

airHome 800

Wall Mounted Inverter Heat Pump

HITACHI

Cutting-edge technologies for premium comfort

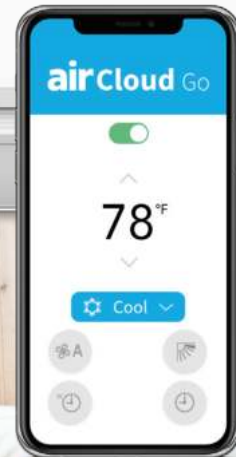
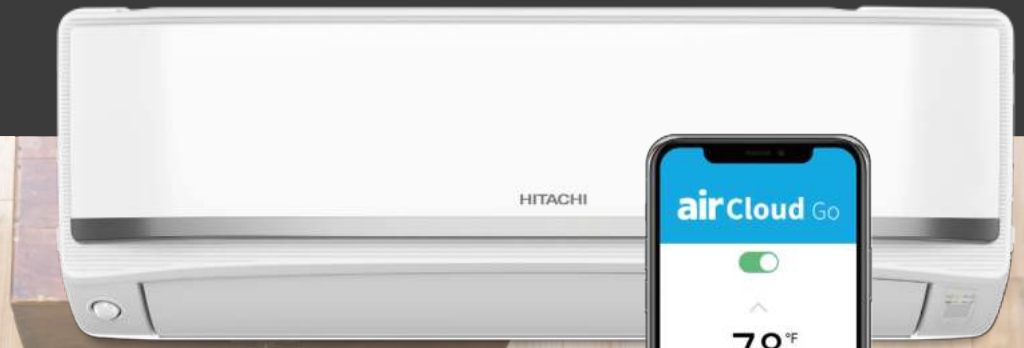
HeatForce

Up to
SEER2
26.5

Up to
EER2
16.1

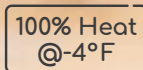


9k to 24k BTU/h



☁️ -4~+114.8° F ☀️ -22~+75.2° F

- 3-in-1: Cool. Heat (even in cold climates). Purify the air.
- Smart automation & eco-friendly performance.
- Latest self-cleaning innovations, including Mold Guard 2.0.



Cooling & Heating

airHome 800

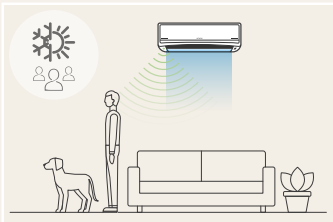
Our premium solution offers superior air and eco-friendly performance. With smart automation, it's the perfect choice for families balancing a busy lifestyle with a commitment to sustainability.



air is smart

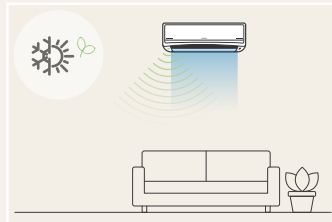
Intelligent built-in motion sensor adapts to your activity

Sustainable savings with **Smart Eco**



When you leave the room

Smart Eco detects when the room is vacant and as a response, only continues the current cooling/heating operation for the next 20 minutes.



Energy Saving Operation begins

After 20 minutes of vacancy, your heat pump automatically switches to a power-saving eco mode. When occupancy returns, it is detected, and returns to the initial operating setting.

Better sleep with SleepSense

SleepSense automatically adjusts the room temperature based on the user's sleeping preference, preventing room temperature fluctuations and reducing energy consumption.

airCloud Go app Connected control from anywhere

- **Smart-Fence**
Automatically adjusts heat pump operation as you leave or arrive at home.
- **Voice command**
Integrate with **Amazon Alexa** and **Google Home**
- **Weekly Timer**
Schedule heat pump operations to align with your routine.
- **Energy Cost Estimator**
Monitor your energy usage and receive alerts when you approach your budget limits.



Included: Wifi adapter for concealed installation inside the unit, to connect your unit to the airCloud Go app.

Also available in the app:
Frost Wash activation & error code display.



air is pure

Our signature features for healthier air

Mold Guard 2.0

Thanks to its intelligent sensors **airHome 800** monitors the humidity & temperature levels inside the unit 24/7/365, while your unit is off.

When it detects specific inner conditions favorable to mold formation, it will automatically heat up the internal coil to completely dry the inside of the indoor unit, killing **potential mold in 10 minutes or less**.

