MITSUBISHI ELECTRIC

AIR-COOLED ROOFTOP PACKAGED AIR CONDITIONERS

Series

COOLING ONLY: PRC-C200,250,300,400MEA

PRC-C500,600,900MEA

R407C

Cooling Capacity kW						
PRC-C200	PRC-C250	PRC-C300	PRC-C400	PRC-C500	PRC-C600	PRC-C900
24.0	32.0	35.0	48.0	64.0	70.0	100.0

Highly Efficient,Powerful Cooling.

LINE UP

PRC-C200,250,300

PRC-C400,500,600

PRC-C900

FEATURES

High sensible cooling capacity.
The sensible cooling capacity has been significantly improved through balanced optimized heat exchanger design.

Highly efficient operation.
The EER(Energy Efficiency Ratio) on these models is greatly improved by revised design specifications and by being manufactured stringently to Mitsubishi Electric high quality standards.

人-△ Evaporator Fan Motor
Direct-drive,forward curved,centrifugal-type fans are used to deliver an accurate air flow at low noise level. The air flow rate can be freely controlled by selecting 人 or △ connection for the fan motor.

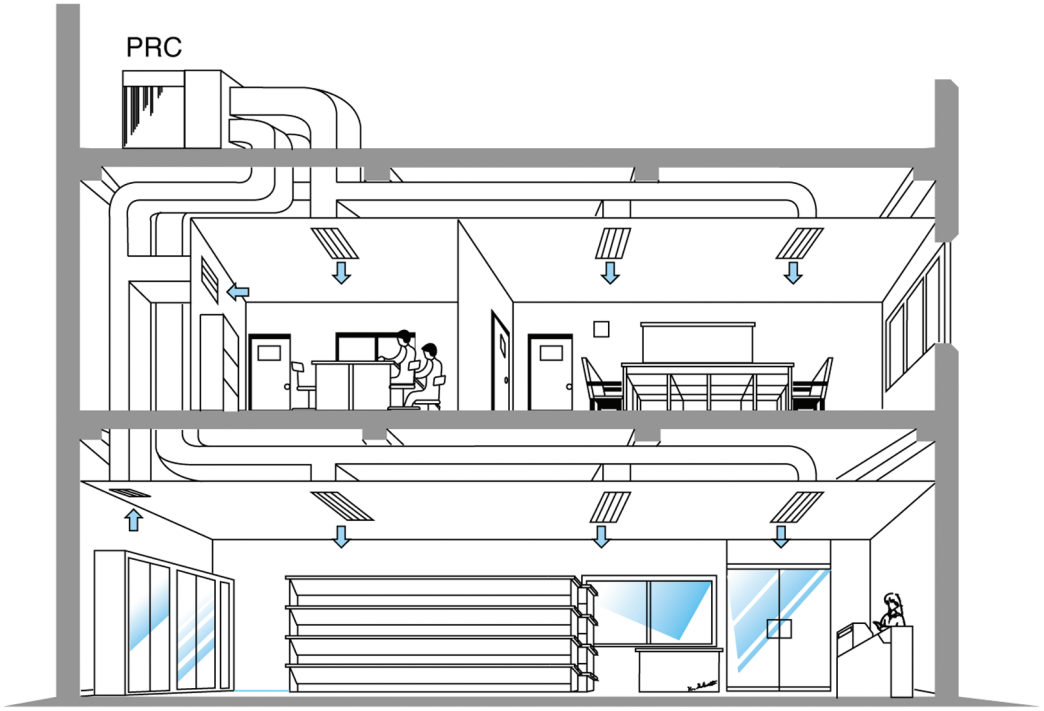
Labor saving installation.
Because of the single unit configuration, all refrigeration work can be omitted.The unit operation can commence immediately after connecting to the power supply, drain piping, ducting and control system.

Minimum floor space.
The PRC series feature a compactly design and has been succeeded in reducing more floor space.

Wide electrical control capability.
All series is flexible mechanical control configulation. In addition Global Remote Controller is prepared as special order.
The Global Remote Controller gives the programmable weekly timer, compressor anti-short cycle timer(3min.), cool/fan etc.
This controller utlises a microprocessor and includes liquid crystal display with touch pad for adjustment for control program.

