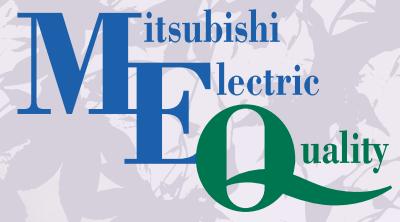




*Changes for the Better*



**CEILING CONCEALED**

**R22**

**PAC07WD**

# Line-up

MITSUBISHI ELECTRIC offer a wide range of lineup to meet all air-conditioning needs of offices, shops, or workplaces.

A wide variety of highly-designed and high-performance/sophisticated products enabling efficient air-conditioning offer the best solution to your needs.

## Ceiling Concealed



Refrigerant	Cooling Only	Heat Pump	Compressor	Control	5HP	6HP	8HP	
R22	●		Fixed speed	AK control	PE-5GAK	PE-6GAK	PE-8GAK	
					PU-5YAKD	PU-6YAKD	PU-8YAKD	
R22		●	Fixed speed	AK control	PEH-5GAK	PEH-6GAK		
					PUH-5YKSA	PUH-6YKSA		
				A control			PEH-8GA	
							PUH-8YKA	

## Special Model

	Model name	Service reference	
Indoor Unit	PE-5 / 6 / 8 / 10 / 12 / 16 / 20GAK	PE-5 / 6 / 8 / 10 / 12 / 16 / 20 GAK.TH	
		PE-5 / 6 / 8 / 10 GAK.TH-SP	
		PE-5 / 6 / 8 / 10 / 12 GAK.TH-MF	
		PE-5 / 6 / 8 / 10 GAK.TH-SPMF	
	PEH-5 / 6GAK PEH-8 / 10 / 16 / 20GA	PEH-5 / 6 / 8 / 10 / 16 / 20 GA(K).TH	
		PEH-5 / 6 / 8 / 10 GA(K).TH-SP	
		PEH-5 / 6 / 8 / 10 GA(K).TH-MF	
		PEH-5 / 6 / 8 / 10 GA(K).TH-SPMF	
Outdoor Unit	PU-5 / 6YAKD PU-8 / 10 / 12YAKD	PU-5 / 6 YAKD.TH	
		PU-8 / 10 / 12 YAKD.TH	
		PU-8 / 10 / 12 YAKD.TH-BS	
	PUH-5 / 6YKSA PUH-8 / 10YKA	PUH-5 / 6 YKSA1.TH	
		PUH-8 / 10 YKA.TH	
		PUH-8 / 10 YKA.TH-BS	

## ⟨ Model name structure ⟩

**P E H - 8 G A**

- |                |                               |   |
|----------------|-------------------------------|---|
| ①: P           | Packaged air conditioner      | ④: <b>None</b> R22 refrigerant                |
| ②: E           | Ceiling concealed ducted type | ⑤: Capacity of the unit                       |
| ③: <b>None</b> | Cooling only                  | ⑥: Series number                              |
| H              | Heatpump                      | ⑦: <b>A</b> A-control<br><b>AK</b> AK-control |

	10HP	12HP	16HP	20HP	Page
PE-10GAK	PE-12GAK	PE-16GAK	PE-20GAK		
PU-10YAKD	PU-12YAKD	PU-8YAKD X 2	PU-10YAKD X 2		7~11
PEH-10GA		PEH-16GA	PEH-20GA		
PUH-10YKA		PUH-8YKA X 2	PUH-10YKA X 2		13~17

Line up							
Special model	5HP	6HP	8HP	10HP	12HP	16HP	20HP
Normal	-	○	○	○	○	○	○
High static motor (150Pa)	A	○	○	○	-	-	-
With Metal fan	B	○	○	○	○	-	-
A + B	C	○	○	○	-	-	-
Normal	-	○	○	○	-	○	○
High static motor (150Pa)	A	○	○	○	-	-	-
With Metal fan	B	○	○	○	-	-	-
A + B	C	○	○	○	-	-	-
Normal	-	○	○	-	-	-	-
Normal	-	-	-	○	○	-	-
Salt resistant fin	1	-	-	○	○	-	-
Normal	-	○	○	-	-	-	-
Normal	-	-	-	○	○	-	-
Salt resistant fin	1	-	-	○	○	-	-

ICON	Refrigerant	Compressor	Control	Power source

# A-CONTROL REMOTE CONTROLLER

## MA DELUXE REMOTE CONTROLLER PAR-21MAA

### Dot liquid-crystal display is applied

Symbols, Japanese, Chinese, English, Germany, Spanish, Russian, Italian, French display can be selected freely.



#### Dot Liquid Crystal Display

Acknowledging the operation and control status at a glance. The large size display upgrades visual acknowledgement capability. The operation and control status can be understood promptly.

Display example [Operation mode]  
Dot liquid crystal display section



#### Multi-language Display

Multi-language

8 languages  
can be displayed.

Display can be switched over for 8 kinds of language.

[English]



[Spanish]



[Italian]



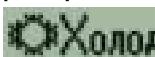
[German]



[French]



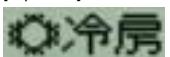
[Russian]



[Chinese]



[Japanese]



#### Operation Control Function

Limiting the set temperature range

Air conditioning operation always within a limited temperature range

Auto Off timer

Automatic turning off of air conditioning operation

Operation locking

Preventing the random modification of setting

#### Weekly Timer

The function of the weekly timer equipped can change the set temperature in addition to the ON/OFF control. Up to 8 patterns can be set for each calendar day.

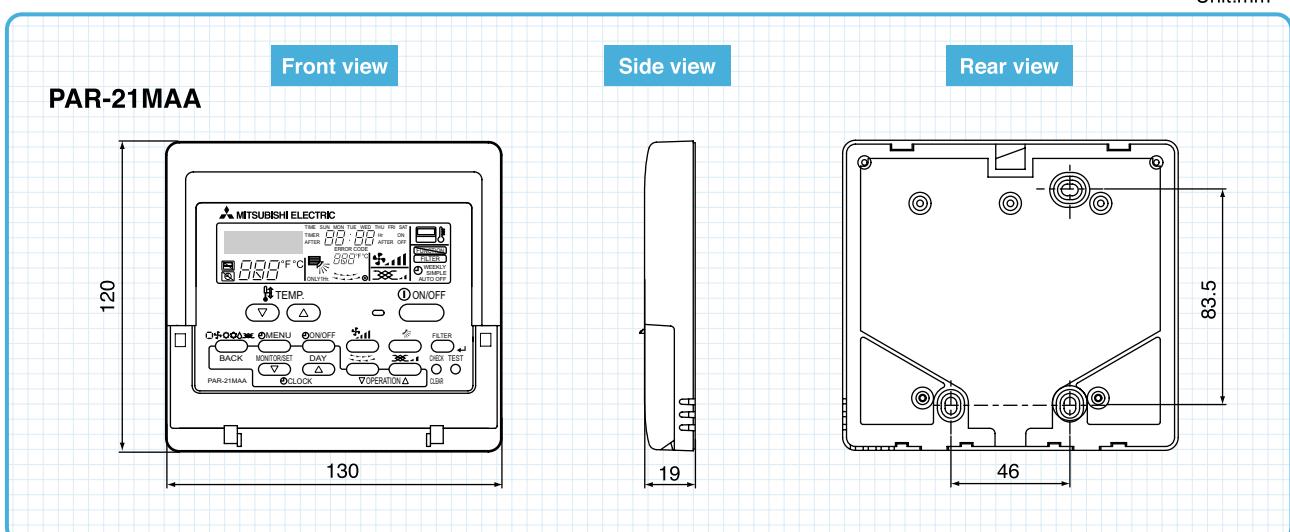
## ■ Functions

□ :Each unit    ○ :Each group    X :Not available

Item	Description	Operations	Display	Item	Description	Operations	Display
ON/OFF	Run and stop operation for a single group	○	○	Prohibition/ permission of specified mode (Cooling prohibited /heating prohibited /cooling-heating prohibited)	By the setting from System Controller, the operation for the following modes is prohibited. At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto, At cooling-heating prohibited : Cool, Heat, Dry, Auto	X	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit.	○	○	Indoor unit intake temperature	Measures the intake temperature of the indoor unit when the indoor unit is operating.	X	○
Temperature setting	Sets the temperature for a single group Range of temperature setting  Cool/Dry : 19°C - 30°C (66°F - 86°F) Heat : 17°C - 28°C (63°F - 82°F) Auto : 19°C - 28°C (66°F - 82°F)	○	○	Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.	X	□
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low	○	○	Test run	This operates air conditioner units in test run mode.	○	○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, Louver ON/OFF Air flow direction settings vary depending on the model.	○	○	Ventilation equipment	Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY, LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.	○	○
Weekly scheduler	ON/OFF/Temperature setting can be done up to 8 times one day in the week. The time can be set by the minute.	○	○	Function to limit the setting range of room temperature (Set temperature range limit)	The range of room temperature setting can be limited by the initial setting. The lowest limit temperature can be made higher than the usual (19°C) at cooling/drying, while the upper limit temperature lower than the usual (28°C) at heating.	○	○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter).  *1: When the local remote controller inactivation command is received from the master system controller, "■" is displayed.	X	*1	Easy-to-operate simplified locking function (Auto lock function)	Setting/releasing of simplified locking for remote control switch can be performed. · Locking of all switches · Locking of all switches except Start/Stop switch	○	○

## ■ External dimension

Unit:mm



# CENTRALIZED REMOTE CONTROLLER

## NEXT GENERATION CONTROLLER G-50A

**Up to 50 units of packaged air conditioners can freely be monitored and operated!**  
**Furthermore, it has enabled the Monitoring and Operation Via a Web Browser on a Personal Computer connected by using a LAN or telephone line!**



First in the industry  
With Web Server  
Functions!



- **Simple and Flexible**

This new generation controller is suitable for small to large systems with simple to complex functions available.

- **Web Browser**

Enables monitoring and operation of air conditioning units using a PC with Microsoft Internet Explorer.

- **Remote Access**

Allows users to remotely monitor and operate the air conditioning units using a PC connected to a telephone line.

- **Auto Alarm**

In case of any malfunction, necessary information will be sent to a mobile phone and/or personal computer by e-mail.

- **Easy to Upgrade**

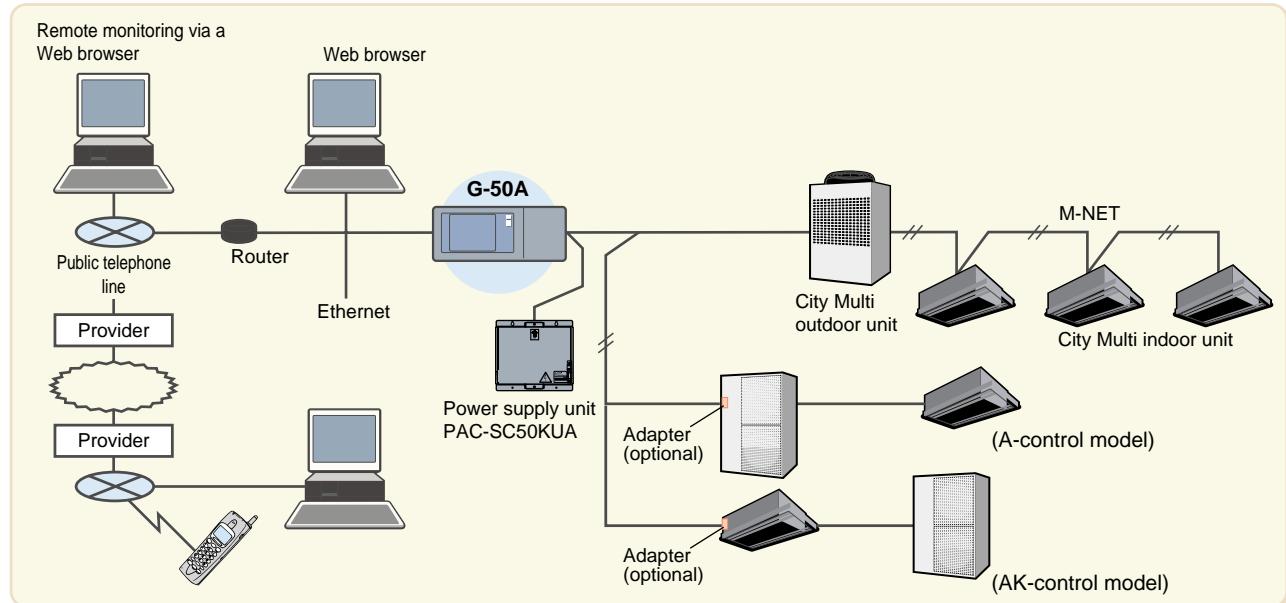
Various new functions will be introduced gradually and can easily be down loaded into any existing G-50A.

Example : Energy Monitoring  
Demand Control  
Annual Schedule

**Example of display icons (air conditioner icons)**

	Operation		In timer operation
	Stop		Lossnay on
	Occurrence of abnormality		Under energy-saving control
	Operation/ Occurrence of a filter sign		

### System Structure (Example)



# CENTRALIZED REMOTE CONTROLLER

## NEXT GENERATION CONTROLLER G-50A

### ■ Functions

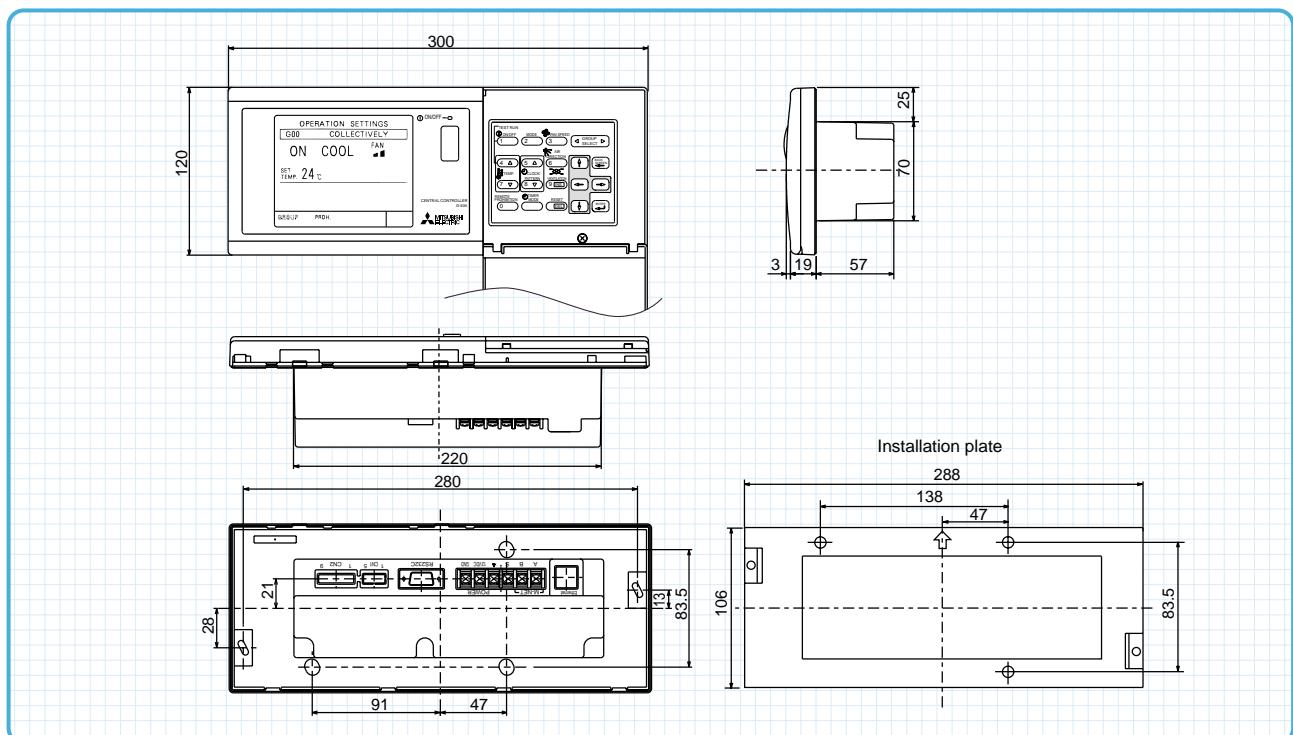
Item	Description	Operations	Display
ON/OFF	Run and stop operation for the air conditioner units	○	○
Operation mode switching	Switches between Cool / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit : automatic ventilation/ vent - heat interchange/ normal ventilation) Operation modes vary depending on the air conditioner unit.	○	○
Temperature setting	Range of temperature setting Cool/Dry : 19°C - 30°C (66°F - 86°F) Heat : 17°C - 28°C (63°F - 82°F) Auto : 19°C - 28°C (66°F - 82°F) * Range of temperature settings vary depending on model.	○	○
Fan speed setting	Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low Models with 3 air flow speed settings: Hi/Mid/Low Models with 2 air flow speed settings: Hi/Low	○	○
Air flow direction setting	Air flow direction angles 100% - 80% - 60% - 40%, Swing, *1: Louver cannot be set. Air flow direction settings vary depending on the model.	*1 ○	○
Timer operation	For one day, you can set start/stop three times and you can set enable/disable three times. For a week's schedule, you can store three start/stop patterns and one enable/disable pattern. *2: When the timer is set, "Timer enabled" is shown on the operation setting screen of the LCD.	○	*2 ○
Permit / Prohibit local operation	Individually prohibit operation of each local remote control function (Start/Stop, Change operation mode, Set temperature, Reset filter). *3: When the local remote controller inactivation command is received from the master system controller, "Disabled" appears in inverted display on the operation setting screen.	○	*3 ○

□:Each unit    ○:Each group    X:Not available

Item	Description	Operations	Display
Indoor unit intake temperature	Measures the intake temperature of the indoor unit only when the indoor unit is operating.	X	○
Error	When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed. *4: When an error occurs, the LED flashes. The operation monitor screen shows the abnormal unit by flashing it. The error monitor screen shows the abnormal unit address, error code and source of detection. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection.	X	*4 □
Test run	This operates air conditioner units in test run mode.	○	○
Ventilation equipment	The interlocked system settings can be performed by the master system controller. When setting the interlocked system, you can use the ventilation switch to switch the free plan LOSSNAY settings between "Hi", "Low" and "Stop". When setting a group of only free plan LOSSNAY units, you can switch between "Normal ventilation", "Interchange ventilation" and "Automatic ventilation".	○	○
External input/output	By using accessory cables you can set and monitor the following. Input By level signal: "Batch start/stop", "Batch emergency stop" By pulse signal: "Batch start/stop", "Enable/disable local remote controller" Output "Start/stop", "Error/Normal" *5: Requires the external I/O cable (PAC-YG10HA-E) sold separately.	*5 ○ collective	*5 ○ collective

### ■ External dimension

Unit:mm



# **Series COOLING ONLY**

## **PE-5,6,8,10,12,16,20GAK**

**50  
Hz**



PE-GAK



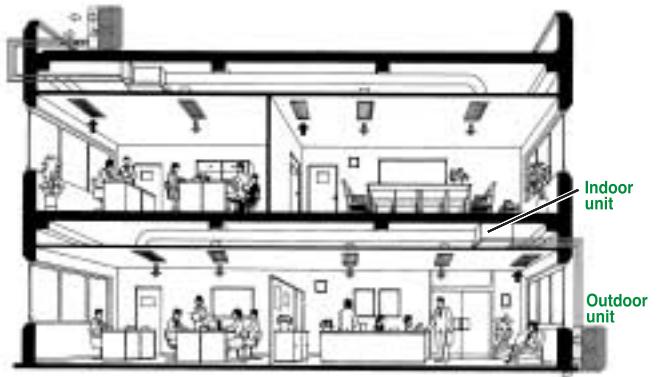
PU-YAKD



### [ FEATURES ]

**Wide range of capacities (5HP-20HP)**

**Flexible duct design by using high static pressure specifications (150Pa option)**



### **Highly-functional remote controller**

Weekly timer and Multi-language display enables Comfort control and Ease of Use.



PAR-21MAA



# SPECIFICATIONS

(50Hz)

Model name			PE-5GAK	PE-6GAK	PE-8GAK	PE-10GAK	PE-12GAK	PE-16GAK	PE-20GAK					
Power source			1N~ 220/230/240V 50Hz			3N~ 380/400/415V 50Hz								
Cooling *2	Capacity	kW	12.1	15.7	21.6	26.7	30.8	43.2	53.4					
		kcal/h	10,400	13,400	18,500	22,900	26,400	37,100	45,900					
		Btu/h	41,000	54,000	74,000	91,000	105,000	147,000	182,000					
	Sensible Capacity	kW	9.9	12.9	16.0	20.0	22.8	29.8	36.8					
		kcal/h	8,500	11,000	13,700	17,200	19,500	25,600	31,600					
		Btu/h	34,000	44,000	55,000	68,000	78,000	102,000	126,000					
	Power input	kW	0.87		1.00	1.12 (-SP 1.18)	1.22	1.55	2.84					
	Current input	A	4.0		1.8 (-SP 2.0)	2.0 (-SP 2.3)	2.3	3.8	5.4					
Temperature range of cooling	Indoor	W.B.	15.5°CWB-22.5°CWB			15°CWB-24°CWB								
	Outdoor	D.B.	(21)-46°CDB			(20)-52°CDB ((20)-43°CDB with PAC-SG208SG-E)								
Capacity control			0/100											
Fan	Type x Quantity	Sirocco fan x 1 (-MF Metal fan)			Sirocco fan x 2 (-MF Metal fan)			Sirocco fan x 2 (Metal fan)						
	Air flow rate (Hi-Lo)	CMM	50-40	55-44	65-52	80-64	90-72	120	160					
	External static pressure	Pa	100 (-SP 150)			100	150							
	Motor output	kW	0.46 (-SP 0.54)		0.75 (-SP 0.77)		0.77	1.3	1.8					
External finish			Galvanized steel											
External dimension	H x W x D	mm	400 x 1,180 x 634		400 x 1,400 x 634	400 x 1,600 x 634		595 x 1,947 x 764						
Heat exchanger type			Cross fin											
Air filter			Option											
Refrigerant piping diameter Liquid / Gas			ø9.52 / ø19.05		ø15.88 / ø25.4	ø15.88 / ø28.6		ø15.88 / ø25.4 x 2	ø15.88 / ø28.6 x 2					
Drain piping dimension			mm											
Noise level *3			dB(A) 46-42 (-SP 48-45)		49-45 (-SP 51-48)	50-46 (-SP 52-49)	51-48	52	53					
Net weight			kg	56	59	70	77	130	133					
Remote controller			PAR-21MAA (attached)											
Model name			PU-5YAKD	PU-6YAKD	PU-8YAKD	PU-10YAKD	PU-12YAKD	PU-8YAKD x 2	PU-10YAKD x 2					
Power source			3N~ 380/400/415V 50Hz											
Cooling *1	Power input	kW	4.09	5.11	6.65	9.13	10.15	6.65 x 2	9.13 x 2					
	Current input	A	7.0	8.5	13.0	16.6	17.9	13.0 x 2	16.6 x 2					
	Starting current	A	64.0	68.0	95.0	125.0	118.0	108	141.6					
Refrigerant	Type	R22												
	Original charge	kg	5.1	5.7	6	6.5	7	6 x 2	6.5 x 2					
Refrigerant control			Capillary											
Fan	Type x Quantity	Propeller fan x 2			(Propeller fan x 2) x 2									
	Air flow rate	CMM	100		160		160 x 2							
	Motor output	kW	0.1 x 2		0.15 x 2		(0.15 x 2) x 2							
Compressor	Type	Hermetically closed scroll												
	Motor output	kW	3.5	4.2	5.6	7.5	8.6	5.6 x 2	7.5 x 2					
	Lubricant	SONTEX 200LT												
	Crankcase heater	kW	-		0.09		0.09 x 2							
External finish			Polyester resin coating											
Color			Munsell 3Y7.8/1.1											
External dimension	H x W x D	mm	1,258 x 970 x 345 + 24		1,480 x 1,047 x 547		(1,480 x 1,047 x 547) x 2							
Heat exchanger type			Cross fin											
Refrigerant piping diameter Liquid / Gas			ø9.52 / ø19.05		ø15.88 / ø25.4	ø15.88 / ø28.6		ø15.88 / ø25.4 x 2	ø15.88 / ø28.6 x 2					
Noise level *4	Cooling	dB(A)	55	56	66									
Net weight			kg	119	120	197	206	208	197 x 2					
Protection devices			High pressure / Low pressure / Thermal switch Thermal relay / Anti phase Internal inherent motor protection		High pressure / Low pressure / OCR Internal inherent motor protection of COMP / Internal inherent motor protection									

Note 1. Nominal cooling conditions

Indoor: 27°CDB/19°CWB

Outdoor: 35°CDB

Pipe length: 5m(5.6P) , 7.5m(8-20P)

2. Cooling capacity is gross capacity which do not include a deduction for evaporator fan motor heat.

3. Measured at 1.5m from the unit's bottom in an anechoic room.

4. Measured at 1m from the unit in an anechoic room.

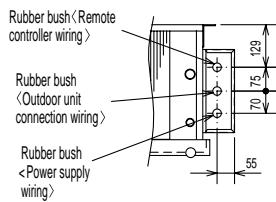
## Optional parts

Item	Special model	Optional part	Applicable model
High-static motor	-SP model		PE-5/6/8/10GAK
Metal fan	-MF model		PE-5/6/8/10/12GAK
Anti-corrosion fin	-BS model		PU-8/10/12YAKD
Air filter		PAC-KE206AF PAC-KE208AF PAC-KE210AF PAC-KE220AF PAC-SK209PG-E	PE-5/6GAK PE-8GAK PE-10/12GAK PE-16/20GAK PU-8/10/12YAKD
Pressure gauge		PAC-292SG-D	
Air outlet guide		PAC-SG208SG-E	PU-8/10/12YAKD
Air outlet guide (2pcs/pack)		MAC-399IF-E	PE-5/6/8/10/12/16/20GAK
M-NET interface		PAC-SA47DS-E	PU-5/6YAKD
Drain socket			

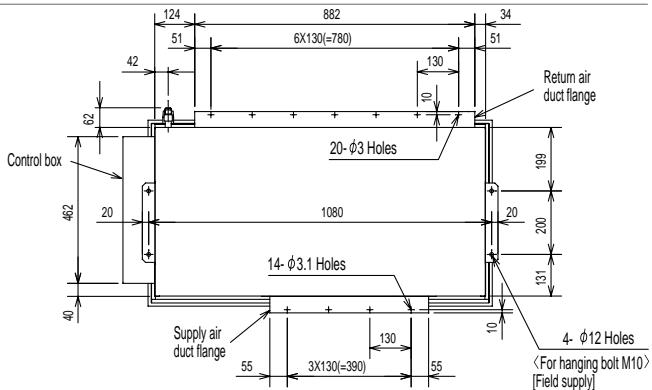
# OUTLINE DIMENSIONS

PE-5,6

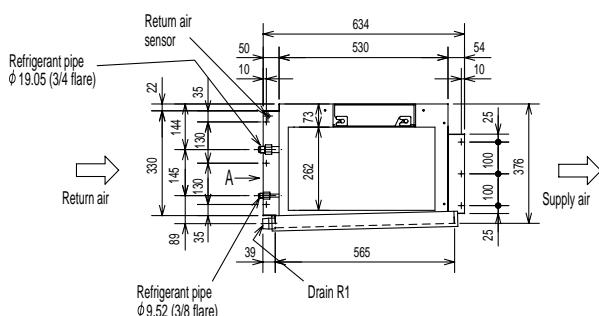
- Pipe cover ..... 2pcs.  
(For dew condensation prevention of  
local piping and unit connection.)
- Remote controller ..... 1pc.



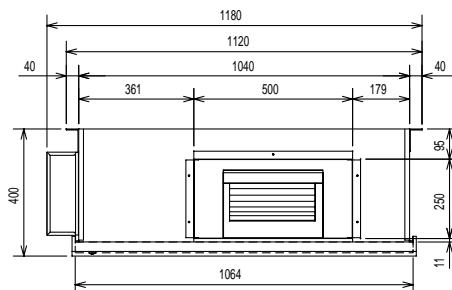
A



## Top view



## