



Air Conditioning & Heating

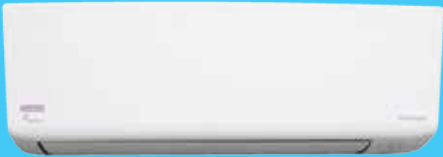
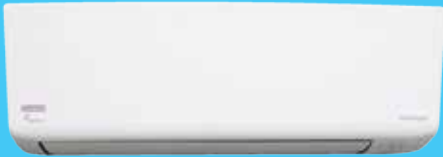
R410A Inverter Wall Mounted Heatpump



FTXNG-A Series

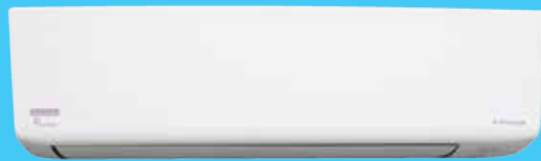


Product Line-up for R410A Inverter

Class	09	12
Indoor	 FTXNG09AXVJU	 FTXNG12AXVJU
Outdoor	 RXNG09AXVJU	 RXNG12AXVJU

Wall Mounted Heatpump

18



FTXNG18AXVJU



RXNG18AXVJU

FTXNG-A Series

Indoor Unit

Floating Dual Panel

A borderless panel concept with extension to side, highlighting concept of "Freedom to Pursue".

Gradual Curved Side Edges

Soft curved edges, that gives a more approachable appearance.

Spray Paint Touch Up

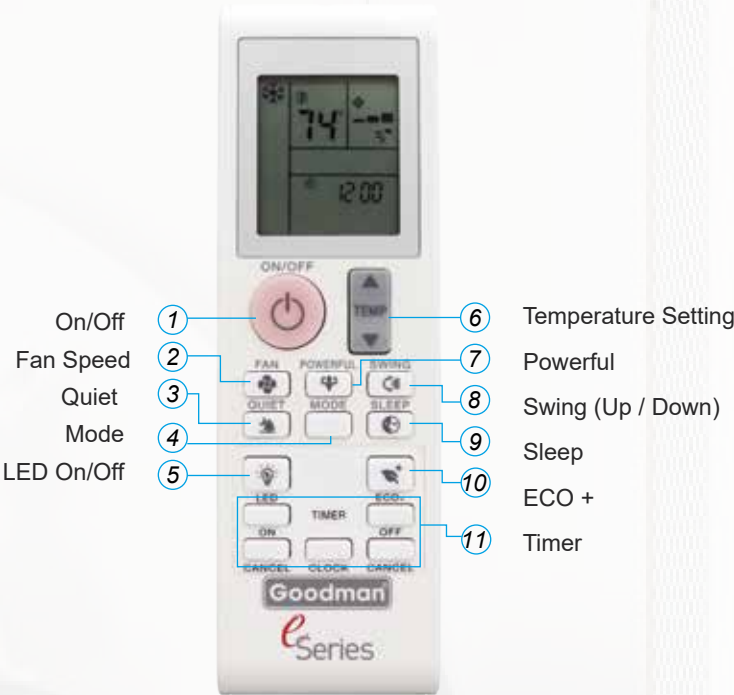
A metallic silver finishing on the side that give it that extra shine.

Minimalistic LED Ring Indication



Wireless Handset

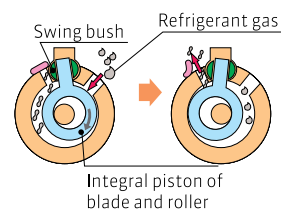
Heatpump (BRC52B67)





Swing Compressor

Thanks to its smooth rotation, the swing compressor decreases friction and vibration. It also prevents the leakage of refrigerant gas during compression. These advantages provide quiet and efficient operation.



The swing compressor can reduce operational vibration and sound because its piston moves smoothly inside the compressor.



What is Inverter technology?

