

Come Home to  
**Better Comfort**

Space-Saving Convenience.  
Energy-Saving Performance.

INVERTER SLIM TYPE PACKAGE

SLIM TYPE PACKAGE



ENVIRONMENT FRIENDLY  
REFRIGERANT



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Specifications in this catalog are subject to change without prior notice to keep abreast with continuous product innovations for our customers' benefit.

RPSL-2001



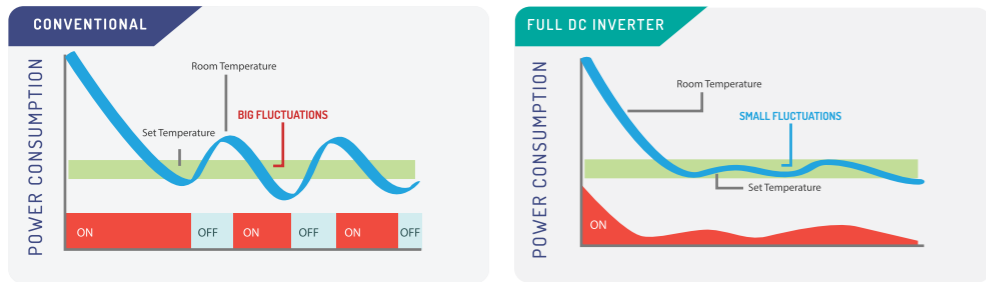
# More Is Better. Choose Full DC Inverter

Hitachi Air Conditioners with Full DC Inverter Technology have not just one or two, but THREE INVERTER COMPONENTS—Compressor, Fan Motor and Inverter Module. Working in perfect harmony, these innovations provide absolute cooling comfort more efficiently while consuming the least amount of power possible. So you get more savings on your electricity bill!!

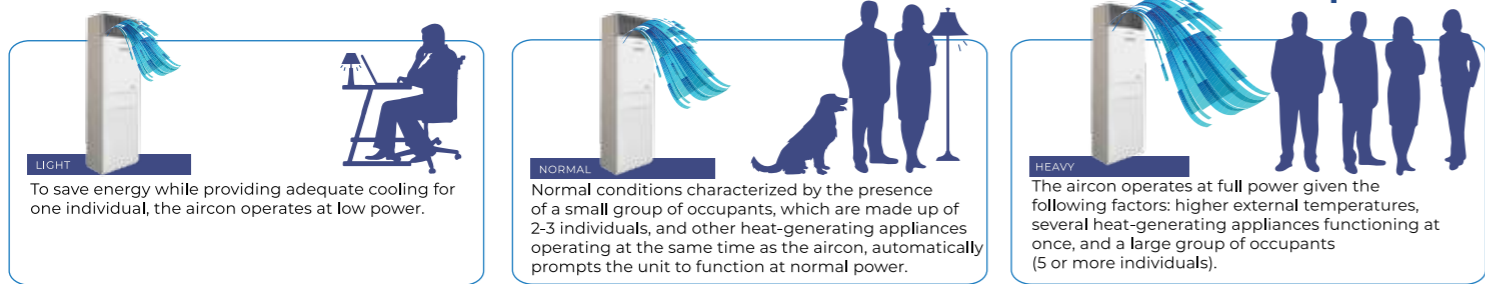


## Efficiency in Flexibility

Other aircon brands usually function at a pre-set temperature, causing the compressor to turn on and off. The units' incapacity to adjust power use as needed leads to wastage. Hitachi air conditioners, however, are different. Built with an exceptional energy-saving capacity, they automatically adjust internal settings, which prevent power wastage while assuring total cooling comfort at all times.



### COOLING FLEXIBILITY



THREE WORLD CLASS INNOVATIONS.  
ONE NAME IN AIR CONDITIONING.



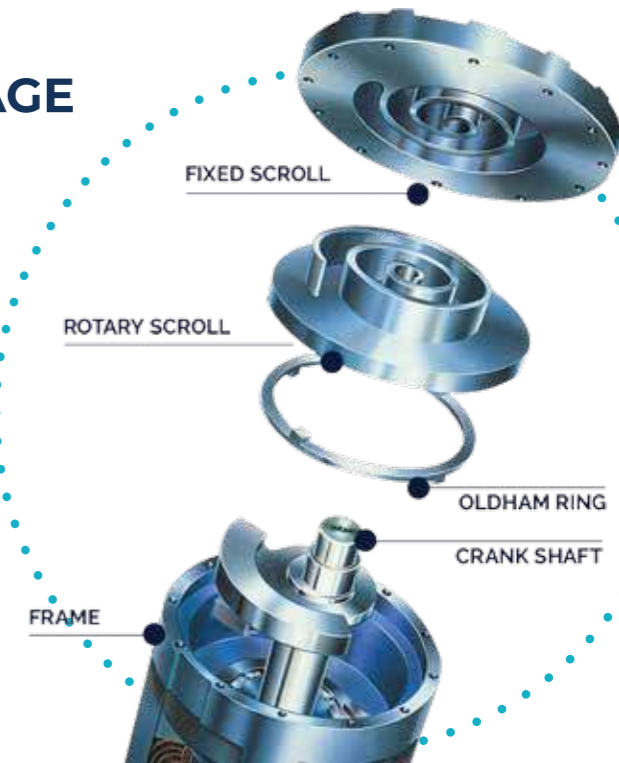
Japanese Technology, Taiwanese Design and Filipino Craftsmanship---  
Three great world-class innovations brought together to create one exceptional air conditioner.

## INVERTER SLIM TYPE PACKAGE

EXCEPTIONAL COOLING PERFORMANCE.  
LESS POWER CONSUMPTION.

### HIGH EFFICIENCY SCROLL COMPRESSOR

Hitachi's patented scroll compressor generates quick cooling, less vibrations and lower energy for virtually uninterrupted cooling operation.



### PAM FREQUENCY CONTROLLER

Uses minimal electricity in prompting the unit to reach the setup temperature more quickly.

### SELF-DEMAND CONTROL

Automatically adjusts power use according to the user's preferred operation mode.

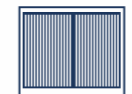
### NEW WAVE MODE

Turns the unit on or off automatically at intervals to further reduce power consumption.

### OTHER FEATURES:



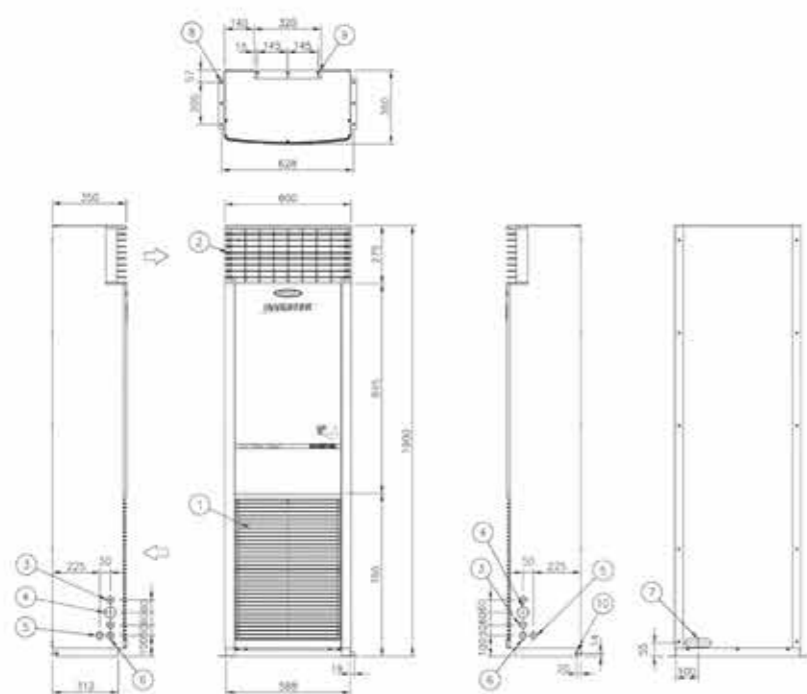
LONG PIPING INSTALLATION (UP TO 75M)



