



# AIR CONDITIONING and HEAT PUMP PRODUCTS

***INVERTER***



September 2013

## The Global Trusted Air Conditioning Brand

In the 55 years since its establishment, the Panasonic Air Conditioning Group has grown into a global company. Through its continuous quest for product innovations, the group has evolved from manufacturing compressors to providing comprehensive Air Conditioning solutions. This has earned Panasonic, the reputation as the most trusted brand for superior quality and reliable products.

### HISTORY of Panasonic Air Conditioners 1958-2013

- |   |   |   |
|---|---|---|
| <p><b>1958</b>   Started production and sales of Home Coolers<br/>The Electrical Appliance Business Group (Kadoma) started cooler production in March 1958. Started sales in May under the "Home Cooler" name.</p>  |   | <p><b>1998</b>   Introduced GAS Heater Air Conditioner 14KGS11</p>  |
| <p><b>1961</b>   Started exports of Home Coolers</p>  |   | <p><b>2001</b>   Introduced first VRF "ECO-Multi" to USA</p>  |
| <p><b>1965</b>   Launched Room Coolers</p>  |  | <p><b>2003</b>   Launched first R410a refrigerant Ductless A/C to USA<br/>Launched EcoCute as a result of better energy-saving technology<br/>Launched accumulator-less, high-efficiency, CO<sub>2</sub> scroll compressor for EcoCute<br/>Began production of Multi-split packaged air conditioner (mini-VRF)</p>                            |
| <p><b>1968</b>   Began development of Rotary Compressors<br/>Later, their high efficiency and high quality attracted domestic and overseas air conditioner manufactures. Began external sales.</p>  |   | <p><b>2005</b>   Launched air conditioner automatic filter cleaning function (AC robot)<br/>Product became extremely successful in the Japanese market. Since then, Panasonic launched a series of innovative products such as airstream robots and motion sensors which significantly improved Panasonic's air conditioner market share.</p> |
| <p><b>1972</b>   Established overseas business base in Malaysia<br/>MAICO was established in Malaysia as the Aircon Group's first overseas base. From this time, MAICO started to export to Japan, Indonesia, Australia, and other markets. Panasonic started operating a twin-base system with a presence in Japan and Malaysia.</p> |  | <p><b>2006</b>   Renewed ECO-Multi to ECO-i. revised the line-up to inverter driven<br/>Aggregated global production of Panasonic compressors reached 200 million units</p>   |
| <p><b>1983</b>   Launched inverter Air Conditioner<br/>Started sales of Panasonic's first inverter air conditioners and has since gained increasing popularity. Inverter became the future technology of air conditioner market.<br/>Launched Ductless Air Conditioners to USA</p>  |   | <p><b>2008</b>   In 2008 Energy Conservation Grand Prizes, EcoCute won its first Director General Prize of Agency of Natural Resources and Energy, while Panasonic air conditioner won the Chairman Prize of the Energy Conservation Center of Japan Started Air to Water heat pump business in Europe</p>                                    |
| <p><b>1985</b>   Began development of Scroll Compressors<br/>Began development of scroll compressors, offering high efficiency, low noise, and low vibration in comparison to rotary compressors.</p>   |  |    |
| <p><b>1989</b>   Introduced Simultaneous Heat &amp; Cool VRF</p>  |   | <p><b>2009</b>   Established air conditioner dedicated sales company in Europe (PHAAE)<br/>Panasonic HA Air-Conditioning Europe (PHAAE) strengthened the commercial air conditioning business.</p>  |
| <p><b>1990</b>   Launched world's first Compact Scroll Compressor-equipped Air Conditioner</p>  |   | <p><b>2011</b>   Integration of Sanyo HVAC USA into Panasonic Corporation of North America.</p>   |
| <p><b>1992</b>   Developed industry's smallest outdoor air conditioning unit: "Chi-size"</p>  |   | <p><b>2013</b>   Celebrating the 30th anniversary of marketing in the USA.</p>  |
| <p><b>1993</b>   Established Matsushita-Wanbao (Guangzhou) Air Conditioner (MWAC)<br/>Established Matsushita-Wanbao (Guangzhou) Compressor (MWCC)<br/>Established Matsushita Air Conditioner Engineering (Matsushita ACE)</p>   |   |  <p>Serving the US Ductless market since 1983</p>  |
| <p><b>1995</b>   Started the export of VRF</p>  |   |   |



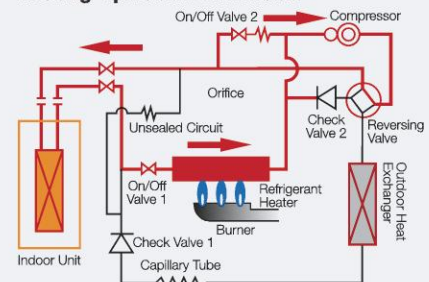
# Technological Topics

**1998** Introduced revolutionary Gas Heater Air Conditioner 14KGS11.

That maintains a consistent heating performance level, regardless of how much the ambient temperature goes down outside.



**Heating Operation Schematic**



**2001** Launched VRF "Eco-Multi" to the US market.

Eco-Multi was displayed at the AHR show, and was introduced to other ductless manufacturers. It's the new individual air-conditioning system that effectively combines a power control compressor and an electronic refrigerant control valve.



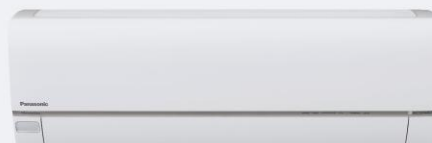
**2003** First R410a driven ductless model, 24KS62R, was introduced.

Again, blazed a trail to other ductless manufacturers.



**2013** Introduce EXTERIOS series to US market

SEER 28.5 Highest Efficient model in Industry as of 2013/March



# Air Conditioners and Heat Pumps Lineup

## Panasonic: Your Best Choice in Ductless Split Air Conditioning and Heat Pump Systems

Features Chart/Explanation

Panasonic's Ductless Split Air Conditioner and Heat Pump products offer a wide range of versatile solutions for cooling and heating requirements for single or multiple rooms.




The Indoor unit (evaporator) is mounted inside the room. Enclosed in a handsome space saving cabinet, it is connected to the outdoor unit (condenser) via refrigerant lines and inter-unit wiring through a 3-1/2" opening in the wall. Since no ductwork is required, installation is simple, fast and efficient.

The indoor unit has been uniquely designed to provide whisper quiet operation while delivering comfort throughout the room (s).

Panasonic Ductless Split Systems bring together sleek styling in wall, duct or ceiling mounted systems, with whisper-quiet operations, quality and reliability you can count on.

Since the launch of Ductless Split in 1983, after 30 years of renovation and experience, Panasonic is adding new Deluxe Wall Mount "EXTERIOS" series, the most highly efficient in the ductless industry, in the product lineup. Again, Panasonic is moving forward, leaving the others behind.

### HEAT PUMP MODELS

		Btu/h	9,000	12,000	18,000	24,000	26,000	30,000	36,000	42,000
		MODEL (System)	XE9PKUA E9NKUA	XE12PKUA, E12NKUA KE12NB41	E18NKUA KE18NB4U	E24NKUA	26PEK1U6, 26PET1U6 26PEU1U6, 26PEF1U6	KE30NKU	KE36NKU, 36PET1U6 36PEU1U6, 36PEF1U6	42PET1U6 42PEU1U6
Standard Type AIR CONDITIONER	Low Ambient Type HEAT PUMP WITHOUT HEATER	EXTERIOS Wall Mounted	 NEW CS-XE9PKUA CU-XE9PKUA	 NEW CS-XE12PKUA CU-XE12PKUA						
		Wall Mounted	 CS-E9NKUAW CU-E9NKUA	 CS-E12NKUAW CU-E12NKUA	 CS-E18NKUA CU-E18NKUA	 CS-E24NKUA CU-E24NKUA		 CS-KE30NKU CU-KE30NKU	 CS-KE36NKU CU-KE36NKU	
		Wall Mounted					 S-26PK1U6			
		Ceiling Suspended					 S-26PT1U6		 S-36PT1U6	 S-42PT1U6
		Ceiling Recessed		 CS-KE12NB41	 CS-KE18NB4UW		 S-26PU1U6		 S-36PU1U6	 S-42PU1U6
		Concealed Duct					 S-26PF1U6		 S-36PF1U6	
		Outdoor		 CU-KE12NK1	 CU-KE18NKU			 U-26PE1U6		 U-36PE1U6

### COOLING ONLY MODELS / STANDARD TYPE

		Btu/h	9,000	12,000	18,000	22,000
		MODEL (System)	S9NKU-1	S12NKU-1	S18NKU-1, KS18NKU KS18NB4U	S22NKU-1
Standard Type AIR CONDITIONER	Wall Mounted	 CS-S9NKUW-1 CU-S9NKU-1	 CS-S12NKUW-1 CU-S12NKU-1	 CS-S18NKU-1 CU-S18NKU-1	 CS-S22NKU-1 CU-S22NKU-1	














\*Please refer to the model code on the back of this catalog.

Features Chart/Explanation

**COOLING ONLY MODELS / LOW AMBIENT TYPE**

Btu/h		9,000	12,000	18,000	24,000	26,000	30,000	36,000	42,000	
MODEL (System)		S9NKUA	S12NKUA KS12NB41A	S18NKUA KS18NB4UA	S24NKUA	26PSK1U6, 26PST1U6 26PSU1U6, 26PSF1U6	KS30NKUA	KS36NKUA, 36PST1U6 36PSU1U6, 36PSF1U6	42PST1U6 42PSU1U6	
Low Ambient Type	AIR CONDITIONER									
	Wall Mounted	 CS-S9NKUA CU-S9NKUA	 CS-S12NKUA CU-S12NKUA	 CS-S18NKUA CU-S18NKUA	 CS-S24NKUA CU-S24NKUA			 CS-KS30NKU CU-KS30NKUA	 CS-KS36NKU CU-KS36NKUA	
	Wall Mounted					 S-26PK1U6				
	Ceiling Suspended					 S-26PT1U6		 S-36PT1U6	 S-42PT1U6	
	Ceiling Recessed		 CS-KS12NB41	 CS-KS18NB4UW		 S-26PU1U6		 S-36PU1U6	 S-42PU1U6	
	Concealed Duct					 S-26PF1U6		 S-36PF1U6		
Outdoor		 CU-KS12NK1A	 CU-KS18NKUA			 U-26PS1U6		 U-36PS1U6	 U-42PS1U6	

**MULTI ZONE MODELS**

Series		S series / E series		KS series / KE series				
Btu/h		9,000	12,000	7,000	9,000	12,000	18,000	24,000
AIR CONDITIONER	Indoor Unit	 CS-S9NKUW-1    CS-S12NKUW-1		 CS-MKS7NKU	 CS-MKS9NKU	 CS-MKS12NKU	 CS-MKS18NKU	 CS-MKS24NKU
	Ceiling Recessed				 CS-MKS9NB4U	 CS-MKS12NB4U	 CS-KS18NB4UW	
Outdoor Unit	Outdoor	 CU-ZS18NBU-1		 CU-3KS19NBU		 CU-4KS24NBU		 CU-4KS31NBU

Btu/h		9,000	12,000	7,000	9,000	12,000	18,000	24,000
HEAT PUMP	Indoor Unit	 CS-E9NKUAW    CS-E12NKUAW		 CS-MKE7NKU	 CS-MKE9NKU	 CS-MKE12NKU	 CS-MKE18NKU	 CS-MKE24NKU
	Ceiling Recessed				 CS-MKE9NB4U	 CS-MKE12NB4U	 CS-KE18NB4UW	
	Outdoor Unit	Outdoor	 CU-2E18NBU		 CU-3KE19NBU		 CU-4KE24NBU	

# Model Feature Chart

OP: Option

Features Chart/Explanation

		HEAT PUMPS								STANDARD	LOW-AMBIENT AIR CONDITIONERS								
		XE9PKUA XE12PKUA	E9NKUA E12NKUA E18NKUA E24NKUA	KE30NKU KE36NKU		26PEK1U6				S9NKU-1 S12NKU-1 S18NKU-1 S22NKU-1	S9NKUA S12NKUA S18NKUA S24NKUA	KS30NKUA KS36NKUA		26PSK1U6					
	Wall Mounted																		
	Ceiling Suspended																		26PST1U6 36PST1U6 42PST1U6
	Ceiling Recessed																		26PSU1U6 36PSU1U6 42PSU1U6
	Concealed Duct																		26PSF1U6 36PSF1U6
	ECONAVI	●																	
	Room Freeze Protection	●																	
	Microprocessor-Controlled Operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Wireless Remote Control	●	●	●	●	●	●	OP	OP	OP	●	●	●	●	●	OP	OP	OP	
	Wired Remote Control	OP	OP	OP	OP	OP	●	●	●	-	OP	OP	OP	OP	●	●	●	●	
	Self-Diagnosing Function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Dry Mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	5 Fan Speeds and Automatic Fan Operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Air Sweep Control	●	●	●	●	●	●	●	●	-	●	●	●	●	●	●	●	●	-
	Louver Control	●	●	●	●	●	●	●	●	-	●	●	●	●	●	●	●	●	-
	Automatic Heating and Cooling Changeover	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-
	Night Setback Mode for Cooling and Heating	-	-	-	●	-	-	-	-	-	-	●	●	-	-	-	-	-	-
	Hot Start Heating System	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-
	24-Hour Clock with ON/OFF Program Timer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	1-Hour OFF Timer	-	-	●	●	-	-	-	-	-	-	●	●	-	-	-	-	-	-
	Weekly Timer	-	-	-	-	OP	●	●	●	-	-	-	-	OP	●	●	●	●	
	System Controller	-	-	-	-	OP	OP	OP	OP	-	-	-	-	OP	OP	OP	OP	OP	
	Filter Sign	-	-	-	-	●	●	-	-	-	-	-	-	●	-	●	-	-	
	Automatic Restart Function after Power Failure	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Fresh Air Intake	-	-	-	●	-	OP*	OP	OP*	-	-	-	●	-	OP*	OP	OP*	OP*	
	Branch Extension	-	-	-	●	-	-	●	●	-	-	-	●	-	●	●	●	●	
	Built-in Drain Pump	-	-	-	●	-	-	●	●	-	-	-	●	-	-	●	●	●	
	Low Ambient Operation	●	●	●	-	●	●	●	●	-	●	●	●	●	●	●	●	●	●
	Electric Expansion Valve	●	●	●	●	●	●	●	●	(S18/22)	●	●	●	●	●	●	●	●	●
	ODP=0 Refrigerant	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Quiet Mode	●	●	●	●	-	-	-	-	●	●	●	●	-	-	-	-	-	-
	Anti-microbial Filter	-	●	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-
	Blue Fin Condenser	●	●	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-

\* Field Supplied

# Features

## ECO NAVI ECONAVI

ECONAVI features intelligent Human Activity Sensor and new technologies that can detect human activity and absence, and optimize air conditioner operation according to room conditions.

## Room Freeze Protection\*

Room Freeze Protection mode helps prevent plumbing damage due to sub-Freezing Temperature. This mode automatically turns on the compressor for heat pump operation if the room temperature falls to about 46°F.

\*This function may not be performed if the unit is not powered, or if the unit is unable to operate such as in protection mode. Please consult with the HVAC installers or professional for details.

## Microprocessor-Controlled Operation

Microprocessor control ensures that the temperature and humidity levels in the room are always comfortable.

## Wireless Remote Control

Panasonic's infrared Remote Control with an easy-to-read LCD Display, gives the user the capability to adjust & set: temperature, sweep (louver control), fan speeds, timer and more, for complete automatic operation.

## DRY Dry Mode

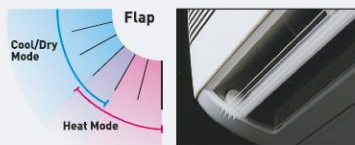
By coupling compressor and fan operation, intermittent operation can be precisely controlled according to room temperature, so that air is efficiently dehumidified.

## 5 Fan Speeds and Automatic Fan Operation

Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low. According to room temperature to maintain a comfortable airflow throughout the room.

## Air Sweep Control

The air sweep function moves the louver up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.



## Louver Control

Louver can be manually set to the desired angle by remote control.

## Automatic Heating and Cooling Changeover

After setting the temperature and functions you desire, just relax. If the room temperature is higher than the set temperature, cooling operation begins. If the room temperature is lower than the set temperature, heating operation begins. During normal thermostat cycle operation, cooling and heating operations automatically change in accordance with set temperature, time and room temperature (Single Zone Heat Pump unit only).

## 1H Timer 1-hour OFF Timer

When this button is pushed either while the unit is operating or while it is stopped, the unit will operate for one hour, then switch off automatically.

