The History of Panasonic Air Conditioning

The Panasonic Air Conditioning Group has grown into a global company through its continuous quest for product innovations and technology. The Group has evolved from manufacturing compressors to providing comprehensive air conditioning solutions. This has earned Panasonic, the reputation as the most trusted brand for superior energy-efficiency and reliable products.

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

1961
- Started exports of Home Coolers

1965
- Launched Room Coolers

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

1972
- Established overseas business base in Malaysia
  MUKC was established in Malaysia as the Asia Region’s first overseas base. Originated the unit: “Chi-size”

1980s
- Developed industry’s smallest outdoor air conditioning unit “Chi-size”

1983
- Launched inverter Air Conditioner
  Launched Aircon Group’s first overseas base.

1985
- Began development of Scroll Compressors
  Developed a new approach to compressor design.

1989
- Introduced Simultaneous Heat & Cool VRF

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)

1995
- Started the export of VRF

1998
- Introduced GAS Heater Air Conditioner 14KGS11

2001
- Introduced first VRF “ECO-Multi” to USA

2003
- Launched first R410a refrigerant Ductless A/C to USA
  Launched EcoCute as a result 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 air-tornado robots and motion sensors which significantly improved Panasonic’s air conditioner market share.

2006
- Renewed Eco-Multi to ECO-I. revised the line-up to inverter driven
  Aggregated global production of Panasonic compressors reached 200 million units

2008
- In 2008 Energy Conservation Grand Prize, Eco-Cute 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 Sansyo HVAC USA into Panasonic Corporation of North America

2013
- Celebrating the 30th anniversary of marketing in the USA
  Serving the US Ductless market since 1983

2014
- SYSTEM S and Wireless Communication

2018
- Introduced revolutionary Gas Heater Air Conditioner 14KGS111
  That maintains a consistent heating performance level, regardless of how much the ambient temperature goes down outside.

2020
- Launched VRF “Eco-Multi” to the US market.
  Eco-Multi was displayed at the AHR show, and was introduced to other ductless manufacturers. It is the new individual air-conditioning system that effectively combines a power control compressor and an electronic refrigerant control valve.

2023
- First R410a driven ductless model, 2AKS62R, was introduced.
  Again, blazed a trail to other ductless manufacturers.

2023
- Introduce EXTERIOS series to US market
  SEER 28.5 Highest Efficient model in Industry as of 2013/March

Consistent with high energy-efficiency and reliability, Panasonic has continuously improved technology from manufacturing compressors to providing comprehensive air conditioning solutions.

Technological Milestones

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The Panasonic Air Conditioning Group has grown into a global company through its continuous quest for product innovations and technology. The Group has evolved from manufacturing compressors to providing comprehensive air conditioning solutions. This has earned Panasonic, the reputation as the most trusted brand for superior energy-efficiency and reliable products.
Air Conditioners and Heat Pumps Line-Up

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

Since 1983, Panasonic’s Mini Split Air Conditioner and Heat Pump products offer a wide range of versatile solutions for cooling and heating requirements for single or multiple rooms. The indoor unit (evaporator) is mounted inside a room and it is connected to the outdoor unit (condenser) via refrigerant lines and inter-unit wiring through a 3-1/2” opening in the wall. Since no ductwork is required, installation is simple, fast and efficient. Ducted models are also available. The indoor unit has been uniquely designed to provide whisper quiet operation while delivering comfort throughout the room(s). Panasonic Mini Split Systems are stylish and offer whisper-quiet operations, quality and reliability you can count on.

**HEAT PUMP MODELS**

<table>
<thead>
<tr>
<th>Btu/h</th>
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**COOLING ONLY MODELS / STANDARD TYPE**

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**COOLING ONLY MODELS / LOW AMBIENT TYPE**

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**MULTI ZONE MODELS**

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**S series SC series**

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**42 Series**

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*Please refer to the model identification on the back of this catalog.*
### Features

#### ECONAVI

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

#### Room Freeze Protection

Room Freeze Protection mode helps prevent plumbing damage due to sub-freezing temperatures. This mode automatically turns on the compressor for heat pump operation if the room temperature falls to about 4°F.

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

#### Microprocessor-Controlled Operation

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

#### Wireless Remote Control

Panasonic's Indoor Remote Control with and 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 Mode

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

#### 5 Fan Speeds and Automatic Fan Operation

Conventional microprocessor control automatically adjusts fan speed in 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 air up and down the air outlet, directing air in a "sweeping" motion around the room and providing comfort to every corner.

#### Remote Control

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

#### Automatic Heating and Cooling Changeover

After setting the temperatures 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 thermal cycle operations, heating and cooling operation automatically change in accordance with set temperature, time and room temperature (Single zone Heat Pump unit only).

#### Built-In Drain Pump

No wind will form from the discharge of the condenser. Condenser pump is only for allowing drain line to meet Max. head 20 inches from the discharge of the indoor unit.

#### Electric Refrigerant Control Valve

The conduction valve of the refrigerant is controlled by a precise 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 45% steps.

### Models

#### Quiet Mode

LOW, low fan speed for extra quiet operation.

#### Filter Sign

Filter signs inform you when filter maintenance is necessary. (Example of CZ-RTC2)

#### Self-Diagnosing Function

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

#### Anti-microbial Filter

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

#### Test Comparison

(Example of CZ-RTC2)

<table>
<thead>
<tr>
<th>Microbial Growth Rating</th>
<th>Anti-microbial Filter</th>
<th>Normal Filter Paper</th>
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<tbody>
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<td>No growth</td>
<td>Anti-microbial Filter No growth</td>
<td>Normal Filter Paper 60% growth</td>
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</table>

*Tested per ASTM G21-96

#### Condensers

Condersors can take a beating from exposure to salty air, rain and other corrosive factors. Panasonic has extended the life of its condensers with an original anti-rust coating. Tested for 2,000 salt spray hours.

#### Built-In Drain Pump

No wind will form from the discharge of the condenser. Condenser pump is only for allowing drain line to meet minimum gravity flow requirements.
Panasonic sets another milestone in the Mini-Split History...

EXTERIOS - the latest breakthrough in energy efficiency and high performance with Inverter technology, SEER 28.5 and HSPF 12.5

High Energy Efficiency
Breakthrough technologies, such as the inverter, enable the highest energy efficiency* in the industry. Thanks to this exceptional performance, you will enjoy even more comfort.
*CS/CU-XE9PKUA as of March 2013

Powerful Heating at Low Ambient Temperatures
Offers reliable heating with full capacity down to 5°F.

Inverter Technology
Panasonic’s inverter technology provides optimum power control and extremely efficient operation by modulating the compressor capacity. The result is efficient and flexible operation using less electricity.

Panasonic ductless mini split systems are designed to care for you
With over 50 years of experience of exporting to more than 125 countries around the world, Panasonic is unquestionably one of the leaders in the air conditioning business. Panasonic has produced more than 200 million compressors and has manufactured high quality air conditioners.
Panasonic’s inverter technology constantly adjusts its compressor rotation speed to provide maximum performance at all times. This extremely precise operation enables quick cooling or heating while reducing power consumption compared to conventional non-inverter units.

**ECONAVI with Intelligent Eco Sensors**

In 2007, Panasonic launched ECONAVI (Human Detection Technology) to its air conditioners. The ECONAVI sensors moderate the temperature in a room and sense when there is activity, which then automatically adjusts the temperature setting accordingly for maximum energy efficient operation. The absence detection feature switches to a slightly less powerful cooling mode when the room is empty.

