

Panasonic
ideas for life

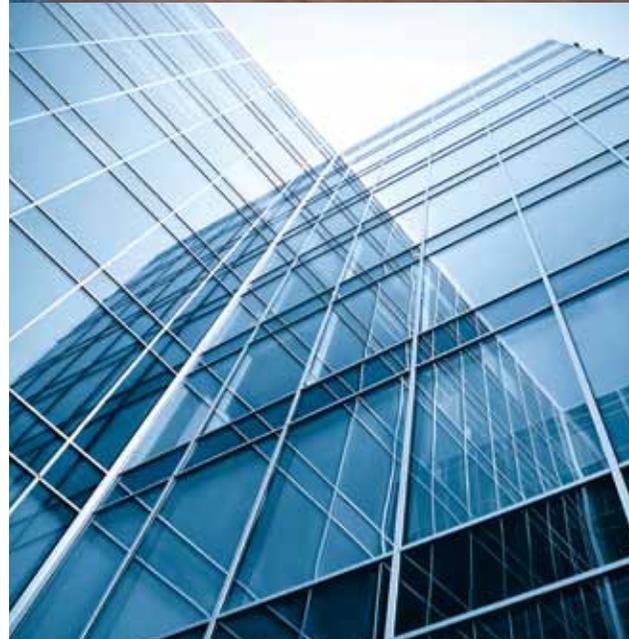


AIR CONDITIONING & HEAT PUMP PRODUCTS

INVERTER



JANUARY 2012 (ver.1.0)



New Panasonic Group

New Panasonic Group

Contributing to the progress and development of society and enriching people's lives through manufacturing

Offering wider & more comprehensive solutions for life

Panasonic ideas for life

Panasonic

Panasonic Corporation
Panasonic Electric Works Co., Ltd.



- Wide range of products, electrical appliances, business systems, residential, BtoB, healthcare
- Cutting-edge technologies
- Management infrastructures including sales platforms

SANYO

SANYO Electric Co., Ltd.



- Energy products - Solar cells, batteries
- Strong businesses in Commercial and Industrial equipment and devices

Our extensive range of products
delivers customer satisfaction

Panasonic Group Technology



ideas for life ... Today and Tomorrow

Ideas from consumers' viewpoint, ideas that are practical and useful, ideas that bring surprises and discoveries, ideas that make people happy, ideas that are innovative and interesting – ideas for life.

We Like to Challenge Our Ideas and Products

The Panasonic robot-mascot powered by rechargeable EVOLTA batteries completed a two-month-long, 500-kilometre trip from Tokyo to Kyoto. The seven-inch-tall robot, Mr EVOLTA, weighing just 1 kilogram (standardized metric measurement), is a small green character made of plastic and carbon fibre with two Panasonic rechargeable EVOLTA batteries on its back, pulling a trailer containing ten more EVOLTA batteries. Human team mates helped Mr EVOLTA by pushing a device with an infra-red signal which the robot followed and by stopping once a day to recharge its batteries. Panasonic set this challenge to demonstrate the performance and durability of its new rechargeable AA batteries made from nickel-metal-hydride. The batteries combine the convenience of a disposable battery with the performance and cost benefits of a rechargeable battery. Two years ago, Mr EVOLTA, powered by two EVOLTA alkaline batteries, climbed a 530-metre rope to the top of the Grand Canyon in six hours and 46 minutes. The following year, it finished the 24-hour Le Mans endurance race of 23.7km and was subsequently recognised in the Guinness World Records for the longest distance covered by a battery-operated remote control car.

U-Vacua Technology



Panasonic U-Vacua is a high-performance vacuum insulation panel (VIP) with very low thermal conductivity that performs about 20 times better than standard urethane foam. U-Vacua's improved performance saves space while increasing the energy efficiency of refrigeration applications, home appliances, buildings, and any products that require low energy loss from heat transfer. It is powerful enough to make a snowman survive in a hot sauna for 24 hours. We have tested it.

Built for Extreme Conditions



Toughbooks are, like the name indicates, perfect companion to conditions that require durability and liability. With a rugged build, they are also the choice for the German skijump team, which uses them in various weather conditions – from rain to -20°C temperatures.

Connected at 35,000 Feet Just Like on the Ground



Beside being a world leader in state-of-art in-flight entertainment and communication systems manufacture, Panasonic Avionics has teamed up with Lufthansa to provide passengers with in-flight broadband connectivity on Lufthansa flights. Passengers will be able to use their own devices, such as laptops and smart phones, to wirelessly connect to the Internet – to browse, access social media sites, send/receive e-mails and more.

The Global Trusted Air Conditioning Brand

53 years since its establishment, Panasonic Air Conditioning Group has grown into a global company.

Through continuous quest for product innovations, the Group has evolved from manufacturing Compressor to providing Comprehensive Air Conditioning solutions. This has earned Panasonic, the reputation as the trusted brand for superior quality and reliable products in the industry.

HISTORY

of Air Conditioning Group

1958-2011

1958 Started production and sales of Home Coolers
The Electrical Appliance Business Group (Kadoma) started cooler production in March 1958. Started sales in May under the "Home Cooler" name.



1961 Started exports of Home Coolers (to South Vietnam)

1965 Launched Room Coolers



1968 Began development of Rotary Compressors
Later, their high efficiency and high quality attracted domestic and overseas air conditioner manufactures. Began external sales.

1972 Established overseas business base in Malaysia
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.



1983 Launched inverter Air Conditioner
Started sales of Panasonic's first inverter air conditioners and has since gained increasing popularity. Inverter became the future technology of air conditioner market.
Started shipments of Air Conditioners to Panasonic America

1985 Began development of Scroll Compressors
Began development of scroll compressors, offering high efficiency, low noise, and low vibration in comparison to rotary compressors.



1990 Launched world's first Compact Scroll Compressor-equipped Air Conditioner

1992 Developed industry's smallest outdoor air conditioning unit: "Chi-size"

1993 Established Matsushita-Wanbao (Guangzhou) Air Conditioner (MWAC)
Established Matsushita-Wanbao (Guangzhou) Compressor (MWCC)
Established Matsushita Air Conditioner Engineering (Matsushita ACE)

2003 Launched EcoCute on the back of better energy-saving technology
Launched accumulator-less, high-efficiency, CO₂ scroll compressor for EcoCute
Began production of Multi-split packaged air conditioner (mini-VRF)

2005 Launched air conditioner automatic filter cleaning function (AC robot)
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 improves Panasonic's air conditioner market share.



2006 Aggregated global production of Panasonic compressors reached 200 million units

2008 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



2009 Established air conditioner dedicated sales company in Europe (PHAAE)
Panasonic HA Air-Conditioning Europe (PHAAE) strengthened the commercial air conditioning business.

2011 Integration of Sanyo HVAC USA into Panasonic Corporation of North America.



**1992 Pursuit of smallest outdoor size in the industry
Focus entirely on the user**

Compact outdoor unit: "Chi-size" (small size)

With the change in the air conditioner market from "one unit per household" to "one unit per room," Panasonic responded with its "Chi-size" outdoor unit, which met demands for greater compactness and outdoor installation.

This "Chi-size" outdoor unit was about 75% the size of existing outdoor units, weighted seven kilograms lighter and required only around 66% of the installation area.

At the stage of fine-tuning, the structure and layout of the main components of outdoor units, Panasonic succeeded in changing the compressor from a vertical to a horizontal type. Because the "Chi-size" was efficient and quiet, many were in use over a long period of time.



2003 Making the 'environment' the central of product innovations

CO₂ heat pump hot water heater (EcoCute)

- . CO₂ scroll compressor requires smaller installation area
- . Quiet, compact, lightweight



Introduced mini-VRF

Using inverter control, Panasonic developed new energy saving mini-VRF series for residences.



Accumulator-less, high-efficiency, CO₂ scroll compressor for EcoCute

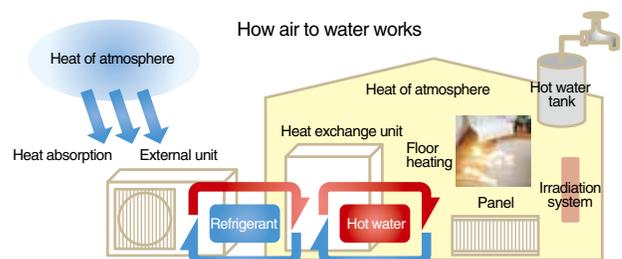
Using a non-toxic, non-combustible natural refrigerant (CO₂) as replacement for Freon helps reduce global warming.



2008 New growth for the next generation

Europe: Started Air to Water heat pump business

With environmental awareness growing around the world, hot water heating attracts considerable attention, particularly in Europe, as an alternative to conventional fuel-type heating systems. This market is expected to continue to grow in the future.



Air Conditioners & Heat Pumps Line-up

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

COOLING ONLY MODELS / STANDARD TYPE

Btu/h	9,000	12,000	18,000	22,000	24,000	
MODEL (System)	S9NKU-1	S12NKU-1	S18NKU-1, KS18NKU KS18NB4U	S22NKU-1	KS24NKU	
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	
	Wall Mounted		 CS-KS18NKU CU-KS18NKU		 CS-KS24NKU CU-KS24NKU	
	Ceiling Recessed			 CS-KS18NB4UW CU-KS18NKU		

Panasonic's Ductless Split Air Conditioner & Heat Pump products offer wide versatility in solving your cooling and heating requirements for a 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 & inter-unit wiring through a 3-1/2" opening in the wall. Since no ductwork is required, installation is simple, fast & 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 & reliability you can count on.

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, KS18NKUA KS18NB4UA	S24NKUA KS24NKUA	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			 CS-KS18NKU	 CS-KS24NKU	 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	 CU-KS24NKUA	 U-26PS1U6		 U-36PS1U6	U-42PS1U6

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

HEAT PUMP MODELS

Btu/h		9,000	12,000	18,000	24,000	26,000	30,000	36,000	42,000
MODEL (System)		E9NKUA	E12NKUA KE12NB41	E18NKUA, KE18NKU KE18NB4U	E24NKUA KE24NKU	26PEK1U6, 26PET1U6 26PEU1U6, 26PEF1U6	KE30NKU	KE36NKU, 36PET1U6 36PEU1U6, 36PEF1U6	42PET1U6 42PEU1U6
Low Ambient Type HEAT PUMP WITHOUT HEATER	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			 CS-KE18NKU	 CS-KE24NKU	 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	 CU-KE24NKU	 U-26PE1U6		 U-36PE1U6	 U-42PE1U6

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							
	Ceiling Recessed							
Outdoor Unit	Btu/h	18,000		19,000		24,000		31,000
	Outdoor	 CU-2S18NB1		 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							
	Ceiling Recessed							
Outdoor Unit	Btu/h	18,000		19,000		24,000		31,000
	Outdoor	 CU-2E18NB1		 CU-3KE19NBU	 CU-4KE24NBU	 CU-4KE31NBU		

Model Feature Chart

OP: Option

Features Chart/Explanation

		AIR CONDITIONERS				LOW-AMBIENT AIR CONDITIONERS						HEAT PUMPS						
		S9NKU-1 S12NKU-1 S18NKU-1 S22NKU-1	KS18NKU KS24NKU		S9NKUA S12NKUA S18NKUA S24NKUA	KS18NKUA KS24NKUA KS30NKUA KS36NKUA		26PSK1U6				E9NKUA E12NKUA E18NKUA E24NKUA	KE18NKU KE24NKU KE30NKU KE36NKU		26PEK1U6			
	Wall Mounted																	
	Ceiling Suspended																	
	Ceiling Recessed			KS18NB4UW			KS12NB41A KS18NB4UA				26PSU1U6 36PSU1U6 42PSU1U6			KE12NB41 KE18NB4U				26PEU1U6 36PEU1U6 42PEU1U6
	Concealed Duct										26PSF1U6 36PSF1U6							26PEF1U6 36PEF1U6
	Microprocessor-Controlled Operation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Wireless Remote Control	●	●	●	●	●	●	●	OP	OP	OP	●	●	●	●	OP	OP	OP
	Wired Remote Control	-	OP	OP	OP	OP	OP	OP	●	●	●	OP	OP	OP	OP	●	●	●
	Self-Diagnosing Function	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Dry Mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	3 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
	Filter Sign	-	-	-	-	-	-	●	-	●	-	-	-	-	●	●	-	-
	Automatic Restart Function after Power Failure	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Fresh Air Intake	-	●	●	-	-	●	-	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

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

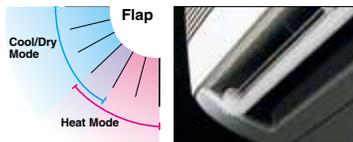
By coupling compressor and fan operation, intermittent operation can be precisely controlled according to room temperature, so that air is efficiently dehumidified.

