 20,000 and 60,000 BTU/H. All of them are compatible with specific Nv- and P-Series indoor units. A single outdoor unit can handle a wide range of building layouts.

Optional Drain for All Models

With MX Model one outdoor unit can cool and heat up to eight rooms. They can be installed neatly in sites with limited space such as condominium balconies.

*Please note that cooling and heating modes cannot be run simultaneously in different rooms.



MX Model

INVERTER MULTI



Type				Up to 2 indoor units	Up to 3 indoor units	Up to 4 indoor units	Up to 5 indoor units	Up to 8 indoor units		
Outdoor Unit				NAXMMX30A122A*	NAXMMX30A122A*	NAXMMX30A122A*	NAXMMX36A142A*	NAXMMX42A152A*	NAXMMX48A182B*	NAXMMX50A182B*
Branch Box Required				No	No	No	No	No	Yes	Yes
Power Supply	Source	R410A			R410A	R410A	R410A	R410A	R410A	R410A
	Outdoor (Phase, Hz, V)	1-phase, 60Hz, 208/230V			1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V
Cooling	Capacity	Rated *1	BTU/H	18,000	22,000	28,400	35,400	40,600	48,000	60,000
	SEER	Refer to page 148								
Heating	Capacity	Rated *1	BTU/H	22,000	25,000	28,600	36,000	45,000	54,000	66,000
		Max at 17F *2	BTU/H	12,500	15,600	21,000	26,600	30,500	36,600	66,000
		Max at 5F *3	BTU/H	11,100	18,200	18,200	24,000	26,000	32,400	67,000
	HSPF	Refer to page 148								
Outdoor Unit	MCA	A		17.2	22.1	22.1	22.1	32.5	35.0	46.0
	Recommended Fuse/Breaker Size	A		20	25	25	25	40	40	50
	Dimensions	W	in. [mm]	33-1/16 [840]	37-1/32 [950]	37-1/32 [950]	37-1/32 [950]	37-1/32 [950]	41-1/32 [1,050]	41-1/32 [1,050]
		D	in. [mm]	13 [330]	13 [330]	13 [330]	13 [330]	13 [330]	13+1 [330+25]	13+1 [330+25]
		H	in. [mm]	27-1/8 [710]	31-1/32 [796]	31-1/32 [796]	31-1/32 [796]	41-1/8 [1,048]	52-1/16 [1,338]	52-1/16 [1,338]
	Weight	lbs [kg]		126 [57]	137 [62]	137 [62]	139 [63]	169 [86]	271 [123]	302 [137]
	Air volume (Cooling/Heating)	CFM		1,343/1,488	2,267/2,382	2,267/2,382	2,267/2,382	2,118/2,542	3,885	4,875
	Sound Level	Cooling	dB [A]	50	51	52	54	55	51	56
Heating		dB [A]	54	55	56	56	58	54	59	
Piping	Diameter	Gas	in. [mm]	3/8 [9.52]	A: 1/2 [12.7] B,C: 3/8 [9.52]	A: 1/2 [12.7] B,C: 3/8 [9.52]	A: 1/2 [12.7] B,C,D: 3/8 [9.52]	A: 1/2 [12.7] B,C,D,E: 3/8 [9.52]	5/8 [15.88]	3/4 [19.05]
		Liquid	in. [mm]	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]
	Max. Length	ft [m]		164 [50]	230 [70]	230 [70]	230 [70]	262 [80]	492 [150]	492 [150]
	Height	ft [m]		49 [15]	49 [15]	49 [15]	49 [15]	49 [15]	164 [50]	164 [50]
Guaranteed Operation Range	Cooling	F [C]		14 ~ 115°FDB [-10 ~ 46°CDB]	14 ~ 115°FDB [-10 ~ 46°CDB]	14 ~ 115°FDB [-10 ~ 46°CDB]	14 ~ 115°FDB [-10 ~ 46°CDB]	14 ~ 115°FDB [-10 ~ 46°CDB]	23 ~ 115°FDB [-5 ~ 46°CDB] *5	23 ~ 115°FDB [-5 ~ 46°CDB] *5
	Heating	F [C]		5 ~ 75°FDB [-15 ~ 24°CDB]	5 ~ 75°FDB [-15 ~ 24°CDB]	5 ~ 75°FDB [-15 ~ 24°CDB]	5 ~ 75°FDB [-15 ~ 24°CDB]	5 ~ 75°FDB [-15 ~ 24°CDB]	-4 ~ 70°FDB [-20 ~ 21°CDB]	-4 ~ 70°FDB [-20 ~ 21°CDB]

NOTE: Test conditions are based on AHRJ 210/240.

*1 Rating Conditions (Cooling) - Indoor: 80°F DB, 67°F FWB, Outdoor: 55°F DB, (75°F FWB)

(Heating) - Indoor: 70°F DB, 60°F FWB, Outdoor: 47°F DB, 43°F FWB

*2 Rating Conditions (Heating) - Indoor: 70°F DB, 60°F FWB, Outdoor: 17°F DB, 15°F FWB

*3 Rating Conditions (Heating) - Indoor: 70°F DB, 60°F FWB, Outdoor: 5°F DB, 5°F FWB

*5 F DB ~ 115°F DB when optional wind baffles are installed

Type	Branch Box		
Model Name	TAC-MKA32BC		
Connectable Number of Indoor Units	Maximum 3		
Power Supply	1-phase, 60Hz, 208/230V		
Input	kW	0.003	0.003
Running Current	A	0.05	0.05
Dimensions	W	in. [mm]	17-23/32 [450]
	D	in. [mm]	11-1/32 [280]
	H	in. [mm]	6-11/16 [170]
Weight	lbs [kg]	15 [6.7]	15 [7.4]
Piping Connection (Flare)	Branch (Indoor side)*	Gas	in. [mm]
		Liquid	in. [mm]
	Main (Outdoor side)*	Gas	in. [mm]
		Liquid	in. [mm]

*The piping connection size differs according to the type and capacity of indoor units. Match the piping connection size for indoor and branch box. If the piping connection size of branch box does not match the piping connection size of indoor units, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)

MPH Model

Pro-Heat

New Pro-Heat MX allows you to create an oasis of comfort throughout your home and office, in the rooms you use most, any time of the year.



Standard rated heating capacity is maintained even when the outside-air temperature drops to 5° F.

Maintains high capacity output even when outside-air temperature is low.



Can operate at outside-air temperature of -13° F

1. Incorporated key parts resistant to cold of up to -13° F after rigorous selection.
2. Printed circuit board is coated on both sides to protect it in harsh environments.

Base pan heater built-in

Prevents capacity loss and operation from stopping due to drain water freezing.

Drain water **freezes** after operation in the harsh cold



Without base heater

Pro-Heat

Does not freeze



With base heater

Continuous heating for long periods

Wasteful defrosting operation suppressed to enable more comfortable long-term continuous heating.

Extremely cold outside

Pro-Heat



MPH Model

MMX Model



Type			Up to 2 indoor units	Up to 3 indoor units	Up to 4 indoor units	Up to 5 indoor units	Up to 8 indoor units		
Outdoor Unit			NAXMPH20A122A*	NAXMPH24A132A*	NAXMPH30A132A*	NAXMPH36A142B*	NAXMPH42A152B*	NAXMMX48A182B*	
Branch Box Required			No	No	No	Yes	Yes	Yes	
Power Supply	Source		R410A	R410A	R410A	R410A	R410A	R410A	
	Outdoor (Phase, Hz, V)		1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	1-phase, 60Hz, 208/230V	
	Recommended Breaker Size		40	40	40	50			
	Capacity	Rated *1	BTU/H	19,000	22,000	26,400	36,000	42,000	48,000
Cooling	SEER								
	EER								
Refer to page 148									
Heating	Capacity	Rated *1	BTU/H	22,000	25,000	28,600	45,000	48,000	54,000
		Max at 17F *2	BTU/H	22,000	25,000	28,600	45,000	48,000	54,000
		Max at 5F *3	BTU/H	22,000	25,000	28,600	45,000	48,000	54,000
	HSPF								
Refer to page 148									
Outdoor Unit	MCA		A	29.5	30.5	30.5	42	42	42
	Recommended breaker/ fuse size		A	40	40	50	45	45	45
	Dimensions	W	in. [mm]	37-13/32 [950]	37-13/32 [950]	41-11/32 [1,050]	41-11/32 [1,050]	41-11/32 [1,050]	41-11/32 [1,050]
		D	in. [mm]	13 [330]	13 [330]	13 [330]	13+1 [330+25]	13+1 [330+25]	13+1 [330+25]
		H	in. [mm]	41-17/64 [1,048]	41-17/64 [1,048]	41-17/64 [1,048]	52-11/16 [1,338]	52-11/16 [1,338]	52-11/16 [1,338]
	Weight		lbs [kg]	187 [85]	189 [86]	189 [86]	278 [126]	278 [126]	278 [126]
	Air volume (Cooling/Heating)		CFM	2,118/2,542	2,188/2,542	2,224/2,542	3,886	3,886	3,886
	Sound Level	Cooling	dB [A]	54	54	54	49	50	51
Heating		dB [A]	58	58	58	53	54	54	
Piping	Diameter	Gas	in. [mm]	3/8 [9.52]	A: 1/2 [12.7] B,C: 3/8 [9.52]	A: 1/2 [12.7] B,C: 3/8 [9.52]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
		Liquid	in. [mm]	1/4 [6.35]	1/4 [6.35]	1/4 [6.35]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Max. Length		ft [m]	164 [50]	230 [70]	230 [70]	492 [150]	492 [150]	492 [150]
	Height		ft [m]	49 [15]	49 [15]	49 [15]	164 [50]	164 [50]	164 [50]
Guaranteed Operation Range	Cooling	F [C]	14 ~ 115°FDB [-10 ~ 46°CDB]	14 ~ 115°FDB [-10 ~ 46°CDB]	14 ~ 115°FDB [-10 ~ 46°CDB]	23 ~ 115°FDB [-5 ~ 46°CDB] *5	23 ~ 115°FDB [-5 ~ 46°CDB] *5	23 ~ 115°FDB [-5 ~ 46°CDB] *5	
	Heating	F [C]	-13 ~ 75°FDB [-25 ~ 24°CDB]	-13 ~ 75°FDB [-25 ~ 24°CDB]	-13 ~ 75°FDB [-25 ~ 24°CDB]	-13 ~ 70°FDB [-25 ~ 21°CDB]	-13 ~ 70°FDB [-25 ~ 21°CDB]	-13 ~ 70°FDB [-25 ~ 21°CDB]	

NOTE: Test conditions are based on AHRI 210/240.

*1 Rating Conditions (Cooling) - Indoor: 80°F DB, 67°F WB, Outdoor: 55°F DB, (75°F WB) (Heating) - Indoor: 70°F DB, 60°F WB, Outdoor: 47°F DB, 43°F WB

*2 Rating Conditions (Heating) - Indoor: 70°F DB, 60°F WB, Outdoor: 17°F DB, 15°F WB

*3 Rating Conditions (Heating) - Indoor: 70°F DB, 60°F WB, Outdoor: 5°F DB, 5°F WB

*5 *F DB - 115°F DB when optional wind baffles are installed

Indoor Unit Compatibility Table

MMX Model *1

Possible combinations of outdoor units and indoor units are shown below.

Indoor Unit		Outdoor Unit	NAXMMX20A122A*	NAXMMX24A132A*	NAXMMX30A132A*	NAXMMX36A142A*	NAXMMX42A152A*	NAXMMX48A162A*	NAXMMX60A182A*
N-Series	Wall Mounted	NAXWPH06A112A*	•	•	•	•	•	•	•
		NAXWPH09A112A*	•	•	•	•	•	•	•
		NAXWPH12A112A*	•	•	•	•	•	•	•
		NAXWPH15A112A*	•	•	•	•	•	•	•
		NAXWPH18A112A*	•	•	•	•	•	•	•
		NAXWST06A112A*	•	•	•	•	•	•	•
		NAXWST09A112A*	•	•	•	•	•	•	•
		NAXWST12A112A*	•	•	•	•	•	•	•
		NAXWST15A112A*	•	•	•	•	•	•	•
		NAXWST18A112A*	•	•	•	•	•	•	•
		NAXWST24A112A*	•	•	•	•	•	•	•
		MBZ-EF09NAW(S)(B)	•	•	•	•	•	•	•
		MBZ-EF12NAW(S)(B)	•	•	•	•	•	•	•
		MBZ-EF15NAW(S)(B)	•	•	•	•	•	•	•
		MBZ-EF18NAW(S)(B)	•	•	•	•	•	•	•
	Floor Standing	NAXFKB09A112A*	•	•	•	•	•	•	•
		NAXFKB12A112A*	•	•	•	•	•	•	•
		NAXFKB15A112A*	•	•	•	•	•	•	•
		NAXFKB18A112A*	•	•	•	•	•	•	•
	EZ FIT™ Recessed Ceiling Cassette	NAXUKB09A112A*	•	•	•	•	•	•	•
		NAXUKB12A112A*	•	•	•	•	•	•	•
		NAXUKB15A112A*	•	•	•	•	•	•	•
	Multi-position Air Handler	NAXAMT12A112A*	**2	**2	**2	**2	**2	**3, 4	**3, 4
		NAXAMT15A112A*		**2	**2	**2	**2	**3, 4	**3, 4
		NAXAMT24A112A*			**2	**2	**2	**3, 4	**3, 4
		NAXAMT30A112A*						**3, 4	**3, 4
		NAXAMT36A112A*						**3, 4	**3, 4
	4-way Cassette	NAXCKB09A112A*	•	•	•	•	•	•	•
		NAXCKB12A112A*	•	•	•	•	•	•	•
		NAXCKB15A112A*	•	•	•	•	•	•	•
	Horizontal-ducted	NAXDKB09A112A*	•	•	•	•	•	**6	**7
		NAXDKB12A112A*	•	•	•	•	•	**6	**7
		NAXDKB15A112A*	•	•	•	•	•	**6	**7
		NAXDKB18A112A*	•	•	•	•	•	**6	**7
P-Series	4-way Cassette	PLA-A12EA7						**5	**5
		PLA-A18EA7		•	•	•	•	**5	**5
		PLA-A24EA7						**5	**5
		PLA-A30EA7						**5	**5
		PLA-A36EA7						**5	**5
		PLA-A42EA7							
	Ceiling Suspended	PCA-A24KA7			•	•	•		
		PCA-A30KA7							
		PCA-A36KA7							
		PCA-A42KA7							
	Horizontal-ducted	PEAD-A12AA7	**3	**3	**3	**3	**3	**6	**7
		PEAD-A18AA7		•	**3	**3	**3	**6	**7
		PEAD-A24AA7			•	•	**3	**6	**7
		PEAD-A30AA7						**6	**7
		PEAD-A36AA7						**6	**7
		PEAD-A42AA7							

Information is current as of this printing. Minimum installed capacity cannot be less than 12,000 BTU/H. A minimum of two indoor units must be connected to all MX outdoor units.

*2 Only one AMT Model can be connected.

*3 Maximum of two units can be connected unless the SPTB1 is utilized to power the indoor unit.

*4 Single unit can be connected.

*5 When the system includes even 1 unit of PLA-AEA7, the number of the maximum connectable indoor units is decreased as follows: 3 for NAXMPH06A142**, 4 for NAXMPH42A152**, and 6 for NAXMPH48A162** and NAXMMX60A182**.

*6 Maximum of 3 horizontal ducted indoor units (PEAD or DKS) can be connected.

*7 Maximum of 2 horizontal ducted indoor units (PEAD or DKS) can be connected.

For more information, please refer to the service manual, application 1029 and the full compatibility chart on AmericanStandard.MyLinkDrive.com.

MPH Model *1

Pro-Heat

Possible combinations of outdoor units and indoor units are shown below.

Indoor Unit		Outdoor Unit	NAXMPH20A122A*	NAXMPH24A122A*	NAXMPH30A122A*	NAXMPH36A142A*	NAXMPH42A152B*	NAXMMX48A182B*
N-Series	Wall Mounted	NAXWPH05A112A*	•	•	•	•	•	•
		NAXWPH05A112A*	•	•	•	•	•	•
		NAXWPH12A112A*	•	•	•	•	•	•
		NAXWPH15A112A*	•	•	•	•	•	•
		NAXWPH18A112A*	•	•	•	•	•	•
		NAXWBT05A112A*	•	•	•	•	•	•
		NAXWBT05A112A*	•	•	•	•	•	•
		NAXWBT12A112A*	•	•	•	•	•	•
		NAXWBT15A112A*	•	•	•	•	•	•
		NAXWBT18A112A*	•	•	•	•	•	•
		NAXWBT24A112A*	•	•	•	•	•	•
		NAXWBT24A112A*	•	•	•	•	•	•
		NAXWBT24A112A*	•	•	•	•	•	•
		NAXWBT24A112A*	•	•	•	•	•	•
	Floor Standing	NAXFKB05A112A*	•	•	•	•	•	•
		NAXFKB12A112A*	•	•	•	•	•	•
		NAXFKB15A112A*	•	•	•	•	•	•
		NAXFKB18A112A*	•	•	•	•	•	•
	EZ FIT™ Recessed Ceiling Cassette	NAXUKB05A112A*	•	•	•	•	•	•
		NAXUKB12A112A*	•	•	•	•	•	•
		NAXUKB15A112A*	•	•	•	•	•	•
	Multi-position Air Handler	NAXAMT12A112A*	**2	**2	**2	**3, 4	**3, 4	**3, 4
		NAXAMT15A112A*		**2	**2	**3, 4	**3, 4	**3, 4
		NAXAMT24A112A*			**2	**3, 4	**3, 4	**3, 4
		NAXAMT30A112A*				**3, 4	**3, 4	**3, 4
		NAXAMT36A112A*				**3, 4	**3, 4	**3, 4
	4-way Cassette	NAXCKB05A112A*	•	•	•	•	•	•
		NAXCKB12A112A*	•	•	•	•	•	•
		NAXCKB15A112A*	•	•	•	•	•	•
	Horizontal-ducted	NAXDKB05A112A*	•	•	•	**6	**6	**6
		NAXDKB12A112A*	•	•	•	**6	**6	**6
		NAXDKB15A112A*	•	•	•	**6	**6	**6
		NAXDKB18A112A*	•	•	•	**6	**6	**6
P-Series	4-way Cassette	PLA-A12EAT				**5	**5	**5
		PLA-A16EAT		•	•	**5	**5	**5
		PLA-A24EAT				**5	**5	**5
		PLA-A30EAT				**5	**5	**5
		PLA-A36EAT				**5	**5	**5
		PLA-A42EAT						
	Ceiling Suspended	PCA-A24KAT			•			
		PCA-A30KAT						
		PCA-A36KAT						
		PCA-A42KAT						
	Horizontal-ducted	PEAD-A12AA7	**3	**3	**3	**6	**6	**6
		PEAD-A18AA7		•	**3	**6	**6	**6
		PEAD-A24AA7			•	**6	**6	**6
		PEAD-A30AA7				**6	**6	**6
		PEAD-A36AA7				**6	**6	**6
		PEAD-A42AA7						

Information is current as of this printing. Minimum installed capacity cannot be less than 12,000 BTU/H. A minimum of two indoor units must be connected to all MX outdoor units.

*2 Only one AMT Model can be connected.

*3 Maximum of two units can be connected unless the SPTB1 is utilized to power the indoor unit.

*4 Single unit can be connected.

*5 When the system includes even 1 unit of PLA-AEAT, the number of the maximum connectable indoor units is decreased as follows: 3 for NAXMPH36A142**, 4 for NAXMPH42A152**, and 6 for NAXMPH48A182**.

*6 Maximum of 3 horizontal ducted indoor units (PEAD or DK8) can be connected.

*7 Maximum of 2 horizontal ducted indoor units (PEAD or DK8) can be connected.

For more information, please refer to the service manual, application 1029 and the full compatibility chart on AmericanStandard.MyLinkDrive.com.

Conditions for Specifications

Temperature conditions are based on AHRI 210/240.

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. 80° F (16° C)
	Outdoor	D.B. 17° F (-8° C), W.B. 15° F (-9° C)

Refrigerant piping length: 16 ft.

The figures for total input are based on the following voltages:

Series	Indoor unit	Outdoor unit
Nv-Series P-Series MX Model	-	208 / 230V • Single phase • 60Hz

Sound pressure level

- 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.

Piping Installation

Nv-Series

Single type

Series	Class <Outdoor unit>	Maximum Piping Length (ft)	Maximum Height Difference (ft)	Maximum Number of Bends
		Total length (A)	Outdoor unit - Indoor unit (H)	Total number
NAXSPH	06/09/12	65	40	10
	15/18	100	50	10
NA(X/Y)SST	09/12/15	65	40	10
	18/24	100	50	10
NAXSMT	09/12/15/18	65	40	10
	24	100	50	10
NAXSPT	09/12	65	40	10
	15/18	100	50	10
NAXSKS/NAXSKH	09/12/15	65	40	10
	18	100	50	10
	24/30/36	100	100	10

P-Series

Single type

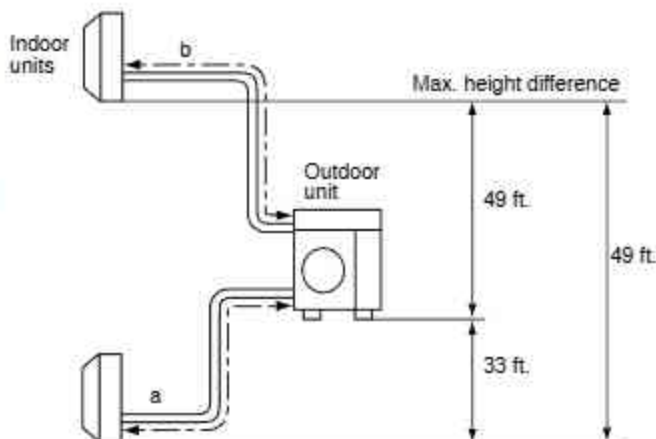
Series	Class <Outdoor unit>	Maximum Piping Length (ft)	Maximum Height Difference (ft)	Maximum Number of Bends
		Total length (A)	Outdoor unit - Indoor unit (H)	Total number
PUY	12/18	165	100	15
	24/30/36/42	225		15
PUZ	12/18	100	100	15
	24/30/36/42	165		15
PUZ-HA	24/30/36/42	245	100	15

MX Model

NAXMMX20A122AA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	82 ft.
Total length (a+b)	164 ft.

