HITACHI

# 2020 HOME INVERTER SERIES

5 YEAR WARRANTY ON COMPRESSORS

FULL DC INVERTER TECHNOLOGY
3 INVERTERS IN 1
mean more savings

Come Home to Better Comfort

Come Home to
Better Comfort
HITACHI
VS
OTHERS
3 INVERTERS IN 1 means more savings
1 DC COMPRESSOR
2 DC FAN MOTOR
3 DC INVERTER MODULE
Only 2 Inverters:
DC Compressor &
DC Inverter Module
*Use AC Fan Motor
Uses Expansion Valve*
adjusts refrigerant flow according to room load requirement resulting in low power consumption and constant temperature
*Used for real and modern inverters
Use Capillary Tube
does not adjust refrigerant flow even after desired temperature is reached causing higher power consumption
*Traditionally used for non-inverters
Two Fan Motors*
One fan motor assigned to the evaporator, the other to the condenser
*Compact Window Type Inverter aircon has a single fan motor.
One Fan Motor
Makes the operation always at maximum capacity and constant speed entailing more energy consumption
You decide. It pays to compare.

# More Is Better. Choose Full DC Inverter

Hitachi air conditioners with Full DC Inverter Technology have not just one, not just two, but three inverter components that work together more efficiently to deliver the cooling comfort you deserve while consuming the least possible power. Hence, you get more savings on your electricity bill!

# Efficiency in Flexibility

Maintaining your pre-set temperature with an ordinary aircon can be too costly energy-wise as it would require the compressor to constantly turn on and off. Hitachi air conditioners function with an exceptional energy-saving ability to automatically adjust internal settings, avoiding wasteful power consumption while ensuring you stay comfortably cool at all times.

## EFFICIENCY COMPARISON

Full DC inverter saves energy by varying the rotation speed of its inverter components to maintain your ideal or pre-set temperature, thereby reducing as much power wastage as possible.

## COOLING FLEXIBILITY

Hitachi air conditioners are equipped with artificial intelligence that automatically adjusts the cooling temperature based on existing environmental factors such as time and temperature of the day, heat-emitting appliances and the number of people inside the room.

Advanced Inverter Technology.
Affordable Price.

# NEW COMPACT WINDOW TYPE INVERTER
(RA-HSV)

5 YEAR WARRANTY ON COMPRESSORS

eer 13.3

FULL DC INVERTER TECHNOLOGY
3 INVERTERS IN 1
mean more savings

AVAILABLE AT 0.6 HP TO 1.0 HP
Lowest Capacity Available Exclusively by Hitachi

## RA-06HSV
- 0.6 HP
- 7,000 kJ/h
- 470 x 340 x 600 mm (WxHxD)
- EER: 13.3

## RA-08HSV
- 0.8 HP
- 8,800 kJ/h
- 470 x 340 x 600 mm (WxHxD)
- EER: 12.7

## RA-10HSV
- 1.0 HP
- 10,100 kJ/h
- 470 x 340 x 600 mm (WxHxD)
- EER: 11.9

**NO-NOISE OPERATION**
delivers optimal cooling performance silently.

**SELF-DIAGNOSE FUNCTION**
automatically detects and identifies any malfunction in real time.

**AUTO-SWING BLADES**
instantaneously adjust air deflectors for extended cooling reach.

**AION FILTER**
effectively cleans indoor air by removing airborne bacteria and fungi.

**VERSATILE MODE SETTINGS**
simplify shifting from FAN to COOL to DRY (dehumidify) and have a POWERFUL function (auto-mode adjustment) for enhanced cooling performance.

**USER-FRIENDLY REMOTE CONTROL**
is designed for easy operation, so you get stress-free cooling convenience without fuss.

**ECO-FRIENDLY REFRIGERANT**
is a globally accepted refrigerant (R410A) that cools efficiently without depleting the ozone.

**STYLISHLY MODERN DESIGN**
is sophisticated and works perfectly well with any type of interior design motif.

**HIGH ENERGY EFFICIENCY RATIO**
guarantees total cooling comfort while consuming less power.

**OTHER FEATURES:**
- Room Temperature Display
- Fan-Speed Adjustment
- Timer, Sleep and Lock Settings
- Five-Year Warranty for Compressor
- One-Year Warranty for Parts and Service
- Easily Detachable Filter

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Johnson Controls

HITACHI
Air conditioning solutions

Specifications in this catalog are subject to change without prior notice to keep abreast with continuous product innovations for our customers' benefit.