3 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 and then switch off automatically.

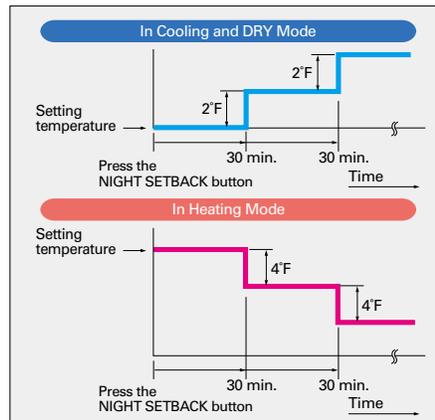
24H PROGRAM 24-hour Clock with ON/OFF Program Timer

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.

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

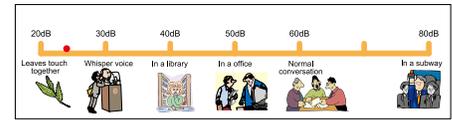
Max. head 20 inches from the discharge of the indoor unit. Condensate pump is only for allowing drain line to meet minimum gravity flow requirements.

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



Self-Diagnosing Function

Details of previous warnings are stored and can be verified on the liquid crystal display. This makes it easier to diagnose malfunctions, greatly reducing service labor. (Wired remote controller)



Anti-microbial Filter

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

Test Comparison

	Microbial Growth Rating	
	7 days	28days
Anti-microbialFilter	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 tripled the life of our condensers with an original anti-rust coating. (Note:Based on Panasonic internal test result)



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)

NEW

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 to the conditioning system. The gateway to all data, temperature and system diagnostics. 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>		<p>Built-in type</p> <ul style="list-style-type: none"> • Signal receiving unit can be installed in the outer panel of indoor unit. • Control panel can be installed in the inside indoor unit. <p>CZ-RWSU2U</p>	<p>External type</p> <ul style="list-style-type: none"> • Separate type signal receiving unit. <p>CZ-RWSC1U</p>

Remote Controllers Functions

		Timer Remote Controller (CZ-RTC2)	System Controller (CZ-64ESMC1U)	
Function	ON/OFF	●	● (Collective/Individual)	
	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	

●: Controllable
×: Uncontrollable

Note:

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

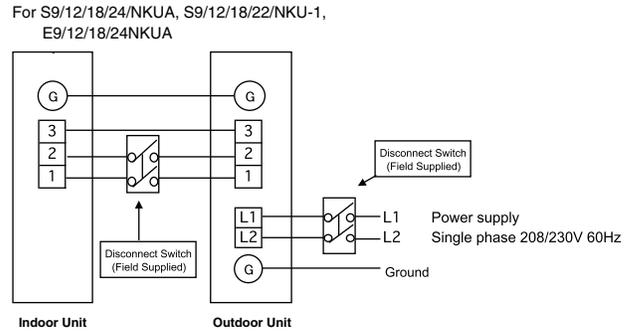
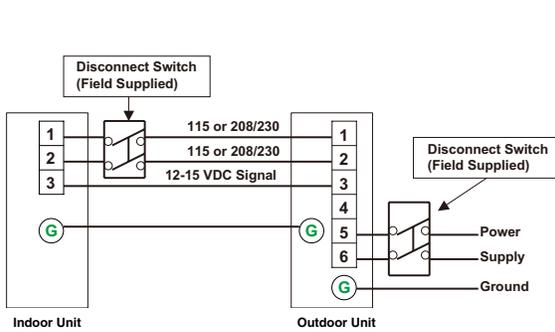
Benefits

- High Efficiency systems up to 21 SEER
- 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

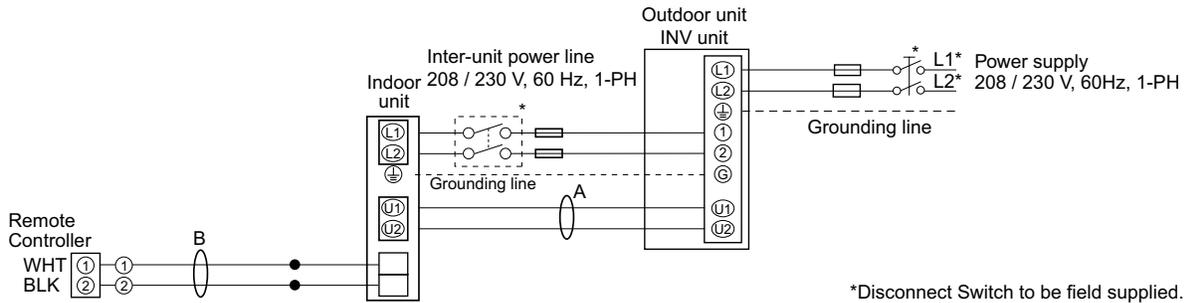
- Quick and easy installation of indoor and outdoor units
- Wired & wireless remote controllers available at option (Except for some models).
- Single Point Power Supply reduces installation costs (Comply with local codes on wire size)
- 7 Year compressor warranty and 5 year parts warranty

* These wiring diagrams are for reference only. Please refer to installation manual for details.
 * Please be sure to follow National / Local code for installation.

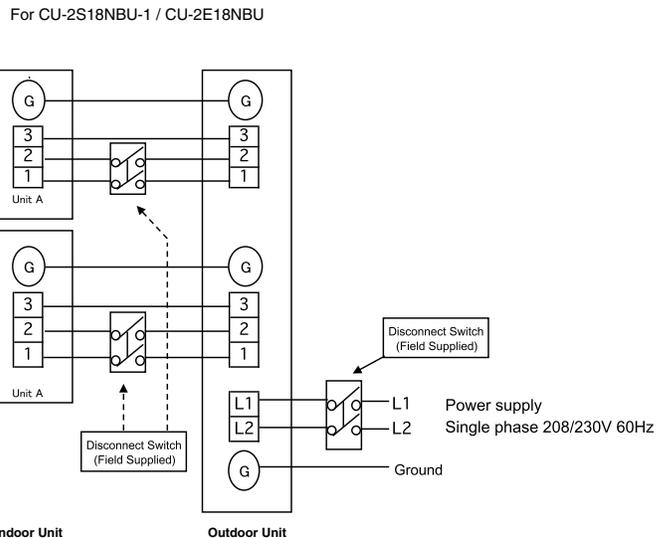
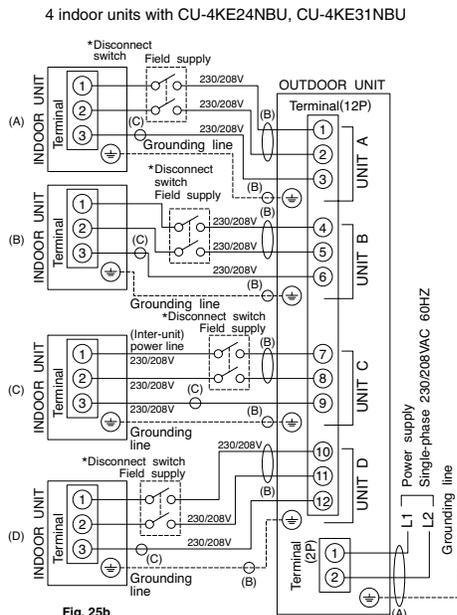
9,000 - 24,000 Btu/h single zone, KS30/36 NKUA, KE30/36NKU



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)



Welcome to the New Panasonic's Air Conditioner Product Line.



LEAVING THE OTHERS BEHIND

Panasonic's new ductless split system is more attractive than ever. Sleek and stylish, with a distinctive, curved form that blends well with virtually any decor. Complementing today's modern interiors, they can add a refreshingly cool design accent to any room in the house.

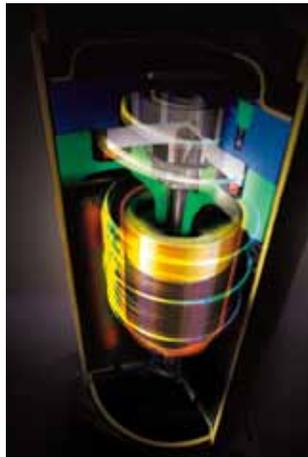


Advanced Inverter Technology — Less Energy and More Comfort

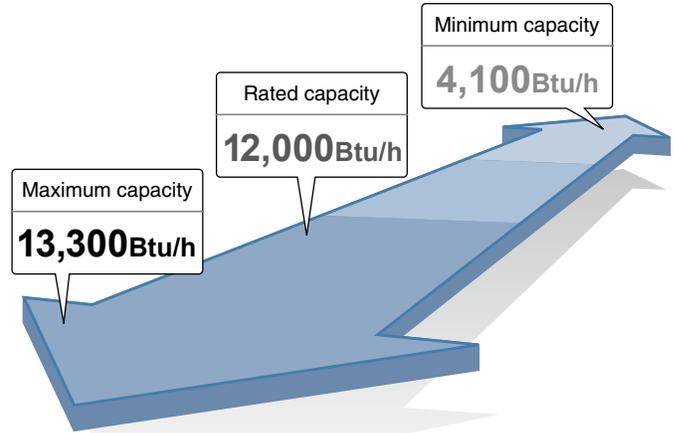


How can an inverter save energy?

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



■ Even Wider Output Power Range

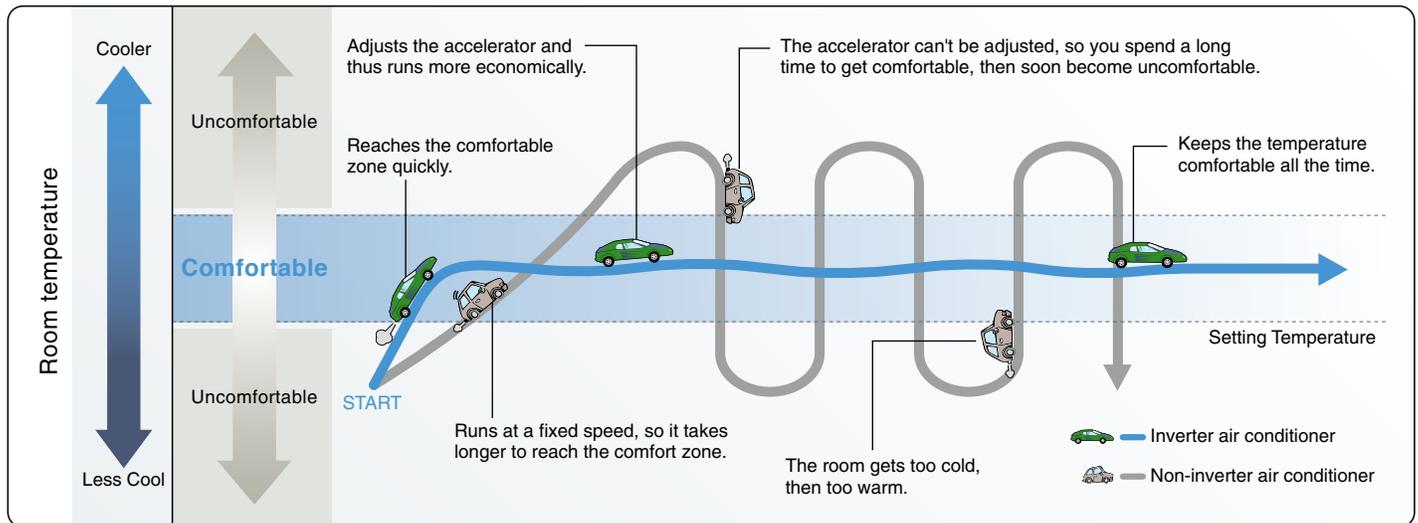


The graph shows E12NKUA's wide power output range during cooling.