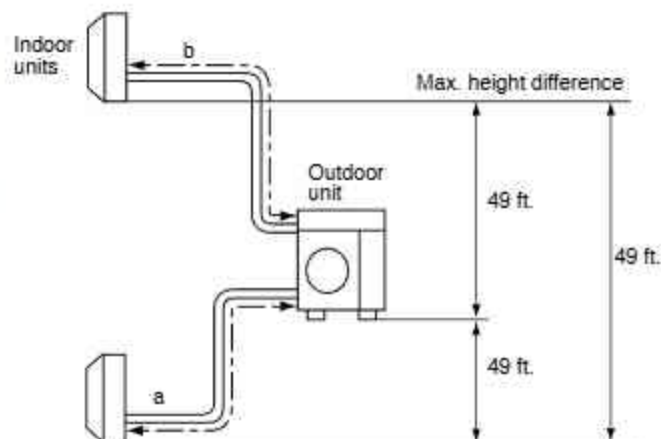
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	25
Total number (a+b)	50



NAXMPH20A122AA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	82 ft.
Total length (a+b)	164 ft.

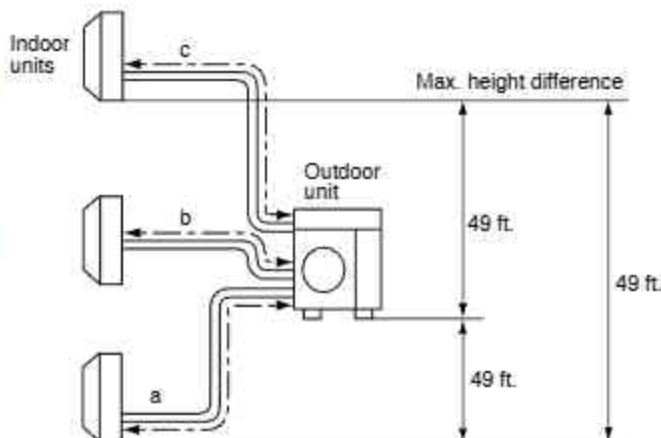
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	25
Total number (a+b)	50



NAXMMX24A132AA, NAXMMX30A132AA, NAXMPH24A132AA, NAXMPH30A132AA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	82 ft.
Total length (a+b+c)	230 ft.

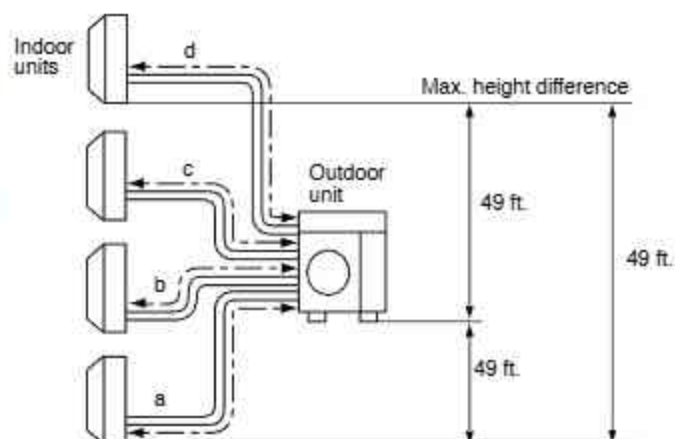
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c)	25
Total number (a+b+c)	70



NAXMMX36A142AA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	82 ft.
Total length (a+b+c+d)	230 ft.

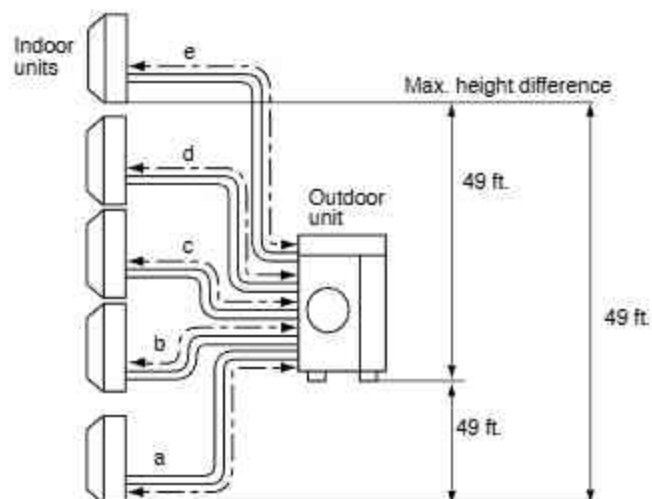
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70



NAXMMX42A152AA

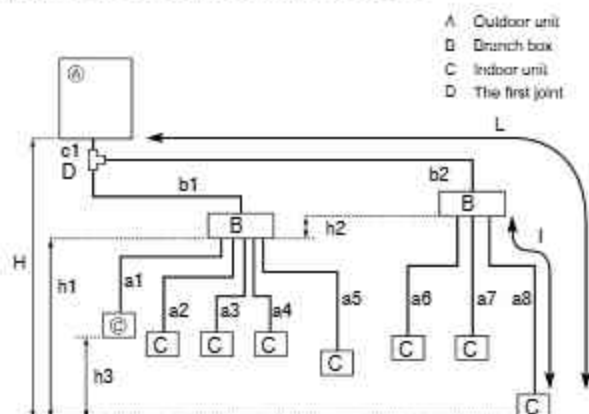
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e)	82 ft.
Total length (a+b+c+d+e)	262 ft.

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



MX Model

NAXMPH36A142AA, NAXMPH42A152AA, NAXMPH48A182AA,
NAXMMX48A182BA, NAXMMX60A182BA



Permissible length (one-way)	Total piping length	$c1 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 150 \text{ m (492 ft.)}$
	Farthest piping length (L) *1	$c1 + b2 + a8 \leq 80 \text{ m (262 ft.)}$
	Piping length between outdoor unit and branch boxes	$c1 + b1 + b2 \leq 55 \text{ m (180 ft.)}$
	Farthest branch box from the first joint (b2)	$b2 \leq 30 \text{ m (98 ft.)}$
	Farthest piping length after branch box (l)	$a8 \leq 25 \text{ m (82 ft.)}$
	Total piping length between branch boxes and indoor units	$a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 95 \text{ m (311 ft.)}$
Permissible height difference (one-way)	In indoor/outdoor section (H) *2	$H \leq 50 \text{ m (164 ft.)}$ (In case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m (131 ft.)}$ (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	$h1 + h2 \leq 15 \text{ m (49 ft.)}$
	In each branch unit (h2)	$h2 \leq 15 \text{ m (49 ft.)}$
	In each indoor unit (h3)	$h3 \leq 12 \text{ m (39 ft.)}$
Number of bends		$ c1 + b1 + a1 , c1 + b1 + a2 , c1 + b1 + a3 , c1 + b1 + a4 , c1 + b1 + a5 , c1 + b2 + a6 , c1 + b2 + a7 , c1 + b2 + a8 \leq 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. (5 m) 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 Branch box should be placed within the level between the outdoor unit and indoor units.

Explanation of 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.

► Total length:

The maximum allowable combined length of all the refrigerant piping between the outdoor unit and indoor unit(s).

► 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.

► Total number:

The maximum allowable number of bends for all refrigerant piping between the outdoor unit and indoor units.

► 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.

To ensure full capacity in cold and snowy regions...

3 IMPORTANT POINTS TO REMEMBER WHEN INSTALLING THE OUTDOOR UNIT



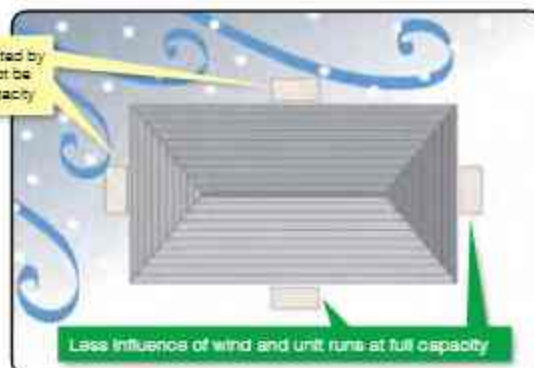
Wind and snow can significantly reduce capacity.

Be sure to check the information below and install the outdoor unit correctly.

1 Installation Location

Be aware of the prevailing wind direction in winter and install the outdoor unit where it is as sheltered as possible.

Units are easily affected by wind and unit may not be able to run at full capacity



2 Measures for Drainage of Water

Case 1: Unit Is Installed close to passage (walkway)

Do not install the unit close to passage as drainage water from the unit may freeze and cause a slipping hazard.



Case 2: Multiple units are Installed

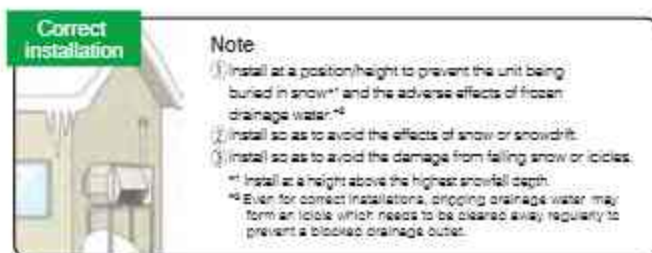
Do not install units on top of one another as it may cause frozen drainage water on the bottom unit.



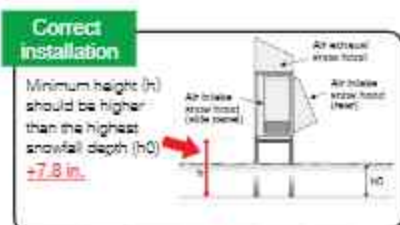
3 Measures for Snow

Do not install the unit on the ground

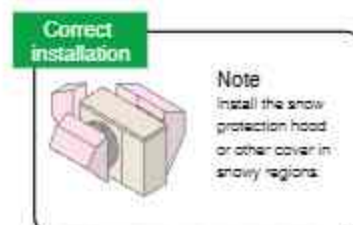
To avoid the adverse effects of snow and frozen drainage water, install the unit on a stand to ensure a sufficient height from the ground.



Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.



Install snow protection hood as necessary



Recommended accessories (drain socket & centralized drain pan, stand, snow protection hood, base heater)

	Snowy region	Cold region	Remarks
	Countermeasures for snow	Countermeasures for freezing	
Drain socket, Centralized drain pan	Not used	Not used	Prevents freezing
Stand	Needed	Needed	1. Install so as to prevent the unit being buried in snow (at a height greater than the highest snowfall depth). Be sure that the stand does not obstruct drainage. 2. Install so as to prevent damage to the unit due to frozen drainage water (icicles).
Snow protection hood	Needed *When the installation position is subject to snowfall.	—	1. Prevents heat exchanger from being covered in snow. 2. Prevents snow accumulating inside the air duct.
Base heater	—	Needed	Outdoor units equipped with a heater for cold regions are those with an "H" in the model name. For the cold-climate zone, use of a unit with a heater is strongly recommended. Even for the moderate-climate zone use of a unit with a heater is recommended for regions subject to high humidity in winter.

CAUTION About disposal of drainage water

When the unit is installed in cold or snowy regions :

Drainage water may freeze in the drain socket/hose and prevent the fan from rotating.

Do not attach a drain socket packaged as an accessory to the unit.

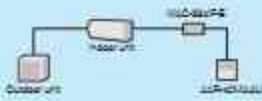
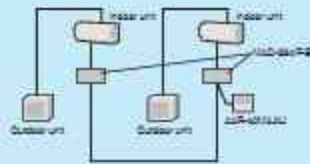
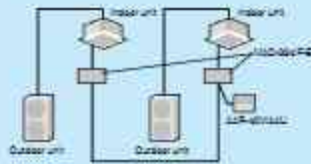
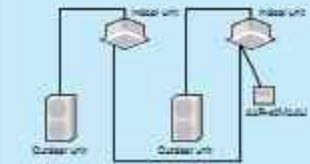
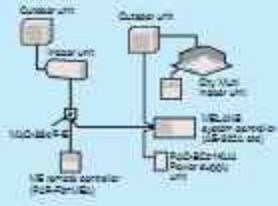
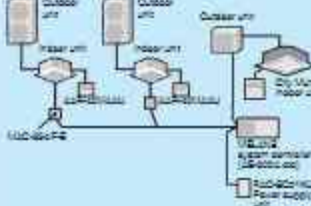
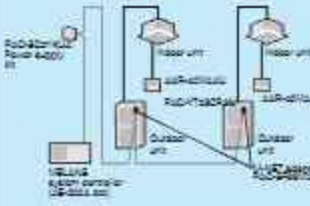
* In the case that fitting a drain socket is absolutely necessary, steps must be taken so that the drainage water does not freeze.
For more information, please consult Mitsubishi Electric Trade HVAC US or one of its dealers/resellers.

Arrangement for snow protection hood

Separately sold parts are available for some models.
Please consult Mitsubishi Electric Trade HVAC US or one of its dealers/resellers at the time of purchase for details.

System Control

Versatile system controls can be achieved by using optional parts, relay circuits, control panels, etc.

		System Examples		
Indoor Unit		NV Series Indoor Unit	DKS, CKS, AMT	P Series Indoor Unit
Outdoor Unit		NV Series and MX Series Outdoor	SKS and MX Series Outdoor	P Series Outdoor
 AAR-40MAAU 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-334FE (Interface) - AAR-40MAAU (Wired remote controller)	AAR-40MAAU (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 MX unit, MAC-334FE is counted as one system.) - Up to two remote controller can be connected.		
	Major Optional Parts Required	- MAC-334FE (Interface) - AAR-40MAAU (Wired remote controller)		AAR-40MAAU (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-334FE (M-NET Interface) - MELANS System controller - PAC-SOS1KUA (power supply unit)		- PAC-SJ05MA-E/PAC-SJ06MA-E (M-NET converter) - MELANS System controller - PAC-SOS1KUA (power supply unit)

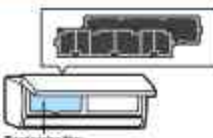
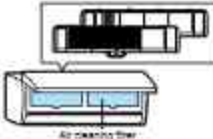
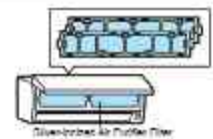
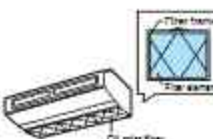
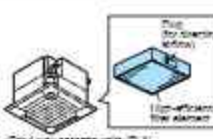
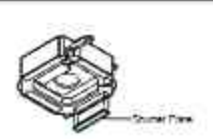
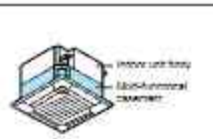
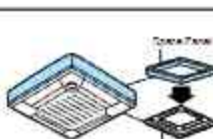
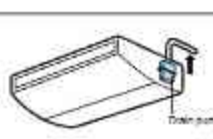
For Nv-Series Indoor Units

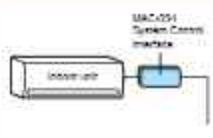
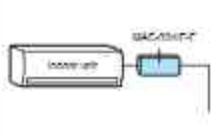
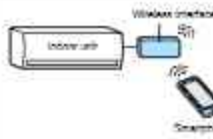
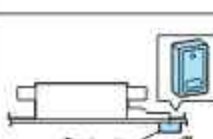
	System Examples	Connection Details	Control Details	Major Optional Parts Required
1 Remote On/Off Operation Air conditioner can be started/stopped remotely. (1) and (2) can be used in combination.		Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	On/Off operation is possible from a remote location.	- MAC-3341F-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-3341F-E (Interface) - Parts for circuit to be purchased locally (DC power source needed) - External power source (12V DC) is required when using MAC-3341F-E

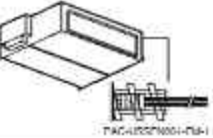
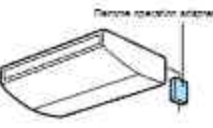
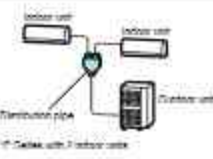
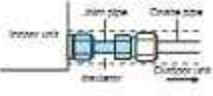
For P-Series and CKS, DKS and AMT Indoor Units

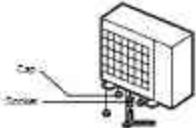
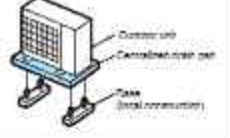
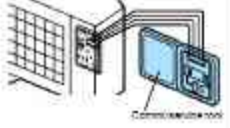
	System Examples		Details	Major Optional Parts Required
	Wired remote controller	Wireless remote controller		
A 2-remote Controller Control With two remote controllers, control can be performed locally and remotely from two locations.	* Set 1st and 2nd remote controllers. (Example of 1 + 1 system)	* When using wired and wireless remote addresses. (Example of Simultaneous Tx/Rx)	- 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: AAP-40MAAL - Wireless Remote Controller: PNH-FU32MA - Wireless Remote Controller Kit for PCA: PNH-SL33U-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-S616HA-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-SAB81A-E / PAC-T25AU (10 pcs. x PAC-SAB81A-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 Tx/Rx)	Operation/emergency signal can be received at a remote location (when channeled through the PAC-SH40HM-E → non-voltage signal, when channeled through the PAC-SAB81A-E → DC 12V signal).	- Remote display panel (to be purchased locally) - Connector cable for remote display: PAC-SAB81A-E / PAC-T25AU (10 pcs. x PAC-SAB81A-E) - Relay box (to be purchased locally) - Remote operation adapter: PAC-SH40HM-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 elapses. 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 AAP-40MAAU

Other Optional Parts

Part Name	Description
Deodorizing Filter Captures small foul-smelling substances in the air.	
Air cleaning Filter Removes fine dust particles from the air by means of static electricity.	
Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other allergens in the air and neutralizes them.	
Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens.	
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	
Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit.	
Multi-functional Casement Casement for fresh-air intake and attaching the high-efficiency filter element (optional).	
Space Panel Decorative cover for the installation when the ceiling height is low.	
Drain Pump Pumps drain water to a point higher than that where the unit is installed.	

Part Name	Description
MAC-334IF-E System Control Interface Interface for connecting with the PAR-40MAAU remote controller and PACYT53CRAU, and to relay operation signals.	
Interface to connect with M-NET controllers.	
kumo cloud® Wireless Interface 2 Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smart phones.	
CN24 Relay Kit This product is an adaptor which inputs the incoming signals from an open/close switch to the air conditioner and outputs the on/off signals from the air conditioner to the back-up heater.	
Deluxe MA Wired Controller Advanced deluxe remote controller with full dot liquid-crystal display and backlight. Equipped with convenient functions like night setback.	
Simple MA Wired Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.	
Remote Controller Terminal Block Kit for PKA The terminal block is used as a relay to wire an indoor unit and to two remote controllers or to wire a remote controller and multiple indoor units in order to perform group control.	
Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit.	
Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit.	

Part Name	Description
Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling-suspended units.	
Control Holder Holder for storing the remote controller.	
Remote Sensor Sensor to detect the room temperature at remote positions.	
PAC-715AD Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.	
Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.	
PAC-725AD Connector Plug for Remote Display Connector used to display the operation status and control on/off function from a distance.	
Distribution Pipe Branch pipe for P Series simultaneous multi-system use, or to connect two branch boxes for MXZ.	
Joint Pipe Part for connecting refrigerant pipes of different diameters.	
Branch Box Outer Cover Casement for branch boxes.	

Part Name	Description
Air Protection Guide/Wind Baffle Protects the outdoor unit from the wind.	
Drain Socket A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe.	
Centralized Drain Pan Catches drain water generated by the outdoor unit.	
M-NET Converter Used to connect P Series A-control models to M-NET controllers.	
Control/Service Tool Monitoring tool to display operation and self-diagnosis data.	
Air Discharge Guide Changes the direction of air being exhausted from the outdoor unit.	