AION FILTER FOR CLEANER AIR



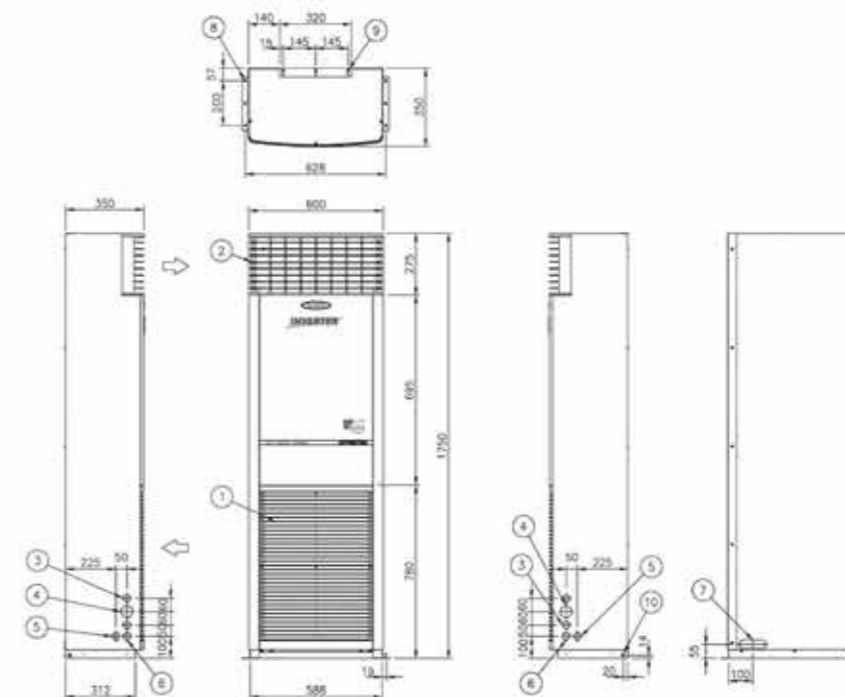
## INDOOR UNIT DIMENSIONS



RPS-140AN

Mark	Name
1	Air Inlet Grille
2	Air Outlet Grille
3	Knockout Hole For Liquid Line (Ø 32.5 - Both Sides)
4	Knockout Hole For Gas Line (Ø 52 - Both Sides)
5	Knockout Hole for Condensate Drain Connection (Ø 32.5 - Both Sides)
6	Knockout Hole for Operation Circuit Wiring (Ø 32.5 - Both Sides)
7	Rounded End Hole for Refrigerant, Drainage Piping and Operation Circuit Wiring (Rear Side)
8	Floor Mounting Plate
9	Wall Mounting Plate
10	Drainage Outlet (For Cleaning)

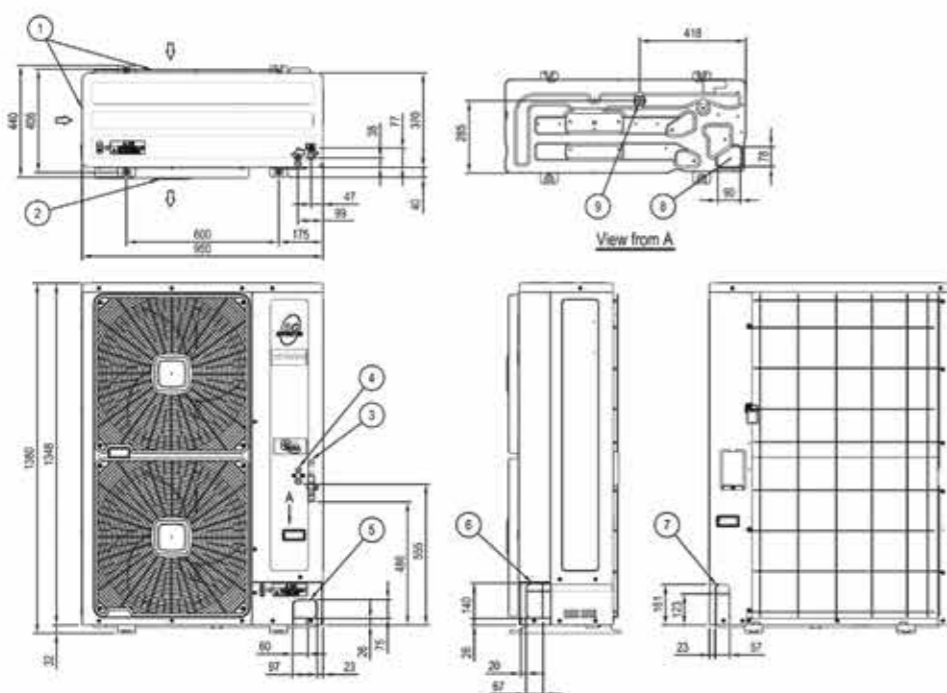
## INDOOR UNIT DIMENSIONS



RPS-90AN

Mark	Name
1	Air Inlet Grille
2	Air Outlet Grille
3	Knockout Hole For Liquid Line (Ø 32.5 - Both Sides)
4	Knockout Hole For Gas Line (Ø 52 - Both Sides)
5	Knockout Hole for Condensate Drain Connection (Ø 32.5 - Both Sides)
6	Knockout Hole for Operation Circuit Wiring (Ø 32.5 - Both Sides)
7	Rounded End Hole for Refrigerant, Drainage Piping and Operation Circuit Wiring (Rear Side)
8	Floor Mounting Plate
9	Wall Mounting Plate
10	Drainage Outlet (For Cleaning)