Inverter system ensures faster cooling with significant energy saving. Moreover, it helps to maintain consistent temperature in the room, makes you feel comfortable all the time especially when you are sleeping.



DC Inverter

DC Inverter models are equipped with the Reluctance DC motor for compressors. The Reluctance DC motor uses 2 different types of torque, neodymium magnet¹ and reluctance torque². This motor saves energy by generating more power with a smaller electric current than AC or conventional DC motors. It is more efficient at the low frequencies most commonly used by air conditioners³.



Neodymium magnets are used in the pink-coloured area.

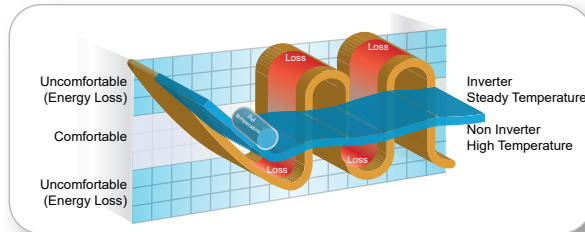
1. A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
2. The torque created by the change in power between the iron and magnet parts.
3. The frequency range used by air conditioners during periods of stable operation. This is the range in which air conditioners operate for the longest periods.



Advantages of Inverter technology

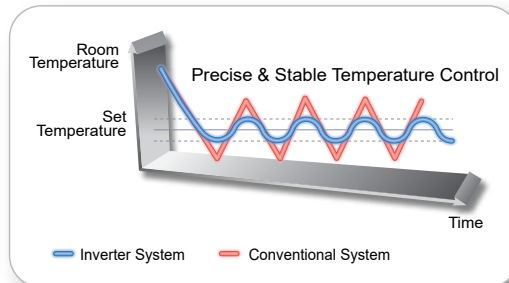
- Superior comfort
- Higher efficiency
- Powerful operation
- Better energy savings

Fixed speed (non-inverter) systems operate by compressor start-stop cycles which consumes more energy and have higher variance of the room temperature.



Flexible performance, rapid response time

After quickly reaching set temperature, the inverter system constantly adjusts and fine-tunes the cooling capacity to prevent undesired temperature swings. Room comfort level is constantly maintained even when the number of people in the room increases or decreases.



Flexible Installation

The extended piping length promotes flexible installation

Model	Pre-charge Length, ft (m)	Max. Piping Length, ft (m)	Max. Piping Elevation, ft(m)
FTXNG09AXVJU RXNG09AXVJU	32-13/16 (10)	65-5/8 (20)	32-13/16 (10)
FTXNG12AXVJU RXNG12AXVJU	32-13/16 (10)	65-5/8 (20)	32-13/16 (10)
FTXNG18AXVJU RXNG18AXVJU	32-13/16 (10)	98-1/2 (30)	32-13/16 (10)

Note:

Additional refrigerant is required if the piping is longer than the pre-charge length.

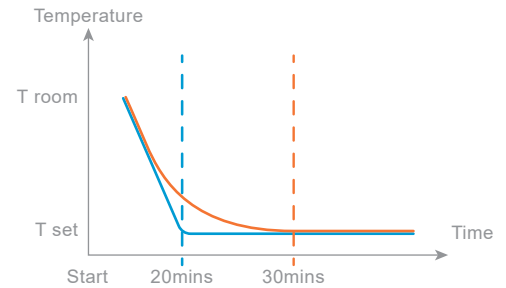
For details, kindly refer to the installation manual.

Lifestyle Convenience



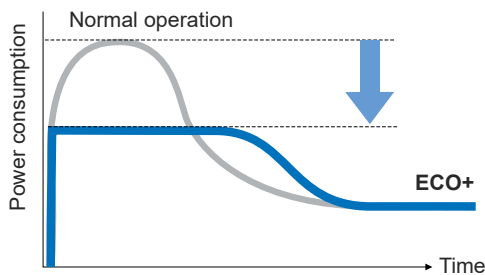
Powerful operation

Once activated, this feature will engage the indoor fan motor to run at maximum speed for 20 minutes. The turbo airflow enables the desired temperature to be achieved faster, especially in larger spaces.