- **Absence Detection**
  - ECONAVI detects human activity by human presence and surrounding temperature.
  - ECONAVI adjusts the set temperature according to the absence setting.
  - Activity Detection
  - ECONAVI adjusts the set temperature according to the absence setting.

**Wider Output Power Range**

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

**How Does ECONAVI Human Activity Work?**

- **Presence**
  - ECONAVI detects human activity and adjusts the set temperature accordingly.
- **Absence**
  - ECONAVI adjusts the set temperature for energy efficiency.

**The Advantages of Inverter Control**

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

- **Cooler**
  - The accelerator can’t be adjusted, so you spend a long time getting comfortable, then soon become uncomfortable.
- **Uncomfortable**
  - Reaches the comfortable zone quickly.
- **Uncomfortable**
  - Runs at a fixed speed and takes longer to reach the comfort zone.

**Constant Comfort**

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

**Quick Cooling and Heating**

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

**Whisper Quiet Operation**

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

**Panasonic’s Inverter Technology**

Panasonic’s inverter technology constantly adjusts its compressor rotation speed to provide maximum performance at all times. This extremely precise operation enables quick cooling or heating while reducing power consumption compared to conventional non-inverter units.

**Provides Optimum Performance While Reducing Energy Usage**

Panasonic’s inverter technology constantly adjusts its compressor rotation speed to provide maximum performance at all times. This extremely precise operation enables quick cooling or heating while reducing power consumption compared to conventional non-inverter units.

**Reduces Electricity Consumption**

Panasonic inverter air conditioners/heat pumps are designed to give you exceptional energy savings performance while ensuring you stay comfortable at all times.

**Constant Comfort**

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### Wall-Mounted Heat Pumps

#### EXTERIOS

**XE9PKUA / XE12PKUA**

**Outdoor Unit**

- CS-XE9PKUA / CS-XE12PKUA

**Wireless Remote Controller**

**Outdoor Unit**

- CU-XE9PKUA / CU-XE12PKUA

### Features

- **Dimensions & Weight**
  - **Indoor Unit**
    - Model No.: XE9PKUA / XE12PKUA
    - **Dimensions**:
      - Height: 11-5/8”
      - Width: 34-9/32”
    - **Weight**: 24 Lbs.
  - **Outdoor Unit**
    - Model No.: XE9PKUA / XE12PKUA
    - **Dimensions**:
      - Height: 27-3/8”
      - Width: 34-15/32”
    - **Weight**: 97 Lbs.

### Performance & Electrical Ratings

- **Refrigerant Piping Type**
  - Flare
- **Operation Sound**
  - In (Hi / Lo / Q-Lo) dB-A: 42 / 25 / 20
- **Refrigerant**
  - R-410A
- **Air Filter**
  - Washable + Anti-Microbial Filter
- **Back-up Heater**
  - kW
- **Air Deflection**
  - Horizontal Manual
  - Vertical Automatic
- **Power Input**
  - Cooling: W
  - Heating: W
- **Wireless Remote Controller** Included
- **Low Ambient Control** Equipped
- **Controls**
  - Microprocessor
- **Fan Speeds**
  - 5 Speeds + Auto
- **Power Supply**
  - V, Phase, Hz: 230/208V, 1PH, 60Hz
- **EER Cooling**
  - 16.1
- **HSPF Heating**
  - 12.5
- **Dry Air Flow**
  - High: CFM
- **Moisture Removal**
  - High: Pints/H
- **Capacity**
  - Cooling: Btu/h
  - Heating: Btu/h
  - **(XE9PKUA / XE12PKUA)**
    - **Cooling**: 11,500 (2,800~14,000)
    - **Heating**: 12,000 (3,000~18,000)
    - **(XE12PKUA)**
      - **Cooling**: 13,800 (3,000~23,000)
      - **Heating**: 13,500 (3,000~23,000)
- **Net Weight**
  - Indoor Unit: 24 Lbs.
  - Outdoor Unit: 97 Lbs.

### Wall-Mounted Heat Pumps

#### E9NKUA / E12NKUA

**Features**

- **Dimensions & Weight**
  - **Indoor Unit**
    - Model No.: E9NKUA / E12NKUA
    - **Dimensions**:
      - Height: 11-7/16”
      - Width: 34-9/32”
    - **Weight**: 20 Lbs.
  - **Outdoor Unit**
    - Model No.: E9NKUA / E12NKUA
    - **Dimensions**:
      - Height: 21-9/32”
      - Width: 30-23/32”
    - **Weight**: 82 Lbs.
- **Operation Sound**
  - In (Hi / Lo / Q-Lo) dB-A: 40 / 25 / 20
- **Refrigerant**
  - R-410A
- **Air Filter**
  - Washable + Anti-Microbial Filter
- **Back-up Heater**
  - kW
- **Air Deflection**
  - Horizontal Manual
  - Vertical Automatic
- **Power Input**
  - Cooling: W
  - Heating: W
- **Wireless Remote Controller** Included
- **Low Ambient Control** Equipped
- **Controls**
  - Microprocessor
- **Fan Speeds**
  - 5 Speeds + Auto
- **Power Supply**
  - V, Phase, Hz: 230/208V, 1PH, 60Hz
- **EER Cooling**
  - 13.1
- **HSPF Heating**
  - 12.0
- **Dry Air Flow**
  - High: CFM
- **Moisture Removal**
  - High: Pints/H
- **Capacity**
  - Cooling: Btu/h
  - Heating: Btu/h
  - **(E9NKUA)**
    - **Cooling**: 8,500 (4,100~10,200)
    - **Heating**: 11,200 (4,100~14,100)
  - **(E12NKUA)**
    - **Cooling**: 12,000 (4,100~13,300)
    - **Heating**: 13,800 (4,100~16,300)
  - **(E18NKUA)**
    - **Cooling**: 17,100 (5,800~19,800)
    - **Heating**: 20,400 (5,800~20,800)
  - **(E24NKUA)**
    - **Cooling**: 24,000 (5,800~27,200)
    - **Heating**: 28,800 (5,800~29,200)
- **Net Weight**
  - Indoor Unit: 20 Lbs.
  - Outdoor Unit: 82 Lbs.

### Wall-Mounted Heat Pumps

#### E18NKUA / E24NKUA

**Features**

- **Dimensions & Weight**
  - **Indoor Unit**
    - Model No.: E18NKUA / E24NKUA
    - **Dimensions**:
      - Height: 11-7/16”
      - Width: 42-5/32”
    - **Weight**: 26 Lbs.
  - **Outdoor Unit**
    - Model No.: E18NKUA / E24NKUA
    - **Dimensions**:
      - Height: 31-5/16”
      - Width: 34-15/32”
    - **Weight**: 132 Lbs.
- **Operation Sound**
  - In (Hi / Lo / Q-Lo) dB-A: 47 / 48 / 49
- **Refrigerant**
  - R-410A
- **Air Filter**
  - Washable + Anti-Microbial Filter
- **Back-up Heater**
  - kW
- **Air Deflection**
  - Horizontal Manual
  - Vertical Automatic
- **Power Input**
  - Cooling: W
  - Heating: W
- **Wireless Remote Controller** Included
- **Low Ambient Control** Equipped
- **Controls**
  - Microprocessor
- **Fan Speeds**
  - 5 Speeds + Auto
- **Power Supply**
  - V, Phase, Hz: 230/208V, 1PH, 60Hz
- **EER Cooling**
  - 13.2
- **HSPF Heating**
  - 10.2
- **Dry Air Flow**
  - High: CFM
- **Moisture Removal**
  - High: Pints/H
- **Capacity**
  - Cooling: Btu/h
  - Heating: Btu/h
  - **(E18NKUA)**
    - **Cooling**: 17,100 (5,800~19,800)
    - **Heating**: 20,400 (5,800~20,800)
  - **(E24NKUA)**
    - **Cooling**: 24,000 (5,800~27,200)
    - **Heating**: 28,800 (5,800~29,200)
- **Net Weight**
  - Indoor Unit: 26 Lbs.
  - Outdoor Unit: 132 Lbs.
### Wall-Mounted Heat Pumps