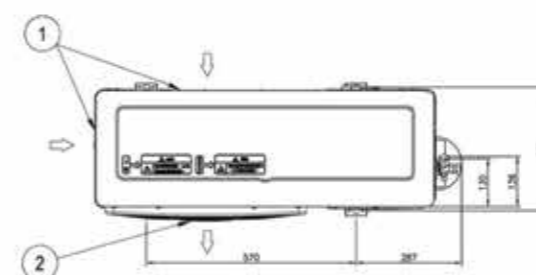
## OUTDOOR UNIT DIMENSIONS



RAM-140FPS  
RAM-140FPS(B)

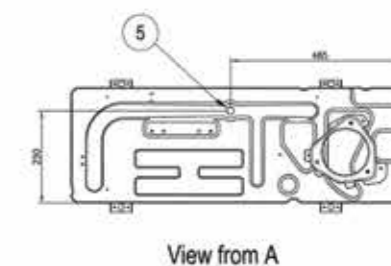
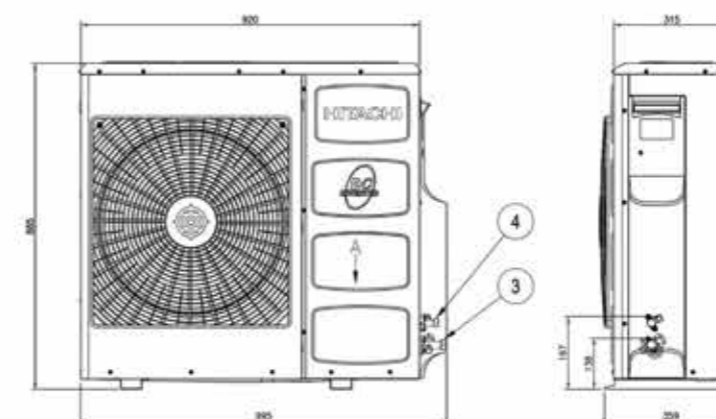
Mark	Name
1	Air Inlet Grille
2	Air Outlet Grille
3	Gas Refrigerant Piping Connection (Ø 15.88 Flare Nut Connection)
4	Liquid Refrigerant Piping Connection (Ø 9.53 Flare Nut Connection)
5	Connection Hole for Front Extension Piping (97x75 Knockout Hole)
6	Connection Hole for Right Extension Piping (167x140 Knockout Hole)
7	Connection Hole for Rear Extension Piping (57x161 Knockout Hole)
8	Connection Hole for Down Extension Piping (90x78 Knockout Hole)
9	Drain Connection (Ø 25)

## OUTDOOR UNIT DIMENSIONS



RAC-90JK

Mark	Name
1	Air Inlet Grille
2	Air Outlet Grille
3	Gas Refrigerant Piping Connection (Ø 15.88 Flare Nut Connection)
4	Liquid Refrigerant Piping Connection (Ø 6.35 Flare Nut Connection)
5	Drain Connection (Ø 20)