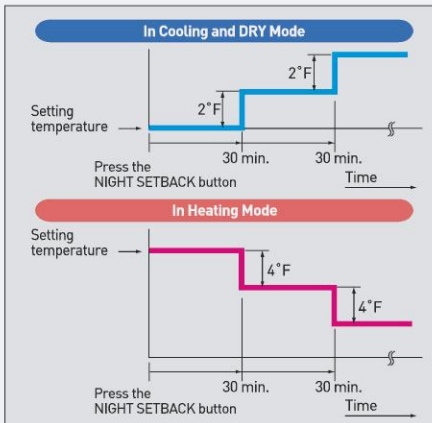
## 24H PROGRAM 24-hour Clock with ON/OFF Program Timer

The remote control unit allows you to set a wide variety of timer-based operations. Such functions include automatic ON/OFF with a timer setting, same time ON/OFF every day, ON timer, OFF timer and Combination timer.

## NIGHT SETBACK Night Setback Mode for Cooling and Heating

**Cooling and DRY Mode:** With the Night Setback Mode, the air conditioner automatically raises the setting temperature 2°F after 30 minutes, and then another 2°F after the next 30 minutes.

**Heating Mode:** With the Night Setback Mode, the setting temperature is automatically lowered 4°F after 30 minutes, and then another 4°F after the next 30 minutes. This saves energy without sacrificing comfort and is ideal for gentle cooling and heating.



## Automatic Restart Function after Power Failure

This feature allows the system to automatically resume operation at its preset program, after power is restored from a power failure when the remote control is in the room.

## Hot Start Heating System

Right from the start, air is warm and comfortable. The Hot Start Heating System prevents any cold blasts at the beginning while the heat pump is warming up (Heat pump unit only).

## DP Built-In Drain Pump

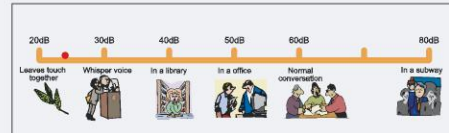
Max. head 20 inches from the discharge of the indoor unit. Condensation pump is only for allowing drain line to meet minimum gravity flow requirements.

## ELECTRIC Electric Refrigerant Control Valve

The circulation volume of the refrigerant is controlled by a pulse type electric control valve. In order to attain optimum efficiency, when the power is switched ON, the opening degree of the electric control valve is controlled between 90 and 480 steps.

## Quiet Mode

LOW, low fan speed for extra quiet operation.



## Filter Sign

Filter sign informs you when filter maintenance is necessary.

2,500hrs : U1-series / 150 hrs: K1-series



(Example of CZ-RTC2)

## Self-Diagnosing Function

Units are equipped with Self-Diagnosing Function (methods are difference depending on the models). This makes it easier to diagnose malfunctions, greatly reducing service labor (Wired remote controller).



(Example of CZ-RTC2)

## Anti-microbial Filter

Anti-microbial Filter by 3M. This filter is treated to inhibit the growth of mold and mildew, and helps create clean air.

### Test Comparison

	Microbial Growth Rating	
	7 days	28days
Anti-microbial(Filter)	No growth	No growth
Normal Filter Paper	60% growth	60% growth

\*Tested per ASTM G21-96

## Blue Fin Condenser

Condensers can take a beating from exposure to salty air, rain and other corrosive factors. Panasonic has extended the life of its condensers with an original anti-rust coating.

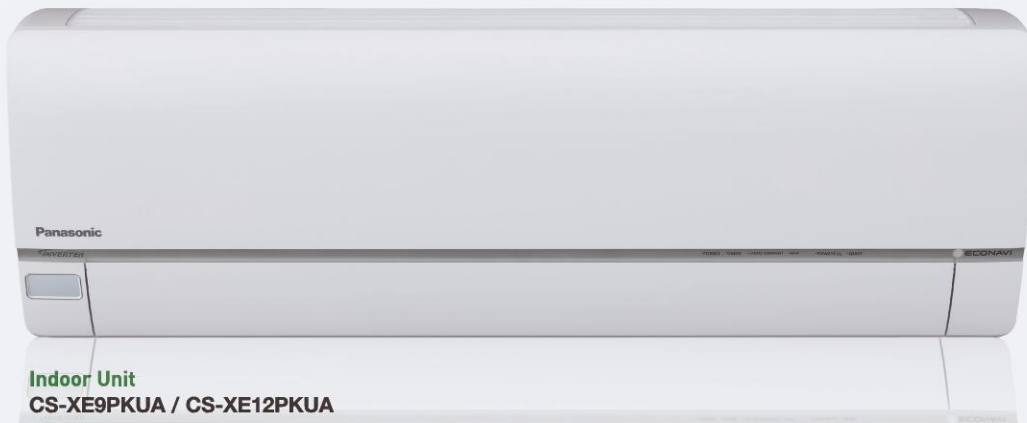


## New Deluxe Wall Mounted Heat Pump Series

# Panasonic Adding New Air Conditioner Lineup— Setting Another Mile Stone in the US Ductless Split History

Breakthrough technologies such as the inverter enable the highest energy efficiency\* in the industry. Thanks to this exceptional performance, you enjoy even more comfort.

## EXTERIOS



**Wireless Remote  
Controller**







**SEER  
28.5**

## No.1\* High Energy Efficiency

Breakthrough technologies, such as the inverter, enable the highest energy efficiency\* in the industry. Thanks to this exceptional performance, you will enjoy even more comfort.

\*CS/CU-XE9PKUA as of March 2013



**LOW  
AMBIENT  
OPERATION**

## Powerful Heating at Low Ambient Operation

Heating is still possible even if the temperature drops as low as 0°F for reliable heating in even the harshest winter.



**INVERTER**

## Inverter Technology

Panasonic's inverter provides optimum power control and extremely efficient operation by changing the power supply frequency. The result is speedy, flexible operation using less electricity.



## Panasonic ductless split system designed to care for you

With more than 50 years of experience of exporting to more than 125 countries around the world, Panasonic is unquestionably one of the leaders in the air conditioning business. With more than 200 million compressors produced, you are assured the high quality of Panasonic's air conditioners.



## New added unique features

# Advanced Inverter Technology— Less Energy and More Comfort



The inverter constantly adjusts compressor rotation speed to provide optimum performance at all times. This extremely precise operation enables quick cooling or heating while reducing power consumption compared to conventional non-inverter units.

### Reduces Electricity Consumption

Panasonic Inverter air conditioners are designed to give you the exceptional energy savings performance while ensuring you stay comfortable at all times.

### Constant Comfort

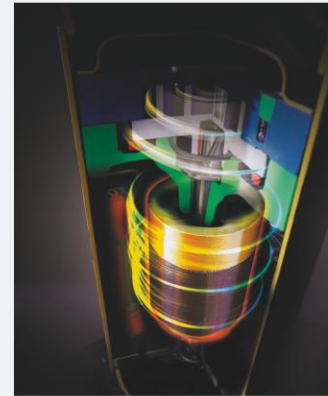
Precise temperature control with a wide power output range enables an inverter air conditioner to meet different room occupancy levels – thus ensuring constant comfort.

### Quick Cooling (Heating)

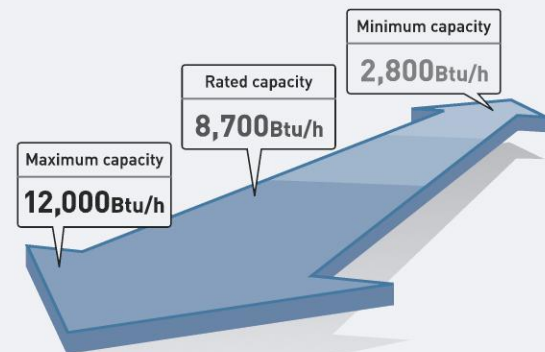
Panasonic Inverter air conditioners can operate with higher cooling power during the start up period to cool the room faster than non-Inverter models.

### Inverter Indoor Quiet Operation

Panasonic Inverter air conditioner's indoor operating noise has been reduced by 5dB as the Inverter constantly varies its output power to enable more precise temperature control.



### ■ Even Wider Output Power Range

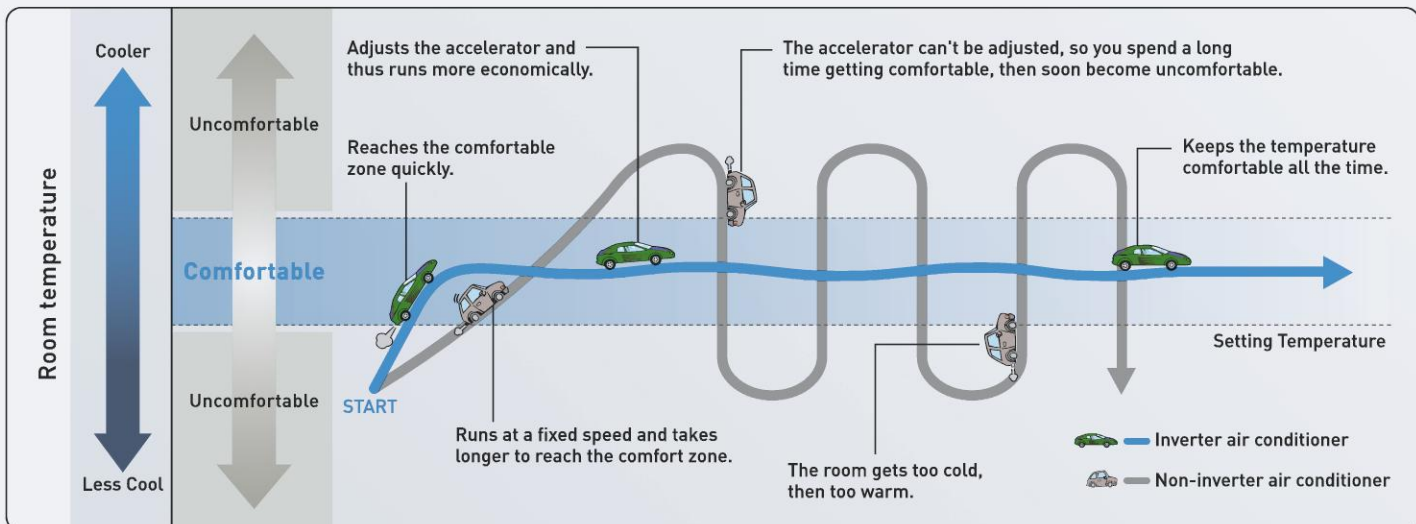


The graph shows XE9PKUA's wide power output range during cooling.

### ■ The Advantages of Inverter Control

Comparing inverter and non-inverter air conditioners to cars...

\*Image of output power fluctuation



# ECONAVI with Intelligent Eco Sensors



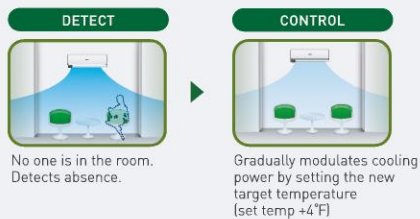
Panasonic has employed ECONAVI (Human Detection Technology) in its air conditioners. Since in 2007 and has perfected the feature since its launch. Panasonic is now introducing ECONAVI air conditioner to the US market.

ECONAVI sensors moderate the temperature. This smart technology monitors and senses when there are people in the room and determines how much activity is occurring, then automatically adjusts the temperature setting accordingly for optimum operation.

The low activity detection mode monitors the room, decreasing cooling when there is less movement, while the absence detection feature switches to a slightly less powerful cooling mode when there is no one in the room at all.

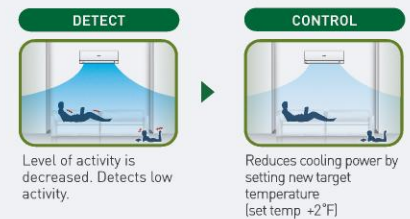
## Absence Detection

ECONAVI detects human absence from the room and raises the target temperature.

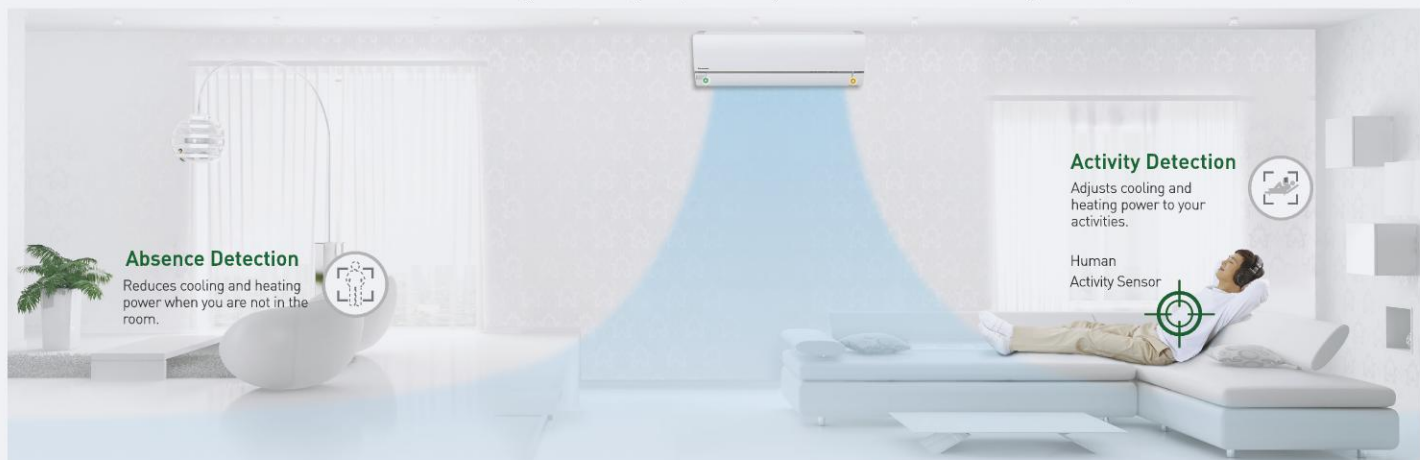


## Activity Detection

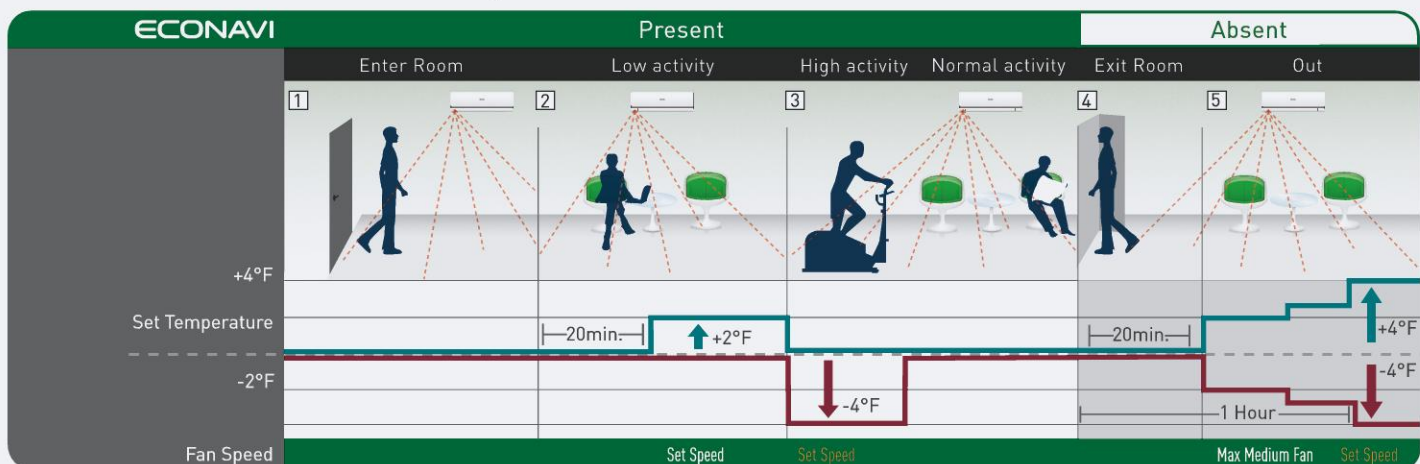
ECONAVI detects changes in activity levels and reduces the cooling power by adjusting set temperature.



ECONAVI in cooling mode: \*The target temperature set by ECONAVI will be restored automatically to the set temperature when the new condition is detected.