EXCLUSIVE HITACHI



FrostWash 3.0

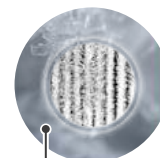
It's proven! Our coolest self-cleaning technology eliminates viruses, bacteria and mold accumulation on the heat exchanger coil. By melting down greasy particles, it also effectively reduces bad odors.

EXCLUSIVE HITACHI

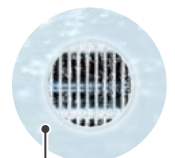
Viruses ¹	Bacteria ²	Mold ³	Pet odors ⁴	Cooking smells ⁵
99.0% removal	99.0% removal	95.0% removal	Effective reduction	



Step 1
Heats the coil to 132.8°F melting greasy particles.



Step 2
Freezing to 5°F trapping dirt and pollutants in ice.



Step 3
Melts leaving your unit clean.

PM2.5 Active Carbon filter

Embedded in the unit, it effectively **removes 99%** of small particles -as small as 2.5um (micron)- after 4.5 hours, offering **anti-VOC properties to deodorize the room**, leaving the air fresh⁶.

Also included: **Stainless pre-filter for extra cleanliness⁵**.



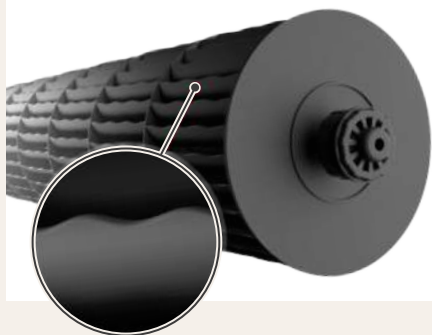
air is premium comfort

Create the perfect atmosphere in all seasons with HeatForce technology



So quiet, you'll forget it's on...

Thanks to its unique wavy blade fans, sound level is reduced to **30dB(A)⁷ in operation.**



Serene cooling in summer

airHome 800 absorbs the heat and keeps the room fresh at your preferred temperature.

For damp days, use the **Dry mode** to silently remove up to **4.5L/hr⁸ of humidity excess.**

Best-in-class heating in cold climates

Your **airHome 800** delivers outstanding heating performance. It even maintains **100% heating capacity** by **-4°F outdoors**, making low-carbon heating reliable for cold climates.

Adaptive Defrost Technology: boosted defrosting with base pan heater during icy conditions.

air is durability

Equipment designed to last

Your outdoor unit takes care of itself!

Exceptional engineering for optimal performance and hassle-free maintenance

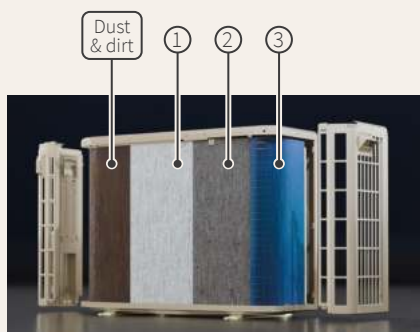


DuraSpin

The first step to cleanliness

With DuraSpin, the fan rotates in the reverse direction to generate a powerful airflow. It expels the large dust particles accumulated on the heat exchanger outside of the unit.

EXCLUSIVE HITACHI



FrostWash for outdoor unit

Our signature self-cleaning process:

① Freezing dust and dirt, ② melting away impurities, leaving your outdoor unit ③ clean ensuring the best performance.

EXCLUSIVE HITACHI

SafeGuard System

Japanese quality built to last



The outdoor units are built with durable metal casings that are both fireproof and anti-rust.

Special anti-corrosion blue coating lengthens condenser life, improving performance and durability.

For cold climates: snow protection accessory is available and recommended.

Manage your heat pump in other ways



SPX-URFG1 (optional)

Also compatible with:

- **airPoint Room H700** advanced colored wall-mount controller (SPX-URFG1).
- 3rd party thermostat via 5-wire connection.

airHome 800 uses R32 refrigerant



R32 refrigerant meets the new carbon reduction regulation thanks to its lower global warming potential. It is safe and very energy efficient.