Made in Taiwan

GENERAL UNIT DATA

INVERTER SLIM TYPE PACKAGE

Model			Indoor Unit	RPS-90AN		RPS-140AN			
			Outdoor Unit	RAC-90JK		RAM-140FPS	RAM-140FPS(B)		
Power Source			Indoor Unit	230VAC/60Hz, Single Phase					
			Outdoor Unit	230VAC/60Hz, Single Phase		230VAC/60Hz, Single/Three Phase			
Nominal Cooling Capacity at 35°C Outdoor Temperature			kcal/h	8,950		12,040			
			kJ/h	37,470		50,420			
			Btu/h	35,800		47,800			
Nominal Dehumidifying Capacity			Liters/h	4.0		5.4			
Indoor Unit		Outer Dimension	Height	mm	1,750		1,900		
			Depth	mm	350		350		
			Width	mm	600		600		
		Fan Motor	Output	kW x Q'ty	0.22 x 1		0.15 x 1		
		Nominal Air Flow	Hi	m3/min	27		32		
			Me	m3/min	23		28		
			Lo	m3/min	20		24		
Net Weight			kg	59		68			
Outdoor Unit		Outer Dimension	Height	mm	885		1,380		
			Depth	mm	315		370		
			Width	mm	920		950		
		Fan Motor	Output	kW x Q'ty	0.1 x 1		0.074 x 2		
		Nominal Air Flow			m3/min	55		100	
		Net Weight			kg	62		96	
Refrigerant				R410A					
Refrigerant Piping Connections		Type		Flare Nut					
		Gas Line Size (O.D.)		mm (in)	15.88 (5/8)		15.88 (5/8)		
		Liquid Line Size (O.D.)		mm (in)	6.35 (1/4)		9.53 (3/8)		
		Max. Piping Length		m (ft)	30 (90)		75 (225)		
		Max. Vertical Lift		m (ft)	15 (45)		30 (90)		
Electrical Data		Power Input		kW	2.67		4.2		
		Starting Current		A	11.9		14.0	8.0	
		Running Current		A	11.8		21.5	12.4	
		Energy Efficiency Ratio		kJ/hW	14.0		12.0		
Cabinet (Color)				Synthetic Resin Painted on Galvanized Steel Plate (Beige)					
Compressor x Quantity				Hermetic Scroll x 1					
Control of Refrigerant Flow				Electrical Expansion Valve					
Heat Exchanger Type				Multi-Pass Cross-Finned Tube					
Operation Control		Type (Model)		Wired Remote Control Switch (RC-A01ET)		Wired Remote Control Switch (PC-AR)			
		Function	Mode		Fan, Cool, Dehumidify				
			Fan Speed		Hi, Me, Lo, QLo		Hi, Me, Lo		
			OFF Timer		0-24 Hours				
			Air Swing		On, Off				
Safety Devices		Compressor Over Current Relay		Included					
		Compressor Discharge Thermostat		Included					
		High Pressure Switch		-----		Included			
		Reverse Phase Protection Relay		-----		Included			
		Fuse for Control Circuit		Included					
		Fuse for Outdoor Fan Motor		Included					

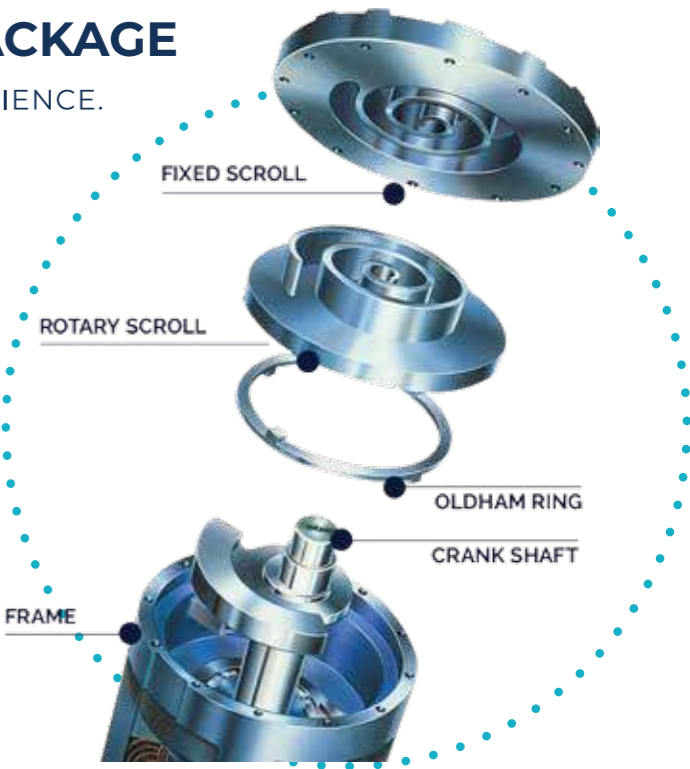
IMPORTANT NOTE: (Temperature Working Range) Indoor Temperature: 21-32 Celsius  
Outdoor Temperature: 21-43 Celcius

NON-INVERTER SLIM TYPE PACKAGE

EFFICIENT COOLING. UNINTERRUPTED CONVENIENCE.

HIGH EFFICIENCY SCROLL COMPRESSOR

Hitachi's patented scroll compressor generates quick cooling, less vibrations and lower energy for virtually uninterrupted cooling operation.



QUIET OPERATION MODE

Features a dynamically balanced fan whose optimum shape reduces noise dramatically.

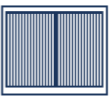


RUST-PROOF CASING

Made of high quality steel with electrodeposition coating, encloses the unit perfectly to protect it from rust and corrosion.