# Leading-Edge Quality. Unequaled Efficiency.

## WINDOW TYPE
(RA-HV)

FULL DC INVERTER TECHNOLOGY
3 INVERTERS IN 1
mean more savings

5 YEAR WARRANTY ON COMPRESSORS

WITH HIGHER eers

### RA-08HV
- 0.8 HP
- 9,000 kJ/h
- 600 x 400 x 795 mm (WxHxD)
- EER: 14.5

### RA-10HV
- 1.0 HP
- 10,600 kJ/h
- 600 x 400 x 795 mm (WxHxD)
- EER: 13.5

### RA-15HV
- 1.5 HP
- 13,000 kJ/h
- 600 x 400 x 795 mm (WxHxD)
- EER: 12.4

### RA-20HV
- 2.0 HP
- 18,600 kJ/h
- 680 x 468 x 840 mm (WxHxD)
- EER: 12.0

### RA-23HV
- 2.3 HP
- 22,500 kJ/h
- 680 x 468 x 840 mm (WxHxD)
- EER: 11.7

# Same Big Performace. Lighter Design.

## COMPACT WINDOW TYPE
(RA-HVQ)

FULL DC INVERTER TECHNOLOGY
3 INVERTERS IN 1
mean more savings

5 YEAR WARRANTY ON COMPRESSORS

### RA-08HVQ
- 0.8 HP
- 8,800 kJ/h
- 470 x 340 x 600 mm (WxHxD)
- EER: 13.2

### RA-10HVQ
- 1.0 HP
- 10,350 kJ/h
- 470 x 340 x 600 mm (WxHxD)
- EER: 12.3

**NO-NOISE OPERATION**
delivers optimal cooling performance silently.

**SELF-DIAGNOSE FUNCTION**
automatically detects and identifies any malfunction in real time.

**AUTO-SWING BLADES**
instantaneously adjust air deflectors for extended cooling reach.

**DUAL FAN MOTORS***
provide unobstructed air flow that further maximizes the unit's efficiency.

**AION FILTER**
effectively cleans indoor air by removing airborne bacteria and fungi.

**VERSATILE MODE SETTINGS**
simplify shifting from FAN to COOL to DRY (dehumidify) and have a POWERFUL function (auto-mode adjustment) for enhanced cooling performance.

**USER-FRIENDLY REMOTE CONTROL**
is designed for easy operation, so you get stress-free cooling convenience without fuss.

**ECO-FRIENDLY REFRIGERANT**
is a globally accepted refrigerant (R410A) that cools efficiently without depleting the ozone.

**STYLISHLY MODERN DESIGN**
is sophisticated and works perfectly well with any type of interior design motif.

**HIGH ENERGY EFFICIENCY RATIO**
guarantees total cooling comfort while consuming less power.

**OTHER FEATURES:**
- Room Temperature Display
- Fan-Speed Adjustment
- Timer, Sleep and Lock Settings
- Five-Year Warranty for Compressor
- One-Year Warranty for Parts and Service
- Easily Detachable Filter

**Compact Window Type Inverter aircon has a single fan motor.*

# Our Classic Hit

## Exceptionally Energy Saving

5 YEAR WARRANTY ON COMPRESSORS

R410A

WITH HIGHER eers

## DELUXE WINDOW-TYPE

Hitachi Deluxe Air Conditioner makes no compromises on quality. Equipped with R410A Refrigerant and designed with you and your family's needs in mind, it provides total cooling comfort that lasts for hours while being earth-friendly at the same time.

### RA-06SR
- 0.6 HP
- 11.1 EER
- 470 x 340 x 600mm (WxHxD)

### RA-08SR
- 0.8 HP
- 11.7 EER
- 470 x 340 x 600mm (WxHxD)

### RA-10SR
- 1.0 HP
- 10.8 EER
- 470 x 340 x 600mm (WxHxD)

**HIGH ENERGY EFFICIENCY RATIO**
is the standard industry index for determining an aircon's power-saving capacity. The higher the EER, the more energy is saved!

**ECO-FRIENDLY REFRIGERANT**
refers to the globally renowned R410A that cools any room efficiently without depleting the ozone.

**AION FILTER**
allows you and your family to enjoy healthy indoor air that's free of bacteria and fungi.

**ROOM TEMPERATURE DISPLAY**
informs you of the actual room temperature during the cooling process.

**AUTO-SWING BLADES**
instantaneously adjusts air deflectors for extended cooling reach.

**FAN SPEED ADJUSTMENT**
lets you select between LOW, MEDIUM, HIGH and AUTO speeds with ease.

**VERSATILE MODE SETTINGS**
simplify shifting from FAN to COOL to DRY (dehumidify) and have a POWERFUL function (auto-mode adjustment) for enhanced cooling performance.

**OTHER FEATURES:**
- Rapid Cooling
- Easily Detachable Filter
- User-Friendly Remote Control
- Timer, Sleep and Lock Settings

### RA-15SR
- 1.5 HP
- 11.2 EER
- 600 x 400 x 795mm (WxHxD)

### RA-20SR
- 2.0 HP
- 10.0 EER
- 600 x 400 x 795mm (WxHxD)

# Sophisticated Design.
# Advanced Technology for Healthy Air.

5 YEAR WARRANTY ON COMPRESSORS

Purifies indoor air up to 99%

## HI-LUXE SPLIT TYPE

FULL DC INVERTER TECHNOLOGY

Hi-Luxe is our state of the art multi-cleaning model that combines the power of three hi-tech functionalities.

## Our **Most Advanced** Air Purifying System

### 1 NANO SILVER AND PHOTOCATALYST FILTER

Blocks harmful germs and bacteria, reducing the risk of spreading harmful, airborne diseases.

### 2 ANTI-MOLD AND CLEANING FUNCTION

Purifies the air by eliminating mold and bad odors after you turn the unit on and off.

**Eliminates odors** **Releases fresh, cool air**

JAPAN MADE COMPRESSOR

Has cutting-edge technology that delivers optimal performance and energy efficiency while being environmentally friendly at the same time.

### 3 PM 2.5 FILTER

Keeps the air clean and healthy by filtering minute (2.5 microns = $2.5 \times 10^{-6}$ meters), airborne particles, which could damage your health.

## HIGH CSPF

High CSPF (Cooling Seasonal Performance Factor) value provides efficient cooling generated per kW, which is calculated by factoring in seasonal changes in temperature in one year.