**Indoor Unit**
- S-26PK1U6

**Outdoor Unit**
- U-26PE1U6

### Wall-Mounted Air Conditioners

**Model No.**
- S9NKU-1 / S12NKU-1
- S18NKU-1 / S22NKU-1

**Wall-Mounted Unit**
- Indoor 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

**Wall-Mounted Air Conditioner**
- Outdoor Unit
  - CS-S9NKUW-1
  - CS-S12NKUW-1
  - CS-S18NKU-1
  - CS-S22NKU-1

**Dimensions & Weight**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Net Weight (Lbs)</th>
<th>Dimensions (inches)</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S9NKU-1</td>
<td>82.0</td>
<td>Height: 21-9/32&quot;</td>
<td></td>
</tr>
<tr>
<td>S12NKU-1</td>
<td>115.0</td>
<td>Height: 21-9/32&quot;</td>
<td></td>
</tr>
<tr>
<td>S18NKU-1</td>
<td>117.0</td>
<td>Height: 31-5/16&quot;</td>
<td></td>
</tr>
<tr>
<td>S22NKU-1</td>
<td>117.0</td>
<td>Height: 31-5/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**Performance & Electrical Ratings**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Power Input (W)</th>
<th>Running Amps (A)</th>
<th>Power Supply (V, Phase, Hz)</th>
<th>HSPF Heating</th>
<th>EER Cooling</th>
<th>SEER Cooling</th>
<th>Dry Air Flow (CFM)</th>
<th>Air Filter</th>
<th>Air Deflection (Horizontal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S9NKU-1</td>
<td>700(250-900)</td>
<td>3.3/3.7 (~4.1)</td>
<td>230/208V, 1PH, 60Hz</td>
<td>---</td>
<td>12.1</td>
<td>17.5</td>
<td>400</td>
<td>Washable  + Anti Microbial Filter</td>
<td>Manual</td>
</tr>
<tr>
<td>S12NKU-1</td>
<td>1,000(250-1,150)</td>
<td>4.6/5.1 (~5.4)</td>
<td>230/208V, 1PH, 60Hz</td>
<td>---</td>
<td>11.9</td>
<td>17.5</td>
<td>425</td>
<td>Washable  + Anti Microbial Filter</td>
<td>Manual</td>
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<tr>
<td>S18NKU-1</td>
<td>1,650(250-1,950)</td>
<td>7.5 (~9)</td>
<td>230/208V, 1PH, 60Hz</td>
<td>---</td>
<td>10.4</td>
<td>17.5</td>
<td>650</td>
<td>Washable  + Anti Microbial Filter</td>
<td>Automatic</td>
</tr>
<tr>
<td>S22NKU-1</td>
<td>2,250(250-2,550)</td>
<td>10 (~10.8)</td>
<td>230/208V, 1PH, 60Hz</td>
<td>---</td>
<td>9.3</td>
<td>17.0</td>
<td>650</td>
<td>Washable  + Anti Microbial Filter</td>
<td>Automatic</td>
</tr>
</tbody>
</table>

**Notes:**
- *This is maximum elevation difference when the indoor unit is located above the outdoor unit. Refer to the table on page 34 in the catalog for more details.*
### Wall-Mounted Air Conditioners

#### Low Ambient Models

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>CS-S9NKUA / CS-S12NKUA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor Unit</td>
<td>CU-S9NKUA / CU-S12NKUA</td>
</tr>
</tbody>
</table>

- **Features**
  - Weekly Quiet Auto Dry Air Sweep
  - 24hr timer
  - Louver
  - Hot Start

### Dimensions & Weight

<table>
<thead>
<tr>
<th>Model No.</th>
<th>S9NKUA</th>
<th>S12NKUA</th>
<th>S24NKUA</th>
<th>S30NKUA</th>
<th>S36NKUA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width</strong></td>
<td>inches</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>inches</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>inches</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>Lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Performance & Electrical Ratings

<table>
<thead>
<tr>
<th>Model No.</th>
<th>S9NKUA</th>
<th>S12NKUA</th>
<th>S24NKUA</th>
<th>S30NKUA</th>
<th>S36NKUA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEER Cooling</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dry Air Flow</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Moisture Removal</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indoor Unit</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capacity Cooling</strong></td>
<td>Btu/h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant Piping Type</strong></td>
<td>Flare</td>
<td>Flare</td>
<td>Flare</td>
<td>Flare</td>
<td></td>
</tr>
<tr>
<td><strong>Operation Sound</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant control</strong></td>
<td>Electric Expansion Valve</td>
<td>Electric Expansion Valve</td>
<td>Electric Expansion Valve</td>
<td>Electric Expansion Valve</td>
<td></td>
</tr>
<tr>
<td><strong>Back-up Heater</strong></td>
<td>kW</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Power Input Cooling</strong></td>
<td>W</td>
<td>650(250~850)</td>
<td>1,000(250~1,150)</td>
<td>1,300(430-1,600)</td>
<td>2,350(430-2,720)</td>
</tr>
<tr>
<td><strong>Running Amps Cooling</strong></td>
<td>A</td>
<td>3.1/3.5 (~4.4)</td>
<td>4.7/5.2 (~6.8)</td>
<td>6.30/7.20</td>
<td>10.75/11.90</td>
</tr>
<tr>
<td><strong>Fan Speeds</strong></td>
<td>5 Speeds + Auto</td>
<td>5 Speeds + Auto</td>
<td>5 Speeds + Auto</td>
<td>5 Speeds + Auto</td>
<td></td>
</tr>
<tr>
<td><strong>Wired Remote Controller</strong></td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>(S18 Only)</td>
</tr>
<tr>
<td><strong>Wireless Remote Controller</strong></td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
<td>(optional)</td>
</tr>
<tr>
<td><strong>Electrical rating</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fuse or Circuit Breaker Capacity</strong></td>
<td>A</td>
<td>15</td>
<td>15</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td><strong>Refrigerant Pipe Length</strong></td>
<td>Ft. Max.</td>
<td>66</td>
<td>66</td>
<td>100</td>
<td>131</td>
</tr>
</tbody>
</table>

---

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

### Wall-Mounted Air Conditioners

#### Low Ambient Models

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>S9NKUA / S12NKUA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor Unit</td>
<td>CU-S9NKUA / CU-S12NKUA</td>
</tr>
</tbody>
</table>

- **Features**
  - Weekly Quiet Auto Dry Air Sweep
  - 24hr timer
  - Louver
  - Hot Start

### Dimensions & Weight

<table>
<thead>
<tr>
<th>Model No.</th>
<th>S9NKUA</th>
<th>S12NKUA</th>
<th>S24NKUA</th>
<th>S30NKUA</th>
<th>S36NKUA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width</strong></td>
<td>inches</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>inches</td>
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<td><strong>Height</strong></td>
<td>inches</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>Lbs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Performance & Electrical Ratings