## How Does ECONAVI Human Activity Work?

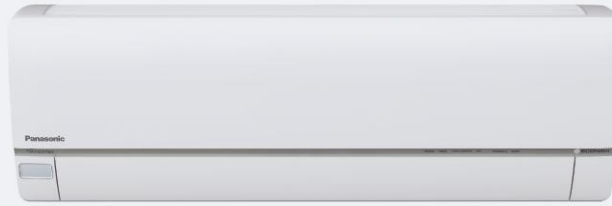


# Wall-Mounted Heat Pumps

**XE9PKUA / XE12PKUA**

## EXTERIOS

**NEW**



**Indoor Unit**  
**CS-XE9PKUA / CS-XE12PKUA**



**Outdoor Unit**  
**CU-XE9PKUA / CU-XE12PKUA**



Wireless Remote Controller



Wired Remote Controller (CZ-RD516C) (Optional)



Wall Mounted Heat Pumps

Wall Mounted Heat Pumps					
Model No.	XE9PKUA			XE12PKUA	
Unit Model No.	Indoor Unit		Outdoor Unit	Indoor Unit	
	CS-XE9PKUA		CU-XE9PKUA	CS-XE12PKUA	
			CU-XE12PKUA		
<b>Performance &amp; Electrical Ratings</b>					
Capacity	Cooling	Btu/h	8,700(2,800-12,000)		11,500(2,800-14,000)
	Heating	Btu/h	12,000(3,000-18,000) (10,600 at 17°F)		13,800(3,000-23,000) (13,500 at 17°F)
Moisture Removal	High	Pints/H	1.3		2.3
Dry Air Flow	High	CFM	405		530
SEER	Cooling		28.5		25.5
EER	Cooling		16.1		14.35
HSPF	Heating		12.5		12.0
Power Supply		V, Phase, Hz	230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz
Running Amps	Cooling	A	2.5/2.8		3.8/4.2
	Heating	A	4.0/4.5		5.2/5.8
Power Input	Cooling	W	540(150-850)		800(150-1,050)
	Heating	W	860(150-1,650)		1,150(150-2,100)
Back-up Heater		kW	---		---
Fuse or Circuit Breaker	Capacity	A	15		20
<b>Features</b>					
Controls	Microprocessor			Microprocessor	
Low Ambient Control	Equipped			Equipped	
Wireless Remote Controller	Included			Included	
Wired Remote Controller (optional)	CZ-RD516C			CZ-RD516C	
Fan Speeds	5 Speeds + Auto			5 Speeds + Auto	
Timer	24hr Program			24hr Program	
Air Deflection	Horizontal	Manual			Manual
	Vertical	Automatic			Automatic
Air Filter	Washable + Anti Microbial Filter			Washable + Anti Microbial Filter	
Refrigerant	R-410A			R-410A	
Refrigerant control	Electric Expansion Valve			Electric Expansion Valve	
Operation Sound	In(Hi / Lo/ Q-Lo)	dB-A	42 / 25 / 20		45 / 28 / 20
	Outdoor(Hi)	dB-A	48		49
Refrigerant Piping	Type	Flare			Flare
	Discharge	inches	1/4"		1/4"
	Suction	inches	3/8"		1/2"
Refrigerant Pipe Length		Ft.	Max. 66		Max. 66
Elevation Difference*	Outdoor Above	Ft.	Max. 49		Max. 49
	Outdoor Below	Ft.	Max. 49		Max. 49
<b>Dimensions &amp; Weight</b>					
Height		inches	Indoor Unit	Outdoor Unit	Indoor Unit
			11-5/8"	27-3/8"	11-5/8"
Width		inches	34-9/32"	34-15/32"	34-9/32"
Depth		inches	10-1/16"	12-5/8"	10-1/16"
Net Weight		Lbs.	24	97	24

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)

# Wall-Mounted Heat Pumps

## E9NKUA / E12NKUA



**Indoor Unit**  
CS-E9NKUAW / CS-E12NKUAW



**Outdoor Unit**  
CU-E9NKUA / CU-E12NKUA



Wireless Remote Controller



Wired Remote Controller (CZ-RD516C) (Optional)

## E18NKUA / E24NKUA



**Indoor Unit**  
CS-E18NKUA / CS-E24NKUA



**Outdoor Unit**  
CU-E18NKUA / CU-E24NKUA



Wireless Remote Controller



Wired Remote Controller (CZ-RD516C) (Optional)



Wall Mounted Heat Pumps

Wall Mounted Heat Pumps									
Model No.	E9NKUA		E12NKUA		E18NKUA		E24NKUA		
	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	
Unit Model No.	CS-E9NKUAW	CU-E9NKUA	CS-E12NKUAW	CU-E12NKUA	CS-E18NKUA	CU-E18NKUA	CS-E24NKUA	CU-E24NKUA	
<b>Performance &amp; Electrical Ratings</b>									
Capacity	Cooling	Btu/h	8,500(4,100-10,200)	12,000(4,100-13,300)	17,100(5,800-19,800)	24,000(5,800-27,200)			
	Heating	Btu/h	11,200(4,100-14,100)	13,800(4,100-16,300)	20,400(5,800-20,800)	28,800(5,800-29,200)			
Moisture Removal	High	Pints/H	1.3	2.5	3.0	7.6			
Dry Air Flow	High	CFM	395	425	650	650			
SEER	Cooling		21.0	20.0	18.0	17.5			
EER	Cooling		13.1	12.0	13.2	10.2			
HSPF	Heating		10.5	10.6	8.5	8.5			
Power Supply	V, Phase, Hz		230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz			
Running Amps	Cooling	A	3.1(-7)	4.7(-7.8)	6.30 / 7.20	10.80 / 11.90			
	Heating	A	5.4(-7)	5.8(-7.8)	7.50 / 8.60	11.40 / 12.60			
Power Input	Cooling	W	650(250-850)	1,000(250-1,150)	1,300(430-1,600)	2,350(430-2,720)			
	Heating	W	1,150(200-1,500)	1,300(200-1,710)	1,600(380-1,650)	2,500(380-2,660)			
Back-up Heater		kW	---	---	---	---			
Fuse or Circuit Breaker Capacity		A	15	15	20	20			
<b>Features</b>									
Controls	Microprocessor		Microprocessor		Microprocessor		Microprocessor		
Low Ambient Control	Equipped		Equipped		Equipped		Equipped		
Wireless Controller	Included		Included		Included		Included		
Wired Remote Controller(optional)	CZ-RD516C		CZ-RD516C		CZ-RD516C		CZ-RD516C		
Fan Speeds	5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto		
Timer	24hr Program		24hr Program		24hr Program		24hr Program		
Air Deflection	Horizontal	Manual		Manual		Automatic		Automatic	
	Vertical	Automatic		Automatic		Automatic		Automatic	
Air Filter	Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		
Refrigerant	R-410A		R-410A		R-410A		R-410A		
Refrigerant control	Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		
Operation Sound	In(Hi / Me / Lo/ Qt)	dB-A	40 / 25 / 20	43 / 28 / 20	47/39/36	48/40/37			
	Outdoor(Hi)	dB-A	47	48	49	51			
Refrigerant Piping	Type	Flare		Flare		Flare		Flare	
	Discharge	inches	1/4"	1/4"	1/4"	1/4"			
	Suction	inches	3/8"	1/2"	1/2"	5/8"			
Refrigerant Pipe Length		Ft.	Max. 66	Max. 66	Max. 100	Max. 100			
Elevation Difference*	Outdoor Above	Ft.	Max. 49	Max. 49	Max. 49	Max. 49			
	Outdoor Below	Ft.	Max. 49	Max. 49	Max. 49	Max. 49			
<b>Dimensions &amp; Weight</b>									
Height	inches	11-7/16"	21-9/32"	11-7/16"	21-9/32"	11-7/16"	31-5/16"	11-7/16"	31-5/16"
Width	inches	34-9/32"	30-23/32"	34-9/32"	30-23/32"	42-5/32"	34-15/32"	42-5/32"	34-15/32"
Depth	inches	8-1/16"	11-13/32"	8-1/16"	11-13/32"	9-9/32"	12-5/8"	9-9/32"	12-5/8"
Net Weight	Lbs.	20.0	82.0	20.0	82.0	26.0	132.0	26.0	132.0

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)

# Wall-Mounted Heat Pumps

## 26PEK1U6



**Indoor Unit**  
S-26PK1U6



**Outdoor Unit**  
U-26PE1U6



Wireless Remote Controller



Wired Remote Controller CZ-RTC2 (optional)



## KE30NKU / KE36NKU



**Indoor Unit**  
CS-KE30NKU / CS-KE36NKU



**Outdoor Unit**  
CU-KE30NKU / CU-KE36NKU



Wireless Remote Controller



Wired Remote Controller CZ-RD515U (optional)



Wall Mounted Heat Pumps

Wall Mounted Heat Pumps

Model No.	26PEK1U6						KE30NKU		KE36NKU				
	Indoor Unit		Outdoor Unit		Indoor Unit		Outdoor Unit		Indoor Unit		Outdoor Unit		
Unit Model No.	S-26PK1U6		U-26PE1U6		CS-KE30NKU		CU-KE30NKU		CS-KE36NKU		CU-KE36NKU		
<b>Performance &amp; Electrical Ratings</b>													
Capacity	Cooling	Btu/h	25,200 (9,500-25,200)		30,600 (10,900-30,600)		34,000 (10,900-34,000)						
	Heating	Btu/h	29,200 (8,000-29,200)		33,000 (14,000-33,000)		36,000 (14,000-36,000)						
Moisture Removal	High	Pints/H	8.1		9.57		10.64						
	Dry Air Flow	Hi / Med / Low	CFM		559 / 475 / 390		630 / 530 / 412		630 / 530 / 412				
SEER	Cooling		14.9		16		16						
EER	Cooling		8.9		9.3		8.5						
HSPF	Heating		10.2		9.0		9.0						
Power Supply	V, Phase, Hz		230V / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz						
Running Amps	Cooling	A	15.3 / 16.9		16.5 (5 - 16.5) / 18.0		20 (5 - 20) / 21.9						
	Heating	A	14.0 / 15.5		15.3 (4.5 - 15.3) / 16.3		18.2 (4.5 - 18.2) / 19.9						
Power Input	Cooling	W	2,840 / 2,840		3,290		4,000						
	Heating	W	2,620 / 2,620		3,070		3,650						
Back-up Heater		kW	---		---		---						
Fuse or Circuit Breaker Capacity	A		15		30		35		45				
<b>Features</b>													
Controls			Microprocessor				Microprocessor						
Low Ambient Control			Built-in 0°F				Built-in 0°F						
Wireless Remote Controller			Included				Included						
Wired Remote Controller (optional)			CZ-RTC2				CZ-RD515U & CZ-RC515UA						
Fan Speeds			3 and Automatic Control / Variable				Hi / Me / Lo & Auto						
Timer			24-hr Program				1hr OFF and 24-hr Program						
Air Deflection	Horizontal		---				Manual						
	Vertical		Automatic				Automatic						
Air Filter			Washable				Washable						
Refrigerant			R-410A				R-410A						
Refrigerant control			Electric Expansion Valve				Electric Expansion Valve						
Operation Sound	In(Hi / Me / Lo/ Ot)	dB-A	41 / 37 / 34		49 / 44 / 39		49 / 44 / 39						
	Outdoor(Hi)	dB-A	49		55		55						
Refrigerant Piping	Type		Flare				Flare						
	Discharge	inches	3/8"				3/8"						
	Suction	inches	5/8"				5/8"						
Refrigerant Pipe Length		Ft.	Max. 165				Max. 164						
Elevation Difference*	Outdoor Above	Ft.	Max. 100				Max. 100						
	Outdoor Below	Ft.	Max. 50				Max. 50						
<b>Dimensions &amp; Weight</b>													
Height	inches	Indoor Unit		Outdoor Unit		Indoor Unit		Outdoor Unit		Indoor Unit		Outdoor Unit	
Width	inches	12-63/64"		30-23/32"		11-3/16"		35-13/16"		11-3/16"		35-13/16"	
Depth	inches	44-7/8"		37"		41-15/16"		37-1/32"		41-15/16"		37-1/32"	
Net Weight	Lbs.	8-31/32"		13-3/8"		9-1/16"		13-3/8"		9-1/16"		13-3/8"	
		40.0		128.0		32.0		185.0		32.0		185.0	

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)

# Wall-Mounted Air Conditioners

Standard Models

## S9NKU-1 / S12NKU-1



**Indoor Unit**  
CS-S9NKUW-1 / CS-S12NKUW-1

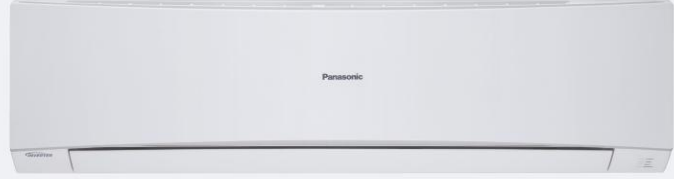


**Outdoor Unit**  
CU-S9NKU-1 /  
CU-S12NKU-1



Wireless  
Remote  
Controller

## S18NKU-1 / S22NKU-1



**Indoor Unit**  
CS-S18NKU-1 / CS-S22NKU-1



**Outdoor Unit**  
CU-S18NKU-1 /  
CU-S22NKU-1



Wireless  
Remote  
Controller



Wall Mounted Air Conditioner

Wall Mounted Air Conditioners										
Model No.	S9NKU-1		S12NKU-1		S18NKU-1		S22NKU-1			
	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit		
Unit Model No.	CS-S9NKUW-1	CU-S9NKU-1	CS-S12NKUW-1	CU-S12NKU-1	CS-S18NKU-1	CU-S18NKU-1	CS-S22NKU-1	CU-S22NKU-1		
<b>Performance &amp; Electrical Ratings</b>										
Capacity	Cooling	Btu/h	8,500(4,100-10,200)		11,900(4,100-13,100)		17,100(4,400-19,800)		21,000(4,400-23,400)	
	Heating	Btu/h	---		---		---		---	
Moisture Removal	High	Pints/H	1.3		2.3		3.6		6.1	
	High	CFM	400		425		650		650	
SEER	Cooling		17.5		17.5		17.5		17.0	
EER	Cooling		12.1		11.9		10.4		9.3	
HSPF	Heating		---		---		---		---	
Power Supply	V, Phase, Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz	
Running Amps	Cooling	A	3.3(3.7[-4.1])		4.6(5.1[-5.4])		7.5[-9]		10[-10.8]	
	Heating	A	---		---		---		---	
Power Input	Cooling	W	700(250-900)		1,000(250-1,150)		1650(250-1950)		2250(250-2,550)	
	Heating	W	---		---		---		---	
Back-up Heater	kW		---		---		---		---	
Fuse or Circuit Breaker Capacity	A		15		15		20		25	
<b>Features</b>										
Controls	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control	---		---		---		---		---	
Wireless Remote Controller	Included		Included		Included		Included		Included	
Wired Remote Controller (optional)	---		---		---		---		---	
Fan Speeds	5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto	
Timer	24hr Program		24hr Program		24hr Program		24hr Program		24hr Program	
Air Deflection	Horizontal		Manual		Manual		Automatic		Automatic	
	Vertical		Automatic		Automatic		Automatic		Automatic	
Air Filter	Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		Washable + Anti Microbial Filter	
Refrigerant	R-410A		R-410A		R-410A		R-410A		R-410A	
Refrigerant control	Capillary Tube		Capillary Tube		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In(Hi / Lo/ Q-Lo)	dB-A	40 / 25 / 20		43 / 28 / 20		47 / 39 / 36		47 / 39 / 36	
	Outdoor(HI)	dB-A	47		48		47		50	
Refrigerant Piping	Type		Flare		Flare		Flare		Flare	
	Discharge	inches	1/4"		1/4"		1/4"		1/4"	
	Suction	inches	3/8"		1/2"		1/2"		5/8"	
Refrigerant Pipe Length	Ft.		Max. 49		Max. 49		Max. 66		Max. 66	
Elevation Difference*	Outdoor Above	Ft.	Max. 16		Max. 16		Max. 49		Max. 49	
	Outdoor Below	Ft.	Max. 16		Max. 16		Max. 49		Max. 49	
<b>Dimensions &amp; Weight</b>										
Height	inches		Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Width	inches		11-7/16"	21-9/32"	11-7/16"	21-9/32"	11-7/16"	31-5/16"	11-7/16"	31-5/16"
Depth	inches		34-9/32"	30-23/32"	34-9/32"	30-23/32"	42-5/32"	34-15/32"	42-5/32"	34-15/32"
Net Weight	Lbs.		20.0	82.0	20.0	82.0	26.0	115.0	26.0	117.0

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)

# Wall-Mounted Air Conditioners

Low Ambient Models

## S9NKUA / S12NKUA



**Indoor Unit**  
CS-S9NKUA / CS-S12NKUA



**Outdoor Unit**  
CU-S9NKUA /  
CU-S12NKUA



Wireless  
Remote  
Controller



Wired Remote  
Controller  
CZ-RD516C  
(optional)

