

HITACHI

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

airHome
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

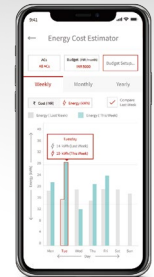
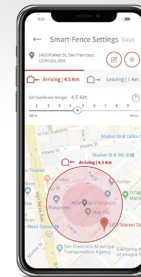
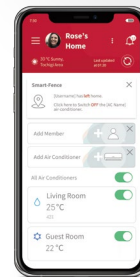


No need to think about it



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 technology¹.



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 viruses², up to 99% effectiveness on bacteria³, and up to 95% reduction of mold⁴.

VIRUSES

99%^{*2} removal

BACTERIA

99%^{*3} removal

MOLD

99%^{*4} 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.

1 SPECIFICATIONS

1.1. WALL TYPE

INDOOR	Unit	RAK-DJ18PHAE	RAK-DJ25PHAE	RAK-DJ35PHAE	RAK-DJ50PHAE
Nominal capacity adjustable		no	no	no	no
Nominal Cooling capacity (min - max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90- 4.00)	5.00 (1.90- 5.20)
Cooling sensible capacity	kW	1.90	2.25	2.70	3.45
Nominal Heating capacity (min - max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90- 4.40)	4.20 (0.90- 5.00)	6.00 (2.20- 7.30)
Noise level cooling (sound pressure) (SL / L / M / H)	dB(A)	20/24/29/33/37	20/24/30/36/40	20/27/35/39/43	28/33/38/42/46
Noise level heating (sound pressure) (SL / L / M / H)	dB(A)	20/24/30/34/38	20/25/31/36/41	20/28/36/40/44	25/31/37/42/47
Noise level (sound power)	dB(A)	51	54	57	60
Air flow cooling mode (SL / L / M / H)	m ³ /h	204/255/384/431/545	204/255/394/513/620	204/302/446/608/653	265/360/528/608/663
Air flow heating mode (SL / L / M / H)	m ³ /h	218/287/446/505/611	218/310/460/569/683	218/407/569/653/773	255/413/528/687/749
Fan Motor	W	18	18	18	38
Dehumidification	l/h	1.2	1.4	1.6	2
Dimensions (H x W x D)	mm	280 x 780 x 222	280 x 780 x 222	280 x 780 x 222	280 x 780 x 222
Weight	kg	7.7	7.7	7.7	8.4
Colour		star white *ZYY8001	star white *ZYY8001	star white *ZYY8001	star white *ZYY8001
Condensate Drain	mm	φ16mm	φ16mm	φ16mm	φ16mm
Running current (C/H)	A	1.09-4.39/1.09-4.22	1.09-5.61/1.09-5.43	1.09-6.35/1.09-7.39	2.17-9.13/2.17-11.96
Power supply		220-240V	220-240V	220-240V	220-240V
Cable section (interconnection)	mm ²	1.50x 3+EARTH/-	1.50x 3+EARTH/-	1.50x 3+EARTH/-	2.50x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"
Drain diameter (ext)	mm	φ16mm	φ16mm	φ16mm	φ16mm
Remote control (standard/optional)		RC-AGU1EA0G/SPX-RCDB	RC-AGU1EA0G/SPX-RCDB	RC-AGU1EA0G/SPX-RCDB	RC-AGU1EA0G/SPX-RCDB
Filter					
ACL Filter Optional		-	-	-	-
ACL part name		-	-	-	-
Pre-filter(Standard/Optional)		WASHABLE/-	WASHABLE/-	WASHABLE/-	WASHABLE/-

NOTE:

1. The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based on the EN 14511.

Operation Conditions		Cooling	Heating
Indoor Air Inlet Temperature	dB	27.0 °C	20.0 °C
	WB	19.0 °C	15.0 °C
Outdoor Air Inlet Temperature	dB	35.0 °C	7.0 °C
	WB	24.0 °C	6.0 °C
Piping Length: 5.0 meters; Piping Lift: 0 meter dB: Dry Bulb; WB: Wet Bulb			

2. The Sound Pressure Level is based on the following conditions:

- 0.8 meter beneath indoor height center
- 1 meter from Discharge grille

The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site

1.2. WALL TYPE

OUTDOOR	UNIT	RAC- DJ18PHAE	RAC- DJ25PHAE	RAC- DJ35PHAE	RAC- DJ50PHAE	
Nominal Cooling capacity (min - max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90- 4.00)	5.00 (1.90- 5.20)	
Nominal Heating capacity (min - max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90- 4.40)	4.20 (0.90- 5.00)	6.00 (2.20- 7.30)	
Nominal cooling power input (min - max)	kW	0.58(0.25-1.01)	0.70 (0.25 - 1.29)	1.084 (0.25 - 1.46)	1.548(0.50 - 2.10)	
Nominal heating power input (min - max)	kW	0.595(0.25-0.97)	0.85 (0.25 - 1.25)	1.050(0.25 - 1.70)	1.617(0.50 - 2.75)	
EER / COP		3.45/4.20	3.57/4.00	3.23/4.00	3.23/3.71	
SEER / SCOP		7.50/4.60	7.50/4.60	7.50/4.60	7.00/4.50	
Energy class (SEER/SCOP)		A++/A++	A++/A++	A++/A++	A++/A+	
Noise level cooling (sound pressure)	dB(A)	45	47	48	50	
Noise level heating (sound pressure)	dB(A)	46	48	49	51	
Noise level (sound power)	dB(A)	59	61	62	64	
Air flow (Cooling / Heating)	m ³ /h	1860 / 1620	1860 / 1620	1860 / 1620	2160 / 2160	
Dimensions (H x W x D)	mm	530x660 x278	530x660 x278	530x660 x278	600x792x299	
Weight	kg	23	23	24.4	39.1	
Colour (Munsell Code)		Beige (5Y7/2)	Beige (5Y7/2)	Beige (5Y7/2)	Beige (5Y7/2)	
Power supply	V/Ph/Hz	220-240V / 1Ph / 50Hz	220-240V / 1Ph / 50Hz	220-240V / 1Ph / 50Hz	220-240V / 1Ph / 50Hz	
Recommended fuse size	A	15	15	15	25	
Starting current(C/H)	A	3.22/3.51	3.89/4.53	5.38/5.30	7.11/7.42	
Running current (C/H)	A	1.09-4.39/1.09-4.22	1.09-5.61/1.09-5.43	1.09-6.35/1.09-7.39	2.17-9.13/2.17-11.96	
Cable section (power)	mm ²	1.50x 2+EARTH	1.50x 2+EARTH	1.50x 2+EARTH	2.50x 2+EARTH	
Cable section (Interconnection)	mm ²	1.50x 3+EARTH	1.50x 3+EARTH	1.50x 3+EARTH	2.50x 3+EARTH	
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"	
Minimum piping length	m	3	3	3	3	
Maximum piping length / height difference	m	20 / 10	20 / 10	20 / 10	20 / 10	
Current quantity of refrigerant / Chargeless	kg	0.58	0.580	0.720	0.930	
Chargeless length / Additional refrigerant charge	m / g/m	20/-	20/-	20/-	20/-	
Working range (cooling / heating)	°C	-10°C—46°C/-15°C—21°C	-10°C—46°C/-15°C—21°C	-10°C—46°C/-15°C—21°C	-10°C—46°C/-15°C—21°C	
Refrigerant		R32	R32	R32	R32	
Condenser Fan		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	
Compressor	Type		ROTARY	ROTARY	ROTARY	2 Cylinder Rotary
	Oil Charge	mL	ACS-68R or equivalent	ACS-68R or equivalent	ACS-68R or equivalent	ACS-68R or equivalent
	Oil Type		320±20	320±20	320±20	480±20
	Coil resistance	Ω	2.084 at 20°C	2.084 at 20°C	2.084 at 20°C	1.354 at 20°C
	Quantity		1	1	1	1

NOTE:

1. The Sound Pressure Level is based on the following conditions:

- 1 meter from the unit front surface and 1 meter from floor level

The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site