LONG PIPING INSTALLATION (UP TO 40M)

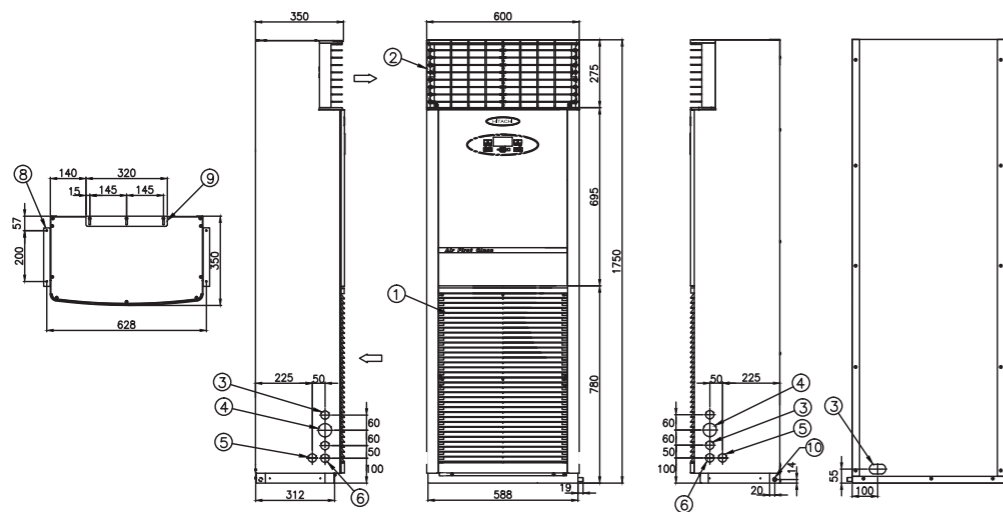


AIR FILTER TO BLOCK HARMFUL GERMS AND BACTERIA



AUTO-OFF SAFETY FEATURE TO PREVENT UNIT BREAKDOWN

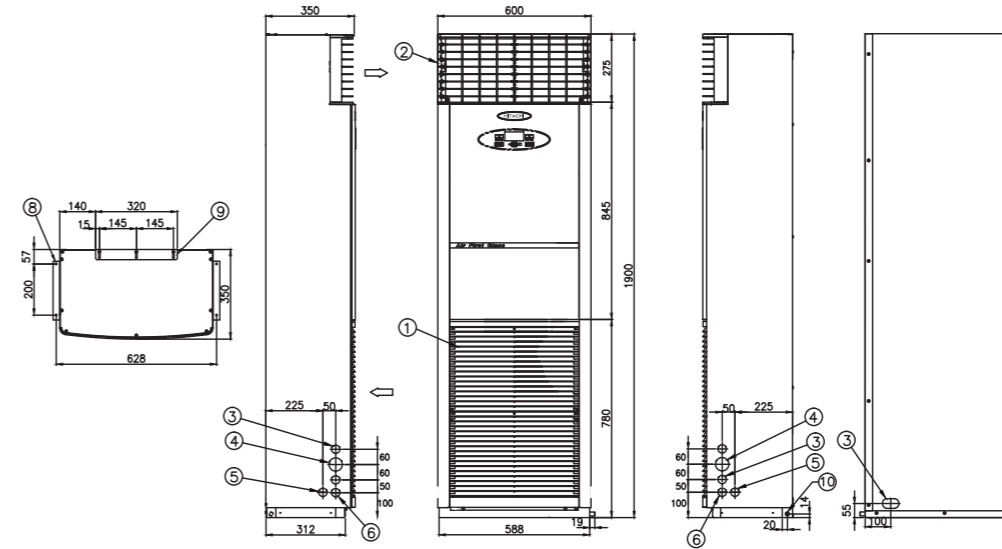
## INDOOR UNIT DIMENSIONS



RPS-NP3A

Mark	Name
1	Air Inlet Grille
2	Air Outlet Grille
3	Knockout Hole For Liquid Line (Ø 32.5 - Both Sides)
4	Knockout Hole For Gas Line (Ø 52 - Both Sides)
5	Knockout Hole for Condensate Drain Connection (Ø 32.5 - Both Sides)
6	Knockout Hole for Operation Circuit Wiring (Ø 32.5 - Both Sides)
7	Rounded End Hole for Refrigerant, Drainage Piping and Operation Circuit Wiring (Rear Side)
8	Floor Mounting Plate
9	Wall Mounting Plate
10	Drainage Outlet (For Cleaning)