With **airHome 800**, you choose state-of-the-art comfort while investing in a **sustainable future.**

Best-in-class Hitachi quality

- The **airHome** series heat pumps are stress-tested for extreme conditions and electrical shocks ensuring your safety at home.
- 100% of indoor and outdoor units pass functional testing at the end of production to avoid any critical failures.

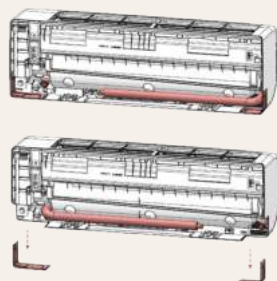
airHome 800

Indoor Model No		RAK-XJ09PHAA	RAK-XJ12PHAA	RAK-XJ18PHAA	RAK-XJ24PHAA	
Outdoor Model No		RAC-XJ09WHAA	RAC-XJ12WHAA	RAC-XJ18WHAA	RAC-XJ24WHAA	
Performance	System Type	Heat Pump				
	Rated Cooling Capacity	BTU/h	9,500	12,500	18,000	22,000
	Cooling Capacity (Min-Max)	BTU/h	4,500 - 12,000	5,000 - 14,000	6,800 - 22,000	9,000-28,000
	Rated Heating Capacity	BTU/h	12,000	13,500	21,600	25,400
	Heating Capacity (Min-Max)	BTU/h	3,800 - 15,800	4,700 - 19,000	8,800 - 28,000	13,000-34,000
	EER2		16.1	14.5	14.0	12.5
	SEER2		26.5	25.0	21.5	21.0
	HSPF2		12.0	11.5	11.5	11.0
	COP at 47°F		4.0	3.12	4.2	4.0
	COP at 17°F		2.9	2.9	2.2	2.2
	COP at 5°F		2.1	2.1	2.06	1.9
	Rated Heating Capacity at 17F (-8 C)	BTU/h	8,000	11,000	16,000	16,000
	Max. Heating Capacity at +5°F (-15°C)	BTU/h	14,000	15,200	23,000	27,000
	Max. Heating Capacity at -4°F (-20°C)	BTU/h	12,000	13,500	21,600	25,500
	Max. Heating Capacity at -13°F (-25°C)	BTU/h	8,500	10,500	16,000	20,000
	Max. Heating Capacity at -22°F (-30°C)	BTU/h	5,500	6,000	12,960	15,000
Moisture Removal	L/h	2.1	3.0	4.0	4.5	
Electrical Data	Rated Voltage	V-Ph-Hz	230-1-60	230-1-60	208/230-1-60	208/230-1-60
	MCA	Amps	14	14	20	20
	MOP	Amps	25	25	35	35
Indoor Unit	Airflow (HH/H/M/L/SL) - Cool	CFM	460 / 410 / 350 / 290 / 250	400 / 385 / 340 / 300 / 270	580 / 550 / 500 / 400 / 300	600 / 580 / 500 / 400 / 300
	Airflow (HH/H/M/L/SL) - Heat	CFM	460 / 420 / 320 / 270 / 220	460 / 430 / 350 / 300 / 220	700 / 700 / 580 / 450 / 350	700 / 700 / 580 / 450 / 350
	Sound Pressure Level (HH/H/M/S/SL)-Cool	dB(A)	46 / 44 / 39 / 34 / 30	48 / 46 / 41 / 34 / 30	52 / 52 / 47 / 43 / 36	52 / 52 / 47 / 43 / 36
	Sound Pressure Level (HH/H/M/S/SL)-Heat	dB(A)	45 / 43 / 38 / 34 / 30	48 / 46 / 40 / 34 / 30	52 / 52 / 47 / 43 / 36	52 / 52 / 47 / 43 / 36
	Unit Dimension (WxHxD)	inch (mm)	41.33x11.73x10.03 (1,050x294x255)	41.33x11.73x10.03 (1,050x294x255)	43.3x11.8x10.2 (1,100x300x260)	43.3x11.8x10.2 (1,100x300x260)
Net / Gross Weight	lbs (kg)	30.07 / 37.48 (14.0 / 17.0)	30.07 / 37.48 (14.0 / 17.0)	33.1 / 37.5 (15.0 / 17.0)	33.1 / 37.5 (15.0 / 17.0)	
Outdoor Unit	Operation Range - Cooling	°F (°C)	-5 to 114.8 (-20 to 46)	-5 to 114.8 (-20 to 46)	-5 to 114.8 (-20 to 46)	-5 to 114.8 (-20 to 46)
	Operation Range - Heating	°F (°C)	-22 to 75.2 (-30 to 24)	-22 to 75.2 (-30 to 24)	-22 to 75.2 (-30 to 24)	-22 to 75.2 (-30 to 24)
	Refrigerant		R32	R32	R32	R32
	Sound Pressure Level (High)	dB(A)	52	52	54	55
	Unit Dimension (WxHxD)	inch (mm)	33.46x25.59x11.73 (850x650x298)	33.46x25.59x11.73 (850x650x298)	37.4x37.2x14.6 (950x945x370)	37.4x37.2x14.6 (950x945x370)
Net / Gross Weight	lbs (kg)	91.0 / 97.5 (41.0 / 44.0)	91.0 / 97.5 (41.0 / 44.0)	163 / 172 (74 / 78)	168 / 179 (76 / 81)	
Piping	Max Total Piping Length	Ft (m)	100 (30)	100 (30)	164 (50)	164 (50)
	Max Total Piping Height	Ft (m)	65.6 (20)	65.6 (20)	98 (30)	98 (30)
	Factory Charge	lbs (kg)	2.65 (1.2)	2.65 (1.2)	4.12 (1.87)	4.85 (2.20)
	Max Charge	lbs (kg)	2.98 (1.35)	2.98 (1.35)	5.05 (2.29)	6.78 (3.075)
Piping Connection	Piping Connection - Liquid	inch	1/4	1/4	1/4	3/8
	Piping Connection - Gas	inch	3/8	3/8	1/2	5/8
	Piping Connection - Drain	inch	5/8	5/8	5/8	5/8