Global Remote Controller(option)

TYPICAL INSTALLATION EXAMPLE



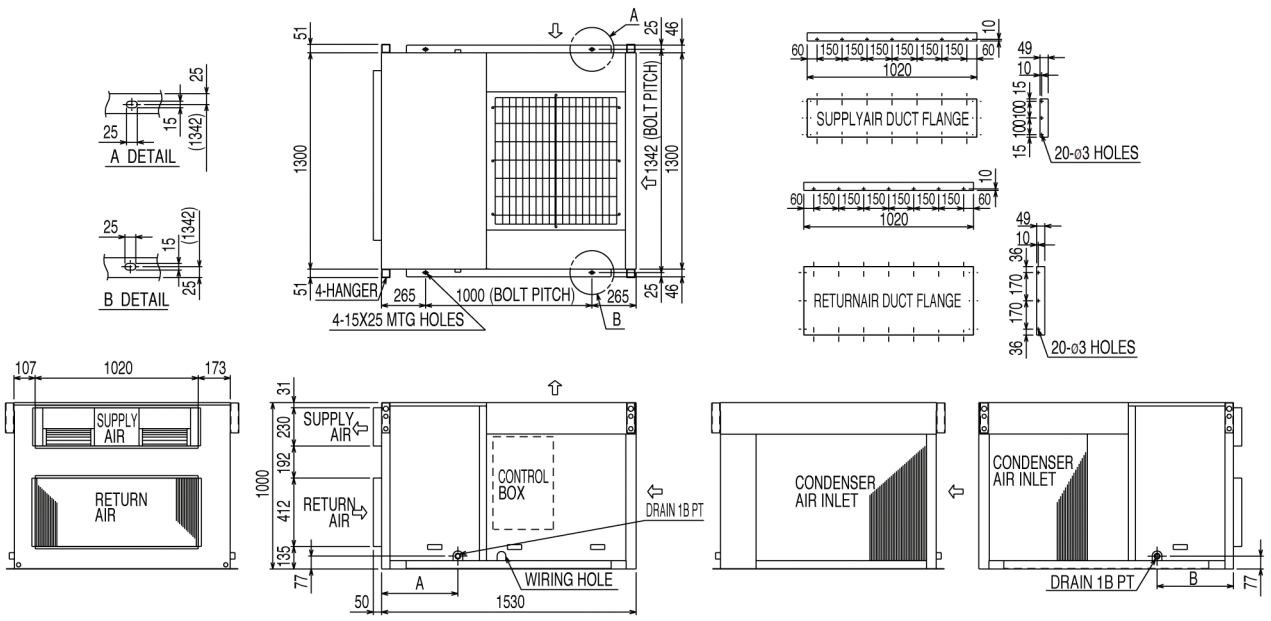
SPECIFICATIONS

Model name			PRC-C200MEA	PRC-C250MEA	PRC-C300MEA	PRC-C400MEA	PRC-C500MEA	PRC-C600MEA	PRC-C900MEA
Power supply			PRC-C200~C900MEA : 3N~ 400-415V 50Hz						
Total cooling capacity *1	Outdoor 35˚CDB	kW	24.0	32.0	35.0	48.0	64.0	70.0	100.0
		Btu/h	81,900	109,200	119,500	163,800	218,400	238,900	341,200
		kcal/h	20,700	27,600	30,100	41,300	55,100	60,200	86,000
	Outdoor 46˚CDB	kW	21.9	30.8	33.0	43.7	61.5	66.0	94.0
		Btu/h	74,800	105,100	112,600	149,200	209,900	225,200	320,800
		kcal/h	18,900	26,500	28,400	37,600	52,900	56,800	80,900
Sensible cooling capacity *1	Outdoor 35˚CDB	kW	19.2	25.6	28.0	38.4	51.2	56.0	80.0
		Btu/h	65,600	87,400	95,600	131,100	174,700	191,100	273,000
		kcal/h	16,600	22,100	24,100	33,100	44,100	48,200	68,800
Total power input *2		kW	8.1	10.5	12.5	15.6	20.8	25.5	39.8
Power factor		%	84	86	86	86	83	83	83
Capacity step		%	0-100			0-50-100			0-66-100
Refrigerant			R407C						
Refrigerant charge		kg	4.5	6.9	5.7	2x4.8	2x5.9	2x5.7	3x6.3
Refrigerant control			Capillary tube						
External finish			Acrylic resin coating						
Color			MUNSELL 5Y8/1						
Dimension	Height	mm	1,000			1,200			1,650
	Width	mm	1,300			1,990			2,100
	Depth	mm	1,530			1,670			2,100
Net weight		kg	360	390	395	655	755	765	1,100
Compressor			Hermetic line start (Scroll Compressor)						
No. x Motor output		kW	1x5.5	1x7.5	1x8.0	2x5.5	2x7.5	2x8.0	3x8.0
Evaporator			Cross fin coil						
Evaporator fan			Centrifugal - direct-drive						
Evaporator fan motor			Three - phase squirrel cage induction motor(人-△ connection)						
No. x Motor output		kW	1x0.7	1x1.25	1x1.25	1x1.7	1x2.5	1x2.5	1x4.5
Evaporator fan airflow		CMM	80	100	100	160	200	200	285
		CFM	2,826	3,532	3,532	5,651	7,064	7,064	10,066
		L/S	1,333	1,667	1,667	2,667	3,333	3,333	4,750
External static pressure		mmAq	10			20			25
		Pa	100			200			250
Condenser			Cross fin coil						
Condenser fan			Propeller - direct drive						
Condenser fan motor			Three phase cage induction motor						
Condenser fan air flow		CMM	160		180	320		360	480
		CFM	5,651		6,354	11,302		12,708	16,954
		L/S	2,667		3,000	5,333		6,000	8,000
Drain connection		mm	25.4						
Sound pressure level		dB(A)	66		69	70		73	76
Protection devices			High pressure switch, Fuse Low pressure switch (only for PRC-C900MEA) Over current relay (compressor) Internal thermostat (compressor,Outdoor&Indoor fan motor)						