■ The Advantages of Inverter Control

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

*Image of output power fluctuation



Panasonic ductless split system designed to care for you

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



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 Conditioners

Model No.	S9NKUA		S12NKUA		S18NKUA		S24NKUA		
	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	
Unit Model No.	CS-S9NKUA	CU-S9NKUA	CS-S12NKUA	CU-S12NKUA	CS-S18NKUA	CU-S18NKUA	CS-S24NKUA	CU-S24NKUA	
Performance & Electrical Ratings									
Capacity	Cooling	8,500 (4,100-10,200)		12,000 (4,100-13,300)		17,100(-)		24,000(-)	
	Heating	---		---		---		---	
Moisture Removal	High	1.3		2.5		5.9(-)		8.7(-)	
	Dry Air Flow	395		425		---		---	
SEER	Cooling	21.0		20.0		18.0		17.5	
EER	Cooling	13.1		12.0		12.2		10.0	
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	3.1/3.5(-4.4)		4.7/5.2(-6.8)		6.40/7.1(-)		11.0/12.1(-)	
	Heating	---		---		---		---	
Power Input	Cooling	650(250-850)		1,000(250-1,150)		1,400(-)		2,400(-)	
	Heating	---		---		---		---	
Back-up Heater	kW	---		---		---		---	
Fuse or Circuit Breaker Capacity	A	15		15		20		20	
Features									
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	5Speeds + Auto		5Speeds + Auto		5Speeds + Auto		5Speeds + 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)	40 / 25 / 20		43 / 28 / 20		---		---	
	Outdoor(Hi)	47		48		---		---	
Refrigerant Piping	Type	Flare		Flare		Flare		Flare	
	Discharge	1/4"		1/4"		1/4"		1/4"	
	Suction	3/8"		1/2"		1/2"		5/8"	
Refrigerant Pipe Length	Ft.	Max. 66		Max. 66		Max. 100		Max. 131	
Elevation Difference*	Outdoor Above	Max. 49		Max. 49		Max. 49		Max. 49	
	Outdoor Below	Max. 49		Max. 49		Max. 49		Max. 49	
Dimensions & Weight									
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"	34-153/32"	42-5/32"	34-153/32"
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	115.0	26.0	117.0

S18/S24: Tentative spec.

* 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

KS18NKUA / KS24NKU



Indoor Unit
CS-KS18NKU / CS-KS24NKU

26PSK1U6



Indoor Unit
S-26PK1U6

KS30NKUA / KS36NKUA



Indoor Unit
CS-KS30NKU / CS-KS36NKU



Outdoor Unit
CU-KS18NKUA / CU-KS24NKUA



Wireless Remote Controller
Wired Remote Controller (optional)



Outdoor Unit
U-26PS1U6



Wireless Remote Controller
Wired Remote Controller (optional)



Outdoor Unit
CU-KS30NKUA
CU-KS36NKUA



Wireless Remote Controller
Wired Remote Controller (optional)



Wall Mounted Air Conditioners											
Model No.	KS18NKUA		KS24NKUA		26PSK1U6		KS30NKUA		KS36NKUA		
	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	
Unit Model No.	CS-KS18NKU	CU-KS18NKUA	CS-KS24NKU	CU-KS24NKUA	S-26PK1U6	U-26PS1U6	CS-KS30NKU	CU-KS30NKUA	CS-KS36NKU	CU-KS36NKUA	
Performance & Electrical Ratings											
Capacity	Cooling	Btu/h 17,500 (4,000-17,500)		24,200 (4,000-24,200)		25,200 (9,500-25,200)		30,600 (10,900-30,600)		34,000 (10,900-34,000)	
	Heating	---		---		---		---		---	
Moisture Removal	High	Pints/H 4.89		4.89		8.1		9.57		10.64	
	Dry Air Flow	CFM 524 / 441 / 377		659 / 541 / 494		559 / 475 / 390		630 / 530 / 412		630 / 530 / 412	
SEER	Cooling	20.0		17.0		14.9		16.0		16.0	
EER	Cooling	11.7		9.8		8.9		9.3		8.5	
HSPF	Heating	---		---		---		---		---	
Power Supply	V, Phase, Hz	230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz	
Running Amps	Cooling	A 7 / 7.7(1.2-7.7)		10.8 / 12.1(1.3-12.1)		15.3 / 16.9		16.5 / 18		20 / 21.9	
	Heating	---		---		---		---		---	
Power Input	Cooling	W 1,500 / 1,500(250-1,500)		2,460 / 2,460		2,840 / 2,840		3,290		4,000	
	Heating	---		---		---		---		---	
Back-up Heater	kW	---		---		---		---		---	
Fuse or Circuit Breaker Capacity	A	15		20		15 | 30		35		45	
Features											
Controls	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		
Low Ambient Control	Equipped		Equipped		Built-in 0°F		Built-in 0°F		Built-in 0°F		
Wireless Remote Controller	Included		Included		Included		Included		Included		
Wired Remote Controller(optional)	CZ-RD515U & CZ-RC515U		CZ-RD515U & CZ-RC515U		CZ-RTC2		CZ-RD515U & CZ-RC515UA		CZ-RD515U & CZ-RC515UA		
Fan Speeds	Hi / Me / Lo & Auto		Hi / Me / Lo & Auto		Hi / Me / Lo & Auto		Hi / Me / Lo & Auto		Hi / Me / Lo & Auto		
Timer	1hr OFF and 24-hr Program		1hr OFF and 24-hr Program		24-hr Program		1hr OFF and 24-hr Program		1hr OFF and 24-hr Program		
Air Deflection	Horizontal	Manual		Manual		Manual		Manual		Manual	
	Vertical	Automatic		Automatic		Automatic		Automatic		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/ Qt) dB-A	42 / 38 / 30 / 28		47 / 44 / 41 / 30		48 / 42 / 38		49 / 44 / 39		49 / 44 / 39	
	Outdoor(Hi) dB-A	51		55		49		55		55	
Refrigerant Piping	Type	Flare		Flare		Flare		Flare		Flare	
	Discharge	inches 1/4"		1/4"		3/8"		3/8"		3/8"	
	Suction	inches 1/2"		5/8"		5/8"		5/8"		5/8"	
Refrigerant Pipe Length	Ft.	Max. 100		Max. 132		Max. 165		Max. 164		Max. 164	
Elevation Difference	Outdoor Above	Ft. Max. 50		Max. 50		Max. 100		Max. 100		Max. 100	
	Outdoor Below	Ft. Max. 50		Max. 50		Max. 50		Max. 50		Max. 50	
Dimensions & Weight											
Height	inches	11-23/32"	26-3/8"	11-23/32"	29-1/8"	12-63/64"	30-23/32"	11-3/16"	35-13/16"	11-3/16"	35-13/16"
Width	inches	41-15/16"	34-21/32"	41-15/16"	35-7/16"	44-7/8"	37"	41-15/16"	37-1/3"	41-15/16"	37-1/32"
Depth	inches	8-19/32"	11-7/32"	8-19/32"	12-19/32"	8-31/32"	13-3/8"	9-1/16"	13-3/8"	9-1/16"	13-3/8"
Net Weight	Lbs.	26.5	90.4	26.5	119.0	40.0	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.)



Wall Mounted Air Conditioner

Wall-Mounted Air Conditioners Standard Models

S9NKU-1 / S12NKU-1



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

S18NKU-1 / S22NKU-1



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



Outdoor Unit
CU-S9NKU-1
CU-S12NKU-1



Wireless
Remote
Controller



Outdoor Unit
CU-S18NKU-1
CU-S22NKU-1



Wireless
Remote
Controller



(S18/22 only)

Wall Mounted Air Conditioners

Model No.			S9NKU-1		S12NKU-1		S18NKU-1		S22NKU-1	
Unit Model No.			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
			CS-S9NKUW-1	CU-S9NKU-1	CS-S12NKUW-1	CU-S12NKU-1	CS-S18NKU-1	CU-S18NKU-1	CS-S22NKU-1	CU-S22NKU-1
Performance & Electrical Ratings										
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	
Dry Air Flow	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	
Features										
Controls			Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control			---		---		---		---	
Wireless Remote Controller			Included		Included		Included		Included	
Wired Remote Controller(optional)			---		---		---		---	
Fan Speeds			5Speeds + Auto		5Speeds + Auto		5Speeds + Auto		5Speeds + 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		R410A		R-410A	
Refrigerant control			Capillary Tube		Capillary Tube		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	
Dimensions & Weight										
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	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 Standard Models

KS18NKU / KS24NKU



Indoor Unit
CS-KS18NKU
CS-KS24NKU



Outdoor Unit
CU-KS18NKU
CU-KS24NKU



Wireless Remote Controller
Wired Remote Controller (optional)



Wall Mounted Air Conditioners					
Model No.	KS18NKU			KS24NKU	
Unit Model No.	Indoor Unit CS-KS18NKU	Outdoor Unit CU-KS18NKU	Indoor Unit CS-KS24NKU	Outdoor Unit CU-KS24NKU	
Performance & Electrical Ratings					
Capacity	Cooling	Btu/h	17,500 (4,000-17,500)		24,200 (4,000-24,200)
	Heating	Btu/h	---		
Moisture Removal	High	Pints/H	4.89		4.89
Dry Air Flow	Hi / Med / Low	CFM	524 / 441 / 377		654 / 571 / 494
SEER	Cooling		20.0		17.0
EER	Cooling		11.7		9.8
HSPF	Heating		---		
Power Supply	V, Phase, Hz		230 / 208V, 1PH, 60Hz		230 / 208V, 1PH, 60Hz
Running Amps	Cooling	A	7 / 7.7(1.2-7.7)		10.8 / 12.1 (1.3-12.1)
	Heating	A	---		
Power Input	Cooling	W	1,500 / 1,500(250-1,500)		2,460 / 2,460 (280-2,460)
	Heating	W	---		
Back-up Heater		kW	---		
Fuse or Circuit Breaker Capacity		A	15		20
Features					
Controls	Microprocessor			Microprocessor	
Low Ambient Control	Equipped			Equipped	
Wireless Remote Controller	Included			Included	
Wired Remote Controller(optional)	CZ-RD515U & CZ-RC515U			CZ-RD515U & CZ-RC515U	
Fan Speeds	Hi / Me / Lo & Auto			Hi / Me / Lo & Auto	
Timer	1hr OFF and 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	42 / 38 / 30 / 28		47 / 44 / 41 / 30
	Outdoor(Hi)	dB-A	51		
Refrigerant Piping	Type		Flare		
	Discharge	inches	1/4"		
	Suction	inches	1/2"		
Refrigerant Pipe Length		Ft.	Max. 100		Max. 131
Elevation Difference*	Outdoor Above	Ft.	Max. 50		Max. 50
	Outdoor Below	Ft.	Max. 50		
Dimensions & Weight					
Height		inches	Indoor Unit	Outdoor Unit	Indoor Unit
			11-23/32"	26-3/8"	11-23/32"
Width		inches	41-15/16"	34-21/32"	41-15/16"
Depth		inches	8-19/32"	11-7/32"	8-19/32"
Net Weight		Lbs.	26.5	90.4	26.5
					119.0

* 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

E9NKUA / E12NKUA



Indoor Unit
CS-E9NKUAW / CS-E12NKUAW



Wireless Remote Controller



Wired Remote Controller (CZ-RD516C) (Optional)

Outdoor Unit
CU-E9NKUA / CU-E12NKUA

E18NKUA / E24NKUA



Indoor Unit
CS-E18NKUA / CS-E24NKUA



Wireless Remote Controller



Wired Remote Controller (CZ-RD516C) (Optional)

Outdoor Unit
CU-E18NKUA / CU-E24NKUA



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
Performance & Electrical Ratings								
Capacity	Cooling	Btu/h	8,500(4,100-10,200)	12,000(4,100-13,300)	17,100(-)	24,000(-)	24,000(-)	24,000(-)
	Heating	Btu/h	11,200(4,100-14,100)	13,800(4,100-16,300)	20,400(-)	28,800(-)	28,800(-)	28,800(-)
Moisture Removal	High	Pints/H	1.3	2.5	5.9(-)	8.7(-)	8.7(-)	8.7(-)
Dry Air Flow	High	CFM	395	425	---	---	---	---
SEER	Cooling		21.0	20.0	18.0	17.5	17.5	17.5
EER	Cooling		13.1	12.0	12.2	10.0	10.0	10.0
HSPF	Heating		10.5	10.0	8.5	8.5	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	230/208V, 1PH, 60Hz	230/208V, 1PH, 60Hz
Running Amps	Cooling	A	3.1(-7)	4.7(-7.8)	6.40 / 7.05(-)	11.00 / 12.10(-)	11.00 / 12.10(-)	11.00 / 12.10(-)
	Heating	A	5.4(-7)	5.8(-7.8)	7.10 / 7.80(-)	12.80 / 14.10(-)	12.80 / 14.10(-)	12.80 / 14.10(-)
Power Input	Cooling	W	650(250-850)	1,000(250-1,150)	1,400(-)	2,400(-)	2,400(-)	2,400(-)
	Heating	W	1,150(200-1,500)	1,300(200-1,710)	1,550(-)	2,800(-)	2,800(-)	2,800(-)
Back-up Heater		kW	---	---	---	---	---	---
Fuse or Circuit Breaker Capacity		A	15	15	20	20	20	20
Features								
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	5Speeds + Auto		5Speeds + Auto		5Speeds + Auto		5Speeds + Auto	
Timer	24hr Program		24hr Program		24hr Program		24hr Program	
Air Deflection	Horizontal	Manual	Manual	Automatic	Automatic	Automatic	Automatic	Automatic
	Vertical	Automatic	Automatic	Automatic	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	---	---	---	---	---
	Outdoor(Hi) dB-A	47	48	---	---	---	---	---
Refrigerant Piping	Type	Flare	Flare	Flare	Flare	Flare	Flare	Flare
	Discharge	inches	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Suction	inches	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"
Refrigerant Pipe Length		Ft.	Max. 66	Max. 66	Max. 100	Max. 100	Max. 100	Max. 100
Elevation Difference*	Outdoor Above	Ft.	Max. 49	Max. 49	Max. 49.2	Max. 49.2	Max. 49.2	Max. 49.2
	Outdoor Below	Ft.	Max. 49	Max. 49	Max. 49.2	Max. 49.2	Max. 49.2	Max. 49.2
Dimensions & Weight								
Height		inches	11-7/16"	21-9/32"	11-7/16"	21-9/32"	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"
Depth		inches	8-1/16"	11-13/32"	8-1/16"	11-13/32"	9-9/32"	12-5/8"
Net Weight		Lbs.	20.0	82.0	20.0	82.0	26.0	115.0

E18/24: Tentative spec.

* 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

KE18NKU / KE24NKU



Indoor Unit
CS-KE18NKU / CS-KE24NKU

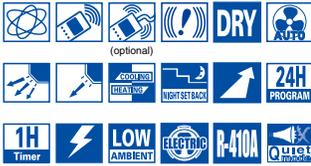


Outdoor Unit
CU-KE18NKU / CU-KE24NKU



Wireless Remote Controller

Wired Remote Controller (optional)



26PEK1U6



Indoor Unit
S-26PK1U6

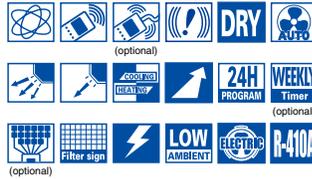


Outdoor Unit
U-26PE1U6



Wireless Remote Controller

Wired Remote Controller (optional)



KE30NKU / KE36NKU



Indoor Unit
CS-KE30NKU / CS-KE36NKU

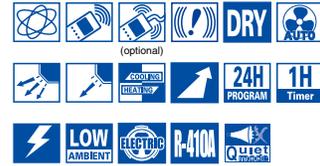


Outdoor Unit
CU-KE30NKU / CU-KE36NKU



Wireless Remote Controller

Wired Remote Controller (optional)



Wall Mounted Heat Pumps

Wall Mounted Heat Pumps

Model No.	KE18NKU		KE24NKU		26PEK1U6		KE30NKU		KE36NKU			
	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit		
Unit Model No.	CS-KE18NKU	CU-KE18NKU	CS-KE24NKU	CU-KE24NKU	S-26PK1U6	U-26PE1U6	CS-KE30NKU	CU-KE30NKU	CS-KE36NKU	CU-KE36NKU		
Performance & Electrical Ratings												
Capacity	Cooling	Btu/h	17,500 (4,000-17,500)	24,200 (4,000-24,200)	25,200 (9,500-25,200)	30,600 (10,900-30,600)	34,000 (10,900-34,000)					
	Heating	Btu/h	20,400 (4,400-20,400)	29,000 (4,400-29,000)	29,200 (8,000-29,200)	33,000 (14,000-33,000)	36,000 (14,000-36,000)					
Moisture Removal	High	Pints/H	4.89	4.89	8.1	9.57	10.64					
Dry Air Flow	Hi / Med / Low	CFM	524 / 441 / 377	659 / 571 / 494	559 / 475 / 390	630 / 530 / 412	630 / 530 / 412					
SEER	Cooling		20	17	14.9	16	16					
EER	Cooling		11.7	9.8	8.9	9.3	8.5					
HSPF	Heating		10.0	8.5	10.2	9.0	9.0					
Power Supply	V, Phase, Hz		230 / 208V, 1PH, 60Hz	230 / 208V, 1PH, 60Hz	230V / 208V, 1PH, 60Hz	230 / 208V, 1PH, 60Hz	230 / 208V, 1PH, 60Hz					
Running Amps	Cooling	A	7 / 7.7 (1.2 ~ 7.7)	10.8 / 12.1 (1.3 ~ 12.1)	15.3 / 16.9	16.5 (5 ~ 16.5) / 18.0	20 (5 ~ 20) / 21.9					
	Heating	A	7.4 / 8.1 (1.3 ~ 8.1)	12 / 13.5 (1.3 ~ 13.5)	14.0 / 15.5	15.3 (4.5 ~ 15.3) / 16.3	18.2 (4.5 ~ 18.2) / 19.9					
Power Input	Cooling	W	1,500 / 1,500 (/250 ~1,500)	2,460 / 2,460 (/280 ~2,460)	2,840 / 2,840	3,290	4,000					
	Heating	W	1,575 / 1,575 (/270 ~1,575)	2,490 / 2,490 (/290 ~2,490)	2,620 / 2,620	3,070	3,650					
Back-up Heater		kW	---	---	---	---	---					
Fuse or Circuit Breaker Capacity		A	15	20	15	30	35	45				
Features												
Controls	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor			
Low Ambient Control	Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F		Built-in 0°F			
Wireless Remote Controller	Included		Included		Included		Included		Included			
Wired Remote Controller(optional)	CZ-RD515U & CZ-RC515U		CZ-RD515U & CZ-RC515U		CZ-RTC2		CZ-RD515U & CZ-RC515UA		CZ-RD515U & CZ-RC515UA			
Fan Speeds	Hi / Me / Lo & Auto		Hi / Me / Lo & Auto		3 and Automatic Control / Variable		Hi / Me / Lo & Auto		Hi / Me / Lo & Auto			
Timer	1hr OFF and 24-hr Program		1hr OFF and 24-hr Program		24-hr Program		1hr OFF and 24-hr Program		1hr OFF and 24-hr Program			
Air Deflection	Horizontal	Manual		Manual		---		Manual		Manual		
	Vertical	Automatic		Automatic		Automatic		Automatic		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 / Qt)dB-A	42 / 38 / 30 / 28		47 / 44 / 41 / 30		41 / 37 / 34		49 / 44 / 39		49 / 44 / 39		
	Outdoor(Hi)	dB-A	51	52	55	56	49	55	55	55		
Refrigerant Piping	Type	Flare		Flare		Flare		Flare		Flare		
	Discharge	inches	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"		
	Suction	inches	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"		
Refrigerant Pipe Length		Ft.	Max. 100	Max. 100	Max. 165	Max. 164	Max. 164	Max. 164	Max. 164	Max. 164		
Elevation Difference*	Outdoor Above	Ft.	Max. 50	Max. 50	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	Max. 50	Max. 50		
Dimensions & Weight												
Height		inches	11-23/32"	26-3/8"	11-23/32"	29-1/8"	12-63/64"	30-23/32"	11-3/16"	35-13/16"	11-3/16"	35-13/16"
Width		inches	41-15/16"	34-21/32"	41-15/16"	35-7/16"	44-7/8"	37"	41-15/16"	37-1/32"	41-15/16"	37-1/32"
Depth		inches	8-19/32"	11-7/32"	8-19/32"	12-19/32"	8-31/32"	13-3/8"	9-1/16"	13-3/8"	9-1/16"	13-3/8"
Net Weight		Lbs.	26.5	97.0	26.5	130.1	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.)

Fits with Various Sizes of Room and Life Style

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



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	
Power Input		W		850	
Capacity	Cooling	Btu/h	9,600		10,900
Moisture Removal	High	Pints/H	1.1		1.3
Unit Dimensions (HxWxD)		inch			
Net Weight		Lbs.		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	Narrow Tube	inch	1/4"		1/4"
Diameter	Wide Tube	inch	3/8"		3/8"
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		A		4.1 / 4.5	
Power Input		W		850 / 1,150	
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			
Net Weight		Lbs.		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	Narrow Tube	inch	1/4"		1/4"
Diameter	Wide Tube	inch	3/8"		3/8"
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	
Performance	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			
Electrical Rating					
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			25
Features					
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		
Refrigerant Tubing Connections	Type	Flare			
Max. Allowable Tubing Length	Ft.	Max.164 (82'per unit)			Max.164 (82'per unit)
Refrigerant Tube	Narrow Tube	inch	1/4"		
Diameter	Wide Tube	inch	3/8"		
Dimensions & Weight					
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			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 Indoor Units KS/KE Series

Fits with Various Sizes of Room and Life Style

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

Model No.		Cooling Only				
		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

Model No.		Heat Pump				
		CS-MKE7NKU	CS-MKE9NKU	CS-MKE12NKU	CS-MKE18NKU	CS-MKE24NKU
Power Source	A	230V-208V, 1 PH, 60 Hz				
Running Ampere	W	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
	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 Indoor Units KS/KE Series

Fits with Various Sizes of Room and Life Style

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

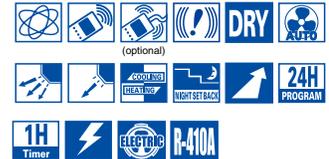
CS-MKE9NB4U / CS-MKE12NB4U / CS-KE18NB4UW



Wireless Remote Controller (Included) with each indoor



Wired Remote Controller (CZ-RD515U) (optional)