Easy to install & service

Here are 10 key features of the indoor units:

1. Removeable side covers to access pipe & condensate drain¹⁰
2. Left or right flexible connection of the condensate drain
3. Removable drain pan⁹
4. Detachable fan motor's support
5. Large installation plate¹⁰
6. Ribbed inner surface to prevent risk of condensate leaks¹⁰
7. Enlarged suction area for better performance¹⁰
8. Easy-to-remove front cover (2-3 screws)
9. New cap on deflectors for durable opening/closing¹⁰
10. Dedicated Thermistor placing for more accuracy



Hitachi Equipment Warranty - We have you covered

Enjoy the best protection in the industry with our factory-backed warranties.

Standard WARRANTY



COMPRESSOR PARTS

Extended WARRANTY



COMPRESSOR PARTS

Requires online registration. Available for installations in residential applications at no additional cost.

Enhanced extended WARRANTY



Safety option

COMPRESSOR PARTS LABOR

Requires online registration and purchase of warranty upgrade. Available for installations in residential applications.

Grants/subsidies



Consortium for Energy Efficiency



Northeast Energy Efficiency Partnerships



1. 2. 3. Tested by Kitasato Research Center of Environmental Science. Test No. 2020_0650. Test model: RAS-X22K Reduction effects of virus, bacteria and mold was observed by operating FroshWash™ once.
4. 5. Tested by Kitasato Research Center of Environmental Science. Test 2020_0201. Test model: RAS-X22K Reduction effects on cooking odor were observed by operating FroshWash™.
6. According to JEM1467 (The Japan Electrical Manufacturers' Association), tested on RAS-VJ24CLT model in a test room of 25m³. PM2.5

particle removal effect of 99% was observed in 300min. Tested at Johnson Controls-Hitachi Tochigi factory, Japan (2020).

7. Applies to RAK-XJ09PHAA and RAK-XJ12PHAA models in silent mode.
8. Applies to RAC/RAK-XJ24PHAA model. Models of lower capacity have lower dehumidifying capacity.
9. Not available in small-size chassis of models RAK-GJ09PHAA and RAK-GJ12PHAA.
10. Not available in the largest size chassis of RAK-GJ24PHAA.

Johnson Controls-Hitachi Air Conditioning North America LLC

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HITACHI LIVE SUPPORT

844-873-4445 Option 1 Option 2 Option 3
Customer service Technical support Warranty

Hours of operation

Monday to Friday, 6:00 am to 6:00 pm CST

www.hitachiircon.com/us