Note 1.Cooling capacity is based on the following conditions.
Indoor;27°CDB,19°CWB
2.Total power input based on 400V-3Ph-50Hz at nominal condition.
3.Refrigerant charge volumes are factory charged.
4.Capacity is gross capacity which do not include a deduction for evaporator fan motor heat.
5.The measurning point of the Sound pressure level is 1m from the unit surface.
6.The range of working voltage is within ±10% voltage of power supply.
7.Specification subject to change without notice.

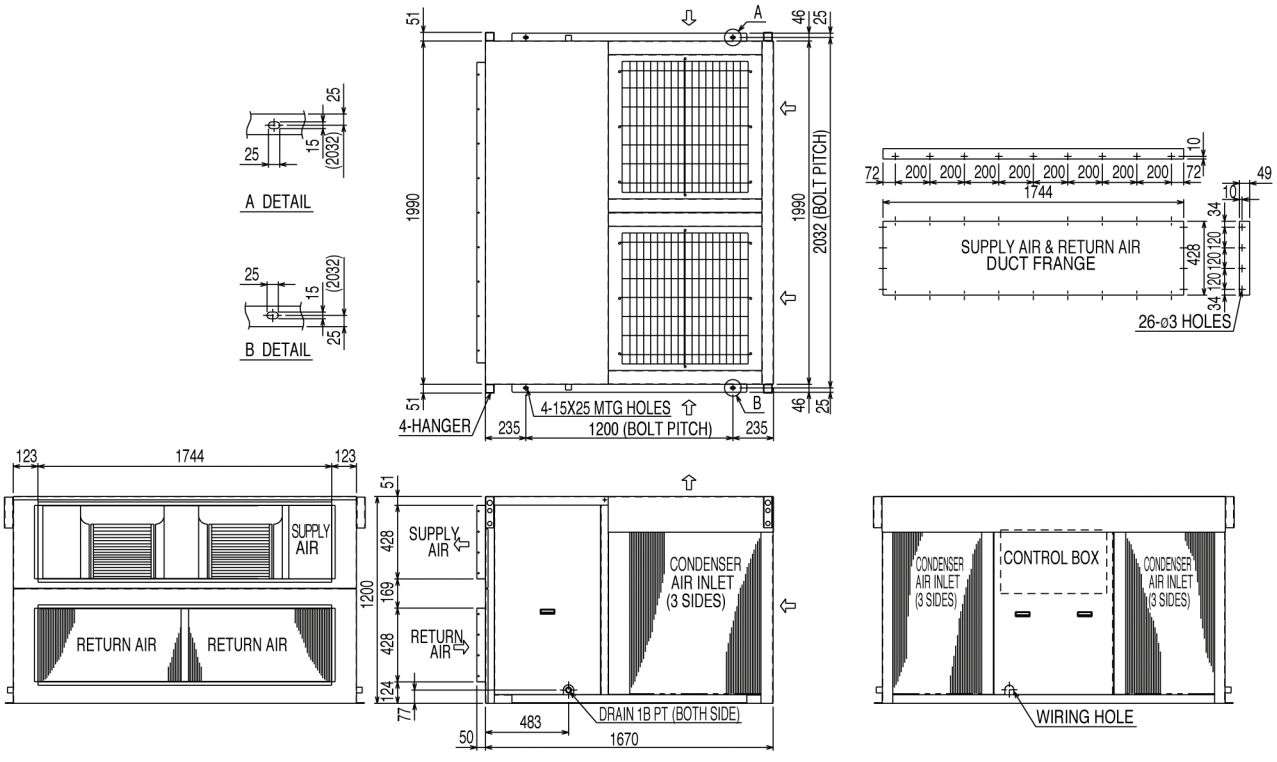
OUTLINE DIMENSIONS

PRC-C200,250,300



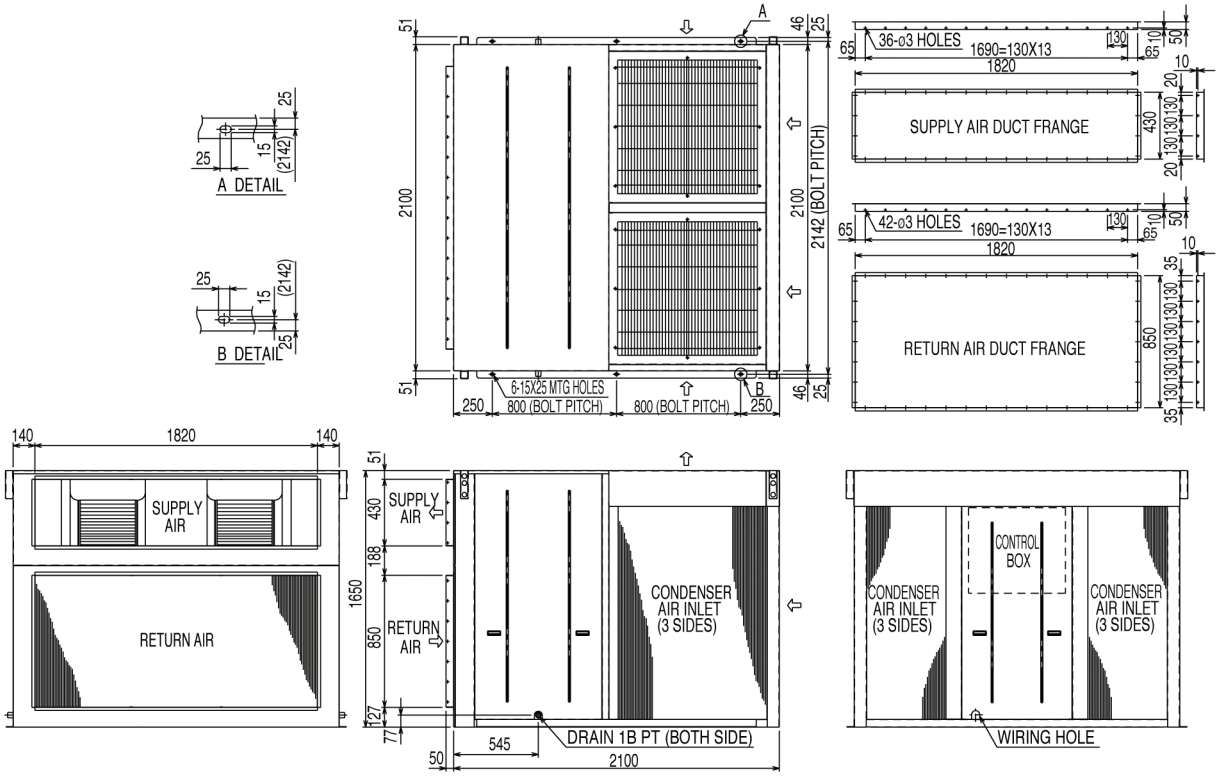
	A	B
PRC-C200,250	438	438
PRC-C300	458	458

PRC-C400,500,600



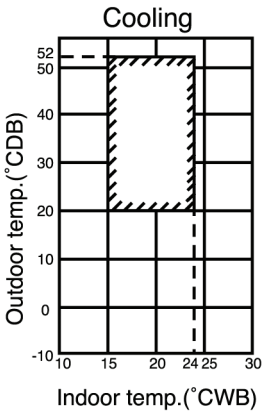
OUTLINE DIMENSIONS

PRC-C900



OPERATION RANGE

The range of working temperatures is as below.
Make sure which unit you are using and confirm the range of application.



⚠ Caution

The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

(Note) As an applicable humidity outside standard for both indoors and outdoors, we recommend use within a range of 35-80% relative humidity. However,it is a condition that there is no be dewy in surfaces of electric parts.

OPTIONAL PARTS

Description	Model	PRC-C200	PRC-C250	PRC-C300	PRC-C400	PRC-C500	PRC-C600	PRC-C900
Global Remote Controller		○ PAC-204RC						
Pressure Gauge		○ PAC-206PG			○ PAC-206PG X 2			○ PAC-206PG X 3

Type	Type A	Type B
Global Remote Controller	OK	N/A
Sight Glass	OK	N/A
Filter Dryer	OK	N/A
Low Pressure Switch	OK	OK
Error Display	OK	N/A
Salt Proof Fin (Gold Fin)	N/A	OK

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