Optional Parts List for Indoor [Nv-Series]

			Wall Mount									
			WPH					MSZ-EF				
			06	08	12	15	18	09NAW (B)(S)	12W (B)(S)	15W (B)(S)	18W (B)(S)	
Filter	Deodorizing Filter	MAC-3000FT-E	*	*	*	*	*					
	Anti-allergy Enzyme Filter	MAC-408FT-E										
	Anti-allergy Enzyme Filter	MAC-1415FT-E										
	Electrostatic Anti-allergy Enzyme Filter	MAC-2330FT-E	*	*	*	*	*					
	Electrostatic Anti-allergy Enzyme Filter	MAC-2330FT-E						*	*	*	*	
	Electrostatic Anti-allergy Enzyme Filter	MAC-2310FT-E										
	High Efficiency (MERV 8) Filter Element	PAC-SB81KF-E										
	High-efficiency Filter Element	PAC-SH55KF-E										
	High-efficiency Filter Element	PAC-SH59KF-E										
	High-efficiency Filter Element	PAC-SH90KF-E										
Filter Box	Filter Box with MERV 8 Filters	FBL 1-1										
	Filter Box with MERV 8 Filters	FBL 1-2										
	Filter Box with MERV 8 Filters	FBL 1-3										
	Filter Box with MERV 13 Filters	FBM2-2-A										
	Filter Box with MERV 13 Filters	FBM2-3-A										
	Filter Box with MERV 13 Filters	FBM2-4-A										
Grille	Grille (required)	ALP-444W										
	Grille (required)	SLP-15AAUW										
	Grille (required)	ALP-15FAU										
I-see Sensor Panel	I-see Sensor™	PAC-SH91MK-E										
	3D I-see Sensor® Corner Panel	PAC-SF1ME-E										
	Grille with 3D I-see Sensor®	ALP-15FAEU										
	Grille with 3D I-see Sensor®	PLP-40EAEU										
Casement	Multi-function Casement	PAC-SJ41TM-E										
Specie Panel	Installation/Trim Panels	PLFY-TP1										
	Installation/Trim Panels	PLFY-TP2										
	Specie Panel	PAC-SJ38AS-E										
Shutter Plate	Shutter Plate	PAC-SJ37SP-E										
Bottom Return Plate	Converts low-profile ducted unit from rear to bottom	BRP-1										
	Converts low-profile ducted unit from rear to bottom	BRP-2										
	Converts low-profile ducted unit from rear to bottom	BRP-3										
Drain Pump	External Drain Pump	PAC-KE07DM-E										
	External Drain Pump	PAC-SH94DM-E										
	External Drain Pump	PAC-SH75DM-E										
	External Drain Pump	PAC-SH94DM-E										
Condensate	Blue Diamond Sensor Extension Cable—15 Ft.	C13-103	*	*	*	*	*	*	*	*	*	
	Blue Diamond Alarm Extension Cable—6.5 Ft.	C13-192	*	*	*	*	*	*	*	*	*	
	Blue Diamond MultiTank—collection tank for use with multiple pumps	C21-014	*	*	*	*	*	*	*	*	*	
	Blue Diamond Rubber Foot Pads	F10-010	*	*	*	*	*	*	*	*	*	
	Mini Condensate Pump—230 volt application	S130-230	*	*	*	*	*	*	*	*	*	
	MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	X87-835 - 110 to 250V	*	*	*	*	*	*	*	*	*	
	MiniBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 45,000 BTU/H (recommended)	X87-711 - 110V	*	*	*	*	*	*	*	*	*	
	Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) (recommended)	X87-721 - 208/230V	*	*	*	*	*	*	*	*	*	
	MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X85-003	*	*	*	*	*	*	*	*	*	
	Peaks Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit	T18-016	*	*	*	*	*	*	*	*	*	
Disconnect Switch	Drain Fan Level Sensor	S8610E	*	*	*	*	*	*	*	*	*	
	(30A/600V/UL) (fits 2" X 4" utility box) - Black	TAZ-M8303	*	*	*	*	*	*	*	*	*	
Terminal Block	(30A/600V/UL) (fits 2" X 4" utility box) - White	TAZ-M8303W	*	*	*	*	*	*	*	*	*	
Electric Heat Lockout	Separate Power Terminal Block Kit	SPTB1										
Downflow Kit	Electric Heat Lockout Control	ETC-211000-MIT										
	Downflow Kit	DFK-8										
	Downflow Kit	DFK-M										
Electric Kit Heats	Condensate Mgmt. Kit for downflow installation	CMA-1										
	3kW Electric Heater	EH03-MPA-S(B)										
	5kW Electric Heater	EH05-MPA-S(B)										
	8kW Electric Heater	EH08-MPA-S(B)										
	3kW Electric Heater	EH03-MPA-M(B)										
	5kW Electric Heater	EH05-MPA-M(B)										
	8kW Electric Heater	EH08-MPA-M(B)										
	3kW Electric Heater	EH03-SVZ-S										
	5kW Electric Heater	EH05-SVZ-S										
	8kW Electric Heater	EH08-SVZ-S										
	3kW Electric Heater	EH03-SVZ-M										
	5kW Electric Heater	EH05-SVZ-M										
	8kW Electric Heater	EH08-SVZ-M										
	10kW Electric Heater	EH10-SVZ-M										
	10kW Electric Heater	EH10-MPA-M(B)										
	10kW Electric Heater	EH10-MPA-L(B)										
	15kW Electric Heater	EH15-MPA-S-L(B)										
	17kW Electric Heater	EH17-MPA-S-L(B)										
Floor Mount Air Guide	Guides air flow for floor mount model when a concealer is used to hide the floor mount.	MAC-760FD-E										

[illegible]

Optional Parts List for Indoor [Nv-Series]

			Floor Mount				EZ FIT™		
			FKS				UKS		
			09	12	15	18	09	12	18
Filter	Deodorizing Filter	MAC-3000FT-E							
	Anti-allergy Enzyme Filter	MAC-408FT-E	*	*	*	*	*	*	*
	Anti-allergy Enzyme Filter	MAC-1418FT-E							
	Electrostatic Anti-allergy Enzyme Filter	MAC-2330FT-E							
	Electrostatic Anti-allergy Enzyme Filter	MAC-2330FT-E							
	Electrostatic Anti-allergy Enzyme Filter	MAC-2310FT-E							
	High Efficiency (MERV-8) Filter Element	PAC-SB81KF-E							
	High-efficiency Filter Element	PAC-SH88KF-E							
	High-efficiency Filter Element	PAC-SH88KF-E							
Filter Box	Filter Box with MERV 8 Filters	FBL-1-1							
	Filter Box with MERV 8 Filters	FBL-1-2							
	Filter Box with MERV 8 Filters	FBL-1-3							
	Filter Box with MERV 13 Filters	FBM2-2-A							
	Filter Box with MERV 13 Filters	FBM2-3-A							
	Filter Box with MERV 13 Filters	FBM2-4-A							
Grille	Grille (required)	ALP-444W					*	*	*
	Grille (required)	SLP-15AAUW							
	Grille (required)	ALP-15FAU							
I-see Sensor Panel	I-see Sensor™	PAC-SH91MK-E							
	3D I-see Sensor® Corner Panel	PAC-SF1ME-E							
	Grille with 3D I-see Sensor®	ALP-15FAU							
	Grille with 3D I-see Sensor®	PLP-40EAEU							
Casement	Multi-function Casement	PAC-SJ41TM-E							
Space Panel	Installation/Trim Panels	PLFY-1TP1							
	Installation/Trim Panels	PLFY-1TP2							
Shutter Plate	Shutter Plate	PAC-SJ37SP-E							
Bottom Return Plate	Converts low-profile ducted unit from rear to bottom	BRP-1							
	Converts low-profile ducted unit from rear to bottom	BRP-2							
	Converts low-profile ducted unit from rear to bottom	BRP-3							
Drain Pump	External Drain Pump	PAC-KE07DM-E							
	External Drain Pump	PAC-SH84DM-E							
	External Drain Pump	PAC-SH75DM-E							
	External Drain Pump	PAC-SH84DM-E							
Condensate	Blue Diamond Sensor Extension Cable—15 Ft.	C13-103	*	*	*	*			
	Blue Diamond Alarm Extension Cable—6.5 Ft.	C13-192	*	*	*	*			
	Blue Diamond MultiTank—collection tank for use with multiple pumps	C21-014	*	*	*	*			
	Blue Diamond Rubber Foot Pads	F10-010	*	*	*	*			
	Mini Condensate Pump—230 volt application	S30-230	*	*	*	*			
	MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	X87-835 - 110 to 250V	*	*	*	*	*	*	*
	MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H (recommended)	X87-711 - 110V	*	*	*	*	*	*	*
	Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) (recommended)	X87-721 - 208/230V	*	*	*	*	*	*	*
	MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X66-003							
	Passive Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit	T18-016							
Disconnect Switch	(30A/600V/UL) (fits 2" X 4" utility box) - Black	TAZ-M8303	*	*	*	*	*	*	*
	(30A/600V/UL) (fits 2" X 4" utility box) - White	TAZ-M8303W	*	*	*	*	*	*	*
Terminal Block	Separate Power Terminal Block Kit	SPTB1							
Electric Heat Lockout	Electric Heat Lockout Control	ETC-211000-M/T							
Downflow Kit	Downflow Kit	DFK-S							
	Downflow Kit	DFK-M							
	Condensate Mgmt. Kit for downflow installation	CMA-1							
Electric Kit Heats	3kW Electric Heater	EH03-MPA-B(B)							
	5kW Electric Heater	EH05-MPA-B(B)							
	8kW Electric Heater	EH08-MPA-B(B)							
	3kW Electric Heater	EH03-MPA-M(B)							
	5kW Electric Heater	EH05-MPA-M(B)							
	8kW Electric Heater	EH08-MPA-M(B)							
	3kW Electric Heater	EH03-SVZ-S							
	5kW Electric Heater	EH05-SVZ-S							
	8kW Electric Heater	EH08-SVZ-S							
	5kW Electric Heater	EH05-SVZ-M							
	8kW Electric Heater	EH08-SVZ-M							
	10kW Electric Heater	EH10-SVZ-M							
	10kW Electric Heater	EH10-MPA-M(B)							
	10kW Electric Heater	EH10-MPA-L(B)							
	15kW Electric Heater	EH15-MPA-B-L(B)							
	17kW Electric Heater	EH17-MPA-B-L(B)							
Floor Mount Air Guide	Guides air flow for floor mount model when a concealer is used to hide the floor mount.	MAC-750FD-E	*	*	*	*			

[illegible]

Optional Parts List for Indoor [P-Series]

			Wall Mount					Ceiling-suspended			
			PKA					PCA-			
			A12HA7	A13HA7	A24KA7	A30KA7	A36KA7	A24KA7	A30KA7	A36KA7	A42KA7
Filter	Deodorizing Filter	MAC-3000FT-E									
	Anti-allergy Enzyme Filter	MAC-408FT-E									
	Anti-allergy Enzyme Filter	MAC-1418FT-E									
	Electrostatic Anti-allergy Enzyme Filter	MAC-2330FT-E									
	Electrostatic Anti-allergy Enzyme Filter	MAC-2320FT-E									
	Electrostatic Anti-allergy Enzyme Filter	MAC-2310FT-E									
	High Efficiency (MERV-8) Filter Element	PAC-8881KF-E						•	•	•	•
	High-efficiency Filter Element	PAC-8H88KF-E									
	High-efficiency Filter Element	PAC-8H88KF-E						•	•		
Filter Box	Filter Box with MERV-8 Filters	FBL-1-1									
	Filter Box with MERV-8 Filters	FBL-1-2									
	Filter Box with MERV-8 Filters	FBL-1-3									
	Filter Box with MERV-13 Filters	FBM2-2-A									
	Filter Box with MERV-13 Filters	FBM2-3-A									
	Filter Box with MERV-13 Filters	FBM2-4-A									
Grille	Grille (required)	ALP-444W									
	Grille (required)	SLP-15AAUW									
	Grille (required)	ALP-15FAU									
I-see Sensor Panel	I-see Sensor™	PAC-8H91MK-E						•	•	•	•
	3D I-see Sensor® Corner Panel	PAC-8F1ME-E									
	Grille with 3D I-see Sensor®	ALP-15FAU									
	Grille with 3D I-see Sensor®	PLP-40EAEU									
Casement	Multi-function Casement	PAC-8J41TM-E									
Space Panel	Installation/Trim Panels	PLFY-1TP1									
	Installation/Trim Panels	PLFY-1TP2									
Space Panel	Space Panel	PAC-8J38A8-E									
Shutter Plate	Shutter Plate	PAC-8J378P-E									
Bottom Return Plate	Converts low-profile ducted unit from rear to bottom	BRP-1									
	Converts low-profile ducted unit from rear to bottom	BRP-2									
	Converts low-profile ducted unit from rear to bottom	BRP-3									
Drain Pump	External Drain Pump	PAC-KE07DM-E									
	External Drain Pump	PAC-8H84DM-E			•	•	•				
	External Drain Pump	PAC-8H75DM-E	•	•							
	External Drain Pump	PAC-8H84DM-E						•	•	•	•
Condensate	Blue Diamond Sensor Extension Cable—15 Ft.	C13-103	•	•	•	•	•	•	•	•	•
	Blue Diamond Alarm Extension Cable—6.5 Ft.	C13-192									
	Blue Diamond MultiTank—collection tank for use with multiple pumps	C21-014									
	Blue Diamond Rubber Foot Pads	F10-010									
	Mini Condensate Pump—230 volt application	S30-230	•	•	•	•	•				
	MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	X87-835 - 110 to 250V	•	•	•	•	•	•	•	•	•
	MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H (recommended)	X87-711 - 110V									
	Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) (recommended)	X87-721 - 208/230V	•	•	•	•	•	•	•	•	•
	MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X88-003	•	•							
	Passive Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit	T18-016	•	•							
Disconnect Switch	(30A/600V/UL) (fits 2" X 4" utility box) - Black	TAZ-M8303	•	•	•	•	•	•	•	•	•
	(30A/600V/UL) (fits 2" X 4" utility box) - White	TAZ-M8303W	•	•	•	•	•	•	•	•	•
Terminal Block	Separate Power Terminal Block Kit	SPTB1									
Electric Heat Lockout	Electric Heat Lockout Control	ETC-211000-M/T									
Downflow Kit	Downflow Kit	DFK-8									
	Downflow Kit	DFK-M									
	Condensate Mgmt. Kit for downflow installation	CMA-1									
Electric Kit Heats	3kW Electric Heater	EH03-MPA-B(B)									
	5kW Electric Heater	EH05-MPA-B(B)									
	8kW Electric Heater	EH08-MPA-B(B)									
	3kW Electric Heater	EH03-MPA-M(B)									
	5kW Electric Heater	EH05-MPA-M(B)									
	8kW Electric Heater	EH08-MPA-M(B)									
	3kW Electric Heater	EH03-SVZ-B									
	5kW Electric Heater	EH05-SVZ-B									
	8kW Electric Heater	EH08-SVZ-B									
	5kW Electric Heater	EH05-SVZ-M									
	8kW Electric Heater	EH08-SVZ-M									
	10kW Electric Heater	EH10-SVZ-M									
	10kW Electric Heater	EH10-MPA-M(B)									
	10kW Electric Heater	EH10-MPA-L(B)									
	15kW Electric Heater	EH15-MPA-B-L(B)									
	17kW Electric Heater	EH17-MPA-B-L(B)									
Floor Mount Air Guide	Guides air flow for floor mount model when a concealer is used to hide the floor mount.	MAC-750FD-E									

*1: 2 pieces required. *2: PEAD12/BUZ-KA12NAR1

Optional Parts List for Outdoor [Nv-Series]

			BFH					SPB				
			06	09	12	15	18	06	09	12		
Distribution pipe	Twinning Distribution Pipe (50-50)	M800-50TR-E										
Distribution pipe for Branch box	Flare Connection Braze	M800-50AR-E M800-50BR-E										
Port Adapter	Port Adapter size: 3/8" x 5/8"	PAC-8GT6R-E										
	Port Adapter size: 1/4" x 3/8"	PAC-493PI										
	Port Adapter size: 3/8" x 1/2"	MAC-A454JP-E										
	Port Adapter size: 1/2" x 3/8"	MAC-A455JP-E										
	Port Adapter size: 1/2" x 5/8"	MAC-A456JP-E										
Branch Box	Branch Box	ADP5834										
	Branch Box	TAC-MKA32BC										
	Branch Box Outer Cover	TAC-MKA32BC BBE-1										
Air Outlet Guide	Air Outlet Guide	MAC-8818G	*	*	*			*	*	*		
	Air Outlet Guide	MAC-8868G-E				*	*					
	Air Outlet Guide	MAC-8868G										
	Air Outlet Guide	PAC-8H68G-E										
	Air Outlet Guide	PAC-8J018G-E										
Front Wind Baffle	Front Wind Baffle	PAC-8G99G-E										
	Front Wind Baffle	WB-PA3										
	Front Wind Baffle	WB-PA4 WB-PA5										
Rear Advanced Wind Baffle	Rear Advanced Wind Baffle	WB-RE4										
	Rear Advanced Wind Baffle	WB-RE5										
	Rear Advanced Wind Baffle	WB-RE6										
Side Advanced Wind Baffle	Side Advanced Wind Baffle	WB-SD4										
	Side Advanced Wind Baffle	WB-SD5										
	Side Advanced Wind Baffle	WB-SD6										
Drain Socket	Drain Socket (1st-gen)	PAC-8F37DS-E										
	Drain Socket	PAC-8G60DS-E										
	Drain Socket	PAC-8G61DS-E										
	Drain Socket	MAC-860DS	*	*	*	*	*					
	Drain Socket	MAC-811DS MAC-861DS										
Optional Defrost Heater	Drain Socket (6-gen)	PAC-8H71DS-E										
	Drain Socket	PAC-8J08DS-E										
	Optional Defrost Heater	MAC-840BH-U	*	*	*							
	Optional Defrost Heater	MAC-841BH-U										
	Optional Defrost Heater	MAC-842BH-U1				*	*					
Centralized Drain Pan	Optional Defrost Heater	PAC-845BH-E										
	Optional Defrost Heater	PAC-846BH-E										
	Optional Defrost Heater	PAC-8J08BH-E										
	Centralized Drain Pan	PAC-8H97DP-E										
	Centralized Drain Pan	PAC-8G63DP-E										
M-NET Converter	Centralized Drain Pan	PAC-8G64DP-E										
	M-NET Converter	PAC-IF01MNT-E										
	M-NET Converter	PAC-8J19MA-E										
	M-NET Converter	PAC-8J35MA-E										
	M-NET Converter	PAC-8J96MA-E										
Control/Service Tool	M-NET Converter	PAC-8J95MA-E										
	Control/Service Tool	PAC-8K52T										
Ball Valve	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/2" size	BV12FF8I2										
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/4" size	BV14FF8I2										
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 3/8" size	BV38FF8I2										
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 5/8" size	BV58FF8I2										
Hall Guards	Hall Guard	HG-A1										
	Hall Guard	HG-A2										
	Hall Guard	HG-A3										
	Hall Guard	HG-B4	*	*	*			*	*	*		
	Hall Guard	HG-A5										
Outdoor Unit Mounting Pad	Hall Guard	HG-A6				*	*					
	Hall Guard	HG-A7										
	Hall Guard	HG-A8										
	Hall Guard	HG-A9										
Outdoor Unit Stand	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	D80-400P	*	*	*	*	*	*	*	*		
	Condensing Unit Mounting Pad 16" x 36" x 3"	ULTRILITE1	*	*	*	*	*	*	*	*		
	Condensing Unit Mounting Pad 24" x 42" x 3"	ULTRILITE2										
	Outdoor Unit Stand — 12" High	Q8M81201M	*	*	*	*	*	*	*	*		
	Outdoor Unit Stand — 18" High	Q8M81801M	*	*	*	*	*	*	*	*		
Wall Bracket	Outdoor Unit Stand — 24" High	Q8M82401M	*	*	*	*	*	*	*	*		
	Outdoor Unit Stand — 12" High	Q8M81202M										
	Outdoor Unit Stand — 18" High	Q8M81802M										
	Outdoor Unit Stand — 24" High	Q8M82402M										
	Heavy Duty Wall Mounting Bracket — Coated Steel	Q8WB200M-1	*	*	*	*	*	*	*	*		
Lineset	Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	Q8WB89	*	*	*	*	*	*	*	*		
	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-15	*	*	*			*	*	*		
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-30	*	*	*			*	*	*		
	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-50	*	*	*			*	*	*		
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-65	*	*	*			*	*	*		
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-15				*	*					
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-30				*	*					
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-50				*	*					
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-65				*	*					
	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-100				*	*					
	10' x 3/8" x 10' / 5/8" Lineset (Twin-Tube Insulation)	MPL8388812T-10										
	15' x 3/8" x 15' / 5/8" Lineset (Twin-Tube Insulation)	MPL8388812T-15										
	30' x 3/8" x 30' / 5/8" Lineset (Twin-Tube Insulation)	MPL8388812T-30										
	50' x 3/8" x 50' / 5/8" Lineset (Twin-Tube Insulation)	MPL8388812T-50										
	65' x 3/8" x 65' / 5/8" Lineset (Twin-Tube Insulation)	MPL8388812T-65										
	100' x 3/8" x 100' / 5/8" Lineset (Twin-Tube Insulation)	MPL8388812T-100										
	15' x 3/8" x 15' / 3/4" Lineset (Twin-Tube Insulation)	MPL8388812T-15										
	30' x 3/8" x 30' / 3/4" Lineset (Twin-Tube Insulation)	MPL8388812T-30										

*1 2 pieces required, *2 PEAD12/8U2-KA12NAR1

[illegible]

Optional Parts List for Outdoor [Nv-Series]