## S18NKUA / S24NKUA



**Indoor Unit**  
CS-S18NKUA / CS-S24NKUA



**Outdoor Unit**  
CU-S18NKUA /  
CU-S24NKUA



Wireless  
Remote  
Controller



Wired Remote  
Controller  
CZ-RD516C  
(optional)



Wall Mounted Air Conditioner

Unit Model No.			S9NKUA		S12NKUA		S18NKUA		S24NKUA	
			CS-S9NKUA	CU-S9NKUA	CS-S12NKUA	CU-S12NKUA	CS-S18NKUA	CU-S18NKUA	CS-S24NKUA	CU-S24NKUA
Capacity	Cooling	Btu/h	8,500 (4,100-10,200)		12,000 (4,100-13,300)		17,100(5,800-19,800)		24,000(5,800-27,200)	
	Heating	Btu/h	---		---		---		---	
Moisture Removal	High	Pints/H	1.3		2.5		3.0		---	
Dry Air Flow	High	CFM	395		425		650		---	
SEER	Cooling		21.0		20.0		18.0		17.5	
EER	Cooling		13.1		12.0		13.2		10.2	
HSPF	Heating		---		---		---		---	
Power Supply		V, Phase, Hz	230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz		230/208V, 1PH, 60Hz	
Running Amps	Cooling	A	3.1/3.5(-4.4)		4.7/5.2(-6.8)		6.30/7.20		10.75/11.90	
	Heating	A	---		---		---		---	
Power Input	Cooling	W	650(250-850)		1,000(250-1,150)		1,300(430-1,600)		2,350(430-2,720)	
	Heating	W	---		---		---		---	
Back-up Heater		kW	---		---		---		---	
Fuse or Circuit Breaker Capacity		A	15		15		20		25	
Controls			Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control			Equipped		Equipped		Equipped		Equipped	
Wireless Remote Controller			Included		Included		Included		Included	
Wired Remote Controller (Optional)			CZ-RD516C		CZ-RD516C		CZ-RD516C		CZ-RD516C	
Fan Speeds			5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto		5 Speeds + Auto	
Timer			24hr Program		24hr Program		24hr Program		24hr Program	
Air Deflection	Horizontal		Manual		Manual		Automatic		Automatic	
	Vertical		Automatic		Automatic		Automatic		Automatic	
Air Filter			Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		Washable + Anti Microbial Filter		Washable + Anti Microbial Filter	
Refrigerant			R-410A		R-410A		R-410A		R-410A	
Refrigerant control			Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In(Hi / Lo/ Q-Lo)	dB-A	40 / 25 / 20		43 / 28 / 20		47/39/36		48/40/37	
	Outdoor(Hi)	dB-A	47		48		---		51	
Refrigerant Piping	Type		Flare		Flare		Flare		Flare	
	Discharge	inches	1/4"		1/4"		1/4"		1/4"	
	Suction	inches	3/8"		1/2"		1/2"		5/8"	
Refrigerant Pipe Length		Ft.	Max. 66		Max. 66		Max. 100		Max. 131	
Elevation Difference*	Outdoor Above	Ft.	Max. 49		Max. 49		Max. 49		Max. 49	
	Outdoor Below	Ft.	Max. 49		Max. 49		Max. 49		Max. 49	
Height		inches	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
		inches	11-7/16"	21-9/32"	11-7/16"	21-9/32"	11-7/16"	31-5/16"	11-7/16"	31-5/16"
Width		inches	34-9/32"	30-23/32"	34-9/32"	30-23/32"	42-5/32"	34-15/32"	42-5/32"	34-15/32"
		inches	8-1/16"	11-13/32"	8-1/16"	11-13/32"	9-9/32"	12-5/8"	9-9/32"	12-5/8"
Net Weight		Lbs.	20.0	82.0	20.0	82.0	26.0	132.0	26.0	132.0

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)



# Wall-Mounted Air Conditioners

Low Ambient Models

26PSK1U6



Indoor Unit  
S-26PK1U6



Outdoor Unit  
U-26PS1U6



Wireless Remote Controller



Wired Remote Controller  
CZ-RTC2 (optional)

KS30NKUA / KS36NKUA



Indoor Unit  
CS-KS30NKU/CS-KS36NKU



Outdoor Unit  
CU-KS30NKUA / CU-KS36NKUA



Wireless Remote Controller



Wired Remote Controller  
CZ-RD515U (optional)



Wall Mounted Air Conditioner

Wall Mounted Air Conditioners							
Model No.	26PSK1U6		KS30NKUA		KS36NKUA		
	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	
Unit Model No.	S-26PK1U6	U-26PS1U6	CS-KS30NKU	CU-KS30NKUA	CS-KS36NKU	CU-KS36NKUA	
<b>Performance &amp; Electrical Ratings</b>							
Capacity	Cooling	Btu/h		25,200 (9,500-25,200)		30,600 (10,900-30,600)	
	Heating	Btu/h		---		34,000 (10,900-34,000)	
Moisture Removal	High	Pints/H		8.1		9.57	
Dry Air Flow	Hi / Med / Low	CFM		559 / 475 / 390		630 / 530 / 412	
SEER	Cooling			14.9		16.0	
EER	Cooling			8.9		9.3	
HSPF	Heating			---		---	
Power Supply		V, Phase, Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz	
Running Amps	Cooling	A		15.3 / 16.9		16.5 / 18	
	Heating	A		---		20 / 21.9	
Power Input	Cooling	W		2,840 / 2,840		3,290	
	Heating	W		---		---	
Back-up Heater		kW		---		---	
Fuse or Circuit Breaker Capacity	A	A		15		30	
						35	
						45	
<b>Features</b>							
Controls	Microprocessor			Microprocessor			
Low Ambient Control	Built-in 0°F			Built-in 0°F			
Wireless Remote Controller	Included			Included			
Wired Remote Controller(optional)	CZ-RTC2			CZ-RD515U & CZ-RC515UA			
Fan Speeds	Hi / Me / Lo & Auto			Hi / Me / Lo & Auto			
Timer	24-hr Program			1hr OFF and 24-hr Program			
Air Deflection	Horizontal	Manual			Manual		
	Vertical	Automatic			Automatic		
Air Filter	Washable			Washable			
Refrigerant	R-410A			R-410A			
Refrigerant control	Electric Expansion Valve			Electric Expansion Valve			
Operation Sound	In(Hi / Me / Lo/ Qt)	dB-A		48 / 42 / 38		49 / 44 / 39	
	Outdoor(Hi)	dB-A		49		55	
Refrigerant Piping	Type	Flare			Flare		
	Discharge	inches		3/8"		3/8"	
	Suction	inches		5/8"		5/8"	
Refrigerant Pipe Length		Ft.		Max. 165		Max. 164	
Elevation Difference	Outdoor Above	Ft.		Max. 100		Max. 100	
	Outdoor Below	Ft.		Max. 50		Max. 50	
<b>Dimensions &amp; Weight</b>							
Height		Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
	inches	12-63/64"	30-23/32"	11-3/16"	35-13/16"	11-3/16"	35-13/16"
Width		inches	37"	41-15/16"	37-1/3"	41-15/16"	37-1/32"
Depth		inches	13-3/8"	9-1/16"	13-3/8"	9-1/16"	13-3/8"
Net Weight		Lbs.	48.0	128.0	32	183	32
							183

This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)

# RAC Multi-System Indoor Units

S/E Series

## Fits with Various Sizes of Rooms and Lifestyle

The multi-system type allows a single outdoor unit to be connected to 2 indoor units. It also solves the problem of limited installation space and does not clutter the exterior of your home.



**CS-S9NKUW-1 / CS-S12NKUW-1**  
**CS-E9NKUAW / CS-E12NKUAW**



Wireless Remote Controller "Included" with each indoor



RAC Multi System

## Indoor Unit: Wall Mounted Type

			Cooling Only	
Model No.			CS-S9NKUW-1	CS-S12NKUW-1
Power Source			230V / 208V, 1PH, 60Hz	
Running Ampere	A		4.1 / 4.5	4.7 / 5.2
Power Input	W		850	1,000
Capacity	Cooling	Btu/h	9,600	10,900
Moisture Removal	High	Pints/H	1.1	1.3
Unit Dimensions (HxWxD)	inch		11-7/16" x 34-9/32" x 8-1/16"	
Net Weight	Lbs.		9.0	9.0
Air Circulation (High)	Cooling	CFM	400	425
Operating Sound (H/L)	Cooling	dB-A	40 / 25 / 20	43 / 23 / 20
	Heating	dB-A	---	---
Refrigerant Tube Diameter	Narrow Tube	inch	1/4"	1/4"
	Wide Tube	inch	3/8"	1/2"
Elevation Difference*	Outdoor Above	Ft.	Max. 49	Max. 49
	Outdoor Below	Ft.	Max. 49	Max. 49

			Heat Pump	
Model No.			CS-E9NKUAW	CS-E12NKUAW
Power Source			230V / 208V, 1PH, 60Hz	
Running Ampere			4.1 / 4.5	4.7 / 5.2
Power Input			850 / 1,150	1,000 / 1,300
Capacity	Cooling	Btu/h	9,600	10,900
	Heating	Btu/h	13,700	15,300
Moisture Removal	High	Pints/H	1.1	1.3
Unit Dimensions (HxWxD)	inch		11-7/16" x 34-9/32" x 8-1/16"	
Net Weight	Lbs.		9.0	9.0
Air Circulation (High)	Cooling	CFM	395	425
	Heating	CFM	430	475
Operating Sound	Cooling	dB-A	40 / 25 / 20	43 / 28 / 20
	Heating	dB-A	42 / 29 / 26	44 / 35 / 32
Refrigerant Tube Diameter	Narrow Tube	inch	1/4"	1/4"
	Wide Tube	inch	3/8"	1/2"
Elevation Difference*	Outdoor Above	Ft.	Max. 49	Max. 49
	Outdoor Below	Ft.	Max. 49	Max. 49

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the P.34 in the catalog for more detail.)

# RAC Multi-System Outdoor Units



For **2** Rooms



CU-2S18NBU-1 / CU-2E18NBU

Model No.	CU-2S18NBU-1			CU-2E18NBU	
	Cooling			Cooling	Heating
Capacity	Btu/h	16,700			20,200
Air Circulation	High	CFM	1,313		
Number of Connectable Indoor Units	2				
SEER	Cooling	18.0			
EER	Cooling	11.5			
HSPF	Heating	---			8.8
<b>Electrical Rating</b>					
Power Supply	V, Phase, Hz	230V / 208V, 1PH, 60Hz			230V / 208V, 1PH, 61Hz
Running Ampere	A	6.9 / 7.6		8.1 / 9.0	
Power Input	W	1,450			1,850
Maximum Fuse Size	Amps	25			
<b>Features</b>					
Controls	Microprocessor			Microprocessor	
Fan Speeds	Auto			Auto	
Compressor	DC Inverter			DC Inverter	
Refrigerant / Amount Charged at Shipment	R-410A / 67.8 Oz			R-410A / 67.8 Oz	
Refrigerant Control	Electric Expansion Valve			Electric Expansion Valve	
Operation Sound	Hi	dB-A	48	48	49
Refrigerant Tubing Connections	Type: Flare				
Max. Allowable Tubing Length	Ft. Max.164 (82' per unit)				
Refrigerant Tube Diameter	Narrow Tube	inch	1/4"		
	Wide Tube	inch	3/8"		
<b>Dimensions &amp; Weight</b>					
Unit Dimensions	H x W x D	inch	31-5/16" x 34-15/32" (+3-3/4) x 12-5/8"		
Net Weight	Lbs.	152			

## CU-2S18NBU-1 & CU-2E18NBU-Cooling

Indoor unit combinations	Cooling Capacity(BTU/h)				Input Power (W)		Current, 208V (A)	Current, 230V (A)	Moisture Removal Volume pt/h	
	Room A	Room B	Total	min - max	Rating	min - max				
1 Room	CS-S9NKUW-1 / CS-E9NKUAW	9,600	---	9,600	6,200 - 11,200	850	390 - 1,020	4.5	4.1	1.1
	CS-S12NKUW-1* / CS-E12NKUAW*	10,900	---	10,900	6,300 - 12,800	1,000	390 - 1,230	5.2	4.7	1.3
2 Room	CS-S9NKUW-1 / CS-E9NKUAW + CS-S9NKUW-1 / CS-E9NKUAW	8,350	8,350	16,700	7,100 - 20,000	1,450	390 - 1,920	7.6	6.9	1.1 + 1.1
	CS-S9NKUW-1 / CS-E9NKUAW + CS-S12NKUW-1* + CS-E12NKUAW*	7,800	8,900	16,700	7,200 - 20,000	1,450	390 - 1,870	7.6	6.9	1.1 + 1.3
	CS-S12NKUW-1* / CS-E12NKUAW* + CS-S12NKUW-1* / CS-E12NKUAW*	8,350	8,350	16,700	7,200 - 20,000	1,450	390 - 1,840	7.6	6.9	1.3 + 1.3

## CU-2E18NBU-Heating

Indoor unit combinations	Heating Capacity(BTU/h)				Input Power (W)		Current, 208V (A)	Current, 230V (A)	Moisture Removal Volume pt/h	
	Room A	Room B	Total	min - max	Rating	min - max				
1 Room	CS-E9NKUAW	13,700	---	13,700	6,400 - 15,700	1,150	440 - 1,450	5.9	5.4	---
	CS-E12NKUAW	15,300	---	15,300	6,500 - 17,500	1,300	440 - 1,630	6.6	6.0	---
2 Room	CS-E9NKUAW + CS-E9NKUAW	10,100	10,100	20,200	7,100 - 24,600	1,850	420 - 2,310	9.0	8.1	---
	CS-E9NKUAW + CS-E12NKUAW*	9,400	10,800	20,200	7,200 - 24,600	1,850	420 - 2,290	9.0	8.1	---
	CS-E12NKUAW* + CS-E12NKUAW*	10,100	10,100	20,200	7,200 - 24,600	1,850	420 - 2,290	9.0	8.1	---

\*For CS-S12NKUW-1/CS-E12NKUAW, the pipe size reducer CZ-MA1P must be used when connecting with multi-zone outdoor unit.

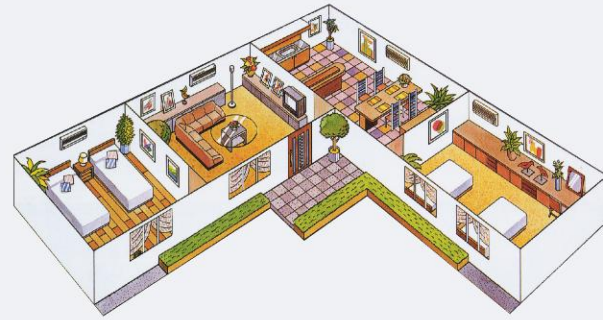
RAC Multi System

# RAC Multi-System Indoor Units

KS/KE Series

## Fits with Various Sizes of Rooms and Lifestyle

The multi-system type allows a single outdoor unit to be connected to 2 to 4 indoor units. It also solves the problem of limited installation space and does not clutter the exterior of your home.