Pulse Amplitude Modulation PAM

Auto-Power Saving Mode

### OTHER FEATURES:

- Pulse Amplitude Modulation
- Auto-Power Saving Mode
- Sleep Mode
- Automatic Indoor Machine Panel
- 3D-Movement Swing Blades
- Quiet Operation Mode
- User-Friendly Remote Control

### RAS/RAC-28JK

- 2.8 KW
- 730x 600 x 290 mm (WxHxD) (out)
- CSPF 6.85
- 1.0 HP
- 820 x 300 x 240 mm (WxHxD) (in)

### RAS/RAC-40JK

- 4.1 KW
- 810x 685 x 300 mm (WxHxD) (out)
- CSPF 6.19
- 1.5 HP
- 920 x 300 x 240 mm (WxHxD) (in)

### RAS/RAC-50JK

- 5.0 KW
- 810x 685 x 300 mm (WxHxD) (out)
- CSPF 5.93
- 2.0 HP
- 1090 x 300 x 250 mm(WxHxD) (in)

### RAS/RAC-63JK

- 6.3 KW
- 880x 790 x 315 mm (WxHxD) (out)
- CSPF 5.52
- 2.5 HP
- 1090 x 300 x 250 mm (WxHxD) (in)

## RAS/RAC-81JK

- 8.0 KW
- 920x 885 x 315 mm (WxHxD) (out)
- CSPF 5.41
- 3.0 HP
- 1090 x 300 x 250 mm (WxHxD) (in)

## RAS/RAC-90JK

- 8.7 KW
- 920 x 885 x 315 mm (WxHxD) (out)
- CSPF 5.37
- 3.5 HP
- 1090 x 300 x 250 mm (WxHxD) (in)

# Luxurious Design.
# Unparalleled Premium Performance.

5 YEAR WARRANTY ON COMPRESSORS

WITH HIGHER eers

## ROYAL SPLIT TYPE

FULL DC INVERTER TECHNOLOGY

Created to operate with low-to-zero noise, this innovative aircon model provides cooling efficiency that is unmatched in the industry.

**QUIET OPERATION MODE**
allows you to fully maximize the benefits of cool indoor air without unnecessary disturbances.

**SLEEP-MODE ECO-SCAN**
maintains ideal room temperature by automatically gauging ambient room temperature.

**ANTI-ALLERGY FILTER**
prevents the circulation of common airborne allergens such as dust, pollen and pet dander.

**NANO TITANIUM AND PHOTOCATALYST FILTER**
filters germs and bacteria, lowering the risk of spreading harmful, airborne illnesses.

**DEHUMIDIFICATION DEVICE**
removes excess moisture in the air by alternately setting cooling and fan modes without decreasing room temperature.

**ECO-FRIENDLY REFRIGERANT**
refers to the globally renowned R410A that cools any room efficiently without depleting the ozone.

**PM 2.5 FILTER**
Keeps the air clean and healthy by filtering minute (2.5 microns = $2.5 \times 10^{-6}$ meters), airborne particles, which could damage your health.

**OTHER FEATURES:**

- Easy-to-Clean Panel · Auto-Restart Function · Auto-Protection Mode · LCD Display · User-Friendly Remote Control

## RAS/RAC-08HTP

- 0.8 HP
- 9,000 Kj/h
- 810 x 300 x 215 mm (in)
- 730 x 600 x 290 mm (out) (WxHxD)
- 15.50 EER

## RAS/RAC-10HTP

- 1.0 HP
- 11,500 Kj/h
- 810 x 300 x 215 mm (in)
- 730 x 600 x 290 mm (out) (WxHxD)
- 13.80 EER

## RAS/RAC-15HTP

- 1.5 HP
- 15,580 Kj/h
- 910 x 300 x 215 mm (in)
- 730 x 600 x 290 mm (out) (WxHxD)
- 14.62 EER

## RAS/RAC-19HTP

- 2.0 HP
- 19,000 Kj/h
- 1080 x 300 x 225 mm (in)
- 810 x 685 x 300 mm (out) (WxHxD)
- 14.26 EER

## RAS/RAC-24HTP

- 2.5 HP
- 23,940 Kj/h
- 1080 x 300 x 225 mm (in)
- 880 x 790 x 315 mm (out) (WxHxD)
- 14.15 EER

## RAS/RAC-30HTP

- 3.0 HP
- 28,000 Kj/h
- 1080 x 300 x 225 mm (in)
- 880 x 790 x 315 mm (out) (WxHxD)
- 14.0 EER

# **UTOPIA** AIR CONDITIONING SYSTEM

## Uncompromised Energy-Efficiency in a Compact Size

- Uses the same DC Inverter Technology in a smaller size – total weight is decreased by 21%
- DC fan motors work more efficiently compared to AC motors, therefore use less energy.

R410A

## REVOLUTIONARY R410A REFRIGERANT

The R410A refrigerant was developed to replace R-22. It has a lower ozone depletion potential.

## SELF-DEMAND CONTROL

With self-demand control feature, the unit can detect the current by power rationing.
It automatically controls power consumption by detecting current and controlling its original external signals to select multiple operation modes ideal for different requirements.

## FOUR Indoor Unit Options

The indoor units come in four options: the 4-Way Ceiling Cassette Type, Ceiling Mounted Type, Inverter Slim Type and In-the-Ceiling Type.

## Flexible Installations

The Utopia series air conditioner is optimized for long installations up to 75 meters.