Indoor Unit: Ceiling Recessed Type

Cooling Only					
Model No.	CS-MKS9NB4U		CS-MKS12NB4U		CS-KS18NB4UW
Grille Assemblée	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
Moisture Removal	High	Pints/H	3.4		4.26
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
Operating Sound (H/L)	Cooling	dB-A	33 / 32 / 31		34 / 32 / 31
	Heating	dB-A	---		---
Refrigerant Tube Diameter	Narrow Tube	inch	1/4"		1/4"
	Wide Tube	inch	3/8"		3/8"
Elevation Difference*	Outdoor Above	Ft.	Max. 50		Max. 50
	Outdoor Below	Ft.	Max. 50		Max. 50

Heat Pump					
Model No.	CS-MKE9NB4U		CS-MKE12NB4U		CS-KE18NB4UW
Grille Assemblée	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
	Heating	Btu/h	12,300		13,600
Moisture Removal	High	Pints/H	3.4		4.26
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
	Heating	CFM	247 / 235 / 224		268 / 247 / 224
Operating Sound(H/L)	Cooling	dB-A	33 / 32 / 31		34 / 32 / 31
	Heating	dB-A	34 / 33 / 32		35 / 34 / 32
Refrigerant Tube Diameter	Narrow Tube	inch	1/4"		1/4"
	Wide Tube	inch	3/8"		1/2"
Elevation Difference*	Outdoor Above	Ft.	Max. 50		Max. 50
	Outdoor Below	Ft.	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 Outdoor Units KS/KE Series

Connectable from 2 to 3 Indoor Units



Up to **3** Rooms



CU-3KS19NBU
CU-3KE19NBU

Outdoor Unit

Model No.	CU-3KS19NBU		CU-3KE19NBU	
	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		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	50	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	1/4" x 3	1/4" x 3	
	Wide Tube	3/8" x 3	3/8" x 3	
Dimensions & Weight				
Unit Dimensions	H x W x D	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 3 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	
Number of Connectable Indoor Units			2 ~ 4	2 ~ 4	2 ~ 4		2 ~ 4	
SEER	Cooling		18.0	18.0	17.6		17.2	
EER	Cooling		10.0	11.5	11.2		11.2	
HSPF	Heating		---	8.5	---		9.3	
Electrical Rating								
Power Supply	V, Phase, Hz	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	
Features								
Controls		Microprocessor	Microprocessor		Microprocessor		Microprocessor	
Fan Speeds		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	
Refrigerant / Amount Charged at Shipment	lb.	R-410A / 6.17	R-410A / 6.17		R-410A / 8.38		R-410A / 8.38	
Refrigerant Control		Electric Expansion Valve	Electric Expansion Valve		Electric Expansion Valve		Electric Expansion Valve	
Operation Sound	Hi	dB-A	50	52	53		53	55
Refrigerant Tubing Connections	Type	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)	
Refrigerant Tube Diameter	Narrow Tube	inch	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 2 + 1/2" x 2		3/8" x 2 + 1/2" x 2	
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"		35-1/32" x 35-7/16" x 12-19/32"	
Net Weight	Lbs.		138.9		143.3		174.2	

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 Combination Tables-Cooling

Most popular combinations, refer to technical manual for complete listing of combinations.

CU-3KS19NBU/CU-3KE19NBU 230V

	Indoor Unit Combination		Indoor Unit Capacity (BTU/h)															
			COOLING					HEATING										
			Room A	Room B	Room C	Total Performance			Room A	Room B	Room C	Total Performance						
					Capacity	(	Min.	-	Max.)				Capacity	(	Min.	-	Max.)	
2-room Operation	7,500 + 7,500	= 15,000	7,500	7,500		15,000	(	6,800	-	17,400)	8,500	8,500		17,000	(	6,800	-	21,800)
	7,500 + 9,000	= 16,500	7,500	9,000		16,500	(	6,800	-	18,600)	8,525	12,275		20,800	(	7,100	-	24,800)
	7,500 + 11,900	= 19,400	6,727	10,673		17,400	(	6,800	-	18,600)	8,358	14,042		22,400	(	7,100	-	24,800)
	7,500 + 17,500	= 25,000	5,520	12,880		18,400	(	7,100	-	18,600)	7,000	16,800		23,800	(	8,100	-	24,800)
	9,000 + 9,000	= 18,000	8,500	8,500		17,000	(	6,800	-	18,600)	11,600	11,600		23,200	(	7,800	-	24,800)
	9,000 + 11,900	= 20,900	7,622	10,078		17,700	(	7,100	-	18,600)	10,800	12,600		23,400	(	7,800	-	24,800)
	9,000 + 17,500	= 26,500	6,317	12,283		18,600	(	7,100	-	18,600)	9,075	15,125		24,200	(	8,100	-	24,800)
3-room Operation	7,500 + 7,500 + 9,000	= 24,000	5,750	5,750	6,900	18,400	(	9,800	-	18,600)	6,919	6,919	9,963	23,800	(	10,200	-	24,800)
	7,500 + 7,500 + 11,900	= 26,900	5,186	5,186	8,228	18,600	(	9,800	-	18,600)	6,576	6,578	11,048	24,200	(	10,900	-	24,800)
	7,500 + 7,500 + 17,500	= 32,500	4,292	4,292	10,015	18,600	(	9,800	-	18,600)	5,636	5,636	13,527	24,800	(	11,600	-	24,800)
	7,500 + 9,000 + 9,000	= 25,500	5,471	6,565	6,565	18,600	(	9,800	-	18,600)	6,237	8,981	8,981	24,200	(	11,600	-	24,800)
	7,500 + 9,000 + 11,900	= 28,400	4,912	5,894	7,794	18,600	(	9,800	-	18,600)	5,971	8,598	10,031	24,600	(	11,600	-	24,800)
	7,500 + 9,000 + 17,500	= 34,000	4,103	4,924	9,574	18,600	(	9,800	-	18,600)	5,124	7,379	12,298	24,800	(	11,600	-	24,800)
	7,500 + 11,900 + 11,900	= 31,300	4,457	7,072	7,072	18,600	(	9,800	-	18,600)	5,688	9,556	9,556	24,800	(	11,600	-	24,800)
	9,000 + 9,000 + 9,000	= 27,000	6,200	6,200	6,200	18,600	(	9,800	-	18,600)	8,267	8,267	8,267	24,800	(	11,600	-	24,800)
	9,000 + 9,000 + 11,900	= 29,900	5,599	5,599	7,403	18,600	(	9,800	-	18,600)	7,832	7,832	9,137	24,800	(	11,600	-	24,800)
	9,000 + 11,900 + 11,900	= 32,800	5,104	6,748	6,748	18,600	(	9,800	-	18,600)	7,440	8,680	8,680	24,800	(	11,600	-	24,800)
11,900 + 11,900 + 11,900	= 35,700	6,200	6,200	6,200	18,600	(	9,800	-	18,600)	8,267	8,267	8,267	24,800	(	11,600	-	24,800)	

CU-4KS19NBU/CU-4KE19NBU 230V

	Indoor Unit Combination		Indoor Unit Capacity (BTU/h)																			
			COOLING						HEATING													
			Room A	Room B	Room C	Room D	Total Performance			Room A	Room B	Room C	Room D	Total Performance								
						Capacity	(	Min.	-	Max.)					Capacity	(	Min.	-	Max.)	
2-room Operation	7,500 + 7,500	= 15,000	7,500	7,500			15,000	(	6,800	-	17,400)	8,500	8,500			17,000	(	6,800	-	21,800)
	7,500 + 9,000	= 16,500	7,500	9,000			16,500	(	6,800	-	19,700)	8,500	12,200			20,800	(	7,100	-	25,400)
	7,500 + 11,900	= 19,400	7,500	11,900			19,400	(	6,800	-	22,800)	8,500	14,300			22,800	(	7,100	-	28,200)
	7,500 + 17,500	= 25,000	6,720	15,680			22,400	(	7,100	-	23,200)	8,500	20,400			28,200	(	8,100	-	29,200)
	7,500 + 24,200	= 31,700	5,489	17,711			23,200	(	7,100	-	23,200)	8,500	29,000			29,200	(	8,100	-	29,200)
	9,000 + 9,000	= 18,000	9,000	9,000			18,000	(	6,800	-	21,400)	12,200	12,200			24,400	(	7,800	-	29,000)
	9,000 + 11,900	= 20,900	8,612	11,388			20,000	(	6,800	-	23,200)	12,200	14,300			25,800	(	7,800	-	29,000)
	9,000 + 17,500	= 26,500	7,743	15,057			22,800	(	7,100	-	23,200)	12,200	20,400			28,600	(	8,100	-	29,200)
	9,000 + 24,200	= 33,200	6,289	16,911			23,200	(	7,100	-	23,200)	12,200	29,000			29,200	(	8,100	-	29,200)
	11,900 + 11,900	= 23,800	11,200	11,200			22,400	(	6,800	-	23,200)	14,300	14,300			27,200	(	7,800	-	29,000)
	11,900 + 17,500	= 29,400	9,390	13,810			23,200	(	7,100	-	23,200)	14,300	20,400			29,000	(	8,100	-	29,200)
	11,900 + 24,200	= 36,100	7,648	15,552			23,200	(	7,100	-	23,200)	14,300	29,000			29,200	(	8,100	-	29,200)
17,500 + 17,500	= 35,000	11,600	11,600			23,200	(	7,100	-	23,200)	20,400	20,400			29,200	(	8,100	-	29,200)	
3-room Operation	7,500 + 7,500 + 7,500	= 22,500	7,333	7,333	7,333		22,000	(	8,500	-	23,200)	8,500	8,500	8,500		25,400	(	9,200	-	29,000)
	7,500 + 7,500 + 9,000	= 24,000	7,000	7,000	8,400		22,400	(	9,800	-	23,200)	8,500	8,500	12,200		27,200	(	10,200	-	29,200)
	7,500 + 7,500 + 11,900	= 26,900	6,413	6,413	10,175		23,000	(	9,800	-	23,200)	8,500	8,500	14,300		28,200	(	10,900	-	29,200)
	7,500 + 7,500 + 17,500	= 32,500	5,354	5,354	12,492		23,200	(	9,800	-	23,200)	8,500	8,500	20,400		29,200	(	11,600	-	29,200)
	7,500 + 9,000 + 9,000	= 25,500	6,706	8,047	8,047		22,800	(	9,800	-	23,200)	8,500	12,200	12,200		28,600	(	11,600	-	29,200)
	7,500 + 9,000 + 11,900	= 28,400	6,127	7,352	9,721		23,200	(	9,800	-	23,200)	8,500	12,200	14,300		29,000	(	11,600	-	29,200)
	7,500 + 9,000 + 17,500	= 34,000	5,118	6,141	11,941		23,200	(	9,800	-	23,200)	8,500	12,200	20,400		29,200	(	11,600	-	29,200)
	7,500 + 11,900 + 11,900	= 31,300	5,559	8,820	8,820		23,200	(	9,800	-	23,200)	8,500	14,300	14,300		29,200	(	11,600	-	29,200)
	7,500 + 11,900 + 17,500	= 36,900	4,715	7,482	11,003		23,200	(	9,800	-	23,200)	8,500	14,300	20,400		29,200	(	11,600	-	29,200)
	9,000 + 9,000 + 9,000	= 27,000	7,733	7,733	7,733		23,200	(	9,800	-	23,200)	12,200	12,200	12,200		29,200	(	11,600	-	29,200)
	9,000 + 9,000 + 11,900	= 29,900	6,983	6,983	9,233		23,200	(	9,800	-	23,200)	12,200	12,200	14,300		29,200	(	11,600	-	29,200)
	9,000 + 9,000 + 17,500	= 35,500	5,882	5,882	11,437		23,200	(	9,800	-	23,200)	12,200	12,200	20,400		29,200	(	11,600	-	29,200)
	9,000 + 11,900 + 11,900	= 32,800	6,366	8,417	8,417		23,200	(	9,800	-	23,200)	12,200	14,300	14,300		29,200	(	11,600	-	29,200)
	9,000 + 11,900 + 17,500	= 38,400	5,438	7,190	10,573		23,200	(	9,800	-	23,200)	12,200	14,300	20,400		29,200	(	11,600	-	29,200)
	11,900 + 11,900 + 11,900	= 35,700	7,733	7,733	7,733		23,200	(	9,800	-	23,200)	14,300	14,300	14,300		29,200	(	11,600	-	29,200)
11,900 + 11,900 + 17,500	= 41,300	6,685	6,685	9,831		23,200	(	9,800	-	23,200)	14,300	14,300	20,400		29,200	(	11,600	-	29,200)	
4-room Operation	7,500 + 7,500 + 7,500 + 7,500	= 30,000	5,800	5,800	5,800	5,800		23,200	(9,800	-	23,200)	7,300	7,300	7,300	7,300		29,200	(11,600	-	29,200)
	7,500 + 7,500 + 7,500 + 9,000	= 31,500	5,524	5,524	5,524	6,629		23,200	(9,800	-	23,200)	6,952	6,952	6,952	8,343		29,200	(11,600	-	29,200)
	7,500 + 7,500 + 7,500 + 11,900	= 34,400	5,058	5,058	5,058	8,026		23,200	(9,800	-	23,200)	6,366	6,366	6,366	10,101		29,200	(11,600	-	29,200)
	7,500 + 7,500 + 7,500 + 17,500	= 40,000	4,350	4,350	4,350	10,150		23,200	(9,800	-	23,200)	5,475	5,475	5,475	12,775		29,200	(11,600	-	29,200)
	7,500 + 7,500 + 9,000 + 9,000	= 33,000	5,273	5,273	6,327	6,327		23,200	(9,800	-	23,200)	6,636	6,636	7,964	7,964		29,200	(11,600	-	29,200)
	7,500 + 7,500 + 9,000 + 11,900	= 35,900	4,847	4,847	5,816	7,690		23,200	(9,800	-	23,200)	6,100	6,100	7,320	9,679		29,200	(11,600	-	29,200)
	7,500 + 7,500 + 9,000 + 17,500	= 41,500	4,193	4,193	5,031	9,783		23,200	(9,800	-	23,200)	5,277	5,277	6,333	12,313		29,200	(11,600	-	29,200)

