

**HITACHI**

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# The AC for people who don't want to think about AC

**air**Home  
400

- No need to think about it
- Cleans & maintains itself year after year
- Automatically removes up to 99% of viruses and pollutants

Cooling & Heating



## An AC solution that cares for itself

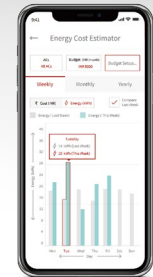
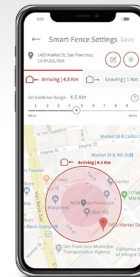
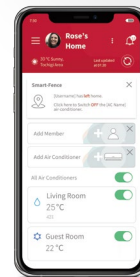


### No need to think about it



#### airCloud Home

- Control your AC from anywhere
- Automatically adjusts the temperature as you arrive home or leave the house
- Monitor energy costs



### Cleans & maintains itself year after year



#### FrostWash

Over time dust and dirt can build up in your AC reducing the amount of air that can flow through it and making it less powerful over time. Hitachi FrostWash technology helps to maintain the performance of your AC for years to come by freezing dust and dirt, heating it and washing it away. Our tests show that systems with FrostWash are 3 times better at maintaining air flow performance than those without this technology<sup>1</sup>.



#### Stops the causes of AC odors

Whenever the unit is switched off, the mold guard function automatically heats internal components to prevent the build-up of mold – the primary cause of those nasty odors



#### Stress-tested

Heat and freezing shock, extreme humidity, torrential rain, voltage surges, lightning strikes, impacts and more... every air conditioner we sell has been tested to the extreme. In addition, our unique SafeGuard System combines electrical and mechanical systems to protect the outdoor unit from extreme weather and voltage fluctuation

### Automatically removes up to 99% of viruses and pollutants

Combining up to 3 different air purification technologies for enhanced effectiveness against pollutants including viruses, bacteria and mold. The pre-filter, air purification filter, and heat exchanger cleaner all work together with up to 99% effectiveness on viruses<sup>2</sup>, up to 99% effectiveness on bacteria<sup>3</sup>, and up to 95% reduction of mold<sup>4</sup>.

VIRUSES

99%<sup>\*2</sup> removal

BACTERIA

99%<sup>\*3</sup> removal

MOLD

99%<sup>\*4</sup> removal

1. Two identical units were tested for comparison; with and without FrostWash. Test chamber simulated approx. 2 years of dust and oil build up which may be experienced in a typical home environment. Airflow performance was tested before and after being in the chamber. Unit without FrostWash experienced a 18% drop in airflow performance. Unit with FrostWash experienced only 6% performance drop. Tested at Johnson Controls-Hitachi Tochigi factory, Japan Nov/Dec. 2021.  
 2. An air conditioner is not a replacement for any COVID control measure recommended by governments or medical professionals. ViroSense Z1 filter shows 99% effectiveness against Influenza A Virus (H3N2) tested at Japan Textile Product Quality and Technology Center using ISO18184 method. FrostWash technology also showed 99% reduction of virus particles on the heat exchanger tested at Kitasato Research Center of Environmental Science.  
 3. Claim refers to the effect of ViroSense Z1 filter (optional on some models) which showed 99% reduction of Staphylococcus aureus NBRC12732 and Escherichia coli NBRC3301 bacteria particles under lab conditions tested at Nissenken Quality Evaluation Center Japan, and also FrostWash technology which showed 99% reduction of bacteria on the heat exchanger tested at Kitasato Research Center of Environmental Science Japan.  
 4. Claim refers to the effect of FrostWash which showed 95% reduction of mold on the heat exchanger tested at Kitasato Research Center of Environmental Science.

Specifications

| Series                        |   | airHome 400                         |                    |                         |                         |                         |                          |                |
|-------------------------------|---|-------------------------------------|--------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------------|
| Model                         | Indoor Unit                               |                                     | RAK-DJ18PHAE       | RAK-DJ25PHAE            | RAK-DJ35PHAE            | RAK-DJ50PHAE            |                          |                |
|                               | Outdoor Unit                              |                                     | RAC-DJ18PHAE       | RAC-DJ25PHAE            | RAC-DJ35PHAE            | RAC-DJ50PHAE            |                          |                |
| CAPACITY & RATING             | Nominal Capacity (Min. - Max.)            | Cooling                             | kW                 | 2.00<br>(0.90 - 2.50)   | 2.50<br>(0.90 - 3.10)   | 3.50<br>(0.90- 4.00)    | 5.00<br>(1.90- 5.20)     |                |
|                               |   | Heating                             | kW                 | 2.50<br>(0.90 - 3.20)   | 3.40<br>(0.90- 4.40)    | 4.20<br>(0.90- 5.00)    | 6.00<br>(2.20- 7.30)     |                |
|                               | Energy Efficiency                         | SEER                                |                    | 7.5                     | 7.5                     | 7.5                     | 7.0                      |                |
|                               |   | SCOP                                |                    | 4.6                     | 4.6                     | 4.6                     | 4.5                      |                |
|                               | Energy Rating (Energy class)              | Cooling                             |                    | A++                     | A++                     | A++                     | A++                      |                |
| Heating                       |   |                                     | A++                | A++                     | A++                     | A+                      |                          |                |
| FEATURES                      | Heating function                          | For winter heating                  |                    | ●                       | ●                       | ●                       | ●                        |                |
|                               | airCloud Home                             | App for remote control & scheduling |                    | ●                       | ●                       | ●                       | ●                        |                |
|                               | FrostWash                                 | Maintains airflow performance       |                    | ●                       | ●                       | ●                       | ●                        |                |
|                               | Mold Guard                                | Prevents build-up of mold           |                    | ●                       | ●                       | ●                       | ●                        |                |
|                               | Smart Eco                                 | Automated power saving              |                    |                         |                         |                         |                          |                |
| Air Purification Technologies | Pre-Filter                                | Filters large particles             |                    | ●                       | ●                       | ●                       | ●                        |                |
|                               | Air Purification Filter                   | ViroSense Z1 filter                 |                    | ●                       | ●                       | ●                       | ●                        |                |
|                               | FrostWash                                 | automatic self-cleaning             |                    | ●                       | ●                       | ●                       | ●                        |                |
|                               | Ionizer                                   | AQtiV-Ion                           |                    |                         |                         |                         |                          |                |
| TECHNICAL SPECS               | Power Supply                              | V / Phase / Hz                      |                    | 220-240V / 1Ph / 50Hz   | 220-240V / 1Ph / 50Hz   | 220-240V / 1Ph / 50Hz   | 220-240V / 1Ph / 50Hz    |                |
|                               | Nominal Cooling Power Input (Min. - Max.) | Watts                               |                    | 0.58<br>(0.25-1.01)     | 0.70<br>(0.25 - 1.29)   | 1.084<br>(0.25 - 1.46)  | 1.548<br>(0.50 - 2.10)   |                |
|                               | Nominal Heating Power Input (Min. - Max.) | Watts                               |                    | 0.595<br>(0.25-0.97)    | 0.85<br>(0.25 - 1.25)   | 1.050<br>(0.25 - 1.70)  | 1.617<br>(0.50 - 2.75)   |                |
|                               | Starting Current (cooling/heating)        | Amps                                |                    | 3.22/3.51               | 3.89/4.53               | 5.38/5.30               | 7.11/7.42                |                |
|                               | Running Current (cooling/heating)         | Amps                                |                    | 1.09-4.39<br>/1.09-4.22 | 1.09-5.61<br>/1.09-5.43 | 1.09-6.35<br>/1.09-7.39 | 2.17-9.13<br>/2.17-11.96 |                |
|                               | Operation Range                           | Cooling                             | °C                 |                         | -10°C ~ 46°C            | -10°C ~ 46°C            | -10°C ~ 46°C             | -10°C ~ 46°C   |
|                               |   | Heating                             | °C                 |                         | -15°C ~ 21°C            | -15°C ~ 21°C            | -15°C ~ 21°C             | -15°C ~ 21°C   |
|                               | Refrigerant                               | Type                                |                    |                         | R32                     | R32                     | R32                      | R32            |
|                               |   | Current Amount                      | kg                 |                         | 0.58                    | 0.58                    | 0.72                     | 0.93           |
|                               | Compressor Type                           |                                     |                    | Rotary                  | Rotary                  | Rotary                  | 2 Cylinder Rotary        |                |
|                               | Diameter of Pipes                         | Liquid                              | Inch               |                         | 1/4"                    | 1/4"                    | 1/4"                     | 1/4"           |
|                               |   | Gas                                 | Inch               |                         | 3/8"                    | 3/8"                    | 3/8"                     | 3/8"           |
|                               | Maximum Pipe Length                       | m                                   |                    | 20                      | 20                      | 20                      | 20                       |                |
|                               | Maximum Piping Elevation                  | m                                   |                    | 10                      | 10                      | 10                      | 10                       |                |
|                               | Dehumidification                          | l / h                               |                    | 1.2                     | 1.4                     | 1.6                     | 2                        |                |
|                               | Indoor Unit                               | Dimension (W×H×D)                   | mm                 |                         | 780×280×222             | 780×280×222             | 780×280×222              | 780×280×222    |
|                               |   | Weight                              | kg                 |                         | 7.7                     | 7.7                     | 7.7                      | 8.4            |
|                               |   | Air Flow (Max.)                     | m <sup>3</sup> / h |                         | 545                     | 620                     | 653                      | 663            |
|                               |   | Sound Power                         | dB(A)              |                         | 51                      | 54                      | 57                       | 60             |
|                               |   | Sound Pressure                      | dB(A)              |                         | 20/24/30/34/38          | 20/25/31/36/41          | 20/28/36/40/44           | 25/31/37/42/47 |
| Outdoor Unit                  | Dimension (W×H×D)                         | mm                                  |                    | 660×530×278             | 660×530×278             | 660×530×278             | 792×600×299              |                |
|                               | Weight                                    | kg                                  |                    | 23                      | 23                      | 24.4                    | 39.1                     |                |
|                               | Sound Power                               | dB(A)                               |                    | 59                      | 61                      | 62                      | 64                       |                |
|                               | Sound Pressure                            | dB(A)                               |                    | 46                      | 48                      | 49                      | 51                       |                |