(In this example, only one refrigerant pipe is used. In actual installation, however, separate pipes should be used for refrigerant and refrigeration oil.)

| Outdoor Unit Model | | | RAC-112SQB | RAC-140SQB | RAC-160SQB |
|---|---|---|---|---|---|
| Total Pipe Length: L | | | 70 | 75 | 75 |
| Max Pipe Length (Actual): H | | When the outdoor unit is higher than the indoor unit. | 30 | 30 | 30 |
| | | When the outdoor unit is lower than the indoor unit. | 20 | 20 | 20 |
| Refrigerant Pipe Size | Gas | Indoor | ⅜15.88 | ⅜15.88 | ⅜15.88 |
| | | Outdoor | ⅜15.88 | ⅜15.88 | ⅜15.88 |
| | Liquid | Indoor | ¼6.35/⅜9.53 | ¼6.35/⅜9.53 | ¼6.35/⅜9.53 |
| | | Outdoor | ⅜9.53 | ⅜9.53 | ⅜9.53 |

## Single Refrigerant Piping System

The single refrigerant piping system can reduce your use of refrigerants, and the pipelines are streamlined for easy installation and less space consumption. The outdoor unit can be used for pipe connections compatible with all directions: from the front, back and bottom of the installation. Long refrigerant piping can be installed.

## THREE INNOVATIONS. ONE NAME IN AIR CONDITIONING.

Japanese Technology, Taiwanese Design and Filipino Craftsmanship--- three great world-class innovations brought together to create one exceptional air conditioner.

Experience Commercial Multi-Split Performance at Home

# MULTI-SPLIT RESIDENTIAL VRF

FULL DC INVERTER TECHNOLOGY
3 INVERTERS IN 1
mean more savings

One Module can power up to
**5 indoor units. (1:5)**

## TWO Indoor Units

| COMBINATIONS | | | | | | |
|---|---|---|---|---|---|---|
| RAM-50NK/JK | RAM-63NK/JK | RAM-71NK/71JK | RAM-83NK/83JK | RAM-93NK/JK | RAM-108NK/JK | RAM-130NK/JK |
| 22+28 | 22+40 | 28+50 | 22+63 | 22+81 | 22+90 | 50+90 |
| 22+36 | 22+50 | 36+36 | 22+71 | 28+71 | 40+71 | 63+81 |
| 28+28 | 28+36 | 36+40 | 28+63 | 36+36 | 50+63 | 71+71 |
| | 28+40 | | 36+50 | 40+63 | | |
| | 36+36 | | 40+40 | 50+50 | | |
| | | | 40+50 | | | |

## THREE Indoor Units

| COMBINATIONS | | | |
|---|---|---|---|
| RAM-86NK/JK | RAM-93NK/JK | RAM-108NK/JK | RAM-130NK/JK |
| 22+22+36 | 22+22+63 | 22+22+71 | 22+28+90 |
| 22+22+40 | 22+36+36 | 22+28+63 | 28+28+81 |
| 22+22+50 | 22+36+50 | 22+36+63 | 28+36+71 |
| 22+28+36 | 22+40+50 | 28+28+63 | 28+50+63 |
| 22+28+40 | 28+28+36 | 28+40+50 | 28+40+71 |
| 22+28+50 | 28+28+50 | 40+40+40 | 36+40+71 |
| 22+36+36 | 28+36+36 | | |
| 22+36+40 | 28+36+40 | | |
| 22+40+40 | | | |
| 28+28+28 | | | |
| 28+28+36 | | | |
| 28+28+40 | | | |

## FOUR Indoor Units

| COMBINATIONS | |
|---|---|
| RAM-108NK/JK | RAM-130NK/JK |
| 22+22+22+36 | 22+22+36+50 |
| 22+22+28+28 | 28+28+36+63 |
| 22+22+22+50 | 28+28+36+71 |
| 22+22+28+50 | 28+28+40+63 |
| 22+22+40+40 | 28+28+40+71 |
| 22+28+28+36 | 28+28+50+63 |
| 28+28+28+40 | |

## FIVE Indoor Units

| COMBINATIONS |
|---|
| RAM-160NK |

71 + 81 /90
81 + 81 / 90
90 + 90
25 + 50 + 81 /90
22 + 63 + 71 / 81 /90
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22 + 90 + 90
28 + 40 + 90
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40 + 40 + 40 + 50 + 50

# GENERAL UNIT DATA

## COMPACT WINDOW TYPE WITH FULL DC INVERTER

| MODEL | HORSEPOWER | INPUT POWER | MOISTURE REMOVAL (L/h) | DIMENSIONS (mm) WxHxD | WEIGHT (kg) | INSTALLATION DIMENSIONS (mm) | REFRIGERANT R410A (g) | COOLING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (WxH) | | CAPACITY (kJ/h) | POWER CONSUMPTION (watts) | RUNNING CURRENT (Amps) | ENERGY EFFICIENCY EER (kJ/hW) |
| **WINDOW TYPE COMPACT INVERTER** | | | | | | | | | | | |
| RA-08HVQ | 0.8 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 33 | 490 x 350 | R410A | 8,800 | 667 | 3.2 | 13.2 |
| RA-10HVQ | 1.0 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 33 | 490 x 350 | R410A | 10,350 | 841 | 4.1 | 12.3 |

## WINDOW TYPE WITH FULL DC INVERTER

| MODEL | HORSEPOWER | INPUT POWER | MOISTURE REMOVAL (L/h) | DIMENSIONS (mm) WxHxD | WEIGHT (kg) | INSTALLATION DIMENSIONS (mm) | REFRIGERANT R410A (g) | COOLING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (WxH) | | CAPACITY (kJ/h) | POWER CONSUMPTION (watts) | RUNNING CURRENT (Amps) | ENERGY EFFICIENCY EER (kJ/hW) |
| **WINDOW TYPE INVERTER** | | | | | | | | | | | |
| RA-08HV | 0.8 | 230 Volts/ Single Phase/60Hz | – | 600 x 400 x 795 | 49 | 620 x 410 | R410A | 9,000 | 621 | 3.0 | 14.5 |
| RA-10HV | 1.0 | 230 Volts/ Single Phase/60Hz | – | 600 x 400 x 795 | 49 | 620 x 410 | R410A | 10,600 | 785 | 3.8 | 13.5 |
| RA-15HV | 1.5 | 230 Volts/ Single Phase/60Hz | – | 600 x 400 x 795 | 49 | 620 x 410 | R410A | 13,000 | 1,048 | 5.1 | 12.4 |
| RA-20HV | 2.0 | 230 Volts/ Single Phase/60Hz | – | 680 x 468 x 840 | 65 | 700 x 478 | R410A | 18,600 | 1,550 | 7.5 | 12.0 |
| RA-23HV | 2.3 | 230 Volts/ Single Phase/60Hz | – | 680 x 468 x 840 | 65 | 700 x 478 | R410A | 22,500 | 1,917 | 9.3 | 11.7 |

## WINDOW TYPE DELUXE

| MODEL | HORSEPOWER | INPUT POWER | MOISTURE REMOVAL (L/h) | DIMENSIONS (mm) WxHxD | WEIGHT (kg) | INSTALLATION DIMENSIONS (mm) | REFRIGERANT R410A (g) | COOLING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (WxH) | | CAPACITY (kJ/h) | POWER CONSUMPTION (watts) | RUNNING CURRENT (Amps) | ENERGY EFFICIENCY EER (kJ/hW) |
| **WINDOW TYPE DELUXE** | | | | | | | | | | | |
| RA-06SR | 0.6 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 28 | 490 x 350 | R410A | 6,400 | 577 | 2.6 | 11.1 |
| RA-08SR | 0.8 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 30 | 490 x 350 | R410A | 8,800 | 752 | 3.3 | 11.7 |
| RA-10SR | 1.0 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 31 | 490 x 350 | R410A | 9,700 | 898 | 4.0 | 10.8 |
| RA-15SR | 1.5 | 230 Volts/ Single Phase/60Hz | – | 600 x 400 x 795 | 50 | 620 x 410 | R410A | 12,800 | 1,143 | 5.3 | 11.2 |
| RA-20SR | 2.0 | 230 Volts/ Single Phase/60Hz | – | 600 x 400 x 795 | 55 | 620 x 410 | R410A | 19,100 | 1,910 | 8.7 | 10.0 |

## HI-LUXE SPLIT TYPE

| MODEL | | HORSEPOWER | INPUT POWER | MOISTURE REMOVAL (L/h) | DIMENSIONS (mm) WxHxD | WEIGHT (kg) | PIPING SIZE (mm) | | REFRIGERANT R410A (g) | COOLING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | LIQUID PIPE | GAS PIPE | | CAPACITY (kJ/h) | POWER CONSUMPTION (watts) | RUNNING CURRENT (Amps) | ENERGY EFFICIENCY EER (kJ/hW) |
| **HI-LUXE SPLIT TYPE** | | | | | | | | | | | | | CSPF (Kwh x Kwh) |
| RAS-28JK | INDOOR UNIT | 1.0 | 230 Volts/ Single Phase/60Hz | 1.8 | 820 x 300 x 240 | 11 | 6.35 | 9.53 | R410A | – | 557 | 2.9(5.0) | 6.85 |
| RAC-28JK | OUTDOOR UNIT | | | | 730 x 600 x 290 | 40 | | | | | | | |
| RAS-40JK | INDOOR UNIT | 1.5 | 230 Volts/ Single Phase/60Hz | 2.8 | 920 x 300 x 240 | 13 | 6.35 | 12.7 | R410A | – | 921 | 4.3(6.7) | 6.19 |
| RAC-40JK | OUTDOOR UNIT | | | | 810 x 685 x 300 | 48 | | | | | | | |
| RAS-50JK | INDOOR UNIT | 2.0 | 230 Volts/ Single Phase/60Hz | 3.4 | 1090 x 300 x 250 | 15 | 6.35 | 12.7 | R410A | – | 1190 | 5.5(8.1) | 5.93 |
| RAC-50JK | OUTDOOR UNIT | | | | 810 x 685 x 300 | 48 | | | | | | | |
| RAS-63JK | INDOOR UNIT | 2.5 | 230 Volts/ Single Phase/60Hz | 4.3 | 1090 x 300 x 250 | 15 | 6.35 | 15.88 | R410A | – | 1556 | 7.2(12.6) | 5.52 |
| RAC-63JK | OUTDOOR UNIT | | | | 880 x 790 x 315 | 55 | | | | | | | |
| RAS-81JK | INDOOR UNIT | 3.0 | 230 Volts/ Single Phase/60Hz | 5.5 | 1090 x 300 x 250 | 15 | 6.35 | 15.88 | R410A | – | 2352 | 10.8(16.6) | 5.41 |
| RAC-81JK | OUTDOOR UNIT | | | | 920 x 885 x 315 | 62 | | | | | | | |
| RAS-90JK | INDOOR UNIT | 3.5 | 230 Volts/ Single Phase/60Hz | 5.8 | 1090 x 300 x 250 | 15 | 6.35 | 15.88 | R410A | – | 2582 | 11.9(16.9) | 5.37 |
| RAC-90JK | OUTDOOR UNIT | | | | 920 x 885 x 315 | 62 | | | | | | | |

## ROYAL SPLIT TYPE

| MODEL | | HORSEPOWER | INPUT POWER | MOISTURE REMOVAL (L/h) | DIMENSIONS (mm) WxHxD | WEIGHT (kg) | PIPING SIZE (mm) | | REFRIGERANT R410A (g) | COOLING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | LIQUID PIPE | GAS PIPE | | CAPACITY (kJ/h) | POWER CONSUMPTION (watts) | RUNNING CURRENT (Amps) | ENERGY EFFICIENCY EER (kJ/hW) |
| **ROYAL SPLIT TYPE** | | | | | | | | | | | | | EER (kJ/hW) |
| RAS-08HT | INDOOR UNIT | 0.8 | 230 Volts/ Single Phase/60Hz | 1.4 | 810 x 300 x 215 | 9 | 6.35 | 9.53 | R410A | 9000(4680-10640) | 581(302-765) | 2.8(1.6-3.6) | 15.50(15.50-13.91) |
| RAC-08HTP | OUTDOOR UNIT | | | | 730 x 600 x 290 | 34 | | | | | | | |
| RAS-10HT | INDOOR UNIT | 1.0 | 230 Volts/ Single Phase/60Hz | 1.78 | 810 x 300 x 215 | 9 | 6.35 | 9.53 | R410A | 11500(4680-12540) | 833(302-1000) | 4.0(1.6-4.7) | 13.80(15.50-12.54) |
| RAC-10HTP | OUTDOOR UNIT | | | | 730 x 600 x 290 | 34 | | | | | | | |
| RAS-15HT | INDOOR UNIT | 1.5 | 230 Volts/ Single Phase/60Hz | 2.8 | 910 x 300 x 215 | 11 | 6.35 | 12.7 | R410A | 15580(4680-18240) | 1066(295-1391) | 4.8(1.4-6.5) | 14.62(15.86-13.11) |
| RAC-15HTP | OUTDOOR UNIT | | | | 730 x 600 x 290 | 38 | | | | | | | |
| RAS-19HT | INDOOR UNIT | 2.0 | 230 Volts/ Single Phase/60Hz | 3.4 | 1080 x 300 x 225 | 13 | 6.35 | 12.7 | R410A | 19000(5760-22800) | 1332(364-1875) | 6.0(1.8-8.4) | 14.26(15.82-12.16) |
| RAC-19HTP | OUTDOOR UNIT | | | | 810 x 685 x 300 | 48 | | | | | | | |
| RAS-24HT | INDOOR UNIT | 2.5 | 230 Volts/ Single Phase/60Hz | 4.3 | 1080 x 300 x 225 | 13 | 6.35 | 15.88 | R410A | 23940(6480-26600) | 1692(434-2456) | 7.6(2.2-11.3) | 14.15(14.93-10.83) |
| RAC-24HTP | OUTDOOR UNIT | | | | 880 x 790 x 315 | 55 | | | | | | | |
| RAS-30HT | INDOOR UNIT | 3.0 | 230 Volts/ Single Phase/60Hz | 4.8 | 1080 x 300 x 225 | 13 | 6.35 | 15.88 | R410A | 28000(6480-30800) | 2000(434-3001) | 10.2(2.2-13.9) | 14.0(14.93-10.26) |
| RAC-30HTP | OUTDOOR UNIT | | | | 880 x 790 x 315 | 55 | | | | | | | |

# GENERAL UNIT DATA

## COMPACT WINDOW TYPE

| MODEL | HORSEPOWER | INPUT POWER | MOISTURE REMOVAL (L/h) | DIMENSIONS (mm) WxHxD | WEIGHT (kg) | INSTALLATION DIMENSIONS (mm) | REFRIGERANT R410A (g) | COOLING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | (WxH) | | CAPACITY (kJ/h) | POWER CONSUMPTION (watts) | RUNNING CURRENT (Amps) | ENERGY EFFICIENCY EER (kJ/hW) |
| NEW WINDOW TYPE COMPACT INVERTER | | | | | | | | | | | |
| RA-06HSV | 0.6 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 33 | 490 x 350 | R410A | 7,000 | 526 | 2.4 | 13.3 |
| RA-08HSV | 0.8 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 33 | 490 x 350 | R410A | 8,800 | 693 | 3.4 | 12.7 |
| RA-10HSV | 1.0 | 230 Volts/ Single Phase/60Hz | – | 470 x 340 x 600 | 33 | 490 x 350 | R410A | 10,100 | 849 | 4.1 | 11.9 |