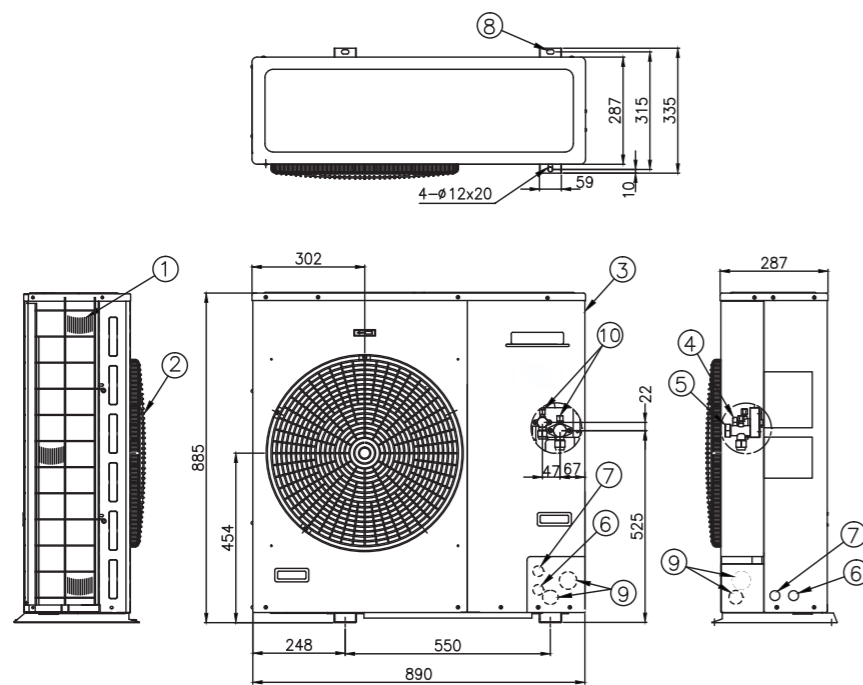
## INDOOR UNIT DIMENSIONS



RPS-NP5A

Mark	Name
1	Air Inlet Grille
2	Air Outlet Grille
3	Knockout Hole For Liquid Line (Ø 32.5 - Both Sides)
4	Knockout Hole For Gas Line (Ø 52 - Both Sides)
5	Knockout Hole for Condensate Drain Connection (Ø 32.5 - Both Sides)
6	Knockout Hole for Operation Circuit Wiring (Ø 32.5 - Both Sides)
7	Rounded End Hole for Refrigerant, Drainage Piping and Operation Circuit Wiring (Rear Side)
8	Floor Mounting Plate
9	Wall Mounting Plate
10	Drainage Outlet (For Cleaning)