- CS-MKS7NKU / CS-MKS9NKU / CS-MKS12NKU
- CS-MKS18NKU / CS-MKS24NKU
- CS-MKE7NKU / CS-MKE9NKU / CS-MKE12NKU
- CS-MKE18NKU / CS-MKE24NKU



Wireless Remote Controller (Included) with each indoor



Wired Remote Controller CZ-RD515U (optional)



## Indoor Unit: Wall Mounted Type

		Cooling Only				
Model No.		CS-MKS7NKU	CS-MKS9NKU	CS-MKS12NKU	CS-MKS18NKU	CS-MKS24NKU
Power Source		230V / 208V, 1 PH, 60 Hz				
Running Ampere	A	0.11 / 0.12	0.15 / 0.17	0.15 / 0.17	0.15 / 0.17	0.20 / 0.22
Power Input	W	25	35	35	35	45
Capacity	Cooling Btu/h	7,500	9,000	11,900	17,500	24,200
Moisture Removal	High Pints/H	2.77	3.40	4.26	4.89	4.89
Unit Dimensions (HxWxD)	inch	11"-7/32" x 32"-15/32" x 7"-7/16"			11"-23/32" x 41"-15/16" x 8"-19/32"	
Net Weight	Lbs.	19.8	19.8	19.8	26.5	26.5
Air Circulation (H.M.L)	Cooling CFM	241 / 224 / 212	259 / 241 / 212	282 / 259 / 218	500 / 447 / 377	541 / 500 / 435
Operating Sound (H/L)	Cooling dB-A	33 / 23	34 / 23	36 / 25	41 / 28	44 / 30
	Heating dB-A	---	---	---	---	---
Refrigerant Tube Diameter	Narrow Tube inch	1/4"	1/4"	1/4"	1/4"	1/4"
	Wide Tube inch	3/8"	3/8"	3/8"	1/2"	5/8"
Elevation Difference*	Outdoor Above Ft.	Max. 50	Max. 50	Max. 50	Max. 50	Max. 50
	Outdoor Below Ft.	Max. 50	Max. 50	Max. 50	Max. 50	Max. 50

		Heat Pump				
Model No.		CS-MKE7NKU	CS-MKE9NKU	CS-MKE12NKU	CS-MKE18NKU	CS-MKE24NKU
Power Source		230V-208V, 1 PH, 60 Hz				
Running Ampere	A	0.11 / 0.12	0.15 / 0.17	0.15 / 0.17	0.15 / 0.17	0.20 / 0.22
Power Input	W	25	35	35	35	45
Capacity	Cooling Btu/h	7,500	9,000	11,900	17,500	24,200
	Heating Btu/h	8,500	12,200	14,300	20,400	29,000
Moisture Removal	High Pints/H	2.77	3.40	4.26	4.89	4.89
Unit Dimensions (HxWxD)	inch	11"-7/32" x 32"-15/32" x 7"-7/16"			11"-23/32" x 41"-15/16" x 8"-19/32"	
Net Weight	Lbs.	19.8	19.8	19.8	26.5	26.5
Air Circulation (H.M.L)	Cooling CFM	241 / 224 / 212	259 / 249 / 212	282 / 257 / 218	500 / 447 / 377	541 / 500 / 435
	Heating CFM	271 / 241 / 218	282 / 271 / 218	294 / 271 / 218	500 / 447 / 377	541 / 481 / 435
Hi / Me / Lo / Qt	Cooling dB-A	33 / 30 / 27 / 23	34 / 31 / 28 / 23	36 / 33 / 29 / 25	41 / 38 / 34 / 28	44 / 41 / 38 / 30
Operating Sound	Heating dB-A	33 / 30 / 27 / 23	34 / 31 / 28 / 23	34 / 31 / 29 / 25	40 / 37 / 34 / 28	43 / 40 / 37 / 30
Refrigerant Tube Diameter	Narrow Tube inch	1/4"	1/4"	1/4"	1/4"	1/4"
	Wide Tube inch	3/8"	3/8"	3/8"	1/2"	5/8"
Elevation Difference*	Outdoor Above Ft.	Max. 50	Max. 50	Max. 50	Max. 50	Max. 50
	Outdoor Below Ft.	Max. 50	Max. 50	Max. 50	Max. 50	Max. 50

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalog)

RAC Multi System

# RAC Multi-System Indoor Units

KS/KE Series

## Fits with Various Sizes of Rooms and Lifestyle

The multi-system type allows a single outdoor unit to be connected to 2 to 4 indoor units. It also solves the problem of limited installation space and does not clutter the exterior of your home.



CS-MKS9NB4U / CS-MKS12NB4U / CS-KS18NB4UW

CS-MKE9NB4U / CS-MKE12NB4U / CS-KE18NB4UW



Wireless Remote Controller (Included) with each indoor



Wired Remote Controller CZ-RD515U Wire Kit CZ-RC515U (Optional)



## Indoor Unit: Ceiling Recessed Type

				Cooling Only		
Model No.			CS-MKS9NB4U	CS-MKS12NB4U	CS-KS18NB4UW	
Grille Assemblie			CZ-18BT1U			
Power Source			230V / 208V, 1 PH, 60 Hz			
Running Ampere	A		0.10 / 0.11	0.11 / 0.12	0.15 / 0.16	
Power Input	W		16	17	22	
Capacity	Cooling	Btu/h	9,000	11,900	17,500	
Moisture Removal	High	Pints/H	3.4	4.26	4.89	
Unit Dimensions (HxWxD)	inch		12.5"-16" x 24"-19/32" x 24"-19/32"			
Net Weight	Lbs		41.3			
Air Circulation (H.M.L)	Cooling	CFM	221 / 206 / 194	235 / 206 / 194	341 / 294 / 253	
Operating Sound (H/L)	Cooling	dB-A	33 / 32 / 31	34 / 32 / 31	44 / 40 / 36	
	Heating	dB-A	---	---	---	
Refrigerant Tube Diameter	Narrow Tube	inch	1/4"	1/4"	1/4"	
	Wide Tube	inch	3/8"	3/8"	1/2"	
Elevation Difference*	Outdoor Above	Ft.	Max. 50	Max. 50	Max. 50	
	Outdoor Below	Ft.	Max. 50	Max. 50	Max. 50	

				Heat Pump		
Model No.			CS-MKE9NB4U	CS-MKE12NB4U	CS-KE18NB4UW	
Grille Assemblie			CZ-18BT1U			
Power Source			230V-208V, 1 PH, 60 Hz			
Running Ampere	A		0.10 / 0.11 & 0.12 / 0.13	0.11 / 0.12 & 0.13 / 0.14	0.15 / 0.16 & 0.19 / 0.20	
Power Input	W		16 / 18	17 / 19	22 / 27	
Capacity	Cooling	Btu/h	9,000	11,900	17,500	
	Heating	Btu/h	12,300	13,600	20,400	
Moisture Removal	High	Pints/H	3.4	4.26	4.89	
Unit Dimensions (HxWxD)	inch		12.5"-16" x 24"-19/32" x 24"-19/32"			
Net Weight	Lbs		41.3			
Air Circulation (H.M.L)	Cooling	CFM	221 / 206 / 194	235 / 206 / 194	341 / 294 / 253	
	Heating	CFM	247 / 235 / 224	268 / 247 / 224	383 / 324 / 265	
Operating Sound(H/L)	Cooling	dB-A	33 / 32 / 31	34 / 32 / 31	44 / 40 / 36	
	Heating	dB-A	34 / 33 / 32	35 / 34 / 32	44 / 40 / 36	
Refrigerant Tube Diameter	Narrow Tube	inch	1/4"	1/4"	1/4"	
	Wide Tube	inch	3/8"	3/8"	1/2"	
Elevation Difference*	Outdoor Above	Ft.	Max. 50	Max. 50	Max. 50	
	Outdoor Below	Ft.	Max. 50	Max. 50	Max. 50	

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalog)

RAC Multi System

# RAC Multi-System Outdoor Units

KS/KE Series



Up to **3** Rooms

Connectable from 2 to 3 Indoor Units



CU-3KS19NBU  
CU-3KE19NBU

RAC Multi System

## Outdoor Unit

Model No.	CU-3KS19NBU		CU-3KE19NBU	
Performance	Cooling		Cooling	Heating
Capacity	Btu/h	17,000	17,000	23,200
Air Circulation	High	1,707	1,707	1,707
Number of Connectable Indoor Units	CFM	2 - 3	2 - 3	2 - 3
SEER	Cooling	18.0	18.0	18.0
EER	Cooling	12.0	12.0	12.0
HSPF	Heating	---	8.8	8.8
Electrical Rating				
Power Supply	V, Phase, Hz	230V / 208V, 1Ph, 60Hz	230V / 208V, 1Ph, 60Hz	
Running Ampere	A	6.3 / 7.0	6.3 / 7.0	9.1 / 10.1
Power Input	W	1,420	1,420	2,050
Maximum Fuse Size	Amps	15A	15A	
Features				
Controls		Microprocessor	Microprocessor	
Fan Speeds		Auto (Hi, Me, Lo)	Auto (Hi, Me, Lo)	
Compressor		DC Inverter	DC Inverter	
Refrigerant / Amount Charged at Shipment	1b.	R-410A / 6.17	R-410A / 6.17	
Refrigerant Control		Electric Expansion Valve	Electric Expansion Valve	
Operation Sound	Hi	dB-A	50	52
Refrigerant Tubing Connections	Type	Flare	Flare	
Max. Allowable Tubing Length	Ft	82 (per Unit) 150 (per System) with additional refrigerant	82 (per Unit) 150 (per System) with additional refrigerant	
Refrigerant Tube Diameter	Narrow Tube	inch	1/4" x 3	1/4" x 3
	Wide Tube	inch	3/8" x 3	3/8" x 3
Dimensions & Weight				
Unit Dimensions	H x W x D	inch	29-1/8" x 35-7/16" x 12-19/32"	29-1/8" x 35-7/16" x 12-19/32"
Net Weight	Lbs.		138.9	143.0

**IMPORTANT** It is not possible to connect an outdoor unit to only a single indoor unit. If operated with only ONE indoor unit installed, the returning refrigerant to the compressor may cause a malfunction.

\* Test Conditions based on AHRI 210/240



# RAC Multi-System Outdoor Units

KS/KE Series



Up to **4** Rooms

Connectable from 2 to 4 Indoor Units



**CU-4KS24NBU**  
**CU-4KE24NBU**



**CU-4KS31NBU**  
**CU-4KE31NBU**

## Outdoor Unit

Model No.	CU-4KS24NBU		CU-4KE24NBU		CU-4KS31NBU		CU-4KE31NBU	
	Performance		Cooling	Heating	Cooling	Cooling	Heating	
Capacity	Btu/h	24,200	22,400	27,200	29,000 / 28,600	29,000 / 28,600	30,600	
Air Circulation	High	CFM	1,707	1,707	1,942	1,942	1,942	
Number of Connectable Indoor Units			2 - 4	2 - 4	2 - 4	2 - 4	2 - 4	
SEER	Cooling		18.0	18.0	17.6	17.2	17.2	
EER	Cooling		10.0	11.5	11.2	11.2	11.2	
HSPF	Heating		---	8.5	---	9.3	9.3	
<b>Electrical Rating</b>								
Power Supply	V, Phase, Hz		230V / 208V, 1Ph, 60Hz	230V / 208V, 1Ph, 60Hz	230V / 208V, 1Ph, 60Hz	230V / 208V, 1Ph, 60Hz	230V / 208V, 1Ph, 60Hz	
Running Ampere	A		10.7 / 11.9	8.7 / 9.6   10.0 / 11.0	11.4 / 12.6	11.4 / 12.6	10.1 / 11.2	
Power Input	W		2,420	1,950   2,250	2,600 / 2,560	2,600 / 2,560	2,300	
Maximum Fuse Size	Amps		20A	20A	20A	20A	20A	
<b>Features</b>								
Controls			Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
Fan Speeds			Auto (Hi, Me, Lo)	Auto (Hi, Me, Lo)	Auto (Hi, Me, Lo)	Auto (Hi, Me, Lo)	Auto (Hi, Me, Lo)	
Compressor			DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter	
Refrigerant / Amount Charged at Shipment	lb.		R-410A / 6.17	R-410A / 6.17	R-410A / 8.38	R-410A / 8.38	R-410A / 8.38	
Refrigerant Control			Electric Expansion Valve	Electric Expansion Valve	Electric Expansion Valve	Electric Expansion Valve	Electric Expansion Valve	
Operation Sound	Hi	dB-A	50	50   52	53	53	55	
Refrigerant Tubing Connections	Type		Flare	Flare	Flare	Flare	Flare	
Max. Allowable Tubing Length	Ft		82 (per Unit) 200 (per System with additional Refrigerant)	82 (per Unit) 200 (per System with additional Refrigerant)	100 (per Unit) 230 (per System with additional Refrigerant)	100 (per Unit) 230 (per System with additional Refrigerant)	100 (per Unit) 230 (per System with additional Refrigerant)	
Refrigerant Tube Diameter	Narrow Tube	inch	1/4" x 4	1/4" x 4	1/4" x 4	1/4" x 4	1/4" x 4	
	Wide Tube	inch	3/8" x 3 + 1/2" x 1	3/8" x 3 + 1/2" x 1	3/8" x 2 + 1/2" x 2	3/8" x 2 + 1/2" x 2	3/8" x 2 + 1/2" x 2	
<b>Dimensions &amp; Weight</b>								
Unit Dimensions	H x W x D	inch	29-1/8" x 35-7/16" x 12-19/32"	29-1/8" x 35-7/16" x 12-19/32"	35-1/32" x 35-7/16" x 12-19/32"	35-1/32" x 35-7/16" x 12-19/32"	35-1/32" x 35-7/16" x 12-19/32"	
Net Weight	Lbs.		138.9	143.3	174.2	181.0	181.0	

**IMPORTANT** It is not possible to connect an outdoor unit to only a single indoor unit. If operated with only ONE indoor unit installed, the returning refrigerant to the compressor may cause a malfunction.

\* Test Conditions based on AHRI 210/240

RAC Multi System







# Ceiling-Suspended Air Conditioners and Heat Pumps

26PST1U6

26PET1U6



Indoor Unit  
S-26PT1U6

36PST1U6 / 42PST1U6

36PET1U6 / 42PET1U6



Indoor Unit  
S-36PT1U6 / S-42PT1U6



Outdoor Unit  
U-26PS1U6 / U-26PE1U6



Wired Remote Controller  
(CZ-RTC2)(Included)

Wireless Remote Controller  
(optional)



Outdoor Unit  
U-36PS1U6 / U-36PE1U6

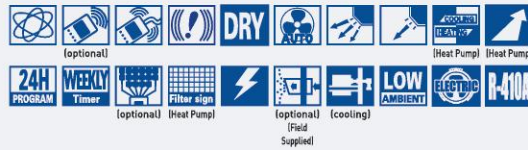


Outdoor Unit  
U-42PS1U6 / U-42PE1U6



Wired Remote Controller  
(CZ-RTC2)(Included)

Wireless Remote Controller  
(optional)



Ceiling Suspended Air Conditioners & Heat Pumps

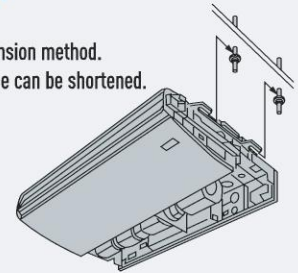
## Quiet Operation

The ceiling-mounted unit is equipped with a highly efficient, multi-blade centrifugal fan that generates a powerful, yet gentle airflow throughout the room. A redesigned aerodynamically tested louver structure minimizes operational sound even at high fan speed.



## Improved Serviceability / Easy Installation

External suspension method. Installation time can be shortened.

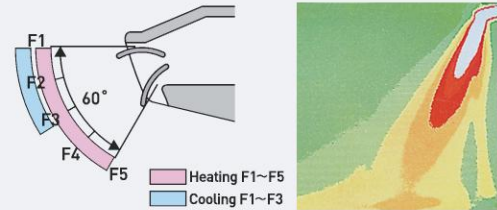


Improved accessibility to electronic components (control box) for servicing.



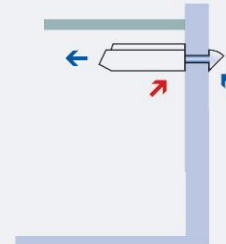
## Auto-Louver Function Provides Optimum Airflow During Heating or Cooling Operation

Auto-louver function is a standard feature which provides optimum airflow during heating or cooling operation. Angle of louver is automatically set for heating or cooling. For example, when heating with fan speed set to low, the discharge is aimed downward so that warm air reaches the floor. The louver angle can be set to between 4°F above and 80°F below the horizontal in five steps. An auto-sweep function to distribute the airflow over a wide area is also provided. Wind direction is adjusted automatically in both heating and cooling operation. The louver can also be set to swing automatically from F1 to F5 in any operation mode (heat pump type only).



## Fresh Air Intake Capability and Duct Extension

Ceiling-suspended models have the capability of bringing fresh air from outside using an air-intake duct (field supplied).