## MULTI-SPLIT

| Cooling/Heating | | | RAM-50NK | RAM-63NK | RAM-71NK | RAM-83NK | RAM-86NK | RAM-93NK | RAM-108NK | RAM-130NK | RAM-160NK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cooling | | | RAM-50JK | RAM-63JK | RAM-71JK | RAM-83JK | RAM-86JK | RAM-93JK | RAM-108JK | RAM-130JK | RAM-160JK |
| Cooling Capacity | | kW | 5.0 | 6.3 | 7.2 | 8.4 | 8.4 | 9.0 | 10.0 | 13.0 | 16.0 |
| Heating Capacity | | kW | 5.6 | 7.1 | 8.4 | 9.2 | 9.2 | 9.5 | 11.2 | 14.6 | 16.5 |
| Moisture Removal | | L/h | 3.4 | 3.6 | 3.8 | 5.6 | 5.3 | 5.5 | 6.4 | 8.8 | 10.9 |
| Dimension | | mm | W810 (max 906) x H685 x D300 | W880 (max 954) x H790 x D315 | | W920 (max 1016) x H885 x D315 | | | | W1060 (max 1155) x H940 x D370 | W 950(max1030) x H1380 x D370 |
| Running Current | | A | 5.7 (max. 8.0) | 7.9 (max. 12.5) | 9.2 (max. 12.4) | 10.7 (max. 14.4) | 11.5 (max. 16.0) | 11.9 (max. 16.1) | 13.7 (max. 17.3) | 18.1 (max. 23.9) | 21.6 (max 27.2) |
| CSPF | | kWh/kWh | 5.79 | 5.90 | 5.63 | 5.65 | 5.49 | 5.82 | 5.76 | 5.48 | 5.35 |
| Annual Power Consumption | | kWh/Year | 1235 | 1726 | 2000 | 2331 | 2497 | 2595 | 2974 | 3939 | 3552 |
| Efficiency Level | | -- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Piping | Gas Line | mm | 9.53 x 2 | 12.7/9.53 | 12.7 / 9.53 | 12.7 / 9.53 | 12.7 / 9.53 x 2 | 12.7 / 9.53 x 2 | 12.7 / 9.53 x 3 | 12.7 / 9.53 x 3 | 15.88 x 2 / 9.53 x 3 |
| | Liquid Line | mm | 6.35 x 2 | 6.35 x 2 | 6.35 x 2 | 6.35 x 2 | 6.35 x 3 | 6.35 x 3 | 6.35 x 4 | 6.35 x 4 | 6.35 x 5 |
| Wiring Connection to Indoor Unit | | -- | 1.25mm²(stranded wire) x 3 cores, Flat Ring Connector | | | | | | | | |
| Pitch of Installation Holes | | mm | W509 x D335 | W530 X D335 | W530 x D335 | W570 X D335 | W570 X D335 | W570 X D335 | W570 X D335 | W700 X D420 | W600 x D410 |
| Weights | | kg | 48 | 56 | 56 | 63 | 63 | 63 | 63 | 83 | 104 |

## Multi-Split Combination

| Indoor Combination | Models |
|---|---|
| 1 To 2 | RAM-50JK, RAM-63JK<br>RAM-71JK, RAM-83JK<br>RAM-93JK, RAM-108JK<br>RAM-130JK, RAM-160JK |
| 1 To 3 | RAM-86JK, RAM-93JK<br>RAM-108JK, RAM-130JK<br>RAM-160JK |
| 1 To 4 | RAM-108JK, RAM-130JK<br>RAM-160JK |
| 1 To 5 | RAM-160JK |

# GENERAL UNIT DATA

## UTOPIA AIR CONDITIONING SYSTEM

| Model | | | RAC-112SQB | RAC-140SQB | RAC-160SQB |
|---|---|---|---|---|---|
| Indoor Unit | | | 1 | | |
| Power Supply | | | AC 1phase 230V 60Hz | | |
| Outer Dimensions (WxDxH) | | mm | 1,060x370x940 | | |
| Nominal Cooling Capacity | | kW | 11.2 | 14.0 | 16.0 |
| Cooling Power Consumption | | kW | 2.80 | 4.24 | 5.33 |
| EER | | W/W | 4.00 | 3.30 | 3.00 |
| Running Current | 230V | A | 13.5 | 20.5 | 25.8 |
| Starting Current | 230V | A | 13.0 | | |
| Compressor Motor Output | | kW | 3.0 | | |
| Condenser Fan | Air Flow | m3/min | 60 | 72 | 74 |
| | Motor Output | kW(pole) | 0.183(8) | | |
| Main Refrigerant Piping | Gas Line | mm | 15.88(with nut) | | |
| | Liquid Line | mm | 9.53(with nut) | | |
| Net Weight | | kg | 76 | | |
| Sound Pressure Level | | dB(A) | 52 | 57 | 58 |
| Refrigerant | | -- | R410A | | |

Notes:
Data in Specification List is measured according to the following conditions:
- Cooling: Indoor Temperature is 27°C(DB) / 19.0°C(WB) Outdoor Temperature is 35°C(DB)
- Piping Length 7.5m • Piping Lift 0m
- Noise value is measured at 1.5m of distance away from the center portion of unit body.
- Noise value is measured in the anechoic chamber so that reflected sound should be taken into consideration in the field.

## INDOOR UNIT COMBINATIONS

| Indoor Type | | CEILING MOUNTED | | |
|---|---|---|---|---|
| Model Name (Outdoor) | | RAC-112SQB | RAC-140SQB | RAC-160SQB |
| Model Name (Indoor) | | RPC-4.0FSN3 | RPC-5.0FSN3 | RPC-6.0FSN3 |
| Power Supply | | AC 1phase, 220V/60Hz | | |
| Nominal Cooling Capacity | kW | 11.2 | 14.0 | 16.0 |
| Sound Pressure Level (Hi2/Hi/Me/Lo) | dB(A) | 44/42/37/32 | 48/45/41/35 | 49/47/42/36 |
| Outer Dimensions (HxWxD) | mm | 235x1580x690 | | |
| Net Weight | kg (lbs) | 41 | | |
| Cabinet Color | | Neutral White | | |
| Refrigerant | | R410A | | |
| Air Flow Rate (Hi2/Hi/Me/Lo) | m3/min (cfm) | 30/26.5/22/17 (1059/936/777/600) | 35/31/25.5/20 (1236/1095/900/706) | 37/32.5/27/21 (1306/1148/953/742 |
| Motor Output | W | 160 | | |
| Connections Refrigerant Piping | | Flare-Nut Connections (with Flare Nuts) | | |
| Liquid Line | mm(in) | 9.53 | | |
| Gas Line | mm(in) | 15.88 | | |
| Condensate Drain | | VP20 | | |
| Approximate Packing Measurement | m3/min | 0.38 | | |

Notes:
1. The nominal cooling capacity is the combined capacity of the Hitachi standard split system, and is based on the JIS standard B8616
   Cooling Operation Conditions:
   - Indoor Air Inlet Temperature : 27°C DB (80°F DB)
   - 19.0°C WB (66.2°F WB)
   - Outdoor Air Inlet Temperature: 35°C DB (95°F DB) Piping Length: 7.5m Piping Lift: 0m
2. The sound pressure level is based on following conditions:
   - 1.5m Beneath the Unit
   - The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

| Indoor Type | | | CEILING CONCEALED | | |
|---|---|---|---|---|---|
| Model Name (Outdoor) | | | RAC-112SQB | RAC-140SQB | RAC-160SQB |
| Model Name (Indoor) | | | RPI-4.0FSNQH | RPI-5.0FSNQH | RPI-6.0FSNQH |
| Power Supply | | | AC 1phase, 220V/60Hz | | |
| Nominal Cooling Capacity | | kW | 11.2 | 14.2 | 16.0 |
| Sound Pressure Level (Hi/Me/Lo) | | dB(A) | 43/40/36 | 44/41/37 | 45/41/37 |
| Outer Dimensions (WxDxH) | | mm | 900x800x350 | 1300x800x350 | |
| Net Weight | | kg (lbs) | 46 | 58 | |
| Fan Device | Static Pressure (Hi/Std/Lo) | Pa | 120/90 | | |
| | Air Flow Rate (Hi2/Hi/Me/Lo) | m3/min (cfm) | 27/23/19 | 37/31/25 | 38/35/29 |
| | Motor Output | W | 120 | 200 | 280 |
| Main Refrigerant Piping | Gas Line | mm(in) | 15.88 (with nuts)*3 | | |
| | Liquid Line | mm(in) | 9.53 (with nuts) | | |
| Condensate Drain | | | VP25 | | |
| Refrigerant | | | R410A | | |

Notes:
Data in Specification List is measured according to the following conditions:
- Cooling: Indoor Temperature is 27°C(DB) / 19.0°C(WB) Outdoor Temperature is 35°C(DB)
- Piping Length 7.5m • Piping Lift 0m
- Noise value is measured at 1.5m distance away from the center portion of unit body.
- Noise value is measured in a standard state of external static pressure, air filter is blown in back side, and filter is not closed to the unit body. If downward blowing air is fixed, noise value is raised to 5dB. If setting between external static pressure and unit body is not different, noise value may be increased.
- Noise value is measured in the silent room, noise value of local location is raised by installation environment and reflected noise.
- Static pressure is set in a standard state during shipment.

| Indoor Type | | CEILING CASETTE 4-WAY TYPE | | |
|---|---|---|---|---|
| Model Name (Outdoor) | | RAC-112SQB | RAC-140SQB | RAC-160SQB |
| Model Name (Indoor) | | RCI-4.0FSKDNQ | RCI-5.0FSKDNQ | RCI-6.0FSKDNQ |
| Power Supply | | AC 1phase, 240V/50Hz, 220V/60Hz | | |
| Nominal Cooling Capacity | kW | 11.2 | 14.0 | 16.0 |
| Air Flow Speed (HiH/Hi/Me/Lo) | $m^3$/min | 37/31/24/20 | 37/33/26/21 | 37/35/28/22 |
| Fan Motor Type (output) | W | 127 | | |
| Sound Power Level | dB (A) | 64 | 64 | 65 |
| Outer Dimensions (WxDxH) | mm | 840x840x288 | | |
| Net Weight | kg | 26 | | |
| Refrigerant | | R410A | | |
| Refrigerant Pipe Connection | | Flare Nuts | | |
| Liquid Line | mm(in) | 9.52 (3/8) | | |
| Gas Line | mm(in) | 15.88 (5/8) | | |
| Condensate Drain Connection | mm | 32 | | |
| AirPanel Model | | P-N23NA2 | | |
| Color (Munsell Code) | | Neutral White | | |
| Outer Dimensions (WxDxH) | mm | 950x950x40 | | |
| Net Weight | kg (lbs) | 6.5 | | |
| Remote Control | | PC-ARF1 | | |

Notes:
Data in Specification List is measured according to following conditions:
- Cooling : Indoor Temperature is 27°C(DB) / 19.0°C(WB) Outdoor Temperature is 35°C(DB)
- Piping Length 7.5m • Piping Lift 0m
- Noise value is measured at 1.5m distance away from the center portion of unit body.
- Noise value is measured in the anechoic chamber so that reflected sound should be taken into consideration in the field.