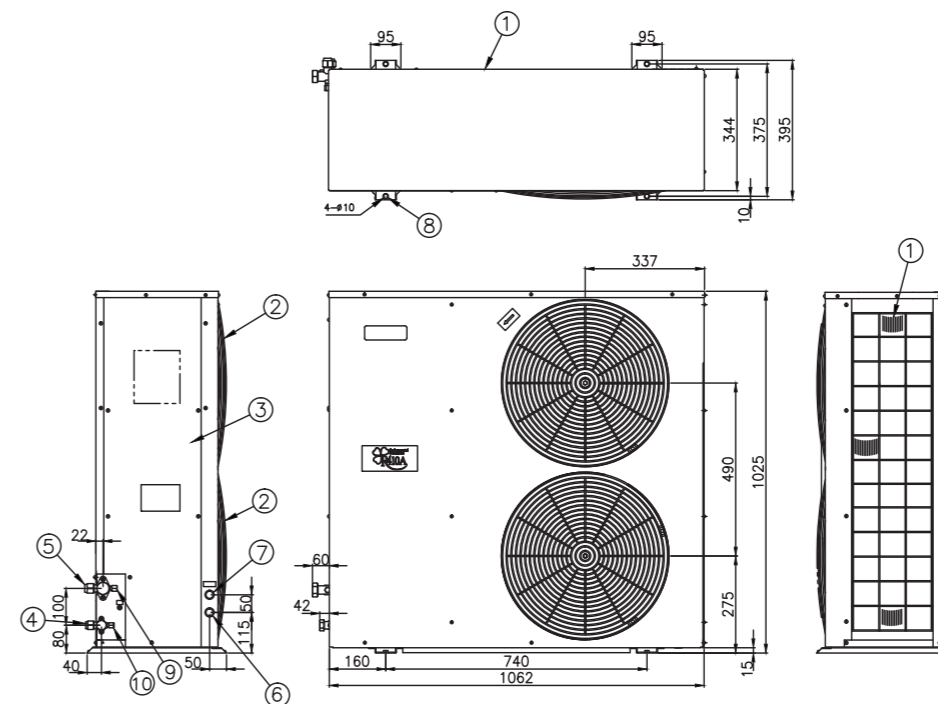
## OUTDOOR UNIT DIMENSIONS



RAC-NP3AB B

Mark	Name
1	Condenser Air Intake
2	Condenser Air Discharge
3	Service Panel for Magnetic Switch Box and Compressor
4	3/8 Stop Valve (Liquid Line)
5	5/8 Stop Valve (Gas Line)
6	Power Supply Wiring Hole
7	Operation Circuit Wiring Hole
8	Mounting Hole (Foundation)
9	Mounting Hole (Piping)
10	Vacuuming and Charging of Refrigerant (Check Joint)

## OUTDOOR UNIT DIMENSIONS



RAC-NP5AB B (NP5A)

Mark	Name
1	Condenser Air Intake
2	Condenser Air Discharge
3	Service Panel for Magnetic Switch Box and Compressor
4	1/2 Stop Valve (Liquid Line)
5	3/4 Stop Valve (Gas Line)
6	Power Supply Wiring Hole
7	Operation Circuit Wiring Hole
8	Mounting Hole (Foundation)
9	Mounting Hole (Piping)
10	Vacuuming and Charging of Refrigerant (Check Joint)



GENERAL UNIT DATA

NON-INVERTER SLIM TYPE PACKAGE (R410A)

Model			Indoor Unit		RPS-NP3A		RPS-NP5A		RPS-NP5A			
			Outdoor Unit		RAC-NP3AB		RAC-NP5AB B		RAC-NP5A			
Power Source			Indoor Unit		230VAC/60Hz, Single Phase							
			Outdoor Unit		230VAC/60Hz, Single Phase				230VAC/60Hz, Three Phase			
Nominal Cooling Capacity at 35°C Outdoor Temperature			kcal/h		9,180		15,120		15,120			
			kJ/h		38,450		63,300		63,300			
			Btu/h		36,430		60,000		60,000			
Nominal Dehumidifying Capacity			Liters/h		4.0		6.6		6.6			
Indoor Unit		Outer Dimension	Height	mm	1,750		1,900		1,900			
			Depth	mm	350		350		350			
			Width	mm	600		600		600			
		Fan Motor	Output	kW x Q'ty	0.19 x 1		0.19 x (1)		0.19 x (1)			
		Nominal Air Flow	Hi	m³/min	27		32		32			
			Me	m³/min	23		28		28			
			Lo	m³/min	20		24		24			
		Net Weight		kg		62		70		70		
Outdoor Unit		Outer Dimension	Height	mm	885		1,025		1,025			
			Depth	mm	287		347		347			
			Width	mm	892		1,060		1,060			
		Fan Motor	Output	kW x Q'ty	0.105 x 1		0.04 x (2)		0.04 x (2)			
		Nominal Air Flow		m³/min		35		100		100		
		Net Weight		kg		80		110		105		
Refrigerant Piping Connections		Type		Copper Brazing								
		Gas Line Size (O.D.)		mm (in)		15.88 (5/8)		19.05 (3/4)		19.05 (3/4)		
		Liquid Line Size (O.D.)		mm (in)		9.53 (3/8)		12.7 (1/2)		12.7 (1/2)		
		Max. Piping Length		m (ft)		40 (130)						
		Max. Vertical Lift		m (ft)		15 (45)						
Electrical Data		Power Input		kW		3.95		5.17		5.62		
		Starting Current		A		89		144		93		
		Running Current		A		18.6		22.7		16.3		
		Energy Efficiency Ration		kJ/hW		9.7		12.2		11.3		
Cabinet (Color)				Synthetic Resin Painted on Galvanized Steel Plate (Beige)								
Compressor x Quantity				Hermetic Rotary x 1				Hermetic Scroll x 1				
Control of Refrigerant Flow				Capillary Tube								
Heat Exchanger Type				Multi-Pass Cross-Finned Tube								
Operation Control		Type (Model)		Micom Control								
		Function	Mode		Fan, Cool, Dehumidify							
			Fan Speed		Hi, Me, Lo, QLo							
			OFF Timer		0-12 Hours							
			Air Swing		On, Off							
Safety Devices		Compressor Over Current Relay		(Internal)				Included				
		Compressor Discharge Thermostat		(Internal)				Included				
		High Pressure Switch		Included								
		Reverse Phase Protection Relay		—						Included		
		Fuse for Control Circuit		Included								
		Fuse for Outdoor Fan Motor		—				Included				