Ceiling - Suspended													
Model No.		Air Conditioners						Heat Pumps					
		26PST1U6		36PST1U6		42PST1U6		26PET1U6		36PET1U6		42PET1U6	
Unit Model No.		Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
		S-26PT1U6	U-26PS1U6	S-36PT1U6	U-36PS1U6	S-42PT1U6	U-42PS1U6	S-26PT1U6	U-26PE1U6	S-36PT1U6	U-36PE1U6	S-42PT1U6	U-42PE1U6
<b>Performance &amp; Electrical Ratings</b>													
Capacity	Cooling	Btu/h	24,400 (9,500-24,400)		31,200 (9,500-31,200)		39,000 (9,500-39,000)		24,400 (9,500-24,400)		31,200 (9,500-31,200)		39,000 (9,500-39,000)
	Heating	Btu/h	---		---		---		30,800 (8,000-30,800)		37,400 (8,000-37,400)		44,500 (8,000-44,500)
Moisture Removal	High	Pints/H	7.7		10.0		12.6		7.7		10.0		12.6
Dry Air Flow	Hi / Med / Low	CFM	550 / 490 / 460		1,100 / 930 / 750		1,130 / 950 / 775		550 / 490 / 460		1,100 / 930 / 750		1,130 / 950 / 775
SEER	Cooling		14.5		15.1		15.6		14.5		15.1		15.6
EER	Cooling		8.5		8.10		9.4		8.5		8.10		9.4
HSPF	Heating		---		---		---		9.4		8.8		9.5
Power Supply	V, Phase, Hz		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60
Running Amps	Cooling	A	15.6 / 17.3		18.2 / 20.1		21.1 / 23.3		15.6 / 17.3		18.2 / 20.1		21.1 / 23.3
	Heating	A	---		---		---		16.4 / 18.1		15.6 / 17.3		18.6 / 20.6
Power Input	Cooling	W	2,880 / 2,880		3,840 / 3,840		4,140 / 4,140		2,880 / 2,880		3,840 / 3,840		4,140 / 4,140
	Heating	W	---		---		---		3,000 / 3,000		3,250 / 3,250		3,630 / 3,630
Fuse or Circuit Breaker Capacity	A	15	30	15	35	15	40	15	30	15	35	15	40
<b>Features</b>													
Controls		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control (for Cooling)		Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F	
Wireless Remote Controller (optional)		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U	
Wired Remote Controller (included)		CZ-RTC2		CZ-RTC2		CZ-RTC2		CZ-RTC2		CZ-RTC2		CZ-RTC2	
Fan Speeds		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable	
Timer		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events	
Air Deflection	Horizontal	---		---		---		---		---		---	
	Vertical	Automatic		Automatic		Automatic		Automatic		Automatic		Automatic	
Air Filter		Washable		Washable		Washable		Washable		Washable		Washable	
Refrigerant		R-410A		R-410A		R-410A		R-410A		R-410A		R-410A	
Refrigerant control		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In(Hi / Me / Lo)	dB-A	39 / 37 / 33		42 / 40 / 35		44 / 41 / 37		39 / 37 / 33		42 / 40 / 35		44 / 41 / 37
	Outdoor(Hi)	dB-A	49		52		53		49		52		53
Refrigerant Piping	Type		Flare		Flare		Flare		Flare		Flare		Flare
	Discharge	inches	3/8"		3/8"		3/8"		3/8"		3/8"		3/8"
	Suction	inches	5/8"		5/8"		5/8"		5/8"		5/8"		5/8"
Refrigerant Pipe Length	Ft.	Max. 165		Max. 165		Max. 165		Max. 165		Max. 165		Max. 165	
Elevation Difference*	Outdoor Above	Ft.	Max. 100		Max. 100		Max. 100		Max. 100		Max. 100		Max. 100
	Outdoor Below	Ft.	Max. 50		Max. 50		Max. 50		Max. 50		Max. 50		Max. 50
<b>Dimensions &amp; Weight</b>													
Height	inches	7-17/32"	30-23/32"	9-7/16"	30-23/32"	9-7/16"	48-7/16"	7-17/32"	30-23/32"	9-7/16"	30-23/32"	9-7/16"	48-7/16"
Width	inches	51-3/16"	37"	62-1/32"	37"	62-1/32"	37"	51-3/16"	37"	62-1/32"	37"	62-1/32"	37"
Depth	inches	26-3/8"	13-3/8"	26-3/8"	3-3/8"	26-3/8"	13-3/8"	26-3/8"	13-3/8"	26-3/8"	13-3/8"	26-3/8"	13-3/8"
Net Weight	Lbs.	57.0	128.0	84.0	143.0	84.0	220.0	57.0	128.0	84.0	143.0	84.0	220.0

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalog)

# Ceiling-Recessed Air Conditioners and Heat Pumps

KS12NB41 / KS18NB4UA

KE12NB41 / KE18NB4U

**Indoor Unit**  
 CS-KS12NB41  
 CS-KS18NB4UW  
 CS-KE12NB41  
 CS-KE18NB4UW  
**Grille Assembly**  
 CZ-18BT1U



**Outdoor Unit**  
 CU-KS12NK1A  
 CU-KE12NK1

**Outdoor Unit**  
 CU-KS18NKUA  
 CU-KE18NKU



26PSU1U6

26PEU1U6

**Indoor Unit**  
 S-26PU1U6  
**Grille Assembly**  
 CZ-24KPU1U



36PSU1U6 / 42PSU1U6

36PEU1U6 / 42PEU1U6

**Indoor Unit**  
 S-36PU1U6 / S-42PU1U6  
**Grille Assembly**  
 CZ-36KPU1U



**Outdoor Unit**  
 U-26PS1U6  
 U-26PE1U6



**Wired Remote Controller**  
 CZ-RTC2 (Included)  
**Wireless Remote Controller**  
 (optional)



**Outdoor Unit**  
 U-36PS1U6  
 U-36PE1U6



**Outdoor Unit**  
 U-42PS1U6  
 U-42PE1U6



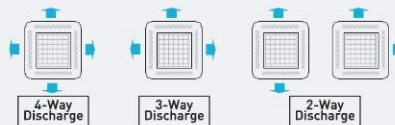
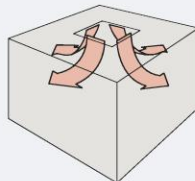
**Wireless Remote Controller**  
 CZ-RTC2 (Included)  
 Wireless Remote Controller (optional)



Ceiling Suspended Air Conditioners & Heat Pumps

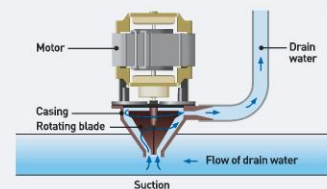
## 4-Way Airflow Design Sends Cool Air in all Directions

Air is returned through the center of the grille, while evenly distributing air through each of the 4 supply air openings. Installation in the center of the room provides for the greatest comfort. However, 1 or 2 supply louvers can be closed for installation near 1 wall to provide 3 or 2 way airflow. Also, by closing off 1 supply louver, you may attach a duct (field supply) to the upper plenum and provide conditioned air to another, separate area.



## Integrated Drain Pump

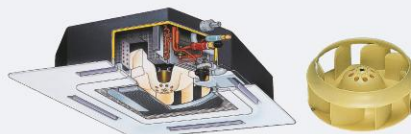
Drain pump is built into the unit to raise the condensate up 20 inches from the drain pump discharge.



## Fresh Air Intake Plenum (Option)

When used to take in fresh air, attach the fresh air-intake plenum to the unit.

Air-intake plenum is optionally supplied.  
 CZ-26BCU1U for S-26PU1U6  
 CZ-42BCU1U for S-36/42PU1U6



## Whisper-Quiet Operation

Thanks to the newly developed turbo fan and decreased resistance of the air path, one of the industry's lowest levels of noise has been achieved.

Ceiling - Recessed			Air Conditioners				Heat Pumps			
Model No.	KS12NB41A		KS18NB4UA		KE12NB41		KE18NB4U			
Unit Model No.	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit		
	CS-KS12NB41	CU-KS12NK1A	CS-KS18NB4UW	CU-KS18NK1A	CS-KE12NB41	CU-KE12NK1	CS-KE18NB4UW	CU-KE18NKU		
Grille Assembly	CZ-18BT1U		CZ-18BT1U		CZ-18BT1U		CZ-18BT1U			
<b>Performance &amp; Electrical Ratings</b>										
Capacity	Cooling	Btu/h	11,900 (3,000 - 11,900)		17,500 (4,000 - 17,500)		11,900 (3,000 - 11,900)		17,500 (4,000 - 17,500)	
	Heating	Btu/h	---		---		13,600 (3,000 - 13,600)		20,400 (4,400 - 20,400)	
Moisture Removal	High	Pints/H	4.26		4.89		4.26		4.89	
Dry Air Flow	Hi / Med / Low	CFM	235 / 206 / 194		341 / 294 / 253		235 / 206 / 194		341 / 294 / 253	
SEER	Cooling	Btu/Wh	16		16		16		16	
EER	Cooling	Btu/Wh	9.4		9.41		9.4		9.4	
HSPF	Heating	Btu/Wh	---		---		8.5		8.5	
Power Supply	V, Phase, Hz		115V, Single phase, 60Hz		208 / 230V, Single phase, 60Hz		115V, Single phase, 60Hz		208 / 230V, Single phase, 60Hz	
Running Amps	Cooling	A	12.6 (2.5-12.6)		8.3 (1.2-8.3)		12.6 (2.5-12.6)		8.3 (1.2-8.3)	
	Heating	A	---		---		14.6 (2.5-14.6)		10.5 (1.3-10.5)	
Power Input	Cooling	W	1,260 (250-1,260)		1,860 (250-1,860)		1,260 (250-1,260)		1,860 (250-1,860)	
	Heating	W	---		---		1,460 (250-1,460)		2,340 (270-2,340)	
Fuse or Circuit Breaker Capacity	A		20		20		20		20	
<b>Features</b>										
Controls	Microprocessor		Microprocessor		Microprocessor		Microprocessor			
Low Ambient Control (for Cooling)	Equipped		Equipped		Equipped		Equipped			
Wireless Remote Controller	Included		Included		Included		Included			
Wired Remote Controller (optional)	CZ-RD515U		CZ-RD515U		CZ-RD515U		CZ-RD515U			
Fan Speeds	Hi/Me/Lo & Auto		Hi/Me/Lo & Auto		Hi/Me/Lo & Auto		Hi/Me/Lo & Auto			
Timer	1 hr OFF and 24-hr PROGRAM		1 hr OFF and 24-hr PROGRAM		1 hr OFF and 24-hr PROGRAM		1 hr OFF and 24-hr PROGRAM			
Air Deflection	Horizontal		---		---		---		---	
	Vertical		Automatic		Automatic		Microprocessor		Automatic	
Air Filter	Washable		Washable		Washable		Washable		Washable	
Refrigerant	R-410A		R-410A		R-410A		R-410A		R-410A	
Refrigerant Control	Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In(Hi / Me / Lo)	dB-A	34 / 32 / 31		44 / 40 / 36		34 / 32 / 31		44 / 40 / 36	
	Outdoor(Hi)	dB-A	47		47		51		51	
Refrigerant Piping (Cooling)	Type		Flare		Flare		Flare		Flare	
	Discharge	inches	1/4"		1/4"		1/4"		1/4"	
	Suction	inches	3/8"		1/2"		3/8"		1/2"	
Refrigerant Pipe Length		Ft.	65		98		65		98	
Elevation Difference*	Outdoor Above	Ft.	23		50		23		50	
	Outdoor Below	Ft.	23		50		23		50	
<b>Dimensions &amp; Weight</b>										
Height	inches		12-5/16"	21-9/16"	12-5/16"	26-3/8"	12-5/16"	21-9/16"	12-5/16"	26-3/8"
Width	inches		24-19/32"	28-11/32"	24-19/32"	34-21/32"	24-19/32"	28-11/32"	24-19/32"	34-21/32"
Depth	inches		24-19/32"	10-7/16"	24-19/32"	11-7/32"	24-19/32"	10-7/16"	24-19/32"	11-7/32"
Net Weight	Lbs.		41.3	75.0	41.3	90.4	41.3	75.0	41.3	97.0

Ceiling - Recessed			Air Conditioners				Heat Pumps							
Model No.	26PSU1U6		36PSU1U6		42PSU1U6		26PEU1U6		36PEU1U6		42PEU1U6			
Unit Model No.	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit		
	S-26PU1U6	U-26PS1U6	S-36PU1U6	U-36PS1U6	S-42PU1U6	U-42PS1U6	S-26PU1U6	U-26PE1U6	S-36PU1U6	U-36PE1U6	S-42PU1U6	U-42PE1U6		
Grille Assembly	CZ-24KPU1U		CZ-36KPU1U		CZ-36KPU1U		CZ-24KPU1U		CZ-36KPU1U		CZ-36KPU1U			
<b>Performance &amp; Electrical Ratings</b>														
Capacity	Cooling	Btu/h	24,800 (9,500 - 24,800)		32,600 (9,500 - 32,600)		39,500 (9,500 - 39,500)		24,800 (9,500 - 24,800)		32,600 (9,500 - 32,600)		39,500 (9,500 - 39,500)	
	Heating	Btu/h	---		---		---		29,800 (8,000 - 29,800)		37,600 (8,000 - 37,600)		48,000 (8,000 - 48,000)	
Moisture Removal	High	Pints/H	8.1		10.6		12.6		8.1		10.6		12.6	
Dry Air Flow	Hi / Med / Low	CFM	710 / 530 / 450		1,050 / 840 / 720		1,050 / 840 / 720		710 / 530 / 450		1,050 / 840 / 720		1,050 / 840 / 720	
SEER	Cooling		14.1		14.6		14.6		14.1		14.6		14.6	
EER	Cooling		8.5		8.1		8.7		8.5		8.1		8.7	
HSPF	Heating		---		---		---		9.6		8.4		9.7	
Power Supply	V, Phase, Hz		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60		230 / 208 / 1 / 60	
Running Amps	Cooling	A	15.6 / 17.3		18.7 / 20.7		23.0 / 25.4		15.6 / 17.3		18.7 / 20.7		23.0 / 25.4	
	Heating	A	---		---		---		14.8 / 16.4		15.9 / 17.6		22.4 / 24.8	
Power Input	Cooling	W	2,920 / 2,920		3,950 / 3,950		4,520 / 4,520		2,920 / 2,920		3,950 / 3,950		4,520 / 4,520	
	Heating	W	---		---		---		2,790 / 2,790		3,350 / 3,350		4,360 / 4,360	
Fuse or Circuit Breaker Capacity	A		15	30	15	35	15	40	15	30	15	35	15	40
<b>Features</b>														
Controls	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor			
Low Ambient Control (for Cooling)	Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F			
Wireless Remote Controller (optional)	CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U			
Wired Remote Controller (included)	CZ-RTC2		CZ-RTC2		CZ-RTC2		CZ-RTC2		CZ-RTC2		CZ-RTC2			
Fan Speeds	3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable			
Timer	7 Days/6 Events		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events			
Air Deflection	Horizontal		---		---		---		---		---			
	Vertical		Automatic		Automatic		Automatic		Automatic		Automatic			
Air Filter	Washable		Washable		Washable		Washable		Washable		Washable			
Refrigerant	R-410A		R-410A		R-410A		R-410A		R-410A		R-410A			
Refrigerant Control	Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve			
Operation Sound	In(Hi / Me / Lo)	dB-A	38 / 35 / 31		44 / 37 / 33		45 / 38 / 34		38 / 35 / 31		44 / 37 / 33		45 / 38 / 34	
	Outdoor(Hi)	dB-A	49		52		53		49		52		53	
Refrigerant Piping	Type		Flare		Flare		Flare		Flare		Flare		Flare	
	Discharge	inches	3/8"		3/8"		3/8"		3/8"		3/8"		3/8"	
	Suction	inches	5/8"		5/8"		5/8"		5/8"		5/8"		5/8"	
Refrigerant Pipe Length		Ft.	Max. 165		Max. 165		Max. 165t		Max. 165		Max. 165		Max. 165	
Elevation Difference*	Outdoor Above	Ft.	Max. 100		Max. 100		Max. 100		Max. 100		Max. 100		Max. 100	
	Outdoor Below	Ft.	Max. 50		Max. 50		Max. 50		Max. 50		Max. 50		Max. 50	
<b>Dimensions &amp; Weight</b>														
Height	inches		13-5/16"	30-23/32"	14-31/64"	30-23/32"	14-31/64"	48-7/16"	13-5/16"	30-23/32"	14-31/64"	30-23/32"	14-31/64"	48-7/16"
Width	inches		33-55/64"	37"	45-9/32"	37"	45-9/32"	37"	33-55/64"	37"	45-9/32"	37"	45-9/32"	37"
Depth	inches		33-55/64"	13-3/8"	33-55/64"	13-3/8"	33-55/64"	13-3/8"	33-55/64"	13-3/8"	33-55/64"	13-3/8"	33-55/64"	13-3/8"
Net Weight	Lbs.		49.0	128.0	60.0	143.0	60.0	220.0	49.0	128.0	60.0	143.0	60.0	220.0

\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalog for more detail.)

