

## FOUR Indoor Unit Options

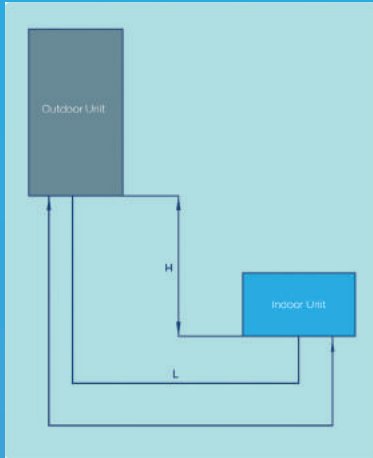
The indoor units come in four options: the 4-Way Ceiling Cassette Type, Ceiling Mounted Type, Inverter Slim Type and In-the-Ceiling Type.



## 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	Φ15.88	Φ15.88
		Outdoor	Φ15.88	Φ15.88
	Liquid	Indoor	Φ6.35/Φ9.53	Φ6.35/Φ9.53
		Outdoor	Φ9.53	Φ9.53

### GENERAL UNIT DATA

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	ψ 15.88(with nut)		
	Liquid Line	mm	ψ 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.

Come Home to  
Better Comfort

## 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.

Uncompromised  
Energy-Efficiency  
in Compact Size

UTOPIA AIR CONDITIONING SYSTEM



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ABOUT  
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5 YEAR  
WARRANTY  
ON COMPRESSOR

## UTOPIA AIR CONDITIONING SYSTEM

- 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.



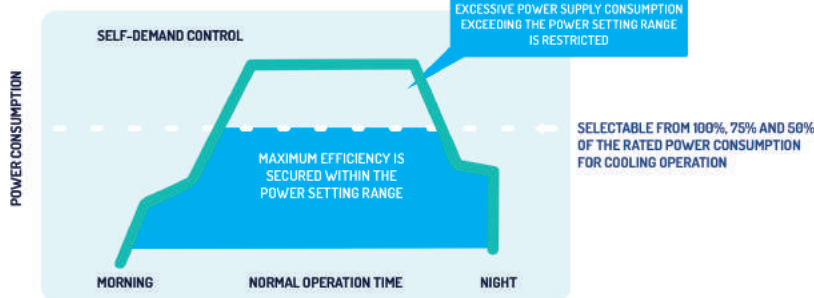
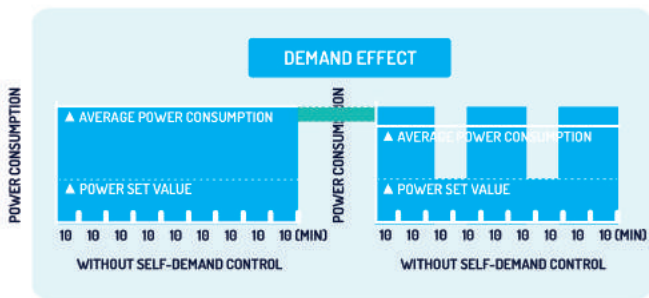
### REVOLUTIONARY R410A REFRIGERANT

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.



### 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.

### 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)	ø9.53		
Gas Line	mm(in)	ø15.88		
Condensate Drain		VP20		
Approximate Packing Measurement	m3/min	0.38		

- Notes:
- 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
  - 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)	ø15.88 (with nuts)*3		
	Liquid Line	mm(in)	ø9.53 (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 Cassette 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 1 Ø 240V 50Hz, 220V 60Hz		
Nomical Cooling Capacity		kW	11.2	14.0	16.0
Air Flow	Speed (HiH/Hi/Me/Lo)	m <sup>3</sup> /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 Dimension (HxWxD)		mm	288x840x840		
Net Weight		kg	26		
Refrigerant			R410A		
Refrigerant pipe connection			Flare Nuts		
Liquid Line		mm (in)	Ø9.52(3/8)		
Gas Line		mm (in)	Ø15.88 (5/8)		
Condensate Drain Connection		mm	Ø32 <sup>(1)</sup>		
Air Panel Model			P-N23NA2		
Colour (Munsell Code)			Neutral White		
Outer Dimension (HxWxD)		mm	40x950x950		
Net Weight			6.5		
Remote Control			PC-ARF1		

The data obtained is based on the operating conditions described in "Considerations".

Notes:

- 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)  
\*1) 19.5°C WB (67°F WB)  
\*2) 19.0°C WB (66.2°F WB)  
35°C DB (95°F DB)
    - Outdoor Air Inlet Temperature 35°C DB (95°F DB)
  - Heating Operation Conditions:
    - Indoor Air Inlet Temperature 20°C DB (68°F DB)
    - Outdoor Air Inlet Temperature 7°C DB (80°F DB)  
6°C WB (43°F WB) Piping Lift: 0 Meter
    - Piping Length: 7.5 Meters
- The sound pressure level is based on the following conditions:
  - 1.5 Meters beneath the unit.
  - The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