<table>
<thead>
<tr>
<th>Model No.</th>
<th>S9NKUA</th>
<th>S12NKUA</th>
<th>S24NKUA</th>
<th>S30NKUA</th>
<th>S36NKUA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEER Cooling</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Dry Air Flow</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Moisture Removal</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indoor Unit</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capacity Cooling</strong></td>
<td>Btu/h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant Piping Type</strong></td>
<td>Flare</td>
<td>Flare</td>
<td>Flare</td>
<td>Flare</td>
<td></td>
</tr>
<tr>
<td><strong>Operation Sound</strong></td>
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</tr>
<tr>
<td><strong>Refrigerant control</strong></td>
<td>Electric Expansion Valve</td>
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<td>Electric Expansion Valve</td>
<td></td>
</tr>
<tr>
<td><strong>Back-up Heater</strong></td>
<td>kW</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Power Input Cooling</strong></td>
<td>W</td>
<td>650(250~850)</td>
<td>1,000(250~1,150)</td>
<td>1,300(430-1,600)</td>
<td>2,350(430-2,720)</td>
</tr>
<tr>
<td><strong>Running Amps Cooling</strong></td>
<td>A</td>
<td>3.1/3.5 (~4.4)</td>
<td>4.7/5.2 (~6.8)</td>
<td>6.30/7.20</td>
<td>10.75/11.90</td>
</tr>
<tr>
<td><strong>Fan Speeds</strong></td>
<td>5 Speeds + Auto</td>
<td>5 Speeds + Auto</td>
<td>5 Speeds + Auto</td>
<td>5 Speeds + Auto</td>
<td></td>
</tr>
<tr>
<td><strong>Wired Remote Controller</strong></td>
<td>Optional</td>
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<td>Optional</td>
<td>Optional</td>
<td>(S18 Only)</td>
</tr>
<tr>
<td><strong>Wireless Remote Controller</strong></td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
<td>(optional)</td>
</tr>
<tr>
<td><strong>Electrical rating</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fuse or Circuit Breaker Capacity</strong></td>
<td>A</td>
<td>15</td>
<td>15</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td><strong>Refrigerant Pipe Length</strong></td>
<td>Ft. Max.</td>
<td>66</td>
<td>66</td>
<td>100</td>
<td>131</td>
</tr>
</tbody>
</table>

---

*This is maximum elevation difference when the indoor unit is located above the outdoor unit. Refer to the table on P. 34 in the catalog for more detail.*
**RAC Multi-System Indoor Units**

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.

### RAC Multi-System Indoor Units

#### CS-S9NKUW / CS-S12NKUW

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CS-S9NKUW</th>
<th>CS-S12NKUW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Input</td>
<td>500 (340-810)</td>
<td>740(300-1,230)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>9.0</td>
<td>9.0</td>
</tr>
<tr>
<td>Unit Dimensions (H x W x D)</td>
<td>11-7/16&quot; x 34-9/32&quot; x 8-1/16&quot;</td>
<td>11-7/16&quot; x 34-9/32&quot; x 8-1/16&quot;</td>
</tr>
</tbody>
</table>

#### CS-E9NKUW / CS-E12NKUAW

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CS-E9NKUW</th>
<th>CS-E12NKUAW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Input</td>
<td>500 (340-810)</td>
<td>740(300-1,230)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>9.0</td>
<td>9.0</td>
</tr>
<tr>
<td>Unit Dimensions (H x W x D)</td>
<td>11-7/16&quot; x 34-9/32&quot; x 8-1/16&quot;</td>
<td>11-7/16&quot; x 34-9/32&quot; x 8-1/16&quot;</td>
</tr>
</tbody>
</table>

#### CS-ME7QKUA

- **Remote Controller**: Wireless
- **Included with each indoor**: ECONAVI Room Freeze Protection
- **Auto-Setback**: (Optional) (CZ-RD516C-1) Remote Controller
- **Diagnose**: Wired
- **Self Diagnose**: Wired
- **Wireless Diagnose**: Wireless

*This is maximum situation difference when the indoor unit is located above the outdoor unit. (Refer to the table on page 15 in the catalog for more detail.)*

### RAC Multi-System Outdoor Units

**For 2 Rooms**

#### CU-2S18NBU / CU-2E18NBU

#### Model No.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CU-2S18NBU</th>
<th>CU-2E18NBU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>Capacity Cooling</td>
<td>Btu/h</td>
<td>6,900(6100-9,900)</td>
</tr>
<tr>
<td>Power Input W</td>
<td>740</td>
<td>1,000</td>
</tr>
<tr>
<td>Power Supply V, Phase, Hz</td>
<td>230V / 208V, 1PH, 60Hz</td>
<td>230V / 208V, 1PH, 60Hz</td>
</tr>
<tr>
<td>Dimensions (H x W x D) inch</td>
<td>31-5/16&quot; x 34-15/32&quot; (+3-3/4&quot;) x 12-5/8&quot;</td>
<td>31-5/16&quot; x 34-15/32&quot; (+3-3/4&quot;) x 12-5/8&quot;</td>
</tr>
<tr>
<td>Net Weight Lbs.</td>
<td>152</td>
<td>152</td>
</tr>
</tbody>
</table>

**Features**

- **Protection**
- **Remote Controller**
- **Control**
- **Wireless**
- **Wired**
- **ECONAVI Room Freeze Protection**

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

<table>
<thead>
<tr>
<th>Indoor and outdoor combination</th>
<th>Room Size (sq ft)</th>
<th>Total</th>
<th>min- max</th>
<th>Rating</th>
<th>Current, 208V (A)</th>
<th>Current, 230V (A)</th>
</tr>
</thead>
</table>
RAC Multi-System Heat Pump

Advantages of New Multi-Split Inverter System
Connectable from 2 to 5 Indoor units. System 5 allows single outdoor unit to be connected to 2-5 indoor units. It solves the problem of limited installation space does not clutter the exterior of your home.

Up to 5 Rooms

Indoor Unit: Wall Mounted Type

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CS-ME7QKUA</th>
<th>CS-E9NKUAW</th>
<th>CS-E12NKUAW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply V, Phase, Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
</tr>
<tr>
<td>Running Amps Cooling A</td>
<td>2.5 / 2.8</td>
<td>3.2 / 3.5</td>
<td>3.9 / 4.3</td>
</tr>
<tr>
<td>Power Input Cooling W</td>
<td>500 (340-810)</td>
<td>630 (340-810)</td>
<td>800 (340-1,360)</td>
</tr>
<tr>
<td>SEER Cooling</td>
<td>18.5</td>
<td>18.5</td>
<td>18.5</td>
</tr>
<tr>
<td>EER Cooling</td>
<td>9.60</td>
<td>9.60</td>
<td>9.60</td>
</tr>
<tr>
<td>Capacity Cooling Btu/h</td>
<td>6,900 (6,100~9,900)</td>
<td>8,600 (6,100~9,900)</td>
<td>10,900 (6,100~13,000)</td>
</tr>
<tr>
<td>Moisture Removal High Pints/H</td>
<td>0.8</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>Dry Air Flow High CFM</td>
<td>425</td>
<td>430</td>
<td>475</td>
</tr>
<tr>
<td>Net Weight lb</td>
<td>20.0</td>
<td>20.0</td>
<td>20.0</td>
</tr>
</tbody>
</table>

RAC Multi-System Heat Pump

![RAC Multi System](image)

Tubing Length

<table>
<thead>
<tr>
<th>Name</th>
<th>Indoor</th>
<th>Outdoor</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor Tube Size</td>
<td>3/8&quot; x 5</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Maximum Tube Length ft</td>
<td>138 (per unit)</td>
<td>138</td>
<td>262 (per system)</td>
</tr>
<tr>
<td>Maximum Elevation difference between In / Outdoor ft</td>
<td>82/unit (262 total)</td>
<td>82/unit (262 total)</td>
<td>82/unit (262 total)</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CU-E36SBU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions &amp; Weight</td>
<td>39-11/32&quot; x 37-1/32&quot; x 13-13/32&quot;</td>
</tr>
<tr>
<td>Net Weight lb</td>
<td>183</td>
</tr>
</tbody>
</table>

*Use CZ-MA2P when connecting with CS-24NKUA (3/8" to 1/2")
*When pipes are not extended from the chargeless pipe length, the required amount of refrigerant is already in the unit.
*Test condition based on AHRI 210/240

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CS-ME7QKUA</th>
<th>CS-E9NKUAW</th>
<th>CS-E12NKUAW</th>
<th>CS-E18NKUAW</th>
<th>CS-E24NKUAW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply V, Phase, Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
<td>230V / 208V, 1Ph, 60Hz</td>
</tr>
<tr>
<td>Running Amps Cooling A</td>
<td>3.7 / 4.1</td>
<td>4.7 / 5.2</td>
<td>6.0 / 6.6</td>
<td>9.7 / 10.7</td>
<td>11.8 / 13.0</td>
</tr>
<tr>
<td>Power Input Cooling W</td>
<td>740 (300-1,230)</td>
<td>940 (300-1,230)</td>
<td>1,230 (300-2,100)</td>
<td>2,100 (300-2,520)</td>
<td>2,550 (680-2,720)</td>
</tr>
<tr>
<td>Cool Mode EER</td>
<td>39 / 33 / 25 / 22</td>
<td>40 / 33 / 25 / 22</td>
<td>43 / 37 / 28 / 25</td>
<td>47 / 43 / 39 / 36</td>
<td>48 / 44 / 40 / 37</td>
</tr>
<tr>
<td>Cool Mode HSPF</td>
<td>41 / 38 / 29 / 26</td>
<td>42 / 38 / 29 / 26</td>
<td>44 / 40 / 35 / 32</td>
<td>47 / 42 / 39 / 36</td>
<td>48 / 44 / 40 / 37</td>
</tr>
<tr>
<td>Heating Mode EER</td>
<td>10.0</td>
<td>10.0</td>
<td>10.0</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Heating Mode HSPF</td>
<td>15.0</td>
<td>15.0</td>
<td>15.0</td>
<td>15.0</td>
<td>15.0</td>
</tr>
<tr>
<td>Controls</td>
<td>Microprocessor</td>
<td>Microprocessor</td>
<td>Microprocessor</td>
<td>Microprocessor</td>
<td>Microprocessor</td>
</tr>
<tr>
<td>Refrigerant / Amount Charged at Shipment</td>
<td>Type/oz R-410A /120.0 oz</td>
<td>Type/oz R-410A /120.0 oz</td>
<td>Type/oz R-410A /120.0 oz</td>
<td>Type/oz R-410A /120.0 oz</td>
<td>Type/oz R-410A /120.0 oz</td>
</tr>
<tr>
<td>Maximum Elevation difference between In / Outdoor ft</td>
<td>82/unit (262 total)</td>
<td>262 (per system)</td>
<td>262 (per system)</td>
<td>262 (per system)</td>
<td>262 (per system)</td>
</tr>
<tr>
<td>Maximum Tube Length ft</td>
<td>82 (per Unit)</td>
<td>262 (per system)</td>
<td>262 (per system)</td>
<td>262 (per system)</td>
<td>262 (per system)</td>
</tr>
<tr>
<td>Adapters Required</td>
<td>CZ-MA2P – Outdoor Unit (When connected to CS-24NKUA)</td>
<td>CZ-MA2P – Outdoor Unit (When connected to CS-24NKUA)</td>
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<td>CZ-MA2P – Outdoor Unit (When connected to CS-24NKUA)</td>
</tr>
</tbody>
</table>

**Cautions:** All hard installed tubing must be compliant to refrigerant A-123.

* 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)
* A minimum of 2 indoor units must be connected.
* In the table, keep all the units within the same elevation, except the outdoor unit.
* Refrigerant tubing must be insulated.
* The outdoor unit is the normal part of the setup.

New Multi-System Inverter System

- It solves the problem of limited installation space
- Does not clutter the exterior of your home.

2-5 indoor units.

Connectable from 2 to 5 Indoor units. System 5 allows single outdoor unit to be connected to 2-5 indoor units.

Advantages of New Multi-Split Inverter System

- Connectable from 2 to 5 Indoor units
- System 5 allows single outdoor unit to be connected to 2-5 indoor units.
- It solves the problem of limited installation space
- Does not clutter the exterior of your home.

Up to 5 Rooms
<table>
<thead>
<tr>
<th>Room</th>
<th>E Capacity (Min. - Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Room</th>
<th>COOLING HEATING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Room</th>
<th>RAC Multi-Combination Tables Heat Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Indoor Unit: Wall Mounted Type

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-MKS7NKU / CS-MKS9NKU / CS-MKS12NKU</td>
<td>7,500</td>
<td>230V / 208V</td>
<td>0.11 / 0.12</td>
<td>0.15 / 0.17</td>
<td>19.8</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
<tr>
<td>CS-MKE7NKU / CS-MKE9NKU / CS-MKE12NKU</td>
<td>9,000</td>
<td>230V / 208V</td>
<td>0.15 / 0.17</td>
<td>0.15 / 0.17</td>
<td>19.8</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
<tr>
<td>CS-MKS18NKU / CS-MKS24NKU</td>
<td>11,900</td>
<td>230V / 208V</td>
<td>0.15 / 0.17</td>
<td>0.15 / 0.17</td>
<td>26.5</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
<tr>
<td>CS-MKE18NKU / CS-MKE24NKU</td>
<td>17,500</td>
<td>230V / 208V</td>
<td>0.20 / 0.22</td>
<td>0.20 / 0.22</td>
<td>26.5</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
<tr>
<td>CS-MKS24NKU</td>
<td>24,200</td>
<td>230V / 208V</td>
<td>0.45</td>
<td>0.20 / 0.22</td>
<td>45.0</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
</tbody>
</table>

### Indoor Unit: Ceiling Recessed Type

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-MKS9NB4U / CS-MKS12NB4U / CS-KS18NB4UW</td>
<td>9,000</td>
<td>230V / 208V</td>
<td>0.10 / 0.11 &amp; 0.12 / 0.13</td>
<td>0.11 / 0.12 &amp; 0.13 / 0.14</td>
<td>41.3</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
<tr>
<td>CS-MKE9NB4U / CS-MKE12NB4U / CS-KE18NB4UW</td>
<td>11,900</td>
<td>230V / 208V</td>
<td>0.15 / 0.16 &amp; 0.19 / 0.20</td>
<td>0.15 / 0.16 &amp; 0.19 / 0.20</td>
<td>41.3</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
<tr>
<td>CS-MKS24NB4U</td>
<td>17,500</td>
<td>230V / 208V</td>
<td>0.45</td>
<td>0.20 / 0.22</td>
<td>80.0</td>
<td>Max. 50</td>
<td>Max. 50</td>
</tr>
</tbody>
</table>

### Control Features

- **Remote Control:** Included with each indoor unit.
- **Wired Remote:** Optional.
- **Wireless Remote:** Optional.

### Additional Features

- **ECONAVI Room Freeze**
- **Protection**
- **Suction**
- **Heating**
- **Cooling**
- **Speeds**
- **Change**
- **Auto-setback**
- **Night**
- **Operation**
- **Ambient**
- **Low**
- **Elect. Valve**
- **Refrigerant**
- **microbial**
- **Anti-Blue Fin**

---

* 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**

- **CU-3KS19NBU**
- **CU-3KE19NBU**

**Up to 3 Rooms**

---

**Performance**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CU-3KS19NBU</th>
<th>CU-3KE19NBU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Btu/h</td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>17,000</td>
<td>17,000</td>
</tr>
<tr>
<td>Heating</td>
<td>23,200</td>
<td></td>
</tr>
</tbody>
</table>

| Air Circulation High CFM | 1,707 | 1,707 |
| Number of Connectable Indoor Units | 2 ~ 3 | 2 ~ 3 |
| SEER Cooling | 18.0 | 18.0 |
| EER Cooling | 12.0 | 12.0 |

---

**Features**

- **Control**
  - Microprocessor
- **Fan Speeds**
  - Auto (Hi, Me, Lo)
- **Compressor**
  - DC Inverter
- **Refrigerant**
  - R-410A
  - Refrigerant Charge at Shipment: 6.17 lbs.
- **Operation Sound**
  - Hi dB-A (at 50 Hz): 50
- **Refrigerant Tubing Connections**
  - Type: Flare
- **Max. Allowable Tubing Length**
  - 82 ft (per Unit) 150 ft (per System) with additional refrigerant
- **Refrigerant Tube Diameter**
  - Discharge: 1/4" x 3, 1/4" x 3
  - Suction: 3/8" x 3, 3/8" x 3

**Dimensions & Weight**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CU-3KS19NBU</th>
<th>CU-3KE19NBU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Dimensions</td>
<td>H x W x D</td>
<td>29-1/8&quot; x 35-7/16&quot; x 12-19/32&quot;</td>
</tr>
<tr>
<td>Net Weight</td>
<td>Lbs.</td>
<td>138.9</td>
</tr>
</tbody>
</table>

---

### 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.

---

---

**Connectable from 2 to 4 Indoor Units**

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

**Up to 4 Rooms**

---

**Performance**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CU-4KS24NBU</th>
<th>CU-4KE24NBU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Btu/h</td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>24,200</td>
<td>22,400</td>
</tr>
<tr>
<td>Heating</td>
<td>27,200</td>
<td></td>
</tr>
</tbody>
</table>

| Air Circulation High CFM | 1,707 | 1,707 |
| Number of Connectable Indoor Units | 2 ~ 4 | 2 ~ 4 |
| SEER Cooling | 18.0 | 18.0 |
| EER Cooling | 11.5 | 11.2 |

---

**Features**

- **Control**
  - Microprocessor
- **Fan Speeds**
  - Auto (Hi, Me, Lo)
- **Compressor**
  - DC Inverter
- **Refrigerant**
  - R-410A
  - Refrigerant Charge at Shipment: 6.17 lbs.
- **Operation Sound**
  - Hi dB-A (at 50 Hz): 50
- **Refrigerant Tubing Connections**
  - Type: Flare
- **Max. Allowable Tubing Length**
  - 82 ft (per Unit) 150 ft (per System) with additional refrigerant
- **Refrigerant Tube Diameter**
  - Discharge: 1/4" x 4, 1/4" x 4
  - Suction: 3/8" x 3 + 1/2" x 1, 3/8" x 3 + 1/2" x 1

**Dimensions & Weight**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CU-4KS24NBU</th>
<th>CU-4KE24NBU</th>
</tr>
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<tr>
<td>Unit Dimensions</td>
<td>H x W x D</td>
<td>29-1/8&quot; x 35-7/16&quot; x 12-19/32&quot;</td>
</tr>
<tr>
<td>Net Weight</td>
<td>Lbs.</td>
<td>174.2</td>
</tr>
</tbody>
</table>

---

### 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.

---

---

**Model No.**

- CU-3KS19NBU
- CU-3KE19NBU
- CU-4KS24NBU
- CU-4KE24NBU
- CU-4KS31NBU
- CU-4KE31NBU
- CU-3KS19NBU
- CU-3KE19NBU
- CU-4KS31NBU
- CU-4KE31NBU

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---
RAC Multi-Combination Tables Cooling

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

<table>
<thead>
<tr>
<th>Room A</th>
<th>Room B</th>
<th>Room C</th>
<th>Room D</th>
<th>Total Performance (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU-3KS1NBU/CU-3KE1NBU 230V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7500 + 7500</td>
<td>7500 + 7500</td>
<td>7500 + 7500</td>
<td>7500 + 7500</td>
<td>7500 + 7500</td>
</tr>
<tr>
<td><strong>Room</strong></td>
<td><strong>Circuit</strong></td>
<td><strong>Capacity</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
</tr>
<tr>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
</tr>
</tbody>
</table>

CU-4KS3NBU/CU-4KE3NBU 230V

<table>
<thead>
<tr>
<th>Room A</th>
<th>Room B</th>
<th>Room C</th>
<th>Room D</th>
<th>Total Performance (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7500 + 7500</td>
<td>7500 + 7500</td>
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<td>7500 + 7500</td>
</tr>
<tr>
<td><strong>Room</strong></td>
<td><strong>Circuit</strong></td>
<td><strong>Capacity</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
</tr>
<tr>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
</tr>
</tbody>
</table>

CU-3KE1NBU/CU-3KE2NBU 230V

<table>
<thead>
<tr>
<th>Room A</th>
<th>Room B</th>
<th>Room C</th>
<th>Room D</th>
<th>Total Performance (kW)</th>
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<tr>
<td>7500 + 7500</td>
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<td>7500 + 7500</td>
</tr>
<tr>
<td><strong>Room</strong></td>
<td><strong>Circuit</strong></td>
<td><strong>Capacity</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
</tr>
<tr>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
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CU-4KE3NBU/CU-4KE2NBU 230V

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<th>Room C</th>
<th>Room D</th>
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</tr>
<tr>
<td><strong>Room</strong></td>
<td><strong>Circuit</strong></td>
<td><strong>Capacity</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
</tr>
<tr>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
<td><strong>Max.</strong></td>
<td><strong>Min.</strong></td>
</tr>
</tbody>
</table>
Ceiling Suspended Air Conditioners and Heat Pumps

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

**Improved Serviceability / Easy Installation**
External suspension method. Installation time can be shortened.

**Auto-Louver Function Provides Optimum Airflow During Heating or Cooling Operation**
Auto-louver function is a standard feature which provides optimum airflow during heating or cooling operation. Angle of louver is automatically set for heating or cooling. For example, when heating with fan speed set to low, the discharge is aimed downward so that warm air reaches the floor. The louver angle can be set to swing automatically from F1 to F5 in any operation mode (heat pump type only).

**Fresh Air Intake Capability and Duct Extension**
Ceiling-suspended models have the capability of bringing fresh air from outside using an air-intake duct (field supplied).

---

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>S-26PT1U6 / S-42PT1U6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wind Direction</strong></td>
<td>Automatic</td>
</tr>
<tr>
<td><strong>Airflow</strong></td>
<td>Over a wide area</td>
</tr>
<tr>
<td><strong>Auto-Louver</strong></td>
<td>Standard</td>
</tr>
<tr>
<td><strong>Low Ambient Control</strong></td>
<td>Built-in</td>
</tr>
<tr>
<td><strong>Low Running Speed</strong></td>
<td>15.6 / 17.3 A</td>
</tr>
<tr>
<td><strong>External Diameter</strong></td>
<td>9-7/16”</td>
</tr>
<tr>
<td><strong>Remote Control</strong></td>
<td>(Included)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>230 / 208 / 1 / 60</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>30-23/32”</td>
</tr>
<tr>
<td><strong>Discharge</strong></td>
<td>3/8”</td>
</tr>
<tr>
<td><strong>Wiring Diameter</strong></td>
<td>5/8”</td>
</tr>
<tr>
<td><strong>Refrigerant Type</strong></td>
<td>Flare</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>Heating: 30,800 (8,000~30,800)</td>
</tr>
<tr>
<td><strong>Model No.</strong></td>
<td>26PST1U6 36PST1U6 42PST1U6</td>
</tr>
<tr>
<td><strong>Operation Sound</strong></td>
<td>Indoor: 39 / 37 / 33</td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
<td>R-410A</td>
</tr>
<tr>
<td><strong>Filter</strong></td>
<td>Washable</td>
</tr>
<tr>
<td><strong>Fan Speeds</strong></td>
<td>3 and Automatic Control / Variable</td>
</tr>
<tr>
<td><strong>Power Input</strong></td>
<td>Cooling: 2,880 / 2,880</td>
</tr>
<tr>
<td><strong>Power Input</strong></td>
<td>Running: 15.6 / 17.3 A</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>26-3/8”</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>7-17/32”</td>
</tr>
<tr>
<td><strong>Discharge</strong></td>
<td>3/8”</td>
</tr>
<tr>
<td><strong>Wiring Diameter</strong></td>
<td>5/8”</td>
</tr>
<tr>
<td><strong>Refrigerant Type</strong></td>
<td>Flare</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>Heating: 37,400 (8,000~37,400)</td>
</tr>
<tr>
<td><strong>Model No.</strong></td>
<td>26PET1U6 36PET1U6 42PET1U6</td>
</tr>
<tr>
<td><strong>Operation Sound</strong></td>
<td>Indoor: 39 / 37 / 33</td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
<td>R-410A</td>
</tr>
<tr>
<td><strong>Filter</strong></td>
<td>Washable</td>
</tr>
<tr>
<td><strong>Fan Speeds</strong></td>
<td>3 and Automatic Control / Variable</td>
</tr>
<tr>
<td><strong>Power Input</strong></td>
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</tr>
<tr>
<td><strong>Power Input</strong></td>
<td>Running: 15.6 / 17.3 A</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>26-3/8”</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>7-17/32”</td>
</tr>
<tr>
<td><strong>Discharge</strong></td>
<td>3/8”</td>
</tr>
<tr>
<td><strong>Wiring Diameter</strong></td>
<td>5/8”</td>
</tr>
<tr>
<td><strong>Refrigerant Type</strong></td>
<td>Flare</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>Heating: 44,500 (8,000~44,500)</td>
</tr>
<tr>
<td><strong>Model No.</strong></td>
<td>26PET1U6 36PET1U6 42PET1U6</td>
</tr>
<tr>
<td><strong>Operation Sound</strong></td>
<td>Indoor: 39 / 37 / 33</td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
<td>R-410A</td>
</tr>
<tr>
<td><strong>Filter</strong></td>
<td>Washable</td>
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<td>3 and Automatic Control / Variable</td>
</tr>
<tr>
<td><strong>Power Input</strong></td>
<td>Cooling: 2,880 / 2,880</td>
</tr>
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<td><strong>Power Input</strong></td>
<td>Running: 15.6 / 17.3 A</td>
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<tr>
<td><strong>Depth</strong></td>
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</tr>
<tr>
<td><strong>Height</strong></td>
<td>7-17/32”</td>
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<tr>
<td><strong>Discharge</strong></td>
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</tr>
<tr>
<td><strong>Refrigerant Type</strong></td>
<td>Flare</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>Heating: 44,500 (8,000~44,500)</td>
</tr>
<tr>
<td><strong>Model No.</strong></td>
<td>26PET1U6 36PET1U6 42PET1U6</td>
</tr>
</tbody>
</table>

---

*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 Suspended Air Conditioners
- Heat Pumps
- Outdoor Unit
- Wireless Remote Controller (optional)
- Wired Remote Controller (included)
- Ceiling-Suspended Air Conditioners and Heat Pumps
**Ceiling-Recessed Air Conditioners and Heat Pumps**

### 4-way Recessed Air Conditioners

**Outdoor Unit**
- **Model No.**
  - CS-KS12NB41
  - CS-KS18NB4UA
  - CU-KS12NK1A
  - CU-KE12NK1
  - CU-KE18NK1

**Indoor Unit**
- **Model No.**
  - CS-KS18NB4UW
  - CU-KS18NKUA
  - CU-KE18NKU

**36PSU1U6 / 36PEU1U6**

**Outdoor Unit**
- **Grille Assembly**
  - CZ-36KPU1U

**Indoor Unit**
- **Grille Assembly**
  - CZ-36KPU1U

**Suction**
- **Type**
  - Flare

**Discharge**
- **Type**
  - Flare

**Dimensions & Weight**
- **Indoor Unit**
  - Depth: 24-19/32" (62.5 cm)
  - Width: 24-19/32" (62.5 cm)
  - Net Weight: 41.3 lbs (18.7 kg)

- **Outdoor Unit**
  - Depth: 10-7/16" (26.8 cm)
  - Width: 28-11/32" (72.2 cm)
  - Net Weight: 75.0 lbs (34.0 kg)

### 26PSU1U6 / 26PEU1U6

**Outdoor Unit**
- **Grille Assembly**
  - CZ-26KPU1U

**Indoor Unit**
- **Grille Assembly**
  - CZ-26KPU1U

### 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.

### 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 30 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. C2-MC101U for S-36P1U6 C2-MC102U for S-42P1U6

### Performance & Electrical Ratings

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Power Supply V, Phase, Hz</th>
<th>Refrigerant</th>
<th>Timer</th>
<th>Wireless Remote Controller</th>
<th>Wired Remote Controller</th>
<th>Fan Speeds</th>
<th>Air Filter</th>
<th>Capacity Cooling Btu/h</th>
<th>Refrigerant Pipe Length Ft.</th>
<th>Dimensions &amp; Weight Indoor Unit</th>
<th>Dimensions &amp; Weight Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS12NB41</td>
<td>115V, Single phase, 60Hz</td>
<td>R-410A</td>
<td>1 hr OFF and 24-hr PROGRAM</td>
<td>Included</td>
<td>Optional</td>
<td>3 and Automatic Control / Variable</td>
<td>Washable</td>
<td>11,900 (3,000 ~ 11,900)</td>
<td>65</td>
<td>Depth 24-19/32&quot; Width 24-19/32&quot; Net Weight 41.3 Lbs.</td>
<td>Depth 10-7/16&quot; Width 28-11/32&quot; Net Weight 75.0 Lbs.</td>
</tr>
<tr>
<td>KS18NB4UA</td>
<td>208 / 230V, Single phase, 60Hz</td>
<td>R-410A</td>
<td>1 hr OFF and 24-hr PROGRAM</td>
<td>Included</td>
<td>Optional</td>
<td>3 and Automatic Control / Variable</td>
<td>Washable</td>
<td>17,500 (4,000 ~ 17,500)</td>
<td>98</td>
<td>Depth 24-19/32&quot; Width 28-11/32&quot; Net Weight 41.3 Lbs.</td>
<td>Depth 10-7/16&quot; Width 28-11/32&quot; Net Weight 90.4 Lbs.</td>
</tr>
</tbody>
</table>