# Concealed Duct Air Conditioners and Heat Pumps

26PSF1U6

26PEF1U6

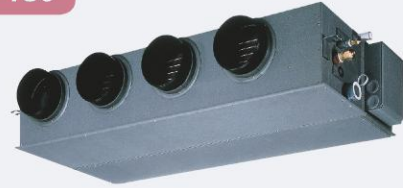
36PSF1U6

36PEF1U6

**Indoor Unit**  
**S-26PF1U6**  
Supplies are 8" dia



**Indoor Unit**  
**S-36PF1U6**  
Supplies are 8" dia



**Outdoor Unit**  
**U-26PS1U6**  
**U-26PE1U6**

Wired Remote Controller (CZ-RTC2) (Included)

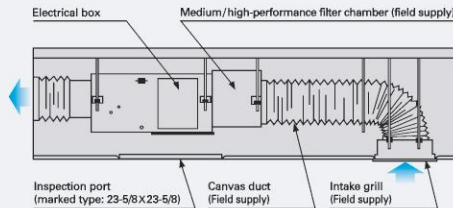


**Outdoor Unit**  
**U-36PS1U6**  
**U-36PE1U6**

Wired Remote Controller (CZ-RTC2) (Included)



Outline diagram with medium or high-performance filter field installed.

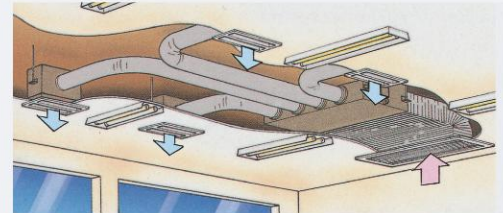


## Built-In Drain Pump

Drain pump is built into the unit to raise the condensate up 20 inches from the drain pump discharge.

## Installation Example

The picture shows the standard ducting system, where air is taken in from the back of the unit. This system is useful for places that need extensive air conditioning, including conference halls, showrooms, and restaurants.



Ceiling Suspended Air Conditioners & Heat Pumps

		Concealed Duct							
		Air Conditioners				Heat Pumps			
Model No.		26PSF1U6		36PSF1U6		26PEF1U6		36PEF1U6	
Unit Model No.		Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
		S-26PF1U6	U-26PS1U6	S-36PF1U6	U-36PS1U6	S-26PF1U6	U-26PE1U6	S-36PF1U6	U-36PE1U6
<b>Performance &amp; Electrical Ratings</b>									
Capacity	Cooling	24,000 (9,500 ~ 24,000)		31,200 (9,500 ~ 31,200)		24,000 (9,500 ~ 24,000)		31,200 (9,500 ~ 31,200)	
	Heating	---		---		28,600 (8,000 ~ 28,600)		36,200 (8,000 ~ 36,200)	
Moisture Removal	High	7.7		10.0		7.7		10.0	
Dry Air Flow	Hi / Med / Low	670 / 530 / 460		1,060 / 920 / 750		670 / 530 / 460		1,060 / 920 / 750	
SEER	Cooling	14.0		13.9		14.0		13.9	
EER	Cooling	9.1		7.8		9.1		7.8	
HSPF	Heating	---		---		9.0		8.5	
Power Supply	V, Phase, Hz	230 / 208, 1Ph, 60Hz		230 / 208, 1Ph, 60Hz		230 / 208, 1Ph, 60Hz		230 / 208, 1Ph, 60Hz	
Running Amps	Cooling	13.6 / 15.0		18.6 / 20.6		13.6 / 15.0		18.6 / 20.6	
	Heating	---		---		12.5 / 13.8		15.9 / 17.6	
Power Input	Cooling	2,600 / 2,600		3,920 / 3,920		2,600 / 2,600		3,920 / 3,920	
	Heating	---		---		2,400 / 2,400		3,340 / 3,340	
External Static Pressure	in. WC	0.20		0.24		0.20		0.24	
Fuse or Circuit Breaker Capacity	A	15	30	15	35	15	30	15	35
<b>Features</b>									
Controls		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control		Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F	
Wireless Remote Controller (optional)		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U		CZ-RWSU2U, CZ-RWSC1U	
Wired Remote Controller (included)		CZ-RTC2		CZ-RTC2		CZ-RTC2		CZ-RTC2	
Fan Speeds		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable		3 and Automatic Control / Variable	
Timer		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events		7 Days/6 Events	
Air Deflection	Horizontal	---		---		---		---	
	Vertical	---		---		---		---	
Air Filter		---		---		---		---	
Refrigerant Control		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	In(Hi / Me / Lo)	34 / 30 / 27		38 / 33 / 31		34 / 30 / 27		38 / 33 / 31	
	Outdoor(HI)	49		52		49		52	
Refrigerant Piping	Type	Flare		Flare		Flare		Flare	
	Discharge	3/8" inches		3/8" inches		3/8" inches		3/8" inches	
	Suction	5/8" inches		5/8" inches		5/8" inches		5/8" inches	
Refrigerant Pipe Length	FT.	Max. 165		Max. 165		Max. 165		Max. 165	
Elevation Difference**	Outdoor Above	FT. Max. 100		FT. Max. 100		FT. Max. 100		FT. Max. 100	
	Outdoor Below	FT. Max. 50		FT. Max. 50		FT. Max. 50		FT. Max. 50	
<b>Dimensions &amp; Weight</b>		Indoor Unit		Indoor Unit		Indoor Unit		Indoor Unit	
Height	inches	12-7/32"		12-7/32"		12-7/32"		12-7/32"	
Width	inches	30-23/32"		30-23/32"		30-23/32"		30-23/32"	
Depth	inches	39-3/8"		58-9/32"		39-3/8"		58-9/32"	
Net Weight	Lbs.	71.0		104.0		71.0		104.0	

\*\* This is maximum elevation difference when the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalog for more detail.)

# Optional Accessories

## Condensate Pump

SI-30-120  
SI-30-230



## Tube Size Reducer

CZ-MA1P



## Locking Bracket for Remote Control

RCS5PS4B  
RCS4MHVB  
RCPTC110B



Wired Remote Controller  
CZ-RD516C



Timer Remote Controller  
CZ-RTC2

## Replacement Anti-microbial Filter

CZ-SA20P



## Fresh Air Intake Plenum

CZ-26BCU1U  
CZ-42BCU1U



Wired Remote Controller  
CZ-RD515U



System Controller  
CZ-64ESMC1U

H.V.A.C. Accessories		
Model No.	Description	Use With
DLO4060815	Insulated Tubing Kit 1/4" x 3/8" x 1/2" x 15'	S9NKU-1, S12NKU-1, S9NKUA, S12NKUA, KS12NB41A, E9NKUA, E12NKUA, KE12NB41, CU-2S18NBU-1, CU-2E18NBKU, CU-3KS19NBU, CU-4KS24NBU, CU-4KS31NBU, CU-3KE19NBU, CU-4KE24NBU, CU-4KE31NBU, CS-MKS7NKU, CS-MKS9NKU, CS-MKS12NKU, CS-MKE7NKU, CS-MKE9NKU, CS-MKE12NKU, EX9PUKA
DLO4060820	Insulated Tubing Kit 1/4" x 3/8" x 1/2" x 20'	
DLO4060835	Insulated Tubing Kit 1/4" x 3/8" x 1/2" x 35'	
DLO4080815	Insulated Tubing Kit 1/4" x 1/2" x 1/2" x 15'	S18NKU-1, KS18NB4U, S18NKUA, KS18NKUA, KS18NB4UA, E18NKUA, KE18NKU, KE18NB4U, CU-3KS19NBU, CU-4KS24NBU, CU-4KS31NBU, CU-3KE19NBU, CU-4KE24NBU, CU-4KE31NBU, CS-MKS18NKU, CS-MKE18NKU, S12NKU-1, S12NKUA, IX12PKUA
DLO4080820	Insulated Tubing Kit 1/4" x 1/2" x 1/2" x 20'	
DLO4080835	Insulated Tubing Kit 1/4" x 1/2" x 1/2" x 35'	
DLO4100820	Insulated Tubing Kit 1/4" x 5/8" x 1/2" x 20'	KS24NKUA, KE24NKU, CU-4KS24NBU, CU-4KS31NBU, CU-4KE24NBU, CU-4KE31NBU, CS-MKS24NKU, CS-MKE24NKU
DLO4100830	Insulated Tubing Kit 1/4" x 5/8" x 1/2" x 30'	
DLO4100850	Insulated Tubing Kit 1/4" x 5/8" x 1/2" x 50'	
DLO6100830	Insulated Tubing Kit 3/8" x 5/8" x 1/2" x 30'	All 26,000 Through 42,000 BTU/h Models
DLO6100850	Insulated Tubing Kit 3/8" x 5/8" x 1/2" x 50'	All 26,000 Through 42,000 BTU/h Models
CZ-26BCU1U	Fresh Air Intake Plenum	S-26PU1U6
CZ-42BCU1U	Fresh Air Intake Plenum	S-36PU1U6, S-42PU1U6
RCS5PS4B	Locking Bracket for Remote Controller	All 26,000 Through 42,000 BTU/h Models except 30 & 36
RCS4MHVB	Locking Bracket for Wireless Remote Controller	All KS, KE, MKS & MKE Models
RCPTC110B	Locking Bracket for Wireless Remote Controller	All S/E9, 12, 18, 22, 24 Models
BS600	Mounting Bracket for Outdoor Unit	CU-XE9PKUA, CU-XE12PKUA, CU-S9NKU-1, CU-S12NKU-1, CU-S18NKU-1, CU-S22NKU-1, CU-S9NKUA, CU-S12NKUA, CU-S18NKUA, CU-S24NKUA, CU-KS30NKUA, CU-KS36NKUA, CU-KS12NK1A, CU-KS18NKUA, U-26PS1U6, U-36PS1U6, U-42PS1U6, CU-E9NKUA, CU-E12NKUA, CU-E18NKUA, CU-E24NKUA, CU-KE30NKU, CU-KE36NKU, CU-KE12NK1, CU-KE18NKU, U-26PE1U6, U-36PE1U6, U-42PE1U6, CU-2S18NBU-1, CU-3KS19NBU, CU-4KS24NBU, CU-4KS31NBU, CU-2E18NBU, CU-3KE19NBU, CU-4KE24NBU, CU-4KE31NBU
SI-30-120	Condensate Pump	All 115 volt Models
SI-30-230	Condensate Pump	All 208/230 volt Models
CZ-RE2C2	Simple Wired Remote	All 26,000 Through 42,000 BTU/h Models
CZ-RELC2	Simple Wired Remote with Backlight	
CZ-RD515U	Wired Remote Controller	All KS, KE, MKS & MKE Models
CZ-RD516C	Wired Remote Controller	XE9PKUA, XE12PKUA, S9NKUA, S12NKUA, S18NKUA, S24NKUA, E9NKUA, E12NKUA, E18NKUA, E24NKUA
CZ-RC515U	Wire Kit	PCB Wire Kit for CZ-RD515U - Required For Use With All KS&KE Models except 30 / 36
CZ-RC515UA	Wire Kit	PCB Wire Kit for CZ-RD515U, CS-KS30NKU, CS-KS36NKU, CS-KE30NKU, CS-KE36NKU
CZ-RTC2	Wired Timer Remote Controller	All 26,000 Through 42,000 BTU/h Models except 30 & 36
CZ-RWSK1U	Wireless Remote Controller	S-26PK1U6 / S-26PK1U6
CZ-RWSU2U	Wireless Remote Controller	S-26/36/42PT1U6, S-26/36/42PU1U6
CZ-RWSC1U	Wireless Remote Controller	S-26/36PF1U6
CZ-64ESMC1U	System Controller	All 26,000 Through 42,000 BTU/h Models except 30 & 36
CZ-MA1P	Tube size Reducer	CS-S12NKUW-1, CS-E12NKUAW (for connection with CU-2S18NBU-1 / CU-2E18NBU)
CZ-SA20P	Replacement Anti-microbial Filter	CS-S9NKUA, S12NKUA, S9NKUW-1, S12NKUW-1, CS-S18NKU, CS-S22NKU, CS-S18NKU-1, CS-S22NKU-1, CS-E9NKUAW, CS-E12NKUAW, CS-E18NKUA, CS-E24NKUA
WINDB-1	Wind Baffle	All models

# Remote Controller Options for Models 26,000 Btu's and Larger

## Wired Remote Controllers (Except KE30/36NKU, KS30/36NKU)

### Simplified Remote Controller



CZ-RE2C2



CZ-RELC2 (with Backlight)

#### Key Features (Simple Remote):

- Thin and Easy To Read
- Simple To Install and Use
- Can Be Adapted for Use On All 26,000 through 42,000 Utu/h Indoor Units.
- Mode
- Fan Speed Control
- Set Temperature
- On/Off
- Airflow Direction
- Perfectly Suited for Applications Where Simpler Functionality is Required (ie: Hotel Rooms, Nursing Homes, Offices)

### Timer Remote Controller



CZ-RTC2

#### Key Features (Standard Remote/7 Day Timer):

- Thin and Easy To Read
- Simple To Install and Use
- Can Be Adapted for Use On All Indoor Units
- Fan Speed Control
- Airflow Direction
- Operating Mode (Heating/Cooling/Auto/Dry/Fan)
- Vacation Mode for Continued Energy Efficiencies
- Full 7 Day Set-Back Functionality, With Up To 6 Time Periods/Day
- Full System Diagnostic Capability (Diagnostic History Provides Immediate View of System Past and Present.)

### System Controller



CZ-64ESMC1U

#### Multiple Zone Controllers.

#### The Air Conditioning Gateway.

Panasonic's system and intelligent controls are the central nervous system of the conditioning system, the gateway to all data, temperature and system diagnostics and the heart and soul of conditioning.

#### Key Features (System Control):

- Controls Up To 64 Units Into 4 Individualized Zones
- Alarm and Operational Signal Output
- Single Access Points for All Connected Wired Remotes

## Wireless Remote Controllers

Wireless Remote Controller	Applicable Unit	U1-series (Ceiling Recessed Type) T1-series (Ceiling Suspended Type)	For All Large capacity series Indoor Units
<p>K1-series CZ-RWSK1U</p>		<b>Built-in type</b> <ul style="list-style-type: none"> <li>• Signal receiving unit can be installed in the outer panel of indoor unit.</li> <li>• Control panel can be installed in the inside indoor unit.</li> </ul> <p>CZ-RWSU2U</p>	<b>External type</b> <ul style="list-style-type: none"> <li>• Separate type signal receiving unit.</li> </ul> <p>CZ-RWSC1U</p>

## Remote Controllers Functions

			Timer Remote Controller (CZ-RTC2)	System Controller (CZ-64ESMC1U)	
Function	ON/OFF		●	● (Collective/Individual)	●: Controllable ×: Uncontrollable
	Operation mode switch	Heating	●	● (Individual)	
		Dry	●	● (Individual)	
		Cooling	●	● (Individual)	
		Fan	●	● (Individual)	
	Temp setting		●	● (Individual)	
	Fan speed setting (Hi/Mid/Lo/Auto)		●	● (Individual)	
	Auto flap	Auto airflow direction setting	●	●	
		Arbitrary airflow direction setting	●	●	
	Sweep (Flap swing)		●	●*	
Sensor temp. display		●	×		
Self-diagnostic function		●	●		
System	Central control (at hand inhibited)	×	●		
	Group control	● (Up to 8 units)	● (Up to 64 groups)		
	Concurrent use with weekly timer	●	●		
Setting Range	Cooling, dry	(°F)	65 - 86		
	Heating	(°F)	61 - 79		

#### Note:

If you use both remote controller and system controller concurrently, both controllers can be used on a last-signal priority basis.



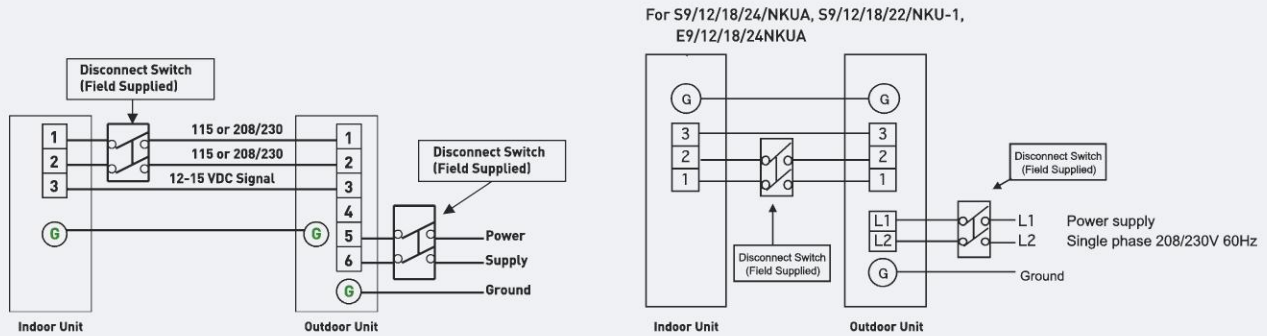
# Benefits

- Highest efficiency in the industry with a SEER rating of up to 28.5 as of March 2013\*.
- Inverter Driven variable speed rotary compressor.
- Precise compressor speed to match the building needs.
- Quiet operation.
- Designed to run longer periods at reduced speeds to improve dehumidification with local codes on wire size.