CU-4KS31NBU/CU-4KE31NBU 230V

	Indoor Unit Combination			Indoor Unit Capacity (BTU/h)												
				COOLING					HEATING							
				Room A	Room B	Room C	Room D	Total Performance			Room A	Room B	Room C	Room D	Total Performance	
							Capacity	Min.	Max.					Capacity	Min.	Max.
2-room Operation	7500 + 7,500	=	15,000	7,500	7,500			15,000	(4,400 - 17,400)	8,500	8,500			17,000	(6,800 - 21,800)	
	7500 + 9,000	=	16,500	7,500	9,000			16,500	(5,100 - 19,700)	8,541	12,259			20,800	(7,100 - 25,400)	
	7500 + 11,900	=	19,400	7,500	11,900			19,400	(5,800 - 22,800)	8,500	14,300			22,800	(7,800 - 28,200)	
	7500 + 17,500	=	25,000	7,320	17,080			24,400	(7,500 - 26,200)	8,529	20,471			29,000	(10,200 - 32,000)	
	7500 + 24,200	=	31,700	6,625	21,375			28,000	(7,800 - 30,000)	6,800	23,200			30,000	(10,200 - 32,000)	
	9000 + 9,000	=	18,000	9,000	9,000			18,000	(5,800 - 22,000)	12,200	12,200			24,400	(8,100 - 29,000)	
	9000 + 11,900	=	20,900	8,957	11,843			20,800	(6,400 - 25,200)	11,878	13,922			25,800	(8,800 - 29,000)	
	9000 + 17,500	=	26,500	8,626	16,774			25,400	(7,800 - 29,000)	11,002	18,398			29,400	(11,200 - 32,000)	
	9000 + 24,200	=	33,200	7,861	21,139			29,000	(7,800 - 30,000)	9,061	21,539			30,600	(11,200 - 32,000)	
	11900 + 11,900	=	23,800	11,900	11,900			23,800	(7,500 - 28,600)	13,600	13,600			27,200	(9,800 - 29,000)	
	11900 + 17,500	=	29,400	10,848	15,952			26,800	(8,800 - 30,000)	12,281	17,519			29,800	(11,600 - 32,000)	
	11900 + 24,200	=	36,100	9,625	19,575			29,200	(8,800 - 30,000)	10,238	20,762			31,000	(11,600 - 32,000)	
17500 + 17,500	=	35,000	14,500	14,500			29,000	(8,800 - 30,000)	15,300	15,300			30,600	(11,600 - 32,000)		
17500 + 24,200	=	41,700	12,296	17,004			29,300	(9,200 - 30,000)	13,215	18,785			32,000	(11,600 - 32,000)		
3-room Operation	7500 + 7,500 + 7,500	=	22,500	7,467	7,467	7,467		22,400	(6,800 - 26,200)	8,467	8,467	8,467		25,400	(9,200 - 30,600)	
	7500 + 7,500 + 9,000	=	24,000	7,500	7,500	9,000		24,000	(7,500 - 26,600)	8,442	8,442	12,116		29,000	(10,200 - 31,200)	
	7500 + 7,500 + 11,900	=	26,900	7,082	7,082	11,236		25,400	(8,100 - 26,800)	7,930	7,930	13,341		29,200	(10,900 - 32,000)	
	7500 + 7,500 + 17,500	=	32,500	6,600	6,600	15,400		28,600	(9,200 - 30,600)	6,818	6,818	16,364		30,000	(11,600 - 32,000)	
	7500 + 7,500 + 24,200	=	39,200	5,587	5,587	18,027		29,200	(9,800 - 30,600)	5,802	5,802	19,796		31,400	(11,600 - 32,000)	
	7500 + 9,000 + 9,000	=	25,500	7,294	8,753	8,753		24,800	(7,800 - 27,200)	7,596	10,902	10,902		29,400	(11,200 - 31,600)	
	7500 + 9,000 + 11,900	=	28,400	6,972	8,366	11,062		26,400	(8,800 - 27,600)	7,237	10,387	12,175		29,800	(11,600 - 32,000)	
	7500 + 9,000 + 17,500	=	34,000	6,309	7,571	14,721		28,600	(9,800 - 30,600)	6,328	9,083	15,188		30,600	(11,600 - 32,000)	
	7500 + 9,000 + 24,200	=	40,700	5,381	6,457	17,362		29,200	(9,800 - 30,600)	5,473	7,855	18,672		32,000	(11,600 - 32,000)	
	7500 + 11,900 + 11,900	=	31,300	6,613	10,493	10,493		27,600	(9,200 - 28,600)	6,873	11,563	11,563		30,000	(11,600 - 32,000)	
	7500 + 11,900 + 17,500	=	36,900	5,935	9,417	13,848		29,200	(9,800 - 30,600)	6,100	10,262	14,639		31,000	(11,600 - 32,000)	
	7500 + 11,900 + 24,200	=	43,600	5,023	7,970	16,207		29,200	(9,800 - 30,600)	5,251	8,834	17,915		32,000	(11,600 - 32,000)	
	7500 + 17,500 + 17,500	=	42,500	5,153	12,024	12,024		29,200	(9,800 - 30,600)	5,517	13,241	13,241		32,000	(11,600 - 32,000)	
	7500 + 17,500 + 24,200	=	49,200	4,451	10,386	14,363		29,200	(9,800 - 30,600)	4,698	11,275	16,028		32,000	(11,600 - 32,000)	
	9000 + 9,000 + 9,000	=	27,000	8,533	8,533	8,533		25,600	(8,500 - 27,200)	10,000	10,000	10,000		30,000	(11,600 - 32,000)	
	9000 + 9,000 + 11,900	=	29,900	8,187	8,187	10,825		27,200	(9,200 - 28,200)	9,520	9,520	11,159		30,200	(11,600 - 32,000)	
	9000 + 9,000 + 17,500	=	35,500	7,352	7,352	14,296		29,000	(9,800 - 30,600)	8,496	8,496	14,207		31,200	(11,600 - 32,000)	
	9000 + 9,000 + 24,200	=	42,200	6,185	6,185	16,630		29,000	(9,800 - 30,600)	7,311	7,311	17,738		32,000	(11,600 - 32,000)	
	9000 + 11,900 + 11,900	=	32,800	7,848	10,376	10,376		28,600	(9,200 - 29,200)	9,150	10,725	10,725		30,600	(11,600 - 32,000)	
	9000 + 11,900 + 17,500	=	38,400	6,844	9,049	13,307		29,200	(9,800 - 30,600)	8,220	9,635	13,745		31,600	(11,600 - 32,000)	
	9000 + 11,900 + 24,200	=	45,100	5,827	7,705	15,668		29,200	(9,800 - 30,600)	7,034	8,245	16,721		32,000	(11,600 - 32,000)	
	9000 + 17,500 + 17,500	=	44,000	5,973	11,614	11,614		29,200	(9,800 - 30,600)	7,366	12,317	12,317		32,000	(11,600 - 32,000)	
	11900 + 11,900 + 11,900	=	35,700	9,267	9,267	9,267		27,800	(9,800 - 29,000)	10,333	10,333	10,333		31,000	(11,600 - 32,000)	
	11900 + 11,900 + 17,500	=	41,300	8,414	8,414	12,373		29,200	(9,800 - 30,600)	9,280	9,280	13,239		31,800	(11,600 - 32,000)	
11900 + 11,900 + 24,200	=	48,000	7,239	7,239	14,722		29,200	(9,800 - 30,600)	7,944	7,944	16,111		32,000	(11,600 - 32,000)		
11900 + 17,500 + 17,500	=	46,900	7,409	10,896	10,896		29,200	(9,800 - 30,600)	8,305	11,848	11,848		32,000	(11,600 - 32,000)		
4-room Operation	7500 + 7,500 + 7,500 + 7,500	=	30,000	7,050	7,050	7,050	7,050	28,200	(9,800 - 28,200)	7,400	7,400	7,400	7,400	29,600	(11,600 - 32,000)	
	7500 + 7,500 + 7,500 + 9,000	=	31,500	6,905	6,905	6,905	8,286	29,000	(9,800 - 29,000)	6,899	6,899	6,899	9,903	30,600	(11,600 - 32,000)	
	7500 + 7,500 + 7,500 + 11,900	=	34,400	6,453	6,453	6,453	10,240	29,600	(9,800 - 29,600)	6,577	6,577	6,577	11,069	30,800	(11,600 - 32,000)	
	7500 + 7,500 + 7,500 + 17,500	=	40,000	5,738	5,738	5,738	13,388	30,600	(9,800 - 30,600)	5,815	5,815	5,815	13,956	31,400	(11,600 - 32,000)	
	7500 + 7,500 + 7,500 + 24,200	=	46,700	4,914	4,914	4,914	15,857	30,600	(9,800 - 30,600)	4,991	4,991	4,991	17,028	32,000	(11,600 - 32,000)	
	7500 + 7,500 + 9,000 + 9,000	=	33,000	6,636	6,636	7,964	7,964	29,200	(9,800 - 29,200)	6,324	6,324	9,076	9,076	30,800	(11,600 - 32,000)	
	7500 + 7,500 + 9,000 + 11,900	=	35,900	6,267	6,267	7,521	9,944	30,000	(9,800 - 30,000)	6,097	6,097	8,750	10,257	31,200	(11,600 - 32,000)	
	7500 + 7,500 + 9,000 + 17,500	=	41,500	5,530	5,530	6,636	12,904	30,600	(9,800 - 30,600)	5,484	5,484	7,871	13,161	32,000	(11,600 - 32,000)	
	7500 + 7,500 + 9,000 + 24,200	=	48,200	4,761	4,761	5,714	15,363	30,600	(9,800 - 30,600)	4,674	4,674	6,708	15,945	32,000	(11,600 - 32,000)	
	7500 + 7,500 + 11,900 + 11,900	=	38,800	5,915	5,915	9,385	9,385	30,600	(9,800 - 30,600)	5,816	5,816	9,784	9,784	31,200	(11,600 - 32,000)	
	7500 + 7,500 + 11,900 + 17,500	=	44,400	5,169	5,169	8,201	12,061	30,600	(9,800 - 30,600)	5,261	5,261	8,851	12,627	32,000	(11,600 - 32,000)	
	7500 + 7,500 + 17,500 + 17,500	=	50,000	4,590	4,590	10,710	10,710	30,600	(9,800 - 30,600)	4,706	4,706	11,294	11,294	32,000	(11,600 - 32,000)	
	7500 + 9,000 + 9,000 + 9,000	=	34,500	6,217	7,461	7,461	7,461	28,600	(9,800 - 28,600)	5,880	8,440	8,440	8,440	31,200	(11,600 - 32,000)	
	7500 + 9,000 + 9,000 + 11,900	=	37,400	6,136	7,364	7,364	9,736	30,600	(9,800 - 30,600)	5,691	8,168	8,168	9,574	31,600	(11,600 - 32,000)	
	7500 + 9,000 + 9,000 + 17,500	=	43,000	5,337	6,405	6,405	12,453	30,600	(9,800 - 30,600)	5,103	7,325	7,325	12,248	32,000	(11,600 - 32,000)	
	7500 + 9,000 + 11,900 + 11,900	=	40,300	5,695	6,834	9,036	9,036	30,600	(9,800 - 30,600)	5,517	7,919	9,282	9,282	32,000	(11,600 - 32,000)	
	7500 + 9,000 + 11,900 + 17,500	=	45,900	5,000	6,000	7,933	11,667	30,600	(9,800 - 30,600)	4,910	7,047	8,260	11,783	32,000	(11,600 - 32,000)	
	7500 + 11,900 + 11,900 + 11,900	=	43,200	5,313	8,429	8,429	8,429	30,600	(9,800 - 30,600)	5,292	8,903	8,903	8,903	32,000	(11,600 - 32,000)	
	7500 + 11,900 + 11,900 + 17,500	=	48,800	4,703	7,462	7,462	10,973	30,600	(9,800 - 30,600)	4,730	7,958	7,958	11,353	32,000	(11,600 - 32,000)	
	9000 + 9,000 + 9,000 + 9,000	=	36,000	7,650	7,650	7,650	7,650	30,600	(9,800 - 30,600)	8,000	8,000	8,000	8,000	32,000	(11,600 - 32,000)	
	9000 + 9,000 + 9,000 + 11,900	=	38,900	7,080	7,080	7,080	9,361	30,600	(9,800 - 30,600)	7,670	7,670	7,670				