*This is maximum elevation difference when the indoor unit is placed above the outdoor unit. (Refer to the table on the back of the catalog for more detail.)
## Concealed Duct Air Conditioners and Heat Pumps

### Optional Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>SI-30-120</td>
<td>Condensate Pump</td>
<td>SI-30-120</td>
</tr>
<tr>
<td>SI-30-240</td>
<td>Timed Remote Controller</td>
<td>SI-30-240</td>
</tr>
<tr>
<td>SI1730-2</td>
<td>Fresh Air Intake Plenum</td>
<td>SI1730-2</td>
</tr>
<tr>
<td>SI-30-240</td>
<td>Condensate Pump</td>
<td>SI-30-240</td>
</tr>
<tr>
<td>SI-30-120</td>
<td>Timed Remote Controller</td>
<td>SI-30-120</td>
</tr>
<tr>
<td>SI1730-2</td>
<td>Fresh Air Intake Plenum</td>
<td>SI1730-2</td>
</tr>
</tbody>
</table>

### Condensate Pump


### Timed Remote Controller

- **RC5PS64**: wired remote control, Use with: RC5PS64, RC5PS64, RC5PS64, RC5PS64, RC5PS64, RC5PS64, RC5PS64, RC5PS64.

### Fresh Air Intake Plenum

- **CZ-SDC01U**: fresh air intake plenum, Use with: CZ-SDC01U.

### Replacement Air Intake Filter

- **CZ-SAD0P**: replacement air intake filter, Use with: CZ-SAD0P.

### Wired Remote Controller

- **CZ-RTC2**: wired remote controller, Use with: CZ-RTC2.

### System Controller

- **CZ-64ESMC1U**: system controller, Use with: CZ-64ESMC1U.

## 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.

### Refrigerant Pipe Length

- **Max. 165 ft.**

### Remote Controller

- **CZ-RTC2** (included)
- **CZ-RWSU2U, CZ-RWSC1U** (optional)

### EER Cooling

- **9.1**

### Capacity Cooling

- **24,000 (9,500 ~ 24,000)**

### Power Input Cooling

- **2,600 / 2,600 W**

### Power Supply

- **230 / 208, 1Ph, 60Hz**

### Depth

- **24-13/16”**

### Width

- **39-3/8”**

### Moisture Removal

- **High Pints/H:**
  - **7.7**
  - **10.0**

### Refrigerant Piping Type

- **Flare**

### Running Amps Cooling

- **A:**
  - **13.6 / 15.0**
  - **18.6 / 20.6**

### Dry Air Flow

- **Hi / Med / Low CFM:**
  - **670 / 530 / 460**
  - **1,060 / 920 / 750**

### Heating A

- **12.5 / 13.8 / 15.9 / 17.6**

### Operation Sound In(Hi / Me / Lo) dB-A

- **34 / 30 / 27**

### Discharge

- **3/8”**

### Outdoor(Hi) dB-A

- **49 / 52**

### Dishwasher

- **(heat pump only) (heat pump only)**

### Vertical

- **---**

### Vertical Discharge

- **---**

### Vertical Outdoor

- **---**

### Vertical Discharge

- **---**

### Outdoor Unit

- **24-13/16”**

### Indoor Unit

- **39-3/8”**

### Handling Amps

- **---**

### Handling Amps

- **---**

### Connections

- **---**

### Connections

- **---**

### Wind Baffle

- **WINDB-1**

### Anti-microbial Filter

- **Replacement**

### Replacement Air Intake Filter

- **CZ-SAD0P**

---

**Note:** This is the maximum available difference where the indoor unit is located above the outdoor unit. (Refer to the table on the back of the catalog for more details.)
Remote Controller Options for Models 26,000 Btu’s and Larger

Wireless Remote Controllers
- CZ-RE2C2
- CZ-RELC2 (with Backlight)

Key Features (Simple Remote):
- Thin and Easy To Read
- Simple To Install and Use
- Can Be Adapted For Use On All 26,000 Btu/h Indoor Units.

Key Features (Standard Remote/7 Day Timer):
- Full System Diagnostic Capability
- Full 7 Day Set-Back Functionality,
- Vacation Mode for Continued Energy Efficiencies
- Operating Mode (Heating/Cooling/Auto/Dry/Fan)
- Airflow Direction
- Fan Speed Control

Key Features (System Control):
- Controls Up To 64 Units Into 4 Groups
- Separate type signal receiving unit.
- External type System Controller

Wireless Remote Controllers
- Applicable Unit
- Built-in type
- External type

Remote Controllers Functions
- Timer Remote Controller (Simpler Functionality is Required through 42,000 Utu/h Indoor Units).
- Full System Diagnostic Capability
- Full 7 Day Set-Back Functionality
- Vacation Mode for Continued Energy Efficiencies
- Operating Mode (Heating/Cooling/Auto/Dry/Fan)
- Airflow Direction
- Fan Speed Control

Notes:
- It is not possible to use both remote controller and system controller concurrently.
- Both controllers can be used on a last signal priority basis.

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

Remote Controller Options for Models 26,000 Btu’s and Larger Wiring Schematics

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

RAC wiring schematic

*These wiring diagrams are for reference only. Please refer to installation manual for details.
*Disconnect Switch to be field supplied.
### Operation Range

**Cooling Models (37/21/22/21(12))**

**Low Ambient Cooling Models (37/21/12/21/30/30)**

**RAC Multi KS Series Cooling Models**

**Cooling Models above 26,000 Btu**

**Sanyo to Panasonic Cross Reference**

### Wall Mount / Wall Mount H/P

<table>
<thead>
<tr>
<th>Category</th>
<th>Capacity</th>
<th>Model No.</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor</td>
<td>Heat Pump</td>
<td>KE12NK1A</td>
<td>KE12NK1A</td>
</tr>
<tr>
<td>Indoor</td>
<td>Heat Pump</td>
<td>KS12NKUA</td>
<td>KS12NKUA</td>
</tr>
<tr>
<td>Outdoor</td>
<td>Cooling</td>
<td>KS12NKUA</td>
<td>KS12NKUA</td>
</tr>
<tr>
<td>Indoor</td>
<td>Cooling</td>
<td>KE12NKUA</td>
<td>KE12NKUA</td>
</tr>
</tbody>
</table>

### Cooling Models above 26,000 Btu

### Sanyo to Panasonic Cross Reference

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

### Sanitary Temperatures

#### R-410A

- **Oz/ft**
  - **Nominal**
    - **1/2”**
      - **32’**
    - **3/8”**
      - **32’**

#### Tubing Length (ft)

- **1/2”**
  - **32’**
- **3/8”**
  - **32’**

### Refrigerant Charge Adjustment

- **Nominal**
  - **1/2”**
    - **32’**
  - **3/8”**
    - **32’**

### Insulation

- **Both Tubing**