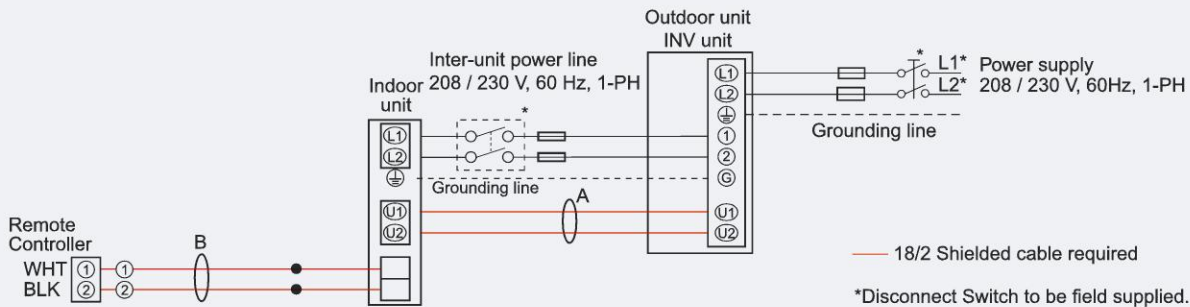
- Quick and easy installation of indoor and outdoor units.
- Wired and wireless remote controllers available at option (Except for some models).
- Single Point Power Supply reduces installation costs (Comply with local codes on wire size).
- **7 Year compressor warranty and 5 year parts warranty.**

\*CS/CU-XE9PKUA as of March 2013

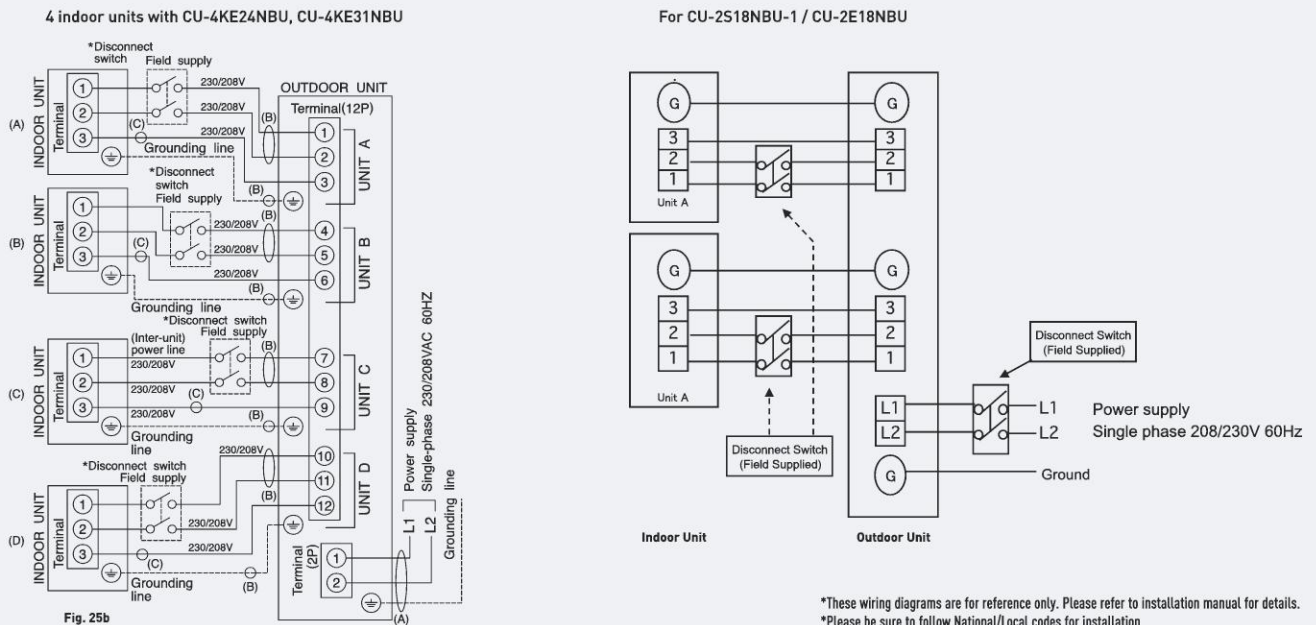
## 9,000 - 24,000 Btu/h single zone, KS30/36 NKUA, KE30/36NKU



## 26,000 - 42,000 Btu/h single zone wiring schematic (Except KS30/36NKUA, KE30/36NKU)



## RAC Multi wiring schematic (example shown is with 4 indoor units)



# Operation Range

## Cooling Models (S9/12/18/22NKU-1)

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	90°F DB / 74°F WB	115°F DB
	Minimum	60°F DB / 52°F WB	60°F DB / 52°F WB

## Low Ambient Cooling Models (S9/12/18/24NKUA)

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	90°F DB / 74°F WB	115°F DB
	Minimum	60°F DB / 52°F WB	0°F DB(S18/24) / 5°F DB (S9/12)

## Cooling Models above 26,000 Btu

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	95°F DB / 71°F WB	115°F DB
	Minimum	67°F DB / 57°F WB	0°F DB

## Cooling Models KS30/36NKUA

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	95°F DB / 71°F WB	115°F DB
	Minimum	67°F DB / 57°F WB	0°F DB

## RAC Multi KS Series Cooling Models

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	95°F DB / 71°F WB	115°F DB
	Minimum	67°F DB / 57°F WB	14°F DB

## RAC Multi KE Series Heating Models

	Temperature	Indoor Air Take	Outdoor Air Take
Cooling	Maximum	95°F DB / 71°F WB	115°F DB
	Minimum	67°F DB / 57°F WB	14°F WB
Heating	Maximum	80°F DB / 67°F WB	75°F DB / 65°F WB
	Minimum	-°F WB / -°F WB	0°F WB

## Heat Pump Models (XE9/12PKUA)

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	90°F DB / 74°F WB	115°F DB / 79°F WB
	Minimum	60°F DB / 52°F WB	0°F DB / -°F WB
Heating	Maximum	86°F DB / -°F WB	75°F DB / 64°F WB
	Minimum	60°F DB / -°F WB	0°F DB / -2°F WB

## Heat Pump Models (E9/12/18/24NKUA)

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	90°F DB / 74°F WB	115°F DB
	Minimum	60°F DB / 52°F WB	0°F DB(E18/24) / 5°F DB (E9/12)
Heating	Maximum	86°F DB / -°F WB	75°F DB / 64°F WB
	Minimum	60°F DB / -°F WB	5°F DB / -°F WB

## Heat Pump Models above 26,000 Btu

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	95°F DB / 71°F WB	115°F DB
	Minimum	67°F DB / 57°F WB	0°F DB
Heating	Maximum	80°F DB / 67°F WB	75°F DB / 65°F WB
	Minimum	-°F DB / -°F WB	5°F DB

## Heat Pump Models KE30/36NKU

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	95°F DB / 71°F WB	115°F DB
	Minimum	67°F DB / 57°F WB	14°F DB
Heating	Maximum	80°F DB / 67°F WB	75°F DB / 65°F WB
	Minimum	-°F DB / -°F WB	0°F DB

## Sanyo to Panasonic Cross Reference

\* H/P: Heat Pump, C/O: Cooling Only

### PAC Outdoor 2types / 10models

Category	Capacity Kbtu/h	Model No.	Model No.	
PAC-i (Split)	H/P	26	CH2672R	U-26PE1U6
		36	CH3672R	U-36PE1U6
		42	CH4272R	U-42PE1U6
	C/O	30	CH3082	CU-KE30NKU
		36	CH3682	CU-KE36NKU
		26	C2672R	U-26PS1U6
36		C3672R	U-36PS1U6	
C/O	42	C4272R	U-42PS1U6	
	30	C3082	CU-KS30NKUA	
	36	C3682	CU-KS36NKUA	

### PAC Indoor 5types / 15models (13models, Panel : 2models)

Category	Capacity Kbtu/h	Model No.	Model No.	
4-Way Cassette	H/P	26	XHW2672R	S-26PU1U6
		36	XHW3672R	S-36PU1U6
		42	XHW4272R	S-42PU1U6
	Panel	PNR-XH2442	CZ-24KPU1U	
		PNR-XH3642	CZ-36KPU1U	
Wall Mount	H/P	26	KHS2672R	S-26PK1U6
		36	KS3082	CS-KS30NKU
	C/O	42	KS3682	CS-KS36NKU
Wall Mount	H/P	30	KHS3082	CS-KE30NKU
		36	KHS3682	CS-KE36NKU
Ceiling Suspended	H/P	26	THW2672R	S-26PT1U6
		36	THW3672R	S-36PT1U6
		42	THW4272R	S-42PT1U6
Duct	H/P	26	UHW2672R	S-26PF1U6
		36	UHW3672R	S-36PF1U6

### RAC (37models)

Category	Capacity Kbtu/h	Model No.	Model No.	
Mini Cassette	Inv C/O	12	XS1271	CS-KS12NB41
		Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit	Inv C/O	12	CL1271	CU-KS12NK1A
		18	C1872	CU-KS18NKU
		18	CL1872	CU-KS18NKUA
		24	C2472	CU-KS24NKU
		24	CL2472	CU-KS24NKUA
Mini Cassette	Inv H/P	12	XHS1271	CS-KE12NB41
		18	XHS1872	CS-KE18NB40W
		Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit	Inv H/P	12	CH1271	CU-KE12NK1
		7	KMS0772	CS-MKS7NKU
Wall Mount	Flexi Multi C/O	9	KMS0972	CS-MKS9NKU
		12	KMS1272	CS-MKS12NKU
		18	KMS1872	CS-MKS18NKU
		24	KMS2472	CS-MKS24NKU
		9	XMS0972	CS-MKS9NB4U
		12	XMS1272	CS-MKS12NB4U
Outdoor Unit	Flexi Multi C/O	Panel	PNR-XS1872	CZ-18BT1U
		19	CM1972A	CU-3KS19NB1U
		24	CM2472A	CU-4KS24NB1U
		31	CM3172A	CU-4KS31NB1U
		7	KMS0772	CS-MKE7NKU
Wall Mount	Flexi Multi H/P	9	KMS0972	CS-MKE9NKU
		12	KMS1272	CS-MKE12NKU
		18	KMS1872	CS-MKE18NKU
		24	KMS2472	CS-MKE24NKU
		9	XMS0972	CS-MKE9NB4U
		12	XMS1272	CS-MKE12NB4U
Mini Cassette	Flexi Multi H/P	Panel	PNR-XS1872	CZ-18BT1U
		19	CM1972A	CU-3KE19NB1U
		24	CM2472A	CU-4KE24NB1U
		31	CM3172A	CU-4KE31NB1U
Outdoor Unit	Flexi Multi H/P	19	CM1972A	CU-3KE19NB1U
		24	CM2472A	CU-4KE24NB1U
		31	CM3172A	CU-4KE31NB1U

### Controllers

Category	Common	Model No.	Model No.
Wireless RC	4-Way	RCS-BH80AAB.WL	CZ-RWSC1U
	Wall Mount	RCS-SH80AAB.WL	CZ-RWSU1U
System Controller		RCS-SH1AAB	CZ-RWSK1U
		RCS-SH1AAB	CZ-RWSK1U
Simple Remote		RCS-SH1AAB	CZ-RWSK1U
		RCS-SH1AAB	CZ-RWSK1U
Simple Wired RC		NEW	CZ-RELC2U
		NEW	CZ-RELC2U
Wireless RC	U1/T1 Series	RCS-SH80UA.WL	CZ-RWSU2U
		RCS-SH80UA.WL	CZ-RWSU2U
Wired Kit		STK-KCW1	CZ-RC515U
		STK-KCW2	CZ-RC515UA
Wired RC		STK-RCS-7TWSUA	CZ-RD515U
		STK-RCS-7TWSUA	CZ-RD515U

### Accessories

Category	Model No.	Model No.	
Fresh Air Intake	4-Way	CMB-GSJ80U	CZ-248CU1U
	4-Way	CMB-GSJ140U	CZ-428CU1U
Outdoor Bracket		STK-KSB2050	BS600
		STK-KSB5050	BS600

### Rating Conditions

	Cooling	Heating
Inside air temperature	80°F DB / 67°F WB	70°F DB / 60°F WB
Outside air temperature	95°F DB (75°F WB)	47°F DB / 43°F WB

# Tubing Sizes, Lengths and Elevation Differences, Refrigerant Charge Adjustment and Insulation Chart

SYSTEM MODEL	OD Tube Size (Inches)		Maximum length (ft) of tubing between In/Outdoor	Maximum Elevation difference (ft) between In/Outdoor		Maximum Length(ft) of Tubing at shipment	Required Additional Refrigerant Oz/ft	Insulation									
	Narrow	Wide		Outdoor Above	Outdoor Below												
S9NKU-1	1/4"	3/8"	49'	16'	16'	25'	R-410A 0.2	Both Tubes									
S9NKUA			66'	49'	49'												
XE9PKUA									16'	16'							
E9NKUA											49'	49'					
KS12NB41A													66'	49'	49'		
KE12NB41																100'	50'
S12NKU-1		50'				50'											
S12NKUA			25'	R-410A 0.27													
XE12PKUA					66'		49'		49'								
E12NKUA										16'	16'						
S18NKU-1												100'	50'	50'			
S18NKUA															25'	R-410A 0.27	
E18NKUA		66'				49'											49'
KS18NKUA			16'	16'													
KS18NB4UA					100'		50'		50'								
KE18NB4U										25'	R-410A 0.27						
S22NKU-1												66'	49'	49'			
S24NKUA															16'	16'	
E24NKUA	100'	50'				50'											
26PSK1U6			100'	100'				100'									
26PST1U6					25'		R-410A 0.43										
26PSU1U6									66'	49'	49'						
26PSF1U6												16'	16'				
26PEK1U6														100'	50'	50'	
26PET1U6	25'	R-410A 0.27															
26PEU1U6			66'	49'		49'											
26PEF1U6					16'		16'										
KS30NKUA								100'	100'	100'							
KE30NKU											25'	R-410A 0.43					
KS36NKUA													66'	49'	49'		
KE36NKU	16'	16'															
36PST1U6			100'	50'		50'											
36PSU1U6					25'		R-410A 0.27										
36PSF1U6								66'	49'	49'							
36PET1U6											16'	16'					
36PEU1U6													100'	50'	50'		
36PEF1U6	25'	R-410A 0.43															
42PST1U6			66'	49'		49'											
42PSU1U6					16'		16'										
42PET1U6								100'	50'	50'							
42PEU1U6											25'	R-410A 0.27					
CU-2S18NBU-1													1/4"	3/8"	82'	49'	49'
CU-2E18NBU	50'	50'															
CU-3KS19NBU			150'	150'													
CU-3KE19NBU					25'	R-410A 0.22											
CU-4KS24NBU							66'	49'	49'								
CU-4KE24NBU	16'	16'															
CU-4KS31NBU			100'	50'						50'							
CU-4KE31NBU					25'	R-410A 0.22											

Tubing Length

# Model code

## RAC

### Indoor Unit

C S - S 18 N K U -1  
1 2 3 4 5 6 7 8 9

### Outdoor Unit

C U - S 18 N K U -1  
1 2 3 4 5 6 7 8 9

### Set

S 18 N K U -1  
3 4 5 6 7 8 9

1 Series	2 ModelType	3 Connection configuration	4 Function	5 Capacity	6 Development	7 Category (Type)	8 Voltage	9 Others
C: Residential	S: Indoor unit U: Outdoor unit	X: Deluxe type K/None: Internal purpose MK: Indoor unit for Multi zone Connected Type(Multi-zone)Numeral: Numeral+K	S: Cooling only E: Heat pump	Cooling Capacity in BTU/h	Development Series No.	K: Wall Mount B4: Mini Ceiling Recessed  K: Internal	U: 208/230V, 60Hz 1: 115V, 60Hz	-1: Non-Low Ambient W: Multi/Single Zone common use  -1: Non-Low Ambient

## PAC

### Indoor Unit

S - 26 P U 1 U6  
1 2 3 4 5 6

### Outdoor Unit

U - 36 P S 1 U6  
1 2 3 4 5 6

### Set

26 P S 1 U6  
2 3 4 5 6

1 ModelType	2 Capacity	3 Series	4 Category(Function)	5 Development	6 Voltage
S: Indoor unit	Cooling Capacity in BTU/h	P: Large Capacity series	K: Wall Mount U: Ceiling Recessed T: Ceiling suspended F: Concealed Duct	Development Series	U6: 208/230V 60Hz
U: Outdoor Unit			S: Cooling Only H: Heat Pump		



Serving the US Ductless market since 1983

# Panasonic

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Caution Related to Safety

**Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.**