			SBT Cooling Only		SPF				BMT 115V	
			30	36	09	12	15	18	09	12
Distribution pipe	Twinning Distribution Pipe (50/50)	M800-50TR-E								
Distribution pipe for Branch box	Flare Connection Brazeed	M800-50AR-E M800-50BR-E								
Port Adapter	Port Adapter size: 3/8" x 5/8"	PAC-8G75RJ-E								
	Port Adapter size: 1/4" x 3/8"	PAC-493PI								
	Port Adapter size: 3/8" x 1/2"	MAC-A454JP-E								
	Port Adapter size: 1/2" x 3/8"	MAC-A455JP-E								
	Port Adapter size: 1/2" x 5/8"	MAC-A456JP-E								
Branch Box	Branch Box	ADPS834								
	Branch Box	TAC-MKA52BC								
	Branch Box Outer Cover	TAC-MKA32BC BBE-1								
Air Outlet Guide	Air Outlet Guide	MAC-8818G			*	*			*	*
	Air Outlet Guide	MAC-8868G-E					*	*		
	Air Outlet Guide	MAC-8868G								
	Air Outlet Guide	PAC-8H968G-E								
	Air Outlet Guide	PAC-8J018G-E								
Front Wind Baffle	Front Wind Baffle	PAC-8G998G-E								
	Front Wind Baffle	WB-PA3								
	Front Wind Baffle	WB-PA4 WB-PA5								
Rear Advanced Wind Baffle	Rear Advanced Wind Baffle	WB-RE4								
	Rear Advanced Wind Baffle	WB-RE5								
	Rear Advanced Wind Baffle	WB-RE6								
Side Advanced Wind Baffle	Side Advanced Wind Baffle	WB-SD4								
	Side Advanced Wind Baffle	WB-SD5								
	Side Advanced Wind Baffle	WB-SD6								
Drain Socket	Drain Socket (1st-gen)	PAC-8F37DS-E								
	Drain Socket	PAC-8G60DS-E								
	Drain Socket	PAC-8G61DS-E								
	Drain Socket	MAC-860DS							*	*
	Drain Socket	MAC-811DS	*	*						
	Drain Socket	MAC-861DS								
	Drain Socket (6-gen)	PAC-8H71DS-E								
Optional Defrost Heater	Optional Defrost Heater	PAC-8J08DS-E								
	Optional Defrost Heater	MAC-840BH-U								
	Optional Defrost Heater	MAC-841BH-U								
	Optional Defrost Heater	MAC-842BH-U1								
	Optional Defrost Heater	PAC-845BH-E								
Centralized Drain Pan	Centralized Drain Pan	PAC-8J08BH-E								
	Centralized Drain Pan	PAC-8H97DP-E								
	Centralized Drain Pan	PAC-8G63DP-E								
M-NET Converter	M-NET Converter	PAC-8G64DP-E								
	M-NET Converter	PAC-IF01MNT-E								
	M-NET Converter	PAC-8J19MA-E								
	M-NET Converter	PAC-8J85MA-E								
	M-NET Converter	PAC-8J96MA-E								
Control/Service Tool	Control/Service Tool	PAC-8J95MA-E								
Ball Valve	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/2" size	PAC-8KS2ST								
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/4" size	BV12FF8I2								
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 3/8" size	BV14FF8I2								
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 5/8" size	BV38FF8I2								
Hail Guards	Hail Guard	BV58FF8I2								
	Hail Guard	HG-A1								
	Hail Guard	HG-A2								
	Hail Guard	HG-A3								
	Hail Guard	HG-B4			*	*			*	*
	Hail Guard	HG-A5								
	Hail Guard	HG-A6					*	*		
Outdoor Unit Mounting Pad	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	HG-A7								
	Condensing Unit Mounting Pad 16" x 36" x 3"	HG-A8								
	Condensing Unit Mounting Pad 24" x 42" x 3"	HG-A9								
Outdoor Unit Stand	Outdoor Unit Stand — 12" High	DSO-400P	*	*	*	*	*	*	*	*
	Outdoor Unit Stand — 18" High	ULTRILITE1	*	*	*	*	*	*	*	*
	Outdoor Unit Stand — 24" High	ULTRILITE2								
	Outdoor Unit Stand — 12" High	Q8M81201M	*	*	*	*	*	*	*	*
	Outdoor Unit Stand — 18" High	Q8M81801M	*	*	*	*	*	*	*	*
	Outdoor Unit Stand — 24" High	Q8M82401M	*	*	*	*	*	*	*	*
Wall Bracket	Heavy Duty Wall Mounting Bracket — Coated Steel	Q8M81202M								
	Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	Q8M81802M								
	Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	Q8M82402M								
Lineset	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	Q8WB200M-1	*	*	*	*	*	*	*	*
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	Q8WB89	*	*	*	*	*	*	*	*
	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-15			*	*			*	*
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-30			*	*			*	*
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	MLB143812T-50			*	*			*	*
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	MLB143812T-65			*	*			*	*
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-15					*	*		
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-30					*	*		
	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-50					*	*		
	10' x 3/8" x 10' / 5/8" Lineset (Twin-Tube Insulation)	MLB141212T-65					*	*		
	15' x 3/8" x 15' / 5/8" Lineset (Twin-Tube Insulation)	MLB141212T-100					*	*		
	30' x 3/8" x 30' / 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-15	*	*						
	50' x 3/8" x 50' / 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-30	*	*						
	65' x 3/8" x 65' / 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-50	*	*						
	100' x 3/8" x 100' / 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-65	*	*						
	15' x 3/8" x 15' / 3/4" Lineset (Twin-Tube Insulation)	MPL8385812T-100	*	*						
	30' x 3/8" x 30' / 3/4" Lineset (Twin-Tube Insulation)	MPL8383412T-15								
	50' x 3/8" x 50' / 3/4" Lineset (Twin-Tube Insulation)	MPL8383412T-30								
	65' x 3/8" x 65' / 3/4" Lineset (Twin-Tube Insulation)	MPL8383412T-50								

*1 2 pieces required, *2 PEAD12/6U2-KA12NAR1

[illegible]

Optional Parts List for Outdoor [Nv-Series]

			SKU		
			08	12	15
Distribution pipe	Twinning Distribution Pipe (50-50)	M800-50TR-E			
Distribution pipe for Branch box	Flare Connection	M800-50AR-E			
	Brazed	M800-50BR-E			
Port Adapter	Port Adapter size: 3/8" x 3/8"	PAC-8075RJ-E			
	Port Adapter size: 1/4" x 3/8"	PAC-493P1			
	Port Adapter size: 3/8" x 1/2"	MAC-A484JP-E			
	Port Adapter size: 1/2" x 3/8"	MAC-A455JP-E			
	Port Adapter size: 1/2" x 5/8"	MAC-A456JP-E		*12	
	Port Adapter size: 5/8" x 3/4"	ADP5834			
Branch Box	Branch Box	TAC-MKA52BC			
	Branch Box	TAC-MKA32BC			
	Branch Box Outer Cover	BBE-1			
Air Outlet Guide	Air Outlet Guide	MAC-8818G	*	*	*
	Air Outlet Guide	MAC-8868G-E			
	Air Outlet Guide	MAC-8868G			
	Air Outlet Guide	PAC-8H68G-E			
	Air Outlet Guide	PAC-8J078G-E			
	Air Outlet Guide	PAC-8Q58G-E			
Front Wind Baffle	Front Wind Baffle	WB-PA3			
	Front Wind Baffle	WB-PA4			
	Front Wind Baffle	WB-PA5			
Rear Advanced Wind Baffle	Rear Advanced Wind Baffle	WB-RE4			
	Rear Advanced Wind Baffle	WB-RE5			
	Rear Advanced Wind Baffle	WB-RE6			
Side Advanced Wind Baffle	Side Advanced Wind Baffle	WB-SD4			
	Side Advanced Wind Baffle	WB-SD5			
	Side Advanced Wind Baffle	WB-SD6			
Drain Socket	Drain Socket (1st-gen)	PAC-8F37DS-E			
	Drain Socket	PAC-8G60DS-E			
	Drain Socket	PAC-8G61DS-E			
	Drain Socket	MAC-880DS			
	Drain Socket	MAC-811DS			
	Drain Socket	MAC-851DS			
	Drain Socket (E-gen)	PAC-8H71DS-E			
	Drain Socket	PAC-8J03DS-E			
Optional Defrost Heater	Optional Defrost Heater	MAC-840BH-U	*	*	*
	Optional Defrost Heater	MAC-841BH-U			
	Optional Defrost Heater	MAC-842BH-U1			
	Optional Defrost Heater	PAC-845BH-E			
	Optional Defrost Heater	PAC-845BH-E			
	Optional Defrost Heater	PAC-8J03BH-E			
Centralized Drain Pan	Centralized Drain Pan	PAC-8H97DP-E			
	Centralized Drain Pan	PAC-8G63DP-E			
	Centralized Drain Pan	PAC-8G64DP-E			
M-NET Converter	M-NET Converter	PAC-IF01MNT-E			
	M-NET Converter	PAC-8J19MA-E			
	M-NET Converter	PAC-8J85MA-E			
	M-NET Converter	PAC-8J86MA-E			
	M-NET Converter	PAC-8J89MA-E			
Control/Service Tool	Control/Service Tool	PAC-8K52ST			
Ball Valve	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/2" size	BV12FF812			
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/4" size	BV14FF812			
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 3/8" size	BV38FF812			
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 5/8" size	BV58FF812			
Hail Guards	Hail Guard	HG-A1			
	Hail Guard	HG-A2			
	Hail Guard	HG-A3			
	Hail Guard	HG-B4	*	*	*
	Hail Guard	HG-A5			
	Hail Guard	HG-A6			
	Hail Guard	HG-A7			
	Hail Guard	HG-A8			
Outdoor Unit Mounting Pad	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	D8D-400P	*	*	*
	Condensing Unit Mounting Pad 16" x 36" x 3"	ULTRILITE1	*	*	*
	Condensing Unit Mounting Pad 24" x 42" x 3"	ULTRILITE2			
Outdoor Unit Stand	Outdoor Unit Stand — 12" High	Q8M81201M	*	*	*
	Outdoor Unit Stand — 18" High	Q8M81801M	*	*	*
	Outdoor Unit Stand — 24" High	Q8M82401M	*	*	*
	Outdoor Unit Stand — 12" High	Q8M81202M			
	Outdoor Unit Stand — 18" High	Q8M81802M			
	Outdoor Unit Stand — 24" High	Q8M82402M			
Wall Bracket	Heavy Duty Wall Mounting Bracket—Coated Steel	Q8WB2000M-1	*	*	*
	Heavy Duty Wall Mounting Bracket—316 Series Stainless Steel	Q8WB88	*	*	*
Lineset	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	MLB143612T-15	*	*	*
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	MLB143612T-30	*	*	*
	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLB143612T-50	*	*	*
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLB143612T-65	*	*	*
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-15			
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-30			
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-50			
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-65			
	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-100			
	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-10			
	15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-15			
	30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-30			
	50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-50			
	65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-65			
	100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-100			
	15' x 3/8" x 15' / 3/4" Lineset (Twin-Tube Insulation)	MPL8383412T-15			
	50' x 3/8" x 50' / 3/4" Lineset (Twin-Tube Insulation)	MPL8383412T-50			

*1 2 pieces required, *2 READ12/8U2-KA12NAR1

[illegible]

Optional Parts List for Outdoor [P-Series]

			PUY-A					
			12NKA7 (-BS)	18NKA7 (-BS)	24NHA7 (-BS)	30NHA7 (-BS)	36NKA7 (-BS)	42NKA7 (-BS)
Distribution pipe	Twinning Distribution Pipe (50-50)	M8DD-50TR-E						
Distribution pipe for Branch box	Flare Connection	M8DD-50AR-E						
	Brazed	M8DD-50BR-E						
Port Adapter	Port Adapter size: 3/8" x 5/8"	PAC-5075R-E						
	Port Adapter size: 1/4" x 3/8"	PAC-493P1						
	Port Adapter size: 3/8" x 1/2"	MAC-A454JP-E						
	Port Adapter size: 1/2" x 3/8"	MAC-A455JP-E						
	Port Adapter size: 1/2" x 5/8"	MAC-A456JP-E						
	Port Adapter size: 5/8" x 3/4"	ADP5834						
Branch Box	Branch Box	TAC-MKA52BC						
	Branch Box	TAC-MKA32BC						
Branch Box Outer Cover		BBS-1						
Air Outlet Guide	Air Outlet Guide	MAC-8818G						
	Air Outlet Guide	MAC-8868G-E						
	Air Outlet Guide	MAC-8868G						
	Air Outlet Guide	PAC-8H988Q-E						
	Air Outlet Guide	PAC-8J078Q-E						
	Air Outlet Guide	PAC-8G988Q-E						
Front Wind Baffle	Front Wind Baffle	WB-PA3						
	Front Wind Baffle	WB-PA4						
	Front Wind Baffle	WB-PA5						
Rear Advanced Wind Baffle	Rear Advanced Wind Baffle	WB-RE4						
	Rear Advanced Wind Baffle	WB-RE5						
	Rear Advanced Wind Baffle	WB-RE6						
Side Advanced Wind Baffle	Side Advanced Wind Baffle	WB-SD4						
	Side Advanced Wind Baffle	WB-SD5						
	Side Advanced Wind Baffle	WB-SD6						
Drain Socket	Drain Socket (1st-gen)	PAC-8F3708-E						
	Drain Socket	PAC-8G6008-E						
	Drain Socket	PAC-8G6108-E						
	Drain Socket	MAC-880D8						
	Drain Socket	MAC-811D8						
	Drain Socket	MAC-851D8						
Optional Defrost Heater	Optional Defrost Heater	PAC-8H7108-E						
	Optional Defrost Heater	PAC-8J0808-E						
	Optional Defrost Heater	MAC-840BH-U						
	Optional Defrost Heater	MAC-841BH-U						
	Optional Defrost Heater	MAC-842BH-U1						
	Optional Defrost Heater	PAC-845BH-E						
Centralized Drain Pan	Centralized Drain Pan	PAC-8J208H-E						
	Centralized Drain Pan	PAC-8H970P-E						
	Centralized Drain Pan	PAC-8G630P-E						
	Centralized Drain Pan	PAC-8G640P-E						
	Centralized Drain Pan	PAC-8J19MA-E						
	Centralized Drain Pan	PAC-8J55MA-E						
M-NET Converter	M-NET Converter	PAC-8J55MA-E						
	M-NET Converter	PAC-8J55MA-E						
	M-NET Converter	PAC-8J55MA-E						
	M-NET Converter	PAC-8J55MA-E						
Control/Service Tool	Control/Service Tool	PAC-8K328T						
Ball Valve	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/2" size	BV12FF812						
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 1/4" size	BV14FF812						
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 3/8" size	BV38FF812						
	Refrigeration Ball Valve-Flare/Schrader/Insulated — 5/8" size	BV58FF812						
Hail Guards	Hail Guard	HG-A1						
	Hail Guard	HG-A2						
	Hail Guard	HG-A3						
	Hail Guard	HG-B4						
	Hail Guard	HG-A5						
	Hail Guard	HG-A6						
	Hail Guard	HG-A7						
	Hail Guard	HG-A8						
Outdoor Unit Mounting Pad	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	D8D-400P						
	Condensing Unit Mounting Pad 16" x 36" x 3"	ULTRILITE1						
	Condensing Unit Mounting Pad 24" x 42" x 3"	ULTRILITE2						
	Outdoor Unit Stand — 12" High	Q8M81201M						
Outdoor Unit Stand	Outdoor Unit Stand — 15" High	Q8M81501M						
	Outdoor Unit Stand — 24" High	Q8M82401M						
	Outdoor Unit Stand — 12" High	Q8M81202M						
	Outdoor Unit Stand — 15" High	Q8M81502M						
Well Bracket	Heavy Duty Wall Mounting Bracket—Coated Steel	Q8M82402M						
	Heavy Duty Wall Mounting Bracket—316 Series Stainless Steel	Q8M82000M-1						
	Heavy Duty Wall Mounting Bracket—316 Series Stainless Steel	Q8M888						
	Heavy Duty Wall Mounting Bracket—316 Series Stainless Steel	Q8M888						
Lineset	15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-15						
	30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-30						
	50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-50						
	65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	MLB143812T-65						
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-15						
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-30						
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-50						
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-65						
	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	MLB141212T-100						
	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-10						
	15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-15						
	30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-30						
	50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-50						
	65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-65						
	100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	MPL8385812T-100						
	15' x 3/8" x 15' / 3/4" Lineset (Twin-Tube Insulation)	MPL8383412T-15						
	50' x 3/8" x 50' / 3/4" Lineset (Twin-Tube Insulation)	MPL8383412T-50						

*1 2 pieces required, *2 P8AD12/8U2-KA12NAR1

[illegible]

Optional Parts List for Controllers

			Wall Mount									
			WPH					MSZ-EF				
			06	09	12	15	18	09NAW (B)(S)	12NAW (B)(S)	15NAW (B)(S)		
Wireless Signal Receiver	Wireless Signal Receiver	PAR-SA5CA-E										
	Wireless Signal Receiver	PAR-FA32MA-W										
	Wireless Signal Receiver	PAR-FA32MA-E										
	Wireless Remote Receiver Panel	PAR-SF5FA-E										
	Wireless Remote Receiver Panel	PAR-SR3LA-E										
	Remote Controller Holder	U01A01083										
Wireless Remote Controller	Wireless Remote Controller	PAR-SL100A-E										
	Wireless Remote Controller	PAR-FL32MA-E										
	Controller Kit (Sender & Receiver)	PAR-SLS3B-E										
	Controller Kit with i-see Sensor™	PAR-SA92MW-E										
	kumo touch™ Backlit, Wall-mounted, Wireless Controller	MHK2	*	*	*	*	*	*	*	*	*	*
Wired Remote Controller	Deluxe MA Remote Controller	AAR-40MAAU	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
	Simple MA Controller	PAC-YT33CRAU-J	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
	Touch MA Controller	PAR-OTD1MAU-8B	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1
	Airzone ZBS Wired Blueface Principal Controller White	AZZB8BLUEFACECB										
	Airzone ZBS Wired Think Controller White	AZZB8THINKCB										
	Airzone ZBS Wireless Think Controller White	AZZB8THINKRB										
	Airzone ZBS Wired Lite Controller White	AZZB8LITECB										
	Airzone ZBS Wireless Lite Controller White	AZZB8LITERB										
Remote Sensor	Wired Remote Sensor	PAC-SE41TS-E										
	Wired Remote Sensor	M21EAA307	*	*	*	*	*	*	*	*	*	*
	Wireless Temperature and Humidity Sensor	PAC-UBWH8003-TH-1	*	*	*	*	*	*	*	*	*	*
	Flush Mount Remote Temperature Sensor	PAC-UBSEN001-FM-1										
Interface	System Control Interface	MAC-3334P-E	*3	*3	*3	*3	*3	*3	*3	*3	*3	*3
	Wireless interface 2	PAC-UBWH8003-WF-2	*	*	*	*	*	*	*	*	*	*
	Thermostat Interface	PAC-UB444CN-1	*	*	*	*	*	*	*	*	*	*
	kumo station®	PAC-WH801HC-E	*	*	*	*	*	*	*	*	*	*
	USNAP Interface	PAC-WH801UP-E	*	*	*	*	*	*	*	*	*	*
	IT Extender	PAC-WH801IE-E	*	*	*	*	*	*	*	*	*	*
	BACnet® and MODBUS® interface	PAC-UKPROC001-CN-1	*	*	*	*	*	*	*	*	*	*
	External Fan / Heater Control Relay Adapter	CN34RELAY-KIT-CM3	*	*	*	*	*					
	Wire for Remote on/off with CN32 connector	PAC-T15AD										
	Connector and wire for Operation status/error using CN51	PAC-T25AD										
	Connector cable for remote display	PAC-SAS3HA-EF										
	Connector for CN32 (remote on/off)	PAC-SE33RA-E										
	Lockdown Bracket for Hand-held Remote Controllers	RCMKP1CB	*	*	*	*	*	*	*	*	*	*
	Remote Operation Adapter	PAC-SF40RM-E										

*1 (requires MAC-3334F-E)

*2 Unable to use with wireless remote controller

*3 Allows indoor units to connect to an MA controller

[illegible]