ECO+

An intelligent feature that ensures optimum energy consumption while fulfilling basic human comfort needs. Once activated, set temperature will be adjusted automatically to an eco-friendly level while limiting the maximum power consumption.

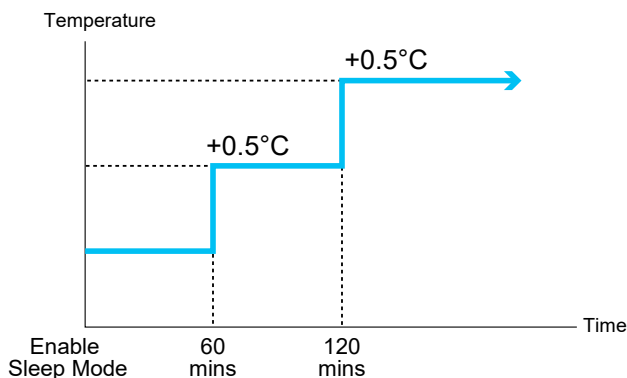


More time is required to reach set temperature after activating ECO+ mode.



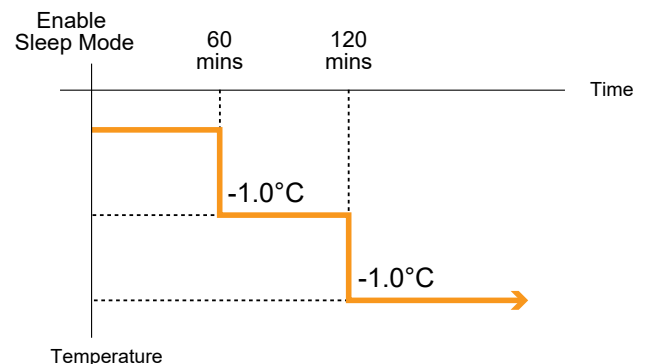
Sleep mode

Pressing the Sleep button activates the Sleep Mode. This function prevents excessive cooling/heating for a pleasant sleep.



Cooling operation:

- 1) After 60 minutes, room temperature is raised by 0.5°C.
- 2) After 120 minutes, room temperature is raised by another 0.5°C.



Heating operation:

- 1) After 60 minutes, room temperature is reduced by 1°C.
- 2) After 120 minutes, room temperature is reduced by another 1°C.



Auto adjustment of LED display intensity provide user a sleeping environment with minimum disturbance.

Cleanliness



Catechin Filter

This filter is infused with catechin extracted from green tea. This substance deactivate bacteria and virus captured on the filter surface. On top of that, this substance stop any mildew grow on the filter surface.



Titanium Apatite Deodorizing Filter

Titanium apatite filter is a filter with advanced adsorption power and effectively deodorizing odours. The filter delivers consistent performance for approximately 3 years if washing with water is performed once every 6 months.

Function List

Series		
Functions		
		DC Inverter Control
Comfort Airflow		Power-Airflow Flap
		Power-Airflow Dual Flaps
		Wide-Angle Louvers
		Vertical Auto-Swing (up and down)
Comfort Control		Indoor Unit Quiet Operation
		Automatic Operation
		Auto Fan Speed
		Programme Dry Function
Lifestyle Convenience		Inverter Powerful Operation
		ECO+ Function
		Sleep Mode
		Wireless Remote Controller with Backlight
Cleanliness		Wireless Remote Controller with Luminous Button
		Indoor Unit On/Off Switch
		LED Display On/Off
		Titanium Apatite Deodorising Filter
Timers		Catechin Air Filter
		Wipe-Clean Flat Panel
		Removable Drain Pan
		24 Hour On/Off Timer
Worry Free		Auto-Restart after Power Failure
		Self-Diagnosis with Digital Display
		Anticorrosion Treatment of Outdoor Heat Exchanger

Note: ● : Available
 - : Not Available

Product Features

Lifestyle Convenience



Indoor Unit On/Off Switch

The unit can be conveniently started by hand if the wireless remote controller is misplaced or its batteries are not charged.



Wireless Remote Controller with Luminous Button

The luminous button absorbs and saves light and then slowly releases it. This makes it easy to see in the dark.



Inverter Powerful Operation

This function boosts cooling or heating performance for a 20 minutes period. It is convenient when it is necessary to change the room temperature quickly.



ECO+ Function

An intelligent feature that ensures optimum energy consumption while fulfilling basic human comfort needs. Once activated, set temperature will be adjusted automatically to an eco-friendly level while limiting the maximum power consumption.



Sleep Mode

Unwind at the end of the day with Sleep Mode, which gradually adjust set temperature according to regular sleeping temperature patterns and auto adjust the LED display intensity for an effortlessly personalised sleeping environment.



Wireless Remote Controller with Backlight

The backlit LCD allows easy operation in the dark, convenient for users to identify the functions activated.



LED Display On/Off

The LED Display on unit can be conveniently turned off with the touch of a single button to ensure zero light disturbance.

Worry-Free



Auto-Restart after Power Failure

The air conditioner memorises the settings for operation mode, fan speed and temperature setting and automatically returns to them when power is restored after a power failure.



Self-Diagnosis with Digital Display

Malfunction codes can be retrieved and shown on the digital display panel of the wireless remote controller for fast and easy maintenance.

Comfort Airflow



Power-Airflow Flap

The Power-Airflow Flap flattens out during cooling operation to deliver cool air to the corners of a room.



Power-Airflow Dual Flap

The Power-Airflow Dual Flaps can flatten out during cooling operation to deliver cool air to the corners of a room.



Wide-Angle Louvers

The Wide-Angle Louvers provide wide airflow coverage for effective operation no matter where the indoor unit is placed in a room.



Vertical Auto-Swing (up and down)

This function automatically moves the flaps up and down to distribute air across a room.

Comfort Control



Auto Fan Speed

The microprocessor automatically adjusts the fan speed to high to rapidly reach the set temperature. Once the temperature is achieved, this function reduces the fan speed to low.



Indoor Unit Quiet Operation

Indoor unit operating sound pressure levels are decreased from the Low setting fan speed using the wireless remote controller.



Programme Dry Function

The computer chip works to rid the room of humidity while keeping the room temperature as stable as possible. It controls the temperature and airflow rate automatically, so manual adjustment of these functions is not available.



Automatic Operation

This function automatically selects cooling or heating operation mode based on the room temperature at startup.

Timer



24 Hour On/Off Timer

Cleanliness



Titanium Apatite Deodorising Filter

This filter contains titanium apatite. While the filter's micron-level fibres trap dust, the titanium apatite adsorbs odours and allergens, as well as deodorises odours. The filter can be used for up to three years with proper maintenance.



Catechin Air Filter

This filter is infused with catechin extracted from green tea. This substance deactivate bacteria and virus captured on the filter surface. On top of that, this substance stop any mildew grow on the filter surface.



Wipe-Clean Flat Panel

The flat panel design can be cleaned with only the single pass of a cloth across its smooth surface. The flat panel can also be easily removed for more thorough cleaning.



Removable Drain Pan

The drain pan collects condensation from the indoor heat exchanger fins. Removable drain pans help to reduce the cleaning time and ensure a better serviceability.

Specifications



FTXNG09/12A



FTXNG18A



RXNG09/12A



RXNG18A

Heatpump

Class			09	12	18
Model Name	Indoor		FTXNG09AXVJU	FTXNG12AXVJU	FTXNG18AXVJU
	Outdoor		RXNG09AXVJU	RXNG12AXVJU	RXNG18AXVJU
Rated Cooling Capacity (Min ~ Max)		Btu/hr	8,800 (4,400 - 10,200)	11,000 (4,400 - 13,300)	18,000 (6,700 - 20,000)
		kW	2.57 (1.30 - 3.00)	3.22 (1.30 - 3.90)	5.27 (1.96 - 5.86)
Rated Heating Capacity (Min ~ Max)		Btu/hr	9,400 (4,400 - 13,000)	11,300 (4,400 - 16,400)	17,900 (5,800 - 22,500)
		kW	2.75 (1.30 - 3.80)	3.31 (1.30 - 4.81)	5.24 (1.70 - 6.60)
Rated Power Input	Cooling	W	800	1294	1714
	Heating	W	774	1004	1590
Rated EER2		Btu/hr/W	11.0	8.5	10.5
		W/W	3.22	2.49	3.08
Rated COP		Btu/hr/W	12.15	11.26	11.26
		W/W	3.56	3.30	3.30
SEER			18.0	18.0	18.0
HSPF			9.0	9.0	8.5
Power Supply		(V/pH/Hz)	208/230/1/60		
Maximum Piping Length		ft (m)	65-5/8 (20)	65-5/8 (20)	98-1/2 (30)
Maximum Piping Elevation		ft (m)	32-13/16 (10)	32-13/16 (10)	32-13/16 (10)
Chargeless		ft (m)	32-13/16 (10)	32-13/16 (10)	32-13/16 (10)
Piping Connections	Liquid	inch (mm)	1/4 (6.4)	1/4 (6.4)	1/4 (6.4)
	Gas	inch (mm)	3/8 (9.5)	3/8 (9.5)	1/2 (12.7)
Operating range - Cooling		°F (°C)	50 - 114.8 (10 - 46)	50 - 114.8 (10 - 46)	50 - 114.8 (10 - 46)
Operating range - Heating		°F (°C)	5 - 64.4 (-15 - 18)	5 - 64.4 (-15 - 18)	5 - 64.4 (-15 - 18)
Operating range - Ambient Cooling		°F (°C)	5 - 114.8 (-15 - 46)	5 - 114.8 (-15 - 46)	5 - 114.8 (-15 - 46)
Indoor Unit					
Unit Dimension	H	inch (mm)	11-1/3 (288)	11-1/3 (288)	11-11/16 (297)
	W	inch (mm)	30-5/16 (770)	30-5/16 (770)	39-9/16 (990)
	D	inch (mm)	9-3/16 (234)	9-3/16 (234)	10-3/4 (273)
Sound Pressure Level (T/H/M/L/SL)	Cooling	dBA	45/43/36/29/19	48/45/37/31/19	50/48/43/37/33
	Heating		45/42/35/29/25	47/43/36/30/26	49/46/41/36/33
Airflow (T/H/M/L/SL)	Cooling	CFM	466/431/322/249/142	473/436/316/247/132	754/716/605/467/395
	Heating		466/402/322/249/219	473/412/316/247/210	754/716/605/467/395
Unit weight		lbs (kg)	20.3 (9.2)	21.4 (9.7)	31 (14)
Outdoor Unit					
Unit Dimension	H	inch (mm)	21-11/16 (550)	21-11/16 (550)	27-13/32 (696)
	W	inch (mm)	26-1/2 (675)	26-1/2 (675)	36-5/8 (930)
	D	inch (mm)	11-3/16 (284)	11-3/16 (284)	13-13/16 (351)
Sound Pressure Level (H)	Cooling	dBA	46	48	53
	Heating		48	48	53
Unit weight		lbs (kg)	55 (25)	62 (28)	97 (44)

Remarks:

1. Due to product innovation, all specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested according to AHRI 210/240 Standard.
3. Nominal cooling capacity are based on the conditions: 80°F (26.7°C) DB / 67°F (19.4°C) WB indoor and 95°F (35°C) DB outdoor.
4. Nominal heating capacity are based on the conditions: 70°F (21.1°C) DB indoor and 47°F (8.3°C) DB / 43°F (6.1°C) WB outdoor.

NOTES

[illegible]

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