Ceiling-Suspended Air Conditioners & 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)



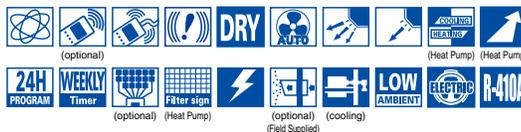
Outdoor Unit
U-36PS1U6 / U-36PE1U6



Outdoor Unit
U-42PS1U6 / U-42PE1U6



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



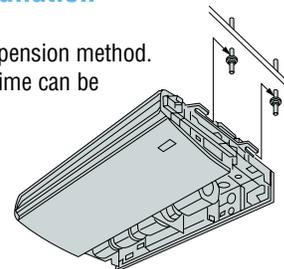
Quiet Operation

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.



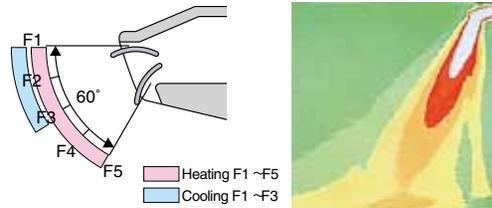
Improved accessibility to electronic components (control box) for serving.



Auto Louver Function Provides Optimum Airflow During Heating or Cooling Operation

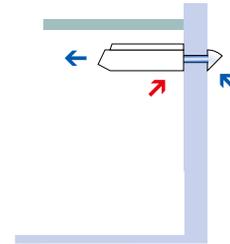
Auto louver function is a standard feature which provide optimum airflow during heating or cooling operation. Angle of louver is automatically set for heating or cooling. For example, when heating with fan speed set to low, the discharge is aimed downward so that warm air reaches the floor. The louver angle can be set to between 4° above and 80° 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 & Duct Extension

Ceiling Suspended models (T1-series) 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	C-36PS1U6	S-42PT1U6	U-42PS1U6	S-26PT1U6	U-26PE1U6	S-36PT1U6	U-36PE1U6	S-42PT1U6	U-42PE1U6
Performance & Electrical Ratings													
Capacity	Cooling	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	---		---		---		30,800 (8,000-30,800)		37,400 (8,000-37,400)		44,500 (8,000-44,500)	
Moisture Removal	High	7.7		10.0		12.6		7.7		10.0		12.6	
Dry Air Flow	Hi / Med / Low	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	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	---		---		---		16.4 / 18.1		15.6 / 17.3		18.6 / 20.6	
Power Input	Cooling	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	---		---		---		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
Features													
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	ln(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	
Dimensions & Weight													
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 & Heat Pumps

KS12NB41A / KS18NB4U / KS18NB4UA

KE12NB41 / KE18NB4U

Indoor Unit
CS-KS12NB41
CS-KS18NB4UW
CS-KE12NB41
CS-KE18NB4UW

Grille Assembly
CZ-18BT1U



Wireless Remote Controller (Included)
 Wired Remote Controller (CZ-RD515U) (optional)



Outdoor Unit
CU-KS12NK1A
CU-KE12NK1



Outdoor Unit
CU-KS18NKU
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

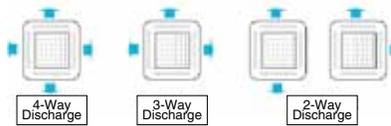
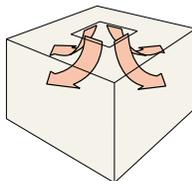


Wired Remote Controller (CZ-RTC2) (Included)
 Wireless Remote Controller (optional)



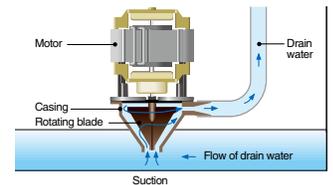
4-Way Airflow Design Sends Cool Air in all Directions

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		KS18NB4U		KS18NB4UA		KE12NB41		KE18NB4U			
Unit Model No.	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit		
	CS-KS12NB41	CU-KS12NK1A	CS-KS18NB4UW	CU-KS18NKU	CS-KS18NB4UW	CU-KS18NKUA	CS-KE12NB41	CU-KE12NK1	CS-KE18NB4UW	CU-KE18NKU		
Grille Assembly	CZ-18BT1U		CZ-18BT1U		CZ-18BT1U		CZ-18BT1U		CZ-18BT1U			
Performance & Electrical Ratings												
Capacity	Cooling	Btu/h	11,900 (3,000 ~ 11,900)		17,500 (4,000 ~ 17,500)		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		4.89		4.26		4.89	
Dry Air Flow	Hi / Med / Low	CFM	235 / 206 / 194		341 / 294 / 253		341 / 294 / 253		235 / 206 / 194		341 / 294 / 253	
SEER	Cooling	Btu/Wh	16		16		16		16		16	
EER	Cooling	Btu/Wh	9.4		9.41		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		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)		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)		1,860 (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		20	
Features												
Controls	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low Ambient Control (for Cooling)	Equipped		n/a		Equipped		Equipped		Equipped		Equipped	
Wireless Remote Controller	Included		Included		Included		Included		Included		Included	
Wired Remote Controller(optional)	CZ-RD515U		CZ-RD515U		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		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		1 hr OFF and 24-hr PROGRAM		1 hr OFF and 24-hr PROGRAM	
Air Deflection	Horizontal		---		---		---		---		---	
	Vertical		Automatic		Automatic		Automatic		Microprocessor		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	34 / 32 / 31		44 / 40 / 36		44 / 40 / 36		34 / 32 / 31		44 / 40 / 36	
	Outdoor(Hi)	dB-A	47		47		47		51		51	
Refrigerant Piping (Cooling)	Type		Flare		Flare		Flare		Flare		Flare	
	Discharge	inches	1/4"		1/4"		1/4"		1/4"		1/4"	
	Suction	inches	3/8"		1/2"		1/2"		3/8"		1/2"	
Refrigerant Pipe Length	Ft.		65		98		98		65		98	
Elevation Difference*	Outdoor Above	Ft.	23		50		50		23		50	
	Outdoor Below	Ft.	23		50		50		23		50	
Dimensions & Weight												
Height	inches		12-5/16"	21-9/16"	12-5/16"	26-3/8"	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"	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"	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	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												
	S-26PU1U6	U-26PS1U6	S-36PU1U6	U-36PS1U6	S-42PU1U6	U-42PS1U6	S-26PE1U6	U-26PE1U6	S-36PE1U6	U-36PE1U6	S-42PE1U6	U-42PE1U6		
Grille Assembly	CZ-24KP1U1		CZ-36KP1U1		CZ-36KP1U1		CZ-24KP1U1		CZ-36KP1U1		CZ-36KP1U1			
Performance & Electrical Ratings														
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
Features														
Controls	Microprocessor													
Low Ambient Control (for Cooling)	Built-in 0°F													
Wireless Remote Controller (optional)	CZ-RWSU2U, CZ-RWSC1U													
Wired Remote Controller(included)	CZ-RTC2													
Fan Speeds	3 and Automatic Control / Variable													
Timer	7 Days/6 Events													
Air Deflection	Horizontal		---		---		---		---		---			
	Vertical		Automatic											
Air Filter	Washable													
Refrigerant	R-410A													
Refrigerant Control	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									
	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									
	Outdoor Below	Ft.	Max. 50		Max. 50									
Dimensions & Weight														
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.)

Ceiling Suspended Air Conditioners & Heat Pumps

Concealed Duct Air Conditioners & 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)

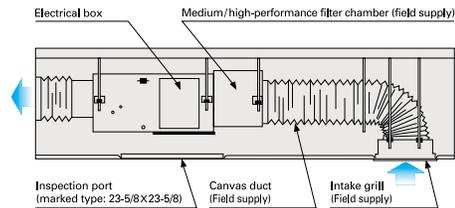


Outdoor Unit U-36PS1U6 U-36PE1U6

Wired Remote Controller (CZ-RTC2) (Included)



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

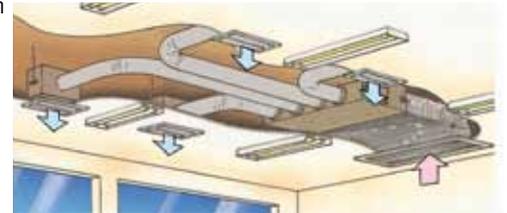


Built-In Drain Pump

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 which need extensive air conditioning, including conference halls, showrooms, and restaurants.



Concealed Duct																				
			Air Conditioners				Heat Pumps													
Model No.			26PSF1U6		36PSF1U6		26PEF1U6		36PEF1U6											
Unit Model No.			Indoor Unit S-26PF1U6	Outdoor Unit U-26PS1U6	Indoor Unit S-26PF1U6	Outdoor Unit U-36PS1U6	Indoor Unit S-26PF1U6	Outdoor Unit U-26PE1U6	Indoor Unit S-36PF1U6	Outdoor Unit U-36PE1U6										
Performance & Electrical Ratings																				
Capacity	Cooling	Btu/h	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	Btu/h	---				---				28,600 (8,000 ~ 28,600)		36,200 (8,000 ~ 36,200)							
Moisture Removal	High	Pints/H	7.7				10.0				7.7		10.0							
Dry Air Flow	Hi / Med / Low	CFM	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	A	13.6 / 15.0				18.6 / 20.6				13.6 / 15.0		18.6 / 20.6							
	Heating	A	---				---				12.5 / 13.8		15.9 / 17.6							
Power Input	Cooling	W	2,600 / 2,600				3,920 / 3,920				2,600 / 2,600		3,920 / 3,920							
	Heating	W	---				---				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		35							
Features																				
Controls			Microprocessor				Microprocessor				Microprocessor									
Low Ambient Control			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									
Wired Remote Controller (included)			CZ-RTC2				CZ-RTC2				CZ-RTC2									
Fan Speeds			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									
Air Deflection			Horizontal		---				---											
			Vertical		---				---											
Air Filter			---				---				---									
Refrigerant control			Electric Expansion Valve				Electric Expansion Valve				Electric Expansion Valve									
Operation Sound			In (Hi / Me / Lo)		dB-A		34 / 30 / 27		38 / 33 / 31		34 / 30 / 27		38 / 33 / 31							
			Outdoor(Hi)		dB-A		49		52		49		52							
Refrigerant Piping			Type		Flare				Flare											
			Discharge		inches		3/8"		3/8"		3/8"		3/8"							
			Suction		inches		5/8"		5/8"		5/8"		5/8"							
Refrigerant Pipe Length			Ft.		Max. 165				Max. 165											
Elevation Difference**			Outdoor Above		Ft.		Max. 100		Max. 100		Max. 100		Max. 100							
			Outdoor Below		Ft.		Max. 50		Max. 50		Max. 50		Max. 50							
Dimensions & Weight																				
Height			inches		12-7/32"		30-23/32"		12-7/32"		30-23/32"		12-7/32"		30-23/32"					
Width			inches		39-3/8"		37"		58-9/32"		37"		58-9/32"		37"					
Depth			inches		24-13/16"		13-3/8"		24-13/16"		13-3/8"		24-13/16"		13-3/8"					
Net Weight			Lbs.		71.0		128.0		104.0		143.0		71.0		128.0		104.0		143.0	

** 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

SI3100-1
SI3100-2
SI1730-2



Tube size Reducer

CZ-MA1P



Locking Bracket for Remote Control

RCS5PSB
RCS4MHUB



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
DL04060815	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
DL04060820	Insulated Tubing Kit 1/4" x 3/8" x 1/2" x 20'	
DL04060835	Insulated Tubing Kit 1/4" x 3/8" x 1/2" x 35'	
DL04080815	Insulated Tubing Kit 1/4" x 1/2" x 1/2" x 15'	
DL04080820	Insulated Tubing Kit 1/4" x 1/2" x 1/2" x 20'	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
DL04080835	Insulated Tubing Kit 1/4" x 1/2" x 1/2" x 35'	
DL04100820	Insulated Tubing Kit 1/4" x 5/8" x 1/2" x 20'	
DL04100830	Insulated Tubing Kit 1/4" x 5/8" x 1/2" x 30'	KS24NKUA, KE24NKU, CU-4KS24NBU, CU-4KS31NBU, CU-4KE24NBU, CU-4KE31NBU, CS-MKS24NKU, CS-MKE24NKU
DL04100850	Insulated Tubing Kit 1/4" x 5/8" x 1/2" x 50'	
DL06100830	Insulated Tubing Kit 3/8" x 5/8" x 1/2" x 30'	All 26,000 Through 42,000 BTU/h Models
DL06100850	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	CZ-RWSK1U, CZ-RWSU2U, CZ-RWSC1U
RCS4MHVB	Locking Bracket for Remote Controller	All KS&KE models
BS600	Mounting Bracket for Outdoor Unit	CU-S9NKUA, CU-S9NKU-1, CU-E9NKUA, CU-S12NKUA, CU-S12NKU-1, CU-E12NKUA, CU-KS12NK1A, CU-KE12NK1, CU-S18NKUA, CU-S18NKU-1, CU-E18NKUA, CU-KS18NKU, CU-KS18NKUA, CU-KE18NKU, CU-S24NKUA, CU-S24NKU-1, CU-E24NKUA, CU-KS24NKUA, CU-KE24NKU, CU-KS30NKUA, CU-KE30NKU, CU-KS36NKUA, CU-KE36NKU, CU-2S18NBU, CU-2E18NBU-1, CU-3KS19NBU, CU-3KE19NBU, CU-4KS24NBU, CU-4KE24NBU, CU-4KS31NBU, CU-4KE31NBU
SI3100-1	Condensate Pump	All 115volt Models
SI3100-2	Condensate Pump	All 230 volt Models (up to 2ton)
SI1730-2	Condensate Pump	All 230 volt Models (High Vol. Condensate Removal) (2ton and higher)
CZ-RE2C2	Simple Wired Remote	
CZ-RELC2	Simple Wired Remote with Backlight	All 26,000 Through 42,000 BTU/h Models
CZ-RD515U	Wired Remote Controller	All KS&KE models
CZ-RD516C	Wired Remote Controller	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
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
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 KS&KE models

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

Cooling Models 24,000 Btu and Less

	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	67°F DB

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	14°F DB

Low Ambient Models 24,000 Btu and Less

	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 (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 24,000 Btu and Less

	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	0°F DB

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 above 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
		30	CH3082	CU-KE30NKU
		36	CH3682	CU-KE36NKU
	C/O	26	C2672R	U-26PS1U6
		36	C3672R	U-36PS1U6
		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-24KPU1U6
		Panel	PNR-XH3642	CZ-36KPU1U6
Wall Mount	H/P	26	KHS2672R	S-26PK1U6
		36	KS3082	CS-KS30NKU
		42	KS3682	CS-KS36NKU
Wall Mount	H/P	30	KHS3082	CS-KE30NKU
		36	KHS3682	CS-KE36NKU
		26	THW2672R	S-26PT1U6
Ceiling Suspended	H/P	36	THW3672R	S-36PT1U6
		42	THW4272R	S-42PT1U6
		26	UHW2672R	S-26PF1U6
Duct	H/P	36	UHW3672R	S-36PF1U6

RAC (37models)

Category	Capacity Kbtu/h	Model No.	Model No.
Wall Mount	18	KS1872	CS-KS18NKU
	24	KS2472	CS-KS24NKU
	12	XS1271	CS-KS12NB41
	18	XS1872	CS-KS18NB4UW
Mini Cassette	Panel	PNR-XS1872	CZ-18BT1U
	12	CL1271	CU-KS12NK1A
Outdoor Unit	18	C1872	CU-KS18NKU
	18	CL1872	CU-KS18NKUA
	24	C2472	CU-KS24NKU
	24	CL2472	CU-KS24NKUA
	18	KHS1872	CS-KE18NKU
Wall Mount	24	KHS2472	CS-KE24NKU
	12	XHS1271	CS-KE12NB41
Mini Cassette	18	XHS1872	CS-KE18NB4UW
	Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit	12	CH1271	CU-KE12NK1
	18	CH1872	CU-KE18NKU
	24	CH2472	CU-KE24NKU
	7	KMS0772	CS-MKS7NKU
Wall Mount	9	KMS0972	CS-MKS9NKU
	12	KMS1272	CS-MKS12NKU
	18	KMS1872	CS-MKS18NKU
	24	KMS2472	CS-MKS24NKU
Mini Cassette	9	XMS0972	CS-MKS9NB4U
	12	XMS1272	CS-MKS12NB4U
Outdoor Unit	Panel	PNR-XS1872	CZ-18BT1U
	19	CM1972A	CU-3KS19NBU
Wall Mount	24	CM2472A	CU-4KS24NBU
	31	CM3172A	CU-4KS31NBU
Wall Mount	7	KMHS0772	CS-MKE7NKU
	9	KMHS0972	CS-MKE9NKU
	12	KMHS1272	CS-MKE12NKU
	18	KMHS1872	CS-MKE18NKU
	24	KMHS2472	CS-MKE24NKU
	9	XMHS0972	CS-MKE9NB4U
Mini Cassette	12	XMHS1272	CS-MKE12NB4U
	Panel	PNR-XS1872	CZ-18BT1U
Outdoor Unit	19	CMH1972A	CU-3KE19NBU
	24	CMH2472A	CU-4KE24NBU
	31	CMH3172A	CU-4KE31NBU

Controllers

Category	Model No.	Model No.	
Wireless RC	Common	RCS-BH80AAB.WL	CZ-RWSC1U
	4-Way	RCS-SH80AAB.WL	CZ-RWSU1U
	Wall Mount	RCS-SH1AAB	CZ-RWSK1U
System Controller	SHA-KC6AUG	CZ-64EMSC1U	
Simple Remote	RCS-KR1EG	CZ-RE2C2	
Simple Wired RC	NEW	CZ-RELC2	
Wireless RC	U1/T1 Series	RCS-SH80UA.WL	CZ-RWSU2U
Wired Kit	STK-KCW1	CZ-RC515U	
	STK-KCW2	CZ-RC515UA	
Wired RC	STK-RCS-7TWSUA	CZ-RD515U	

Accessories

Category	Model No.	Model No.	
Fresh Air intake	4-Way	CMB-GSJ80U	CZ-26BCU1U
	4-Way	CMB-GSJ140U	CZ-42BCU1U
Outdoor Bracket	STK-KSB2050	CZ-12UD1U	
	STK-KSB5050	CZ-30UD1U	

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 & Elevation Differences, Refrigerant Charge Adjustment & 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'									
E9NKUA				49'	23'				23'					
KS12NB41A					16'				16'	R-410A 0.16				
KE12NB41									66'		49'	49'		
S12NKU-1		49'	16'	16'										
S12NKUA			66'	49'	49'									
E12NKUA				1/2"	100'	50'	50'				R-410A 0.2			
S18NKU-1		100'	50'						50'					
S18NKUA					66'	49'	49'			16'				
E18NKUA												25'	R-410A 0.27	
KS18NKU														50'	50'
KS18NKUA											25'					R-410A 0.27
KE18NKU					50'	50'								
KS18NB4U							16'			R-410A 0.2				
KS18NB4UA					33'	R-410A 0.27								
KE18NB4U							100'			49'	49'	R-410A 0.2		
S22NKU-1					98'	50'							50'	R-410A 0.27
S24NKUA							66'			49'	49'	16'		
KS24NKU					131'	50'							50'	33'
KS24NKUA	100'						49'	49'		R-410A 0.2				
E24NKUA					98'	50'					50'	R-410A 0.27		
KE24NKU	3/8"						5/8"	165'		100'			50'	100'	R-410A 0.43
26PSK1U6														
26PST1U6														
26PSU1U6														
26PSF1U6														
26PEK1U6														
26PET1U6														
26PEU1U6														
26PEF1U6														
KS30NKUA		R-410A 0.27												
KE30NKU														
KS36NKUA														
KE36NKU		R-410A 0.43												
36PST1U6														
36PSU1U6														
36PSF1U6														
36PET1U6														
36PEU1U6														
36PEF1U6														
42PST1U6														
42PSU1U6														
42PET1U6														
42PEU1U6														
CU-2S18NBU-1	1/4"	3/8"	82'	49'	49'	25'	R-410A 0.2							
CU-2E18NBU				50'	50'									
CU-3KS19NBU		150'	R-410A 0.22											
CU-3KE19NBU														
CU-4KS24NBU														
CU-4KE24NBU														
CU-4KS31NBU		100'												
CU-4KE31NBU														

Model code

RAC

Indoor Unit

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

Outdoor Unit

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

Set

3 S 4 18 5 N 6 K 7 U 8 -1 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	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 1 - 26 2 P 3 U 4 1 5 U6 6

Outdoor Unit

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

Set

26 2 P 3 S 4 1 5 U6 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		



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Environmental Management System Certificate



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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.