Optional Parts List for Controllers

			Floor Mount				EZ FIT™			4-way Ceiling Cassette			
			FK8				UK8			OK8			
			09	12	15	18	09	12	18	09	12	15	18
Wireless Signal Receiver	Wireless Signal Receiver	PAR-SASCA-E											
	Wireless Signal Receiver	PAR-FA32MA-W								*	*	*	*
	Wireless Signal Receiver	PAR-FA32MA-E								*	*	*	*
	Wireless Remote Receiver Panel	PAR-SF9FA-E								*	*	*	*
	Wireless Remote Receiver Panel	PAR-SR3LA-E											
	Remote Controller Holder	UD1AD10E3											
Wireless Remote Controller	Wireless Remote Controller	PAR-EL100A-E								*	*	*	*
	Wireless Remote Controller	PAR-FL32MA-E											
	Controller Kit (Sender & Receiver)	PAR-BLS3B-E											
	Controller Kit with i-see Sensor™	PAR-SAS2MW-E											
	Kumo touch™ Backlit, Wall-mounted, Wireless Controller	MHK2	*	*	*	*	*	*	*	*	*	*	*
Wired Remote Controller	Deluxe MA Remote Controller	AAR-40MAAU	*1	*1	*1	*1	*1	*1	*1	*	*	*	*
	Simple MA Controller	PAC-YT33CRAU-J	*1	*1	*1	*1	*1	*1	*1	*	*	*	*
	Touch MA Controller	PAR-CTD1MAU-BB	*1	*1	*1	*1	*1	*1	*1	*	*	*	*
	Airzone Z88 Wired Blueface Principal Controller White	AZZB88BLUEFACECB											
	Airzone Z88 Wired Think Controller White	AZZB88THINKCB											
	Airzone Z88 Wireless Think Controller White	AZZB88THINKRB											
	Airzone Z88 Wired Lite Controller White	AZZB88LITECB											
	Airzone Z88 Wireless Lite Controller White	AZZB88LITERB											
Remote Sensor	Wired Remote Sensor	PAC-BE41TS-E								*	*	*	*
	Wired Remote Sensor	M21EAA307	*	*	*	*	*	*	*				
	Wireless Temperature and Humidity Sensor	PAC-UBWH8003-TH-1	*	*	*	*	*	*	*	*	*	*	*
	Flush Mount Remote Temperature Sensor	PAC-UB88EN001-FM-1								*	*	*	*
Interface	System Control Interface	MAD-3334F-E	*3	*3	*3	*3	*3	*3	*3	*	*	*	*
	Wireless Interface 2	PAC-UBWH8002-WF-2	*	*	*	*	*	*	*	*	*	*	*
	Thermostat Interface	PAC-UB444CN-1	*	*	*	*	*	*	*	*	*	*	*
	Kumo station®	PAC-WH801HC-E	*	*	*	*	*	*	*	*	*	*	*
	USNAP Interface	PAC-WH801UP-E	*	*	*	*	*	*	*	*	*	*	*
	IT Extender	PAC-WH801IE-E	*	*	*	*	*	*	*	*	*	*	*
	EACnet® and MODBUS® interface	PAC-UKPR001-CN-1	*	*	*	*	*	*	*	*	*	*	*
	External Fan / Heater Control Relay Adapter	CN24RELAY-KIT-CM3	*	*	*	*	*	*	*	*	*	*	*
	Wire for Remote on/off with CN32 connector	PAC-715AD								*	*	*	*
	Connector and wire for Operation status/error using CN51	PAC-725AD								*	*	*	*
	Connector cable for remote display	PAC-SASSHA-BP								*	*	*	*
	Connector for CN32 (remote on/off)	PAC-BE55RA-E								*	*	*	*
	Lockdown Bracket for Hand-held Remote Controllers	RCMKP1CB	*	*	*	*	*	*	*				
	Remote Operation Adapter	PAC-SF40RM-E								*2	*2	*2	*2

- *1 (requires MAD-3334F-E)
- *2 Unable to use with wireless remote controller
- *3 Allows indoor units to connect to an MA controller

Optional Parts List for Controllers

			4-way Ceiling Cassette						
			PLA-						
			A12EA7	A18EA7	A24EA7	A30EA7	A36EA7	A42EA7	
Wireless Signal Receiver	Wireless Signal Receiver	PAR-SASCA-E							
	Wireless Signal Receiver	PAR-FA32MA-W	*	*	*	*	*	*	
	Wireless Signal Receiver	PAR-FA32MA-E	*	*	*	*	*	*	
	Wireless Remote Receiver Panel	PAR-SF9FA-E							
	Wireless Remote Receiver Panel	PAR-SR3LA-E	*	*	*	*	*	*	
	Remote Controller Holder	UD1A010E3							
Wireless Remote Controller	Wireless Remote Controller	PAR-EL100A-E							
	Wireless Remote Controller	PAR-FL32MA-E							
	Controller Kit (Sender & Receiver)	PAR-SLS3B-E							
	Controller Kit with i-see Sensor™	PAR-SAS2MW-E							
	Kumo touch™ Backlit, Wall-mounted, Wireless Controller	MHK2	*	*	*	*	*	*	
Wired Remote Controller	Deluxe MA Remote Controller	AAR-40MAAU	*	*	*	*	*	*	
	Simple MA Controller	PAC-YT53CRAU-J	*	*	*	*	*	*	
	Touch MA Controller	PAR-CTD1MAL-8B	*	*	*	*	*	*	
	Airzone Z8S Wired Blueface Principal Controller White	AZZB8BLUEFACEB							
	Airzone Z8S Wired Think Controller White	AZZB8THINKCB							
	Airzone Z8S Wireless Think Controller White	AZZB8THINKRB							
	Airzone Z8S Wired Lite Controller White	AZZB8LITECB							
	Airzone Z8S Wireless Lite Controller White	AZZB8LITERB							
Remote Sensor	Wired Remote Sensor	PAC-BE41TS-E	*	*	*	*	*	*	
	Wired Remote Sensor	M21EAA307							
	Wireless Temperature and Humidity Sensor	PAC-UBWH8003-TH-1	*	*	*	*	*	*	
	Flush Mount Remote Temperature Sensor	PAC-UB8EN001-FM-1	*	*	*	*	*	*	
Interface	System Control Interface	MAD-3334F-E							
	Wireless Interface 2	PAC-UBWH8002-WF-2	*	*	*	*	*	*	
	Thermostat Interface	PAC-UB444CN-1	*	*	*	*	*	*	
	Kumo station®	PAC-WH801HC-E	*	*	*	*	*	*	
	USNAP Interface	PAC-WH801UP-E	*	*	*	*	*	*	
	IT Extender	PAC-WH801IE-E	*	*	*	*	*	*	
	BACnet® and MODBUS® interface	PAC-UKPR001-CN-1	*	*	*	*	*	*	
	External Fan / Heater Control Relay Adapter	CN24RELAY-KIT-CM3	*	*	*	*	*	*	
	Wire for Remote on/off with CN32 connector	PAC-715AD							
	Connector and wire for Operation status/error using CN51	PAC-725AD							
	Connector cable for remote display	PAC-SASSHA-BP							
	Connector for CN32 (remote on/off)	PAC-BE55RA-E	*	*	*	*	*	*	
	Lockdown Bracket for Hand-held Remote Controllers	RCMKP1CB	*	*	*	*	*	*	
	Remote Operation Adapter	PAC-SF40RM-E	*1	*2	*2	*2	*2	*2	

*1 (requires MAD-3334F-E)

*2 Unable to use with wireless remote controller

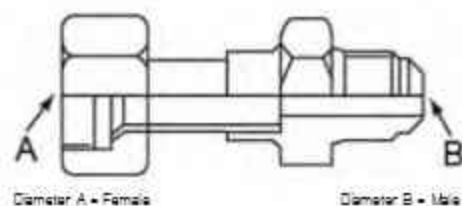
*3 Allows indoor units to connect to an MA controller

	Ceiling-conceals								Multi-position Air Handler					
	PEAD-								P/A-					
	A09AA7	A12AA7	A15AA7	A18AA7	A24AA7	A30AA7	A36AA7	A42AA7	A12AA7	A18AA7	A24AA7	A30AA7	A36AA7	A42AA7
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	*	*	*	*	*	*	*	*						
	*12	*12	*12	*12	*12	*12	*12	*12	*12	*12	*12	*12	*12	*12

Additional Nv-Series Information

Port Adapters Parts Numbers

Model Name	Diameter A	Diameter B
MAC-A454JP-E	3/8"	1/2"
MAC-A455JP-E	1/2"	3/8"
MAC-A456JP-E	1/2"	5/8"
PAC-SG76RJ-E	3/8"	5/8"
ADP5834	5/8"	3/4"
PAC-483PI	1/4"	3/8"



Multi-zone Efficiency Ratings

Model	Configuration	SEER	EER	HSPF
NAXMMX20A122A*	Ducted	16.00	10.00	9.30
	Mixed	18.00	11.35	9.65
	Non-Ducted	20.00	12.70	10.00
NAXMMX24A132A*	Ducted	16.00	11.20	9.20
	Mixed	18.00	12.40	9.50
	Non-Ducted	20.00	13.60	9.80
NAXMMX30A132A*	Ducted	16.20	9.60	9.60
	Mixed	17.60	10.10	10.10
	Non-Ducted	19.00	10.60	10.60
NAXMMX36A142A*	Ducted	16.00	8.70	9.80
	Mixed	17.60	9.05	10.40
	Non-Ducted	19.20	9.40	11.00
NAXMMX42A152A*	Ducted	15.20	9.00	9.10
	Mixed	17.45	9.10	9.70
	Non-Ducted	19.70	9.20	10.30
NAXMMX48A182A*	Ducted	18.90	12.00	11.40
	Mixed	16.80	10.75	10.75
	Non-Ducted	14.70	9.50	10.10
NAXMMX60A182A*	Ducted	15.10	9.60	10.00
	Mixed	16.25	11.05	10.25
	Non-Ducted	17.40	12.50	10.50
NAXMPH20A122A*	Ducted	15.00	11.00	9.50
	Mixed	16.00	12.25	9.65
	Non-Ducted	17.00	13.50	9.80
NAXMPH24A132A*	Ducted	15.50	10.00	9.00
	Mixed	17.25	11.75	9.50
	Non-Ducted	19.00	13.50	10.00
NAXMPH30A132A*	Ducted	16.00	10.30	9.60
	Mixed	17.00	11.40	10.40
	Non-Ducted	18.00	12.50	11.00
NAXMPH36A142A*	Ducted	15.60	11.30	10.10
	Mixed	17.45	12.65	10.70
	Non-Ducted	19.10	14.00	11.30
NAXMPH42A152A*	Ducted	15.00	10.80	10.10
	Mixed	17.00	12.10	10.55
	Non-Ducted	19.00	13.40	11.00
NAXMMX48A182A*	Ducted	14.70	9.50	10.00
	Mixed	16.80	10.75	10.50
	Non-Ducted	18.90	12.00	11.00

Nv-Series Air Outlet Coverage Range*

Model	Mode	Function	Airflow (CFM)	Coverage (FT)
NAXWPH06A112A*, NAXWPH09A112A*	HEAT	DRY	437	29.8
	COOL	WET	328	22.8
NAXWPH12A112A*	HEAT	DRY	454	31.0
	COOL	WET	342	23.5
NAXWPH15A112A*	HEAT	DRY	497	33.8
	COOL	WET	354	24.1
NAXWPH18A112A*	HEAT	DRY	514	34.9
	COOL	WET	395	27.0
NAXWST06/09/12A112A*, NAYWST06/09/12A112A*	HEAT	DRY	406	29.5
	COOL	WET	286	21.0
NAXWST15A112A*, NAYWST15A112A*	HEAT	DRY	463	33.5
	COOL	WET	385	28.0
NAXWST18A112A*, NAYWST18A112A*	HEAT	DRY	546	44.0
	COOL	WET	581	39.7
NAXWST24A112A*, NAYWST24A112A*	HEAT	DRY	738	36.9
	COOL	WET	661	33.2
NAXWST30/36A112A*, NAYWST30/36A112A*	HEAT	DRY	848	45.0
	COOL	WET	763	40.7
NAXFKS09A112A*, NAXFKS12A112A*	HEAT	DRY	417	29.6
	COOL	WET	354	25.3
NAXFKS15A112A*	HEAT	DRY	470	33.3
	COOL	WET	366	26.2
NAXFKS18A112A*	HEAT	DRY	470	33.3
	COOL	WET	417	29.7
NAXCKS09A112A*	HEAT	DRY	300	15.1
	COOL	WET	270	13.7
NAXCKS12A112A*	HEAT	DRY	336	16.9
	COOL	WET	302	15.2
NAXCKS15A112A*	HEAT	DRY	405	20.3
	COOL	WET	365	18.3
NAXCKS18A112A*	HEAT	DRY	475	23.7
	COOL	WET	429	21.4
MSZ-EF09NAW(B)(S)	HEAT	DRY	420	29.2
	COOL	WET	319	22.3
MSZ-EF12NAW(B)(S)	HEAT	DRY	448	31.1
	COOL	WET	319	22.3
MSZ-EF15NAW(B)(S)	HEAT	DRY	448	31.1
	COOL	WET	313	21.9
MSZ-EF18NAW(B)(S)	HEAT	DRY	466	32.3
	COOL	WET	334	23.4
NAXWMT09A112A*, NAXWMT12A112A*	HEAT	DRY	406	29.5
	COOL	WET	286	21.0
NAXWMT15A112A*	HEAT	DRY	463	33.5
	COOL	WET	385	28.0
NAXWMT18A112A*	HEAT	DRY	625	42.6
	COOL	WET	562	38.4
NAXWMT24A112A*	HEAT	DRY	702	47.7
	COOL	WET	632	43.1
NAXWMT09A111A*	HEAT	DRY	406	29.5
	COOL	WET	364	26.5
NAXWMT12A111A*	HEAT	DRY	406	29.5
	COOL	WET	364	26.5
NAXWEL09A112A*	HEAT	DRY	406	29.5
	COOL	WET	286	21.0
NAXWEL12A112A*	HEAT	DRY	406	29.5
	COOL	WET	286	21.0
NAXWEL15A112A*	HEAT	DRY	625	42.6
	COOL	WET	562	38.4
NAXWEL24A112A*	HEAT	DRY	702	47.7
	COOL	WET	632	43.1
NAXUKS09A112A*	HEAT	DRY	311	20.7
	COOL	WET	325	21.7
NAXUKS12A112A*	HEAT	DRY	332	22.1
	COOL	WET	350	23.3
NAXUKS18A112A*	HEAT	DRY	403	26.7
	COOL	WET	417	27.6

Heating Capacity

Outdoor Temperature Degrees (°F)		50	41.0	32.0	23.0	14.0	5.0	-4	-13
NAXWPH05A112A/NAXSPH05A112A	Heating Capacity (Btu/h)	8,700	8,700	8,700	8,700	8,700	8,700	7,650	6,430
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	88%	74%
NAXWPH05A112A/NAXSPH05A112A	Heating Capacity (Btu/h)	10,900	10,900	10,900	10,900	10,900	10,900	9,260	7,630
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	85%	70%
NAXWPH12NA/NAXSPH12A112A	Heating Capacity (Btu/h)	13,600	13,600	13,600	13,600	13,600	13,600	11,690	9,920
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	73%
NAXWPH15A112A/NAXSPH15A112A	Heating Capacity (Btu/h)	16,000	16,000	16,000	16,000	16,000	16,000	16,200	14,560
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	90%	81%
NAXWPH15A112A/IMUZ-FH18NA2	Heating Capacity (Btu/h)	20,300	20,300	20,300	20,300	20,300	20,300	17,260	14,210
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	85%	70%
NAXWPH05A112A/NAXSPB05A112A	Heating Capacity (Btu/h)	8,700	8,700	8,700	8,700	8,700	8,700	7,650	6,430
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	88%	74%
NAXWPH05A112A/NAXSPB05A112A	Heating Capacity (Btu/h)	10,900	10,900	10,900	10,900	10,900	10,900	9,270	7,690
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	73%
NAXWPH12NA/NAXSPB12A112A	Heating Capacity (Btu/h)	13,600	13,600	13,600	13,600	13,600	13,600	11,690	9,920
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	73%
NAXWPH15A112A/NAXSPB15A112A	Heating Capacity (Btu/h)	16,000	16,000	16,000	16,000	16,000	16,000	16,200	14,560
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	90%	81%
NAXWPH15A112A/IMUZ-FH18NA2H	Heating Capacity (Btu/h)	20,300	20,300	20,300	20,300	20,300	20,300	17,260	14,210
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	70%
NAXWBT05A112A/NAXSST05A112A	Heating Capacity (Btu/h)	10,900	10,900	10,900	10,460	9,480	8,170	6,660	-
	Percentage of Rated Capacity	100%	100%	100%	96%	87%	76%	63%	0%
NAXWBT12A112A/NAXSST12A112A	Heating Capacity (Btu/h)	14,400	14,400	14,110	12,960	11,660	9,790	7,920	-
	Percentage of Rated Capacity	100%	100%	98%	90%	81%	68%	55%	0%
NAXWBT15A112A/NAXSST15A112A	Heating Capacity (Btu/h)	16,000	17,100	16,920	16,920	16,200	13,680	11,160	-
	Percentage of Rated Capacity	100%	95%	94%	94%	90%	76%	63%	0%
NAXWBT15A112A/NAXSST15A112A	Heating Capacity (Btu/h)	21,600	21,600	21,600	19,440	17,060	14,900	12,520	-
	Percentage of Rated Capacity	100%	100%	100%	90%	79%	69%	58%	0%
NAXWBT24A112A/NAXSST24A112A	Heating Capacity (Btu/h)	27,600	27,600	27,600	26,220	23,460	19,320	15,460	-
	Percentage of Rated Capacity	100%	100%	100%	95%	85%	70%	56%	0%
NAXWMT05A112A/NAXSMT05A112A	Heating Capacity (Btu/h)	10,900	10,570	9,480	8,600	7,300	5,990	4,660	-
	Percentage of Rated Capacity	100%	97%	87%	78%	67%	55%	43%	0%
NAXWMT12A112A/NAXSMT12A112A	Heating Capacity (Btu/h)	12,200	12,200	11,220	10,120	9,020	7,440	6,660	-
	Percentage of Rated Capacity	100%	100%	92%	83%	74%	61%	48%	0%
NAXWMT15A112A/NAXSMT15A112A	Heating Capacity (Btu/h)	16,000	16,300	14,940	14,400	13,680	12,240	10,620	-
	Percentage of Rated Capacity	100%	89%	83%	80%	76%	68%	59%	0%
NAXWMT15A112A/NAXSMT15A112A	Heating Capacity (Btu/h)	16,000	16,000	16,000	16,660	14,580	12,780	10,660	-
	Percentage of Rated Capacity	100%	100%	100%	92%	81%	71%	61%	0%
NAXWMT24A112A/NAXSMT24A112A	Heating Capacity (Btu/h)	26,000	24,440	22,360	20,020	17,680	15,600	13,260	-
	Percentage of Rated Capacity	100%	94%	86%	77%	68%	60%	51%	0%
NAXWBT30A112A/NAXSST30A112A	Heating Capacity (Btu/h)	32,600	28,030	25,420	22,820	19,880	-	-	-
	Percentage of Rated Capacity	100%	86%	78%	70%	61%	0%	0%	0%
NAXWBT36A112A/NAXSST36A112A	Heating Capacity (Btu/h)	35,200	29,560	27,450	25,340	22,660	-	-	-
	Percentage of Rated Capacity	100%	84%	78%	72%	65%	0%	0%	0%
NAXWMT05A111A/NAXSMT05A111A	Heating Capacity (Btu/h)	10,900	10,570	9,480	8,600	7,300	5,990	4,660	-
	Percentage of Rated Capacity	100%	97%	87%	78%	67%	55%	43%	0%
NAXWMT12A111A/NAXSMT12A111A	Heating Capacity (Btu/h)	12,200	12,200	11,220	10,120	9,020	7,440	6,660	-
	Percentage of Rated Capacity	100%	100%	92%	83%	74%	61%	48%	0%
NAXWEL05A112A/NAXSEL05A112A	Heating Capacity (Btu/h)	10,900	10,570	9,480	8,600	7,300	5,990	-	-
	Percentage of Rated Capacity	100%	97%	87%	78%	67%	55%	0%	0%
NAXWEL12A112A/NAXSEL12A112A	Heating Capacity (Btu/h)	12,200	12,200	11,220	10,120	9,020	7,440	-	-
	Percentage of Rated Capacity	100%	100%	92%	83%	74%	61%	0%	0%
NAXWEL18A112A/NAXSEL18A112A	Heating Capacity (Btu/h)	16,000	16,000	16,000	16,660	14,580	12,780	-	-
	Percentage of Rated Capacity	100%	100%	100%	92%	81%	71%	0%	0%
NAXWEL24A112A/NAXSEL24A112A	Heating Capacity (Btu/h)	26,000	24,440	22,360	20,020	17,680	15,600	-	-
	Percentage of Rated Capacity	100%	94%	86%	77%	68%	60%	0%	0%
NAXFKB05A112A/NAXFPF05A112A	Heating Capacity (Btu/h)	11,000	11,000	11,000	11,000	11,000	11,000	9,130	7,260
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	83%	66%

Heating Capacity

Outdoor Temperature Degrees (° F)		50	41.0	32.0	23.0	14.0	5.0	-4	-13
NAXFKB12A112A/NAXBPF12A112A	Heating Capacity (Btu/h)	13,000	13,000	13,000	13,000	13,000	13,000	10,790	8,480
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	83%	66%
NAXFKB15A112A/NAXBPF15A112A	Heating Capacity (Btu/h)	18,000	18,000	18,000	18,000	18,000	18,000	14,840	13,860
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	83%	77%
NAXFKB18A112A/NAXBPF18A112A	Heating Capacity (Btu/h)	21,000	21,000	21,000	21,000	21,000	21,000	18,480	15,960
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	88%	76%
NAXLKB09A112A/NAXBKB09A112A	Heating Capacity (Btu/h)	12,000	10,620	9,230	7,840	6,450	5,060	3,770	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXLKB12A112A/NAXBKB12A112A	Heating Capacity (Btu/h)	16,400	13,630	11,660	10,060	8,280	6,540	4,840	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXLKB15A112A/NAXBKB15A112A	Heating Capacity (Btu/h)	20,000	17,700	15,380	13,060	10,760	8,490	6,290	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXCKB09A112A/NAXBKB09A112A	Heating Capacity (Btu/h)	11,000	9,720	8,460	7,190	5,920	4,670	3,460	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXCKB12A112A/NAXBKB12A112A	Heating Capacity (Btu/h)	13,000	11,510	10,000	8,490	6,990	5,520	4,090	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXCKB15A112A/NAXBKB15A112A	Heating Capacity (Btu/h)	16,000	15,930	13,660	11,760	9,680	7,640	5,660	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXCKB18A112A/NAXBKB18A112A	Heating Capacity (Btu/h)	19,700	17,440	15,190	12,670	10,600	8,370	6,190	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXDKB09A112A/NAXBKB09A112A	Heating Capacity (Btu/h)	12,000	10,620	9,230	7,840	6,450	5,060	3,770	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXDKB12A112A/NAXBKB12A112A	Heating Capacity (Btu/h)	16,000	13,260	11,540	9,800	8,070	6,370	4,710	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXDKB15A112A/NAXBKB15A112A	Heating Capacity (Btu/h)	18,000	15,930	13,660	11,760	9,680	7,640	5,660	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXDKB18A112A/NAXBKB18A112A	Heating Capacity (Btu/h)	21,600	19,120	16,620	14,110	11,620	9,170	6,790	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
PEAD-A09AA7/NAXBKB09A112A	Heating Capacity (Btu/h)	12,000	10,620	9,230	7,840	6,450	5,060	3,770	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
PEAD-A12AA7/NAXBKB12A112A	Heating Capacity (Btu/h)	16,000	13,260	11,540	9,800	8,070	6,370	4,710	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
PEAD-A15AA7/NAXBKB15A112A	Heating Capacity (Btu/h)	18,000	15,930	13,660	11,760	9,680	7,640	5,660	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
PEAD-A18AA7/NAXBKB18A112A	Heating Capacity (Btu/h)	21,600	19,120	16,620	14,110	11,620	9,170	6,790	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
PEAD-A24AA7/NAXBKB24A112A	Heating Capacity (Btu/h)	26,000	22,130	19,230	16,330	13,430	-	-	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	0%	0%	0%
PEAD-A30AA7/NAXBKB30A112A	Heating Capacity (Btu/h)	30,000	26,560	23,080	19,600	16,140	-	-	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	0%	0%	0%
PEAD-A36AA7/NAXBKB36A112A	Heating Capacity (Btu/h)	33,600	29,660	25,770	21,890	18,030	-	-	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	0%	0%	0%
NAXAMT12A112A/NAXBKB12A112A	Heating Capacity (Btu/h)	16,000	13,260	11,540	9,800	8,070	6,370	4,710	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXAMT15A112A/NAXBKB15A112A	Heating Capacity (Btu/h)	21,600	19,120	16,620	14,110	11,620	9,170	6,790	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	42%	31%	0%
NAXAMT24A112A/NAXBKB24A112A	Heating Capacity (Btu/h)	26,000	22,130	19,230	16,330	13,430	-	-	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	0%	0%	0%
NAXAMT30A112A/NAXBKB30A112A	Heating Capacity (Btu/h)	30,000	26,560	23,080	19,600	16,140	-	-	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	0%	0%	0%
NAXAMT36A112A/NAXBKB36A112A	Heating Capacity (Btu/h)	33,600	29,660	25,770	21,890	18,030	-	-	-
	Percentage of Rated Capacity	100%	89%	77%	66%	54%	0%	0%	0%
NAXMMX20A122A	Heating Capacity (Btu/h)	22,000	22,000	18,920	16,840	12,660	9,900	-	-
	Percentage of Rated Capacity	100%	100%	86%	72%	59%	45%	0%	0%
NAXMMX24A132A	Heating Capacity (Btu/h)	26,000	26,000	24,000	20,790	17,250	13,250	-	-
	Percentage of Rated Capacity	100%	100%	96%	83%	69%	53%	0%	0%
NAXMMX30A132A	Heating Capacity (Btu/h)	28,600	28,600	28,020	24,310	20,300	16,730	-	-
	Percentage of Rated Capacity	100%	100%	98%	85%	71%	59%	0%	0%

Heating Capacity

Outdoor Temperature Degrees (° F)		50	41.0	32.0	23.0	14.0	5.0	-4	-13
NAXMMX35A142A*	Heating Capacity (Btu/h)	36,000	36,000	33,480	29,160	24,120	18,720	-	-
	Percentage of Rated Capacity	100%	100%	93%	81%	67%	52%	0%	0%
NAXMMX42A152A*	Heating Capacity (Btu/h)	46,000	46,000	41,880	36,480	30,180	23,400	-	-
	Percentage of Rated Capacity	100%	100%	91%	81%	67%	52%	0%	0%
NAXMMX48A162A*	Heating Capacity (Btu/h)	54,000	54,000	52,920	44,620	36,180	32,400	28,620	-
	Percentage of Rated Capacity	100%	100%	98%	83%	67%	60%	53%	0%
NAXMMX60A182A*	Heating Capacity (Btu/h)	66,000	66,000	66,000	56,100	44,880	39,600	34,320	29,040
	Percentage of Rated Capacity	100%	100%	100%	85%	68%	60%	52%	44%
NAXMPH20A122A*	Heating Capacity (Btu/h)	22,000	22,000	22,000	22,000	22,000	22,000	21,120	20,460
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	96%	93%
NAXMPH24A132A*	Heating Capacity (Btu/h)	25,000	25,000	25,000	25,000	25,000	25,000	23,750	22,800
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	95%	90%
NAXMPH30A132A*	Heating Capacity (Btu/h)	28,800	28,800	28,800	28,800	28,800	28,800	26,880	25,160
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	94%	88%
NAXMPH36A142A*	Heating Capacity (Btu/h)	46,000	46,000	46,000	46,000	46,000	46,000	39,600	33,750
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	75%
NAXMPH42A152A*	Heating Capacity (Btu/h)	46,000	46,000	46,000	46,000	46,000	46,000	42,240	36,000
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	92%	79%
NAXMPH48A162B*	Heating Capacity (Btu/h)	54,000	54,000	54,000	54,000	54,000	54,000	47,520	40,500
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	88%	76%
NAXUKB09A112A*/NAXBK09A112A*	Heating Capacity (Btu/h)	12,000	12,000	12,000	12,000	12,000	12,000	10,320	9,120
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXUKB12A112A*/NAXBK12A112A*	Heating Capacity (Btu/h)	16,000	16,000	16,000	16,000	16,000	16,000	12,960	11,400
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	81%	71%
NAXUKB18A112A*/NAXBK18A112A*	Heating Capacity (Btu/h)	18,800	18,800	18,800	18,800	18,800	18,800	16,968	14,136
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	90%	75%
NAXDKB09A112A*/NAXBK09A112A*	Heating Capacity (Btu/h)	11,000	11,000	11,000	11,000	11,000	11,000	9,460	8,360
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXDKB12A112A*/NAXBK12A112A*	Heating Capacity (Btu/h)	13,800	13,800	13,800	13,800	13,800	13,800	11,868	10,488
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXDKB15A112A*/NAXBK15A112A*	Heating Capacity (Btu/h)	16,400	16,400	16,400	16,400	16,400	16,400	14,104	12,464
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXDKB18A112A*/NAXBK18A112A*	Heating Capacity (Btu/h)	18,800	18,800	18,800	18,800	18,800	18,800	16,168	14,288
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXDKB09A112A*/NAXBK09A112A*	Heating Capacity (Btu/h)	12,500	12,500	12,500	12,500	12,500	12,500	10,750	9,500
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXDKB12A112A*/NAXBK12A112A*	Heating Capacity (Btu/h)	15,000	15,000	15,000	15,000	15,000	15,000	12,900	11,400
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXDKB15A112A*/NAXBK15A112A*	Heating Capacity (Btu/h)	18,000	18,000	18,000	18,000	18,000	18,000	15,480	13,680
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXDKB18A112A*/NAXBK18A112A*	Heating Capacity (Btu/h)	21,600	21,600	21,600	21,600	21,600	21,600	18,576	16,416
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
PEAD-A09A7/NAXBK09A112A*	Heating Capacity (Btu/h)	12,000	12,000	12,000	12,000	12,000	12,000	10,320	9,120
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
PEAD-A12A7/NAXBK12A112A*	Heating Capacity (Btu/h)	15,000	15,000	15,000	15,000	15,000	15,000	12,900	11,400
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
PEAD-A15A7/NAXBK15A112A*	Heating Capacity (Btu/h)	18,000	18,000	18,000	18,000	18,000	18,000	15,480	13,680
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
PEAD-A18A7/NAXBK18A112A*	Heating Capacity (Btu/h)	21,600	21,600	21,600	21,600	21,600	21,600	18,576	16,416
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%
NAXAMT12A112A*/NAXBK12A112A*	Heating Capacity (Btu/h)	16,000	16,000	16,000	16,000	16,000	16,000	12,960	11,400
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	81%	71%
NAXAMT18A112A*/NAXBK18A112A*	Heating Capacity (Btu/h)	21,600	21,600	21,600	21,600	21,600	21,600	18,576	16,416
	Percentage of Rated Capacity	100%	100%	100%	100%	100%	100%	86%	76%



Additional P-Series Information

Outlet Air Speed and Coverage Range*

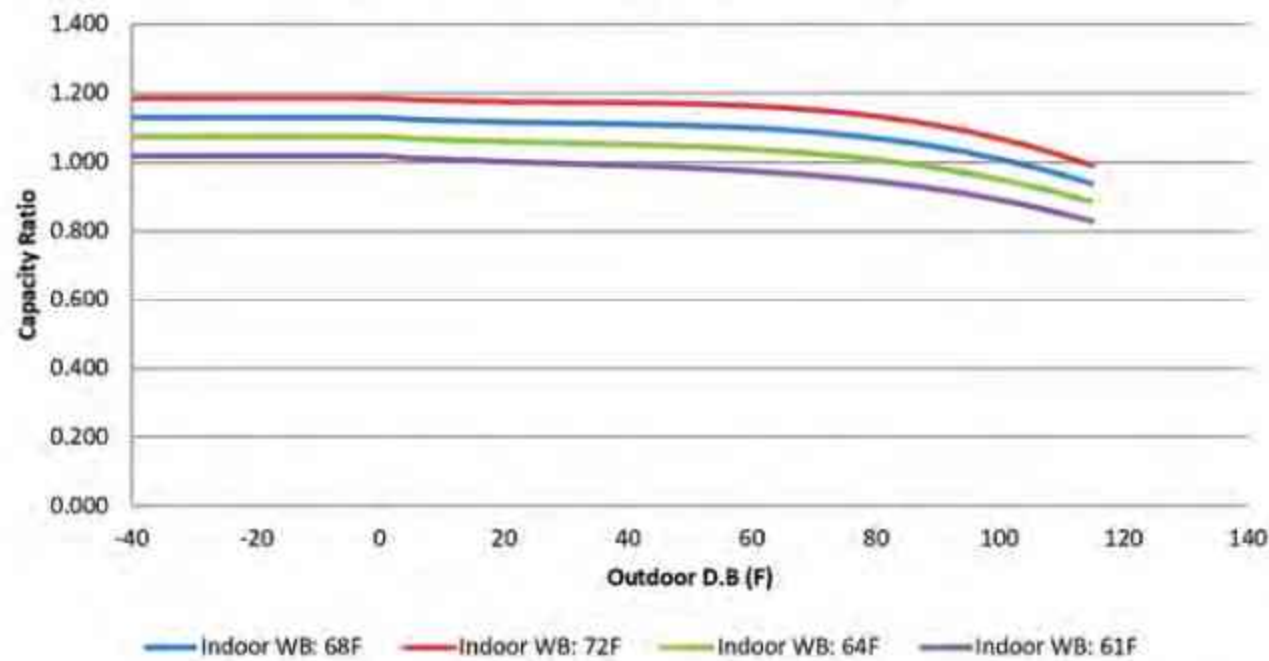
Model	AIRFLOW (CFM)	AIR SPEED (FT/SEC)	COVERAGE RANGE (FT)
PLA-A12EA7	530	7.8	13
PLA-A18EA7	600	8.8	14
PLA-A24EA7	810	11.9	19
PLA-A30EA7	880	12.9	21
PLA-A36EA7	1200	17.6	28
PLA-A42EA7	1200	17.6	28
PKA-A12HA7	425	20.0	35
PKA-A18HA7	425	20.0	35
PKA-A24KA7	775	19.7	47
PKA-A30KA7	775	19.7	47
PKA-A36KA7	920	22.3	53
PCA-A24KA7	670	10.2	32
PCA-A30KA7	705	10.5	33
PCA-A36KA7	990	11.8	41
PCA-A42KA7	1,025	12.1	42

*Air coverage represents the distance with 0.8 ft/sec air speed when blowing out horizontally from the unit operating at the high fan speed. This is a general guideline; actual coverage depends on size and layout of the room.

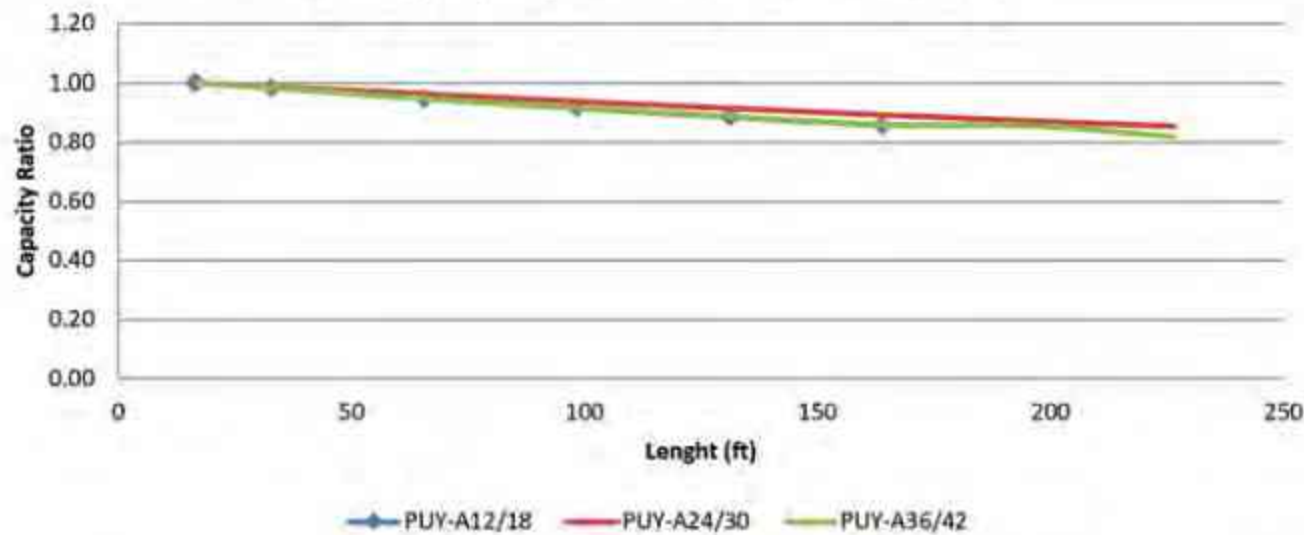


Correction Factors:

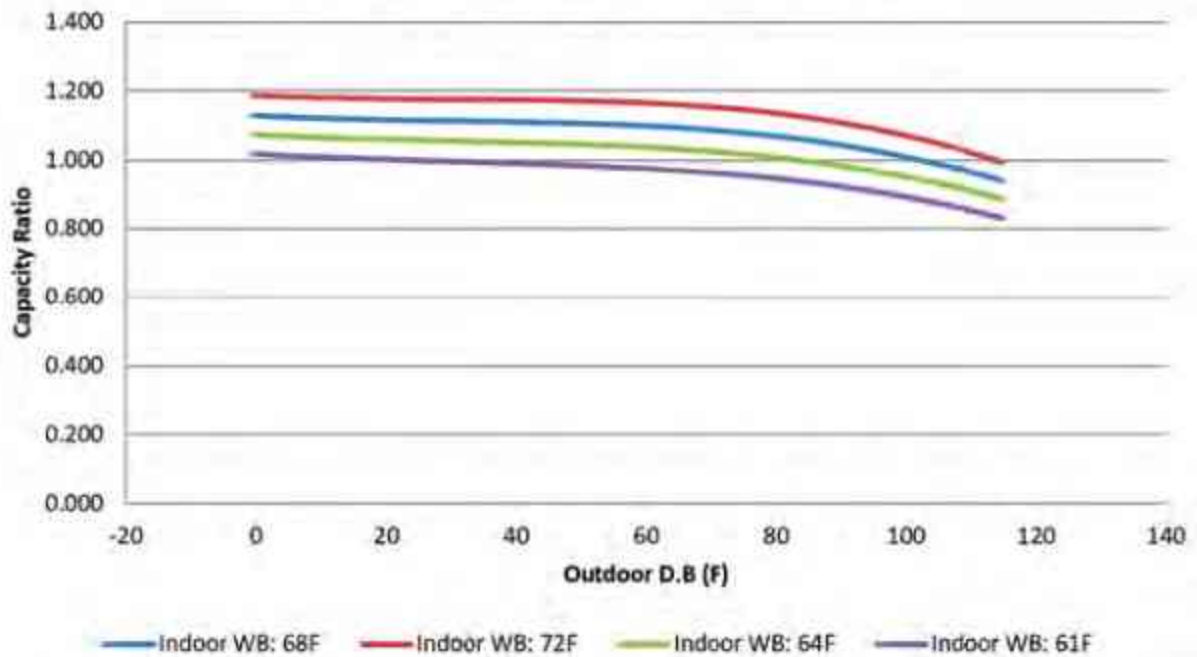
Cooling Correction Factors: PUY



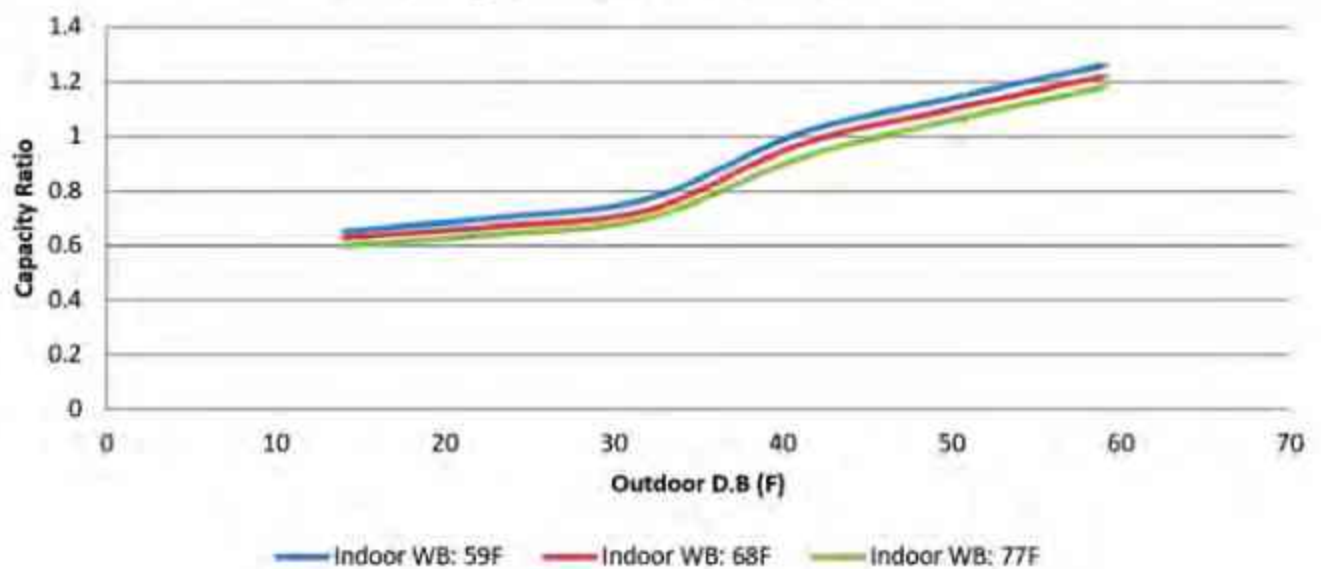
Cooling Piping Correction Factors: PUY



Cooling Correction Factors: PUZ

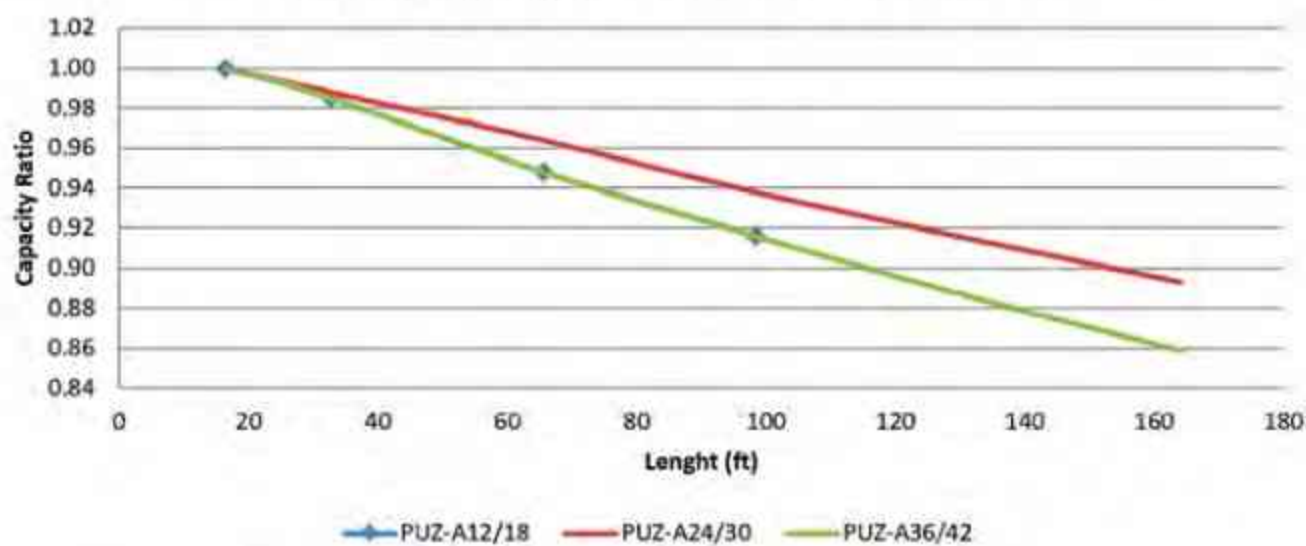


Heating Correction Factors: PUZ

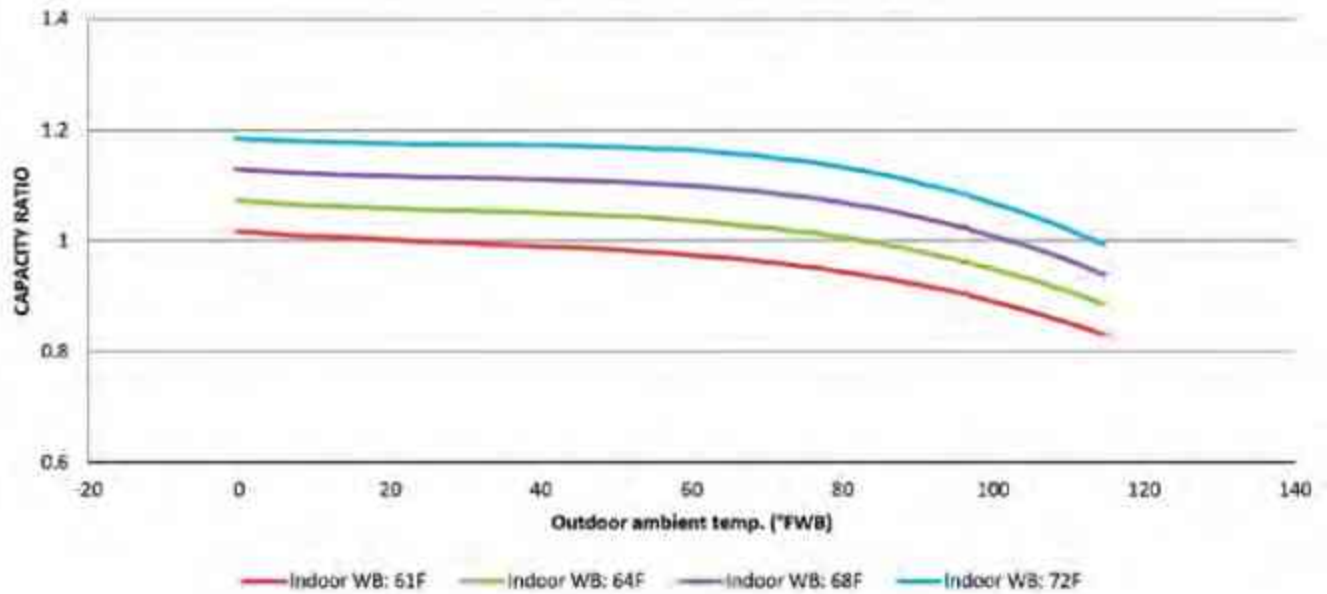


Correction Factors:

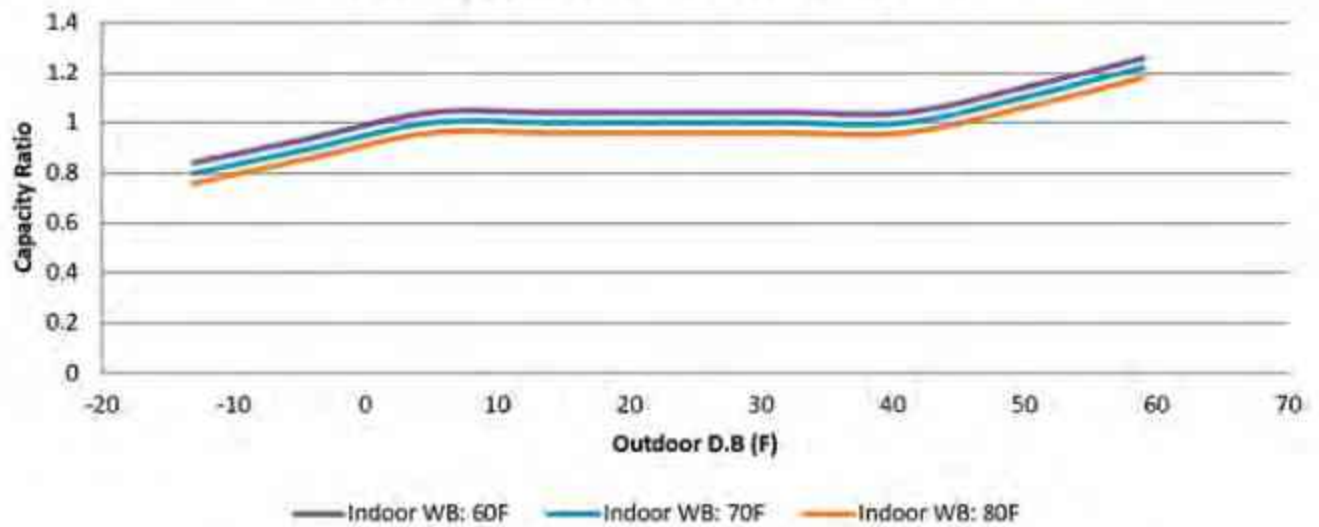
Cooling Piping Correction Factors: PUZ



Cooling Correction Factors: PUZ-HA



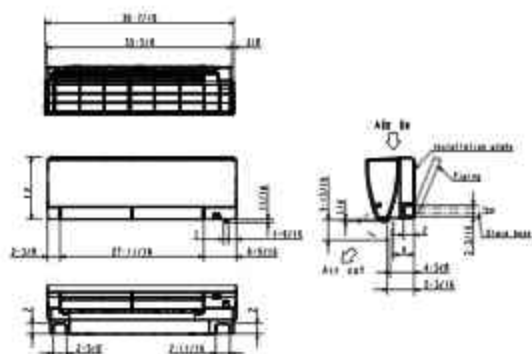
Heating Corrcetion Factors: PUZ-HA



External Dimensions: Nv-Series

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NAXWPH12A112AA, NAXWPH15A112AA,
NAXWPH18A112AA, NAXWPH18A112AA

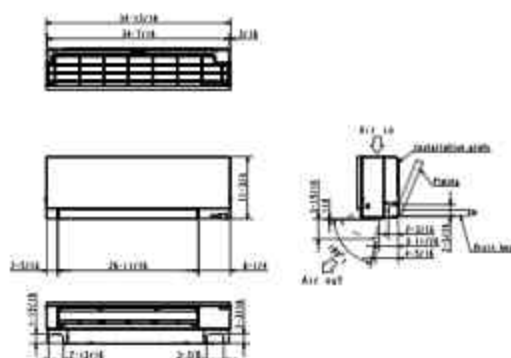
INDOOR UNIT



MSZ-EF09NA(W)(B)(S) MSZ-EF12NA(W)(B)(S)
MSZ-EF15NA(W)(B)(S) MSZ-EF18NA(W)(B)(S)

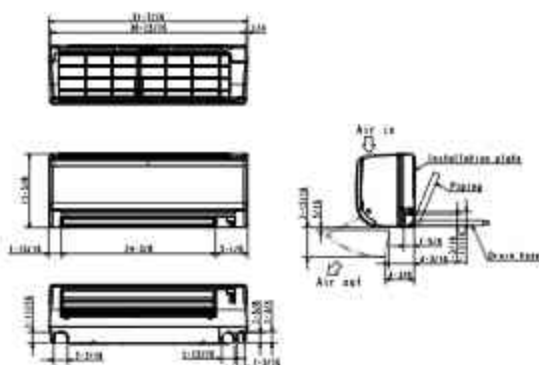
Unit: inch

INDOOR UNIT



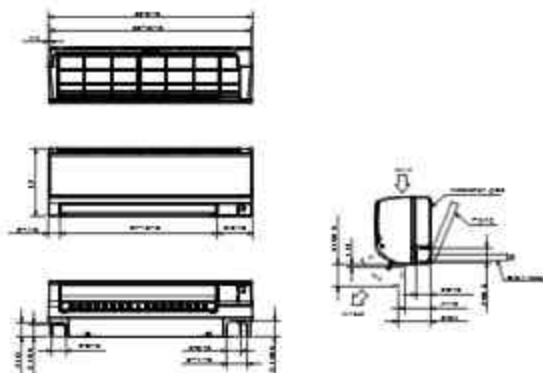
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NA(X/Y)WST09A112A*
NA(X/Y)WST12A112A*
NA(X/Y)WST15A112A*

INDOOR UNIT



NAXWST18A112AA
NAYWST18A112AA

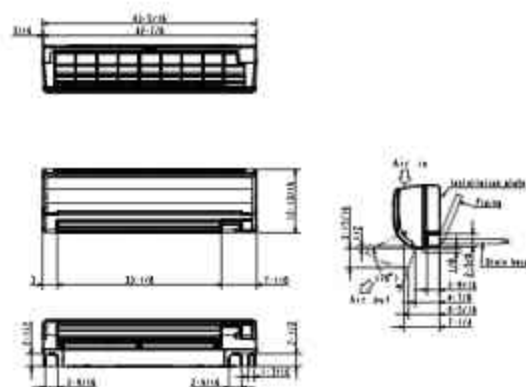
INDOOR UNIT



Nv-Series

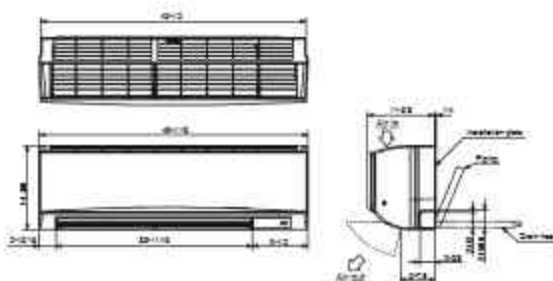
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INDOOR UNIT



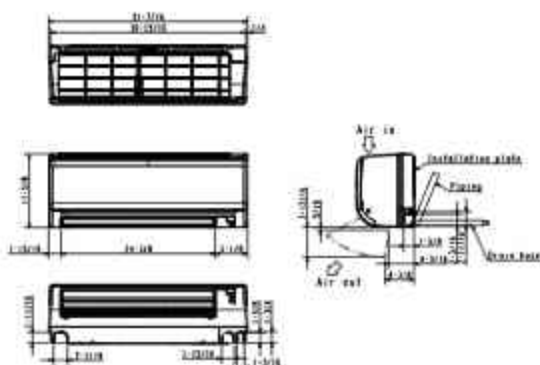
NA(X/Y)WST(30/36)A112A*

INDOOR UNIT



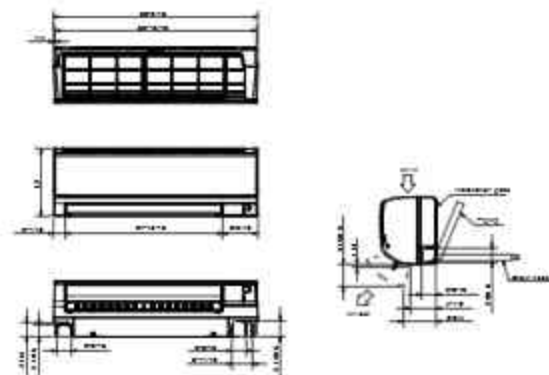
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 NAXWMT15A112A*

INDOOR UNIT



NAXWMT18A112A* NAXWEL18A112A*
 NAXWMT24A112A* NAXWEL24A112A*

INDOOR UNIT

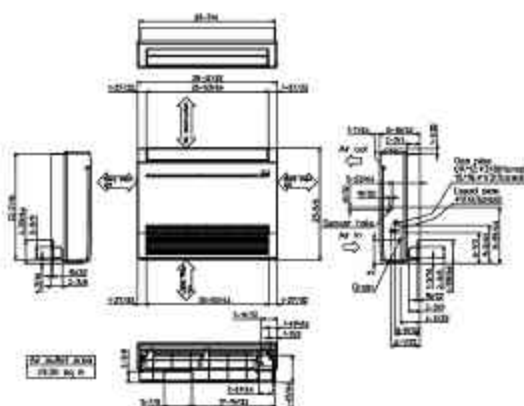


Unit: inch

Nv-Series

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NAXFKS12A112A*
NAXFKS15A112A*
NAXFKS18A112A*

INDOOR UNIT



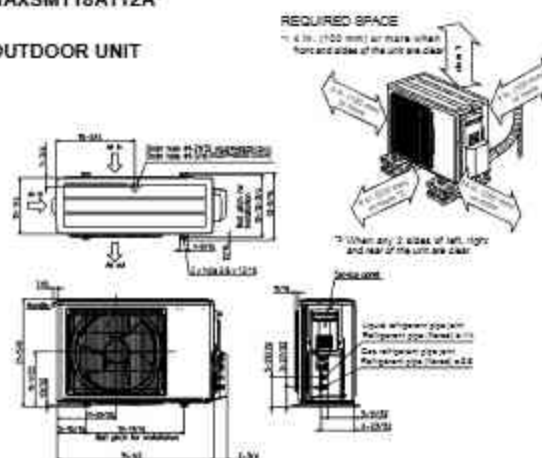
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NAXSPB08A112A*
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NAXSPH12A112A*
NAXSMT09A112A*
NAXSMT12A112A*
NAXSMT15A112A*
NAXSMT18A112A*

NAXSST08A112A*
NAXSST12A112A*
NAXSST15A112A*
NAYSST(09/12/15)A112A*
NAYSST(12/15)A112A*
NAXSPF09A112A*
NAXSPF12A112A*

Unit: inch

NAXSMT09A111A*
NAXSMT12A111A*
NAXSEL09A112A*
NAXSEL12A112A*
NAXSEL18A112A*

OUTDOOR UNIT



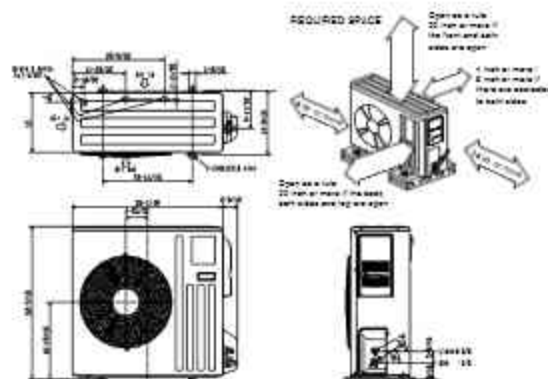
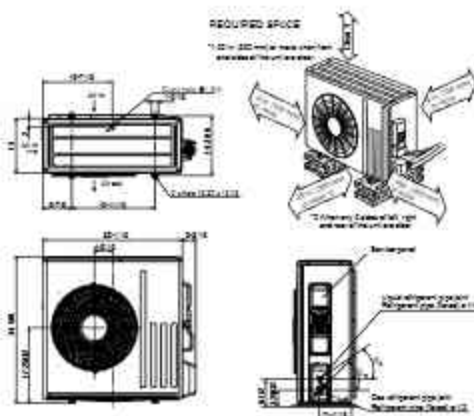
NAXSP(H/B)(15/18)A112A*
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NAXSST18A112AA
NAXSMT24A112AA
NAXSPF15A112AA

NAXSPB18A112AA
NAXSEL24A112AA
NAXSST18A112AA
NAXSPF18A112AA

NA(X/Y)WST(30/36)A112A*

OUTDOOR UNIT

OUTDOOR UNIT

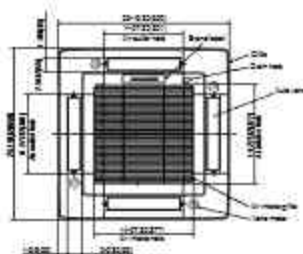
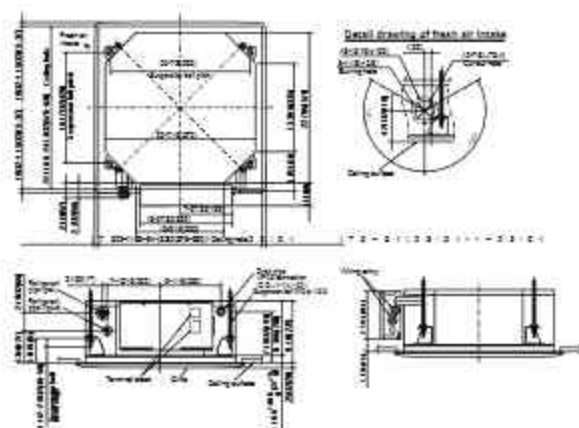


Nv-Series

NAXCKS09A112AA
NAXCKS12A112AA
NAXCKS15A112AA
NAXCKS18A112AA

INDOOR UNIT

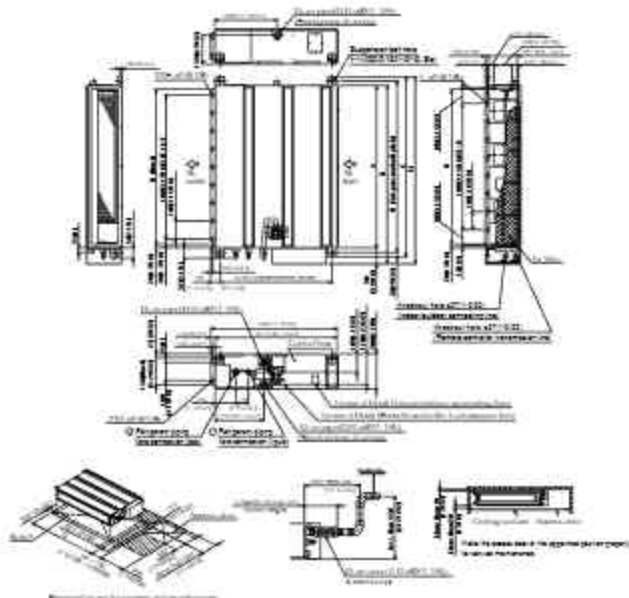
Unit: inch/cm



Model	Refrigerant type (R410A)	Refrigerant type (R32)
NAXCKS09A112AA	1/4 inch (6.35mm) Total connection	3/8 inch (9.52mm) Total connection
NAXCKS12A112AA	1/2 inch (12.7mm) Total connection	3/4 inch (19.05mm) Total connection
NAXCKS15A112AA	3/4 inch (19.05mm) Total connection	1 inch (25.4mm) Total connection
NAXCKS18A112AA	1 inch (25.4mm) Total connection	1 1/4 inch (31.75mm) Total connection

NAXDKS09A112AA
NAXDKS12A112AA
NAXDKS15A112AA
NAXDKS18A112AA

INDOOR UNIT



Model	Refrigerant type (R410A)	Refrigerant type (R32)
NAXDKS09A112AA	1/4 inch (6.35mm) Total connection	3/8 inch (9.52mm) Total connection
NAXDKS12A112AA	1/2 inch (12.7mm) Total connection	3/4 inch (19.05mm) Total connection
NAXDKS15A112AA	3/4 inch (19.05mm) Total connection	1 inch (25.4mm) Total connection
NAXDKS18A112AA	1 inch (25.4mm) Total connection	1 1/4 inch (31.75mm) Total connection

Note: 1. The R410A model is for the copper tube (30mm length).
2. The R32 model is for the copper tube (30mm length).
3. The R410A model is for the copper tube (30mm length).
4. The R32 model is for the copper tube (30mm length).
5. The R410A model is for the copper tube (30mm length).
6. The R32 model is for the copper tube (30mm length).
7. The R410A model is for the copper tube (30mm length).
8. The R32 model is for the copper tube (30mm length).

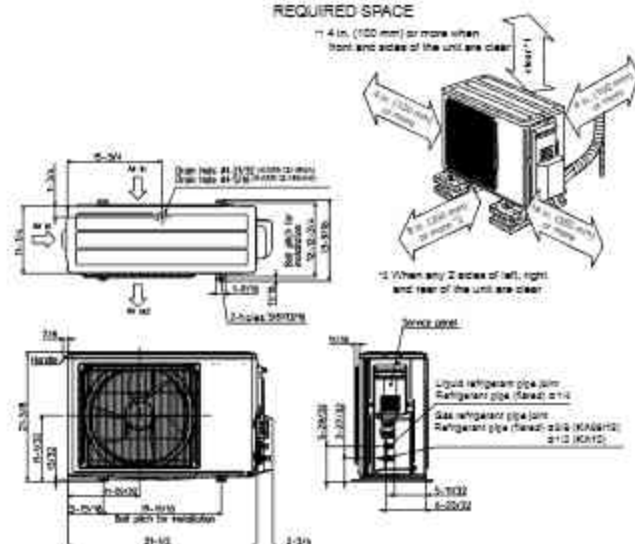
Nv-Series

NAXSKS09A112A*
NAXSKS12A112A*
NAXSKS15A112A*

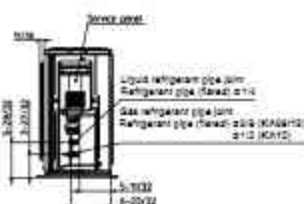
OUTDOOR UNIT

REQUIRED SPACE

† 4 in. (100 mm) or more when front and sides of the unit are clear



† When any 2 sides of left, right and rear of the unit are clear



NAXSKS18A112A*
NAXSKS24A112A*
NAXSKS30A112A*
NAXSKS36A112A*

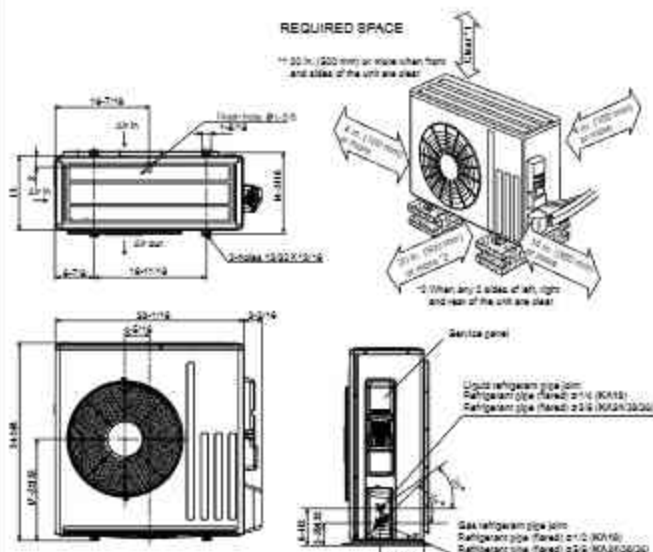
NAXSKH09A112A*
NAXSKH12A112A*
NAXSKH15A112A*
NAXSKH18A112A*

Unit: inch

OUTDOOR UNIT

REQUIRED SPACE

† 20 in. (500 mm) or more when front and sides of the unit are clear

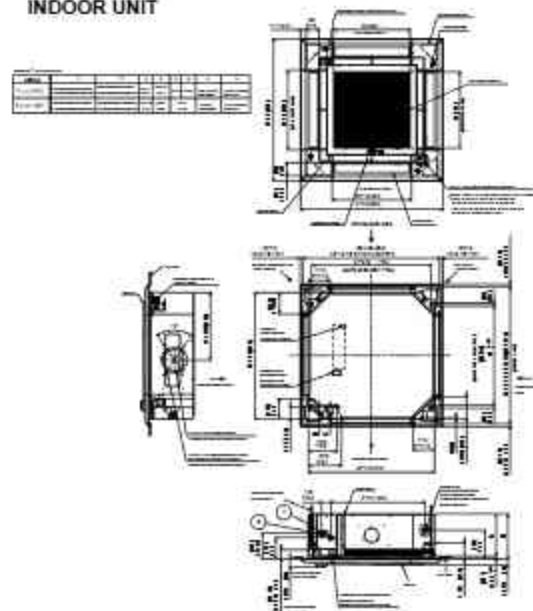


† When any 2 sides of left, right and rear of the unit are clear

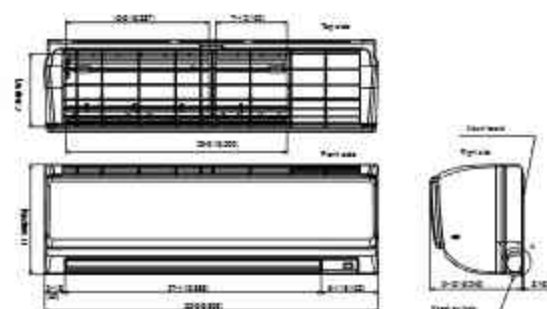


External Dimensions: P-Series

PLA-A12EA7 PLA-A18EA7 PLA-A24EA7
PLA-A30EA7 PLA-A36EA7 PLA-A42EA7
INDOOR UNIT

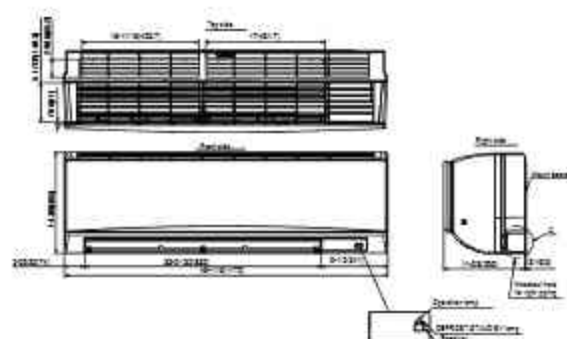


PKA-A12HA7 PKA-A18HA7
INDOOR UNIT

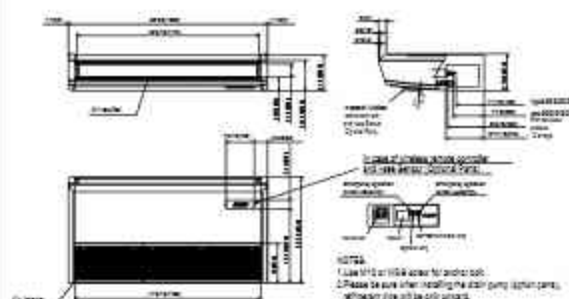


Unit: inch/cm

PKA-A24KA7 PKA-A30KA7 PKA-A36KA7
INDOOR UNIT

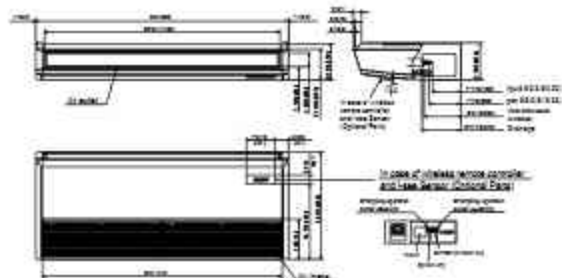


PCA-A24KA7 PCA-A30KA7
INDOOR UNIT

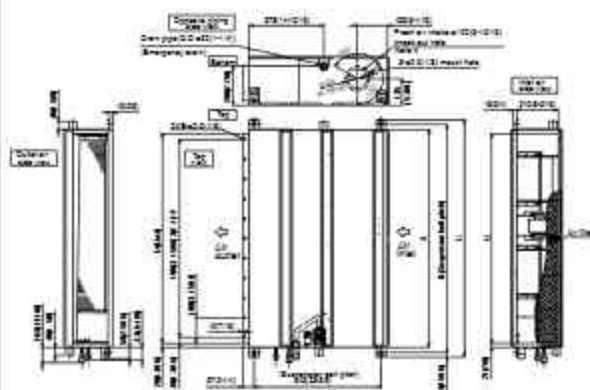


P-Series

PCA-A38KA7 PCA-A42KA7 INDOOR UNIT

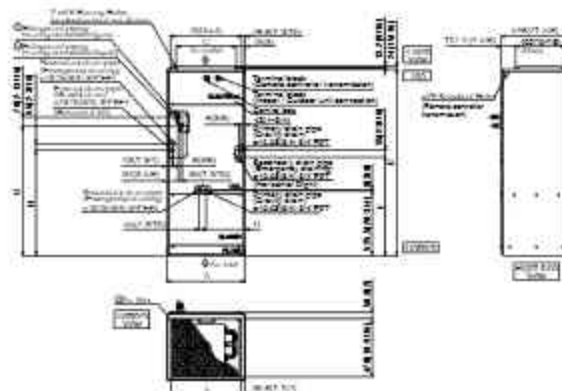


PEAD-A09AA7 PEAD-A12AA7 PEAD-A15AA7 PEAD-A18AA7 PEAD-A24AA7 PEAD-A30AA7 PEAD-A36AA7 PEAD-A42AA7 INDOOR UNIT



Model	1	2	3	4	5	6	7
PEAD-A09AA7	200	200	200	200	200	200	200
PEAD-A12AA7	200	200	200	200	200	200	200
PEAD-A15AA7	200	200	200	200	200	200	200
PEAD-A18AA7	200	200	200	200	200	200	200
PEAD-A24AA7	200	200	200	200	200	200	200
PEAD-A30AA7	200	200	200	200	200	200	200
PEAD-A36AA7	200	200	200	200	200	200	200
PEAD-A42AA7	200	200	200	200	200	200	200

PVA-A12AA7 PVA-A18AA7 PVA-A24AA7 PVA-A30AA7 PVA-A36AA7 PVA-A42AA7 INDOOR UNIT

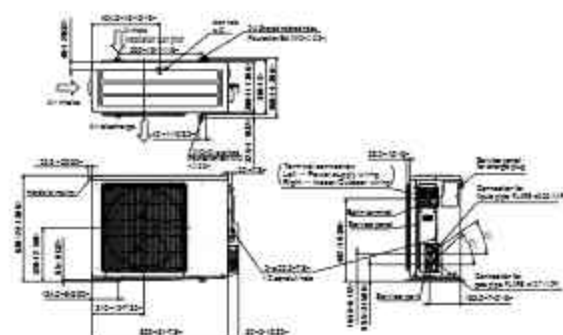


Model	1	2	3	4	5	6	7
PVA-A12AA7	200	200	200	200	200	200	200
PVA-A18AA7	200	200	200	200	200	200	200
PVA-A24AA7	200	200	200	200	200	200	200
PVA-A30AA7	200	200	200	200	200	200	200
PVA-A36AA7	200	200	200	200	200	200	200
PVA-A42AA7	200	200	200	200	200	200	200

P-Series

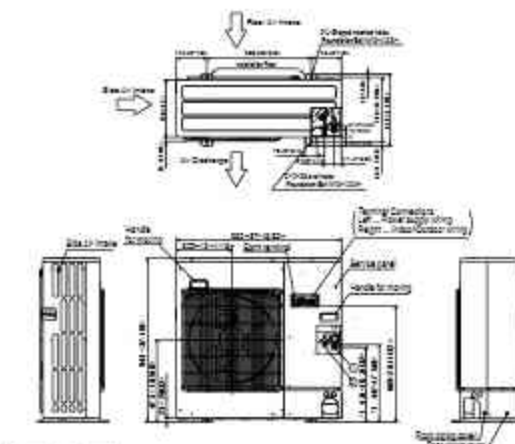
PUZ-A12NKA7 PUZ-A12NKA7-BS
PUZ-A18NKA7 PUZ-A18NKA7-BS
PUY-A12NKA7 PUY-A12NKA7-BS
PUY-A18NKA7 PUY-A18NKA7-BS

OUTDOOR UNIT



PUZ-A24NHA7 PUZ-A24NHA7-BS PUZ-HA24NHA
PUZ-A30NHA7 PUZ-A30NHA7-BS
PUY-A24NHA7 PUY-A24NHA7-BS
PUY-A30NHA7 PUY-A30NHA7-BS

OUTDOOR UNIT

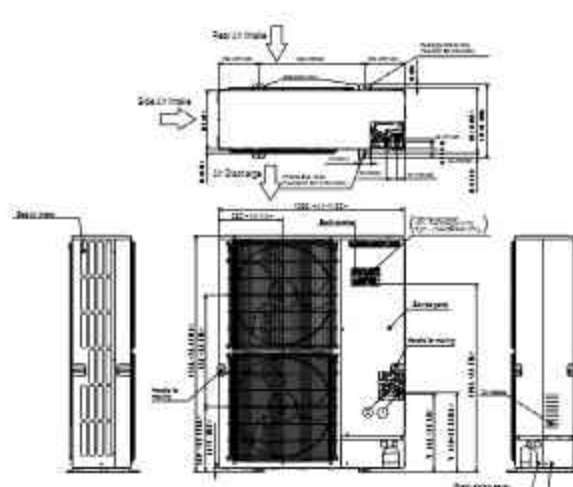


Example of Notes

- ① - Refrigerant (R410A) connection (1/4" NPT) (1/4" NPT)
- ② - Refrigerant (R410A) pipe connection (1/4" NPT) (1/4" NPT)
- ③ - Refrigerant (R410A) connection (1/4" NPT) (1/4" NPT)

PUZ-A36NKA7 PUZ-A36NKA7-BS
PUZ-A42NKA7 PUZ-A42NKA7-BS
PUY-A36NKA7 PUY-A36NKA7-BS
PUY-A42NKA7 PUY-A42NKA7-BS

OUTDOOR UNIT

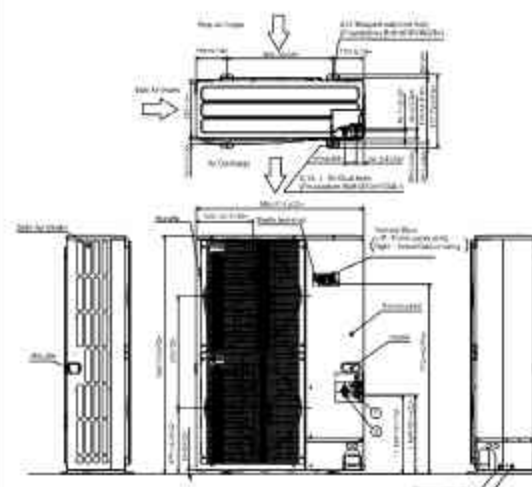


Example of Notes

- ① - Refrigerant (R410A) connection (1/4" NPT) (1/4" NPT)
- ② - Refrigerant (R410A) pipe connection (1/4" NPT) (1/4" NPT)
- ③ - Refrigerant (R410A) connection (1/4" NPT) (1/4" NPT)

PUZ-HA30NHA5
PUZ-HA36NHA5

OUTDOOR UNIT



Example of Notes

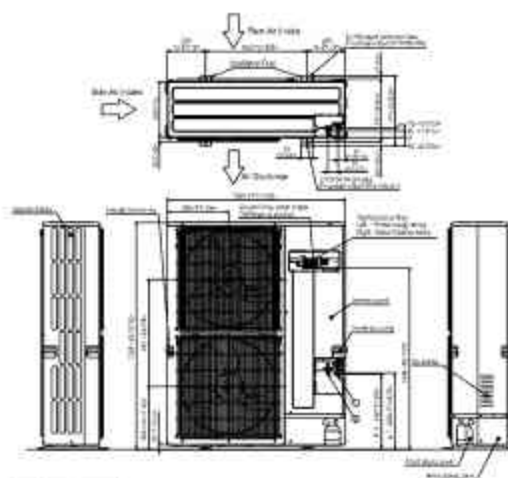
- ① - Refrigerant (R410A) connection (1/4" NPT) (1/4" NPT)
- ② - Refrigerant (R410A) pipe connection (1/4" NPT) (1/4" NPT)
- ③ - Refrigerant (R410A) connection (1/4" NPT) (1/4" NPT)

P-Series

PUZ-HA42NKA

OUTDOOR UNIT

Unit: inch



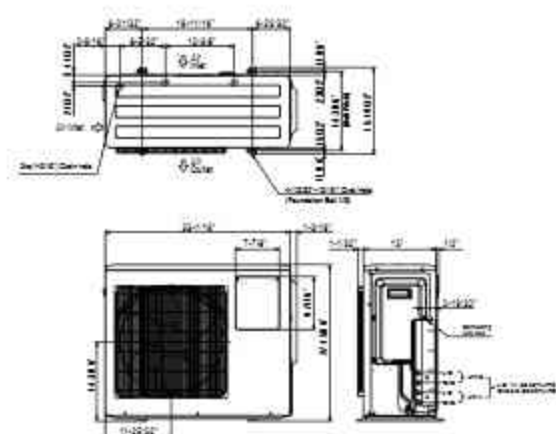
Example of Notes

- *1 - Indication of 100% pipe connection (1/2" ID) 0.40-0.45
 *2 - Indication of 100% pipe connection (1/2" ID) 0.40-0.45
 *3 - Indication of 100% pipe connection (1/2" ID) 0.40-0.45

External Dimensions: MX Model

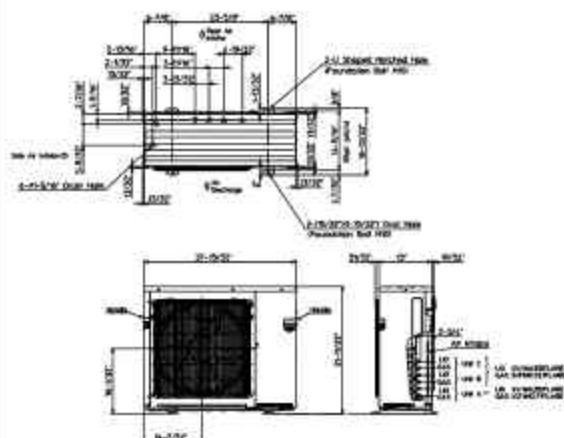
NAXMMX20A122A*

OUTDOOR UNIT



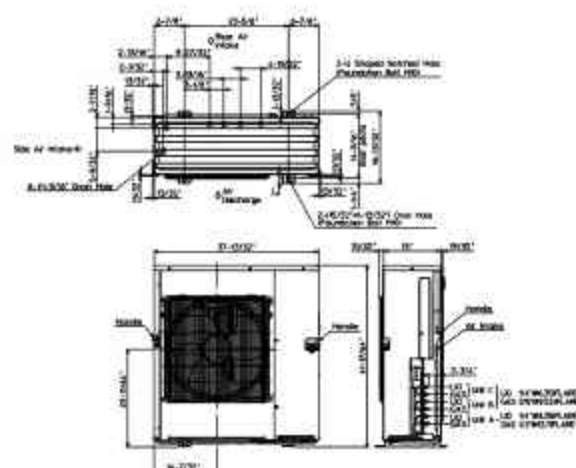
NAXMMX24A132A* NAXMMX30A132A* NAXMMX36A142A*

OUTDOOR UNIT



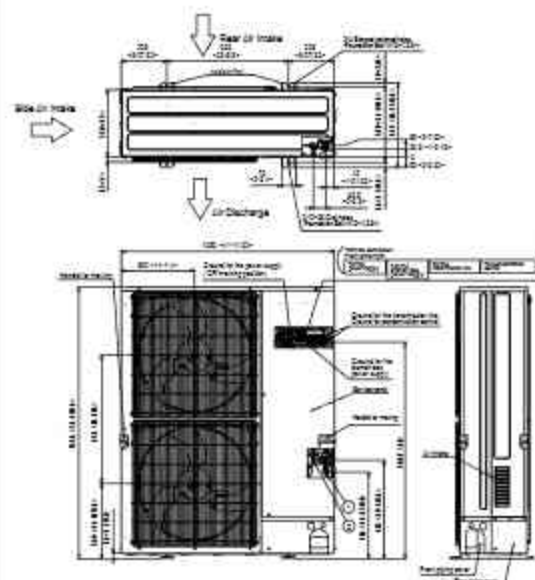
NAXMMX42A152A* NAXMPH20A122A* NAXMPH24A132A* NAXMPH30A132A*

OUTDOOR UNIT



NAXMMX48A182A* NAXMMX60A182A* NAXMPH36A142B* NAXMPH42A152B* NAXMPH48A182B*

OUTDOOR UNIT



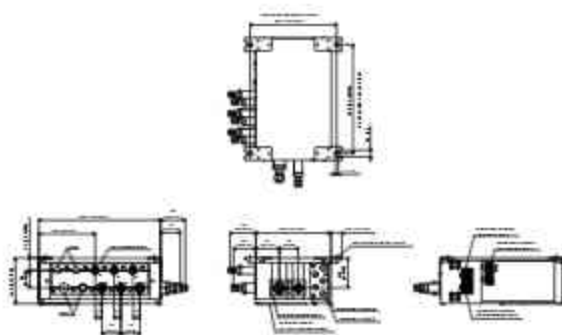
Example of Notes

--- Dimensions shall conform to ASHRAE 90.1-2010
--- All dimensions are in inches (mm)

MX Model

TAC-MKA32BC

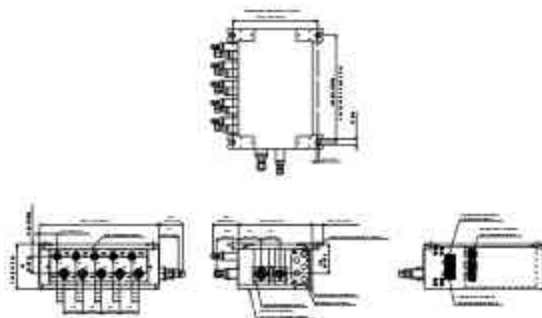
Branch Box



SUPPLEMENTARY FEATURES				UNIT PRICE	
OPTION	DESCRIPTION	CODE	UNIT PRICE	UNIT PRICE	UNIT PRICE
0	Standard	0	0.00	0.00	0.00
1	1/2" NPT	1	0.00	0.00	0.00
2	3/4" NPT	2	0.00	0.00	0.00
3	1" NPT	3	0.00	0.00	0.00

TAC-MKA52BC

Branch Box



SUPPLEMENTARY FEATURES				UNIT PRICE	
OPTION	DESCRIPTION	CODE	UNIT PRICE	UNIT PRICE	UNIT PRICE
0	Standard	0	0.00	0.00	0.00
1	1/2" NPT	1	0.00	0.00	0.00
2	3/4" NPT	2	0.00	0.00	0.00
3	1" NPT	3	0.00	0.00	0.00

Unit: inch/cm

for a greener tomorrow



Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

⚠ NOTICE

- Do not install indoor units in areas (e.g. mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction
- Our air-conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A
- When installing or relocating or servicing our air-conditioning equipment, use only the specified refrigerant (R410A) to charge the refrigerant lines
- Do not mix it with any other refrigerant and do not allow air to remain in the lines
- If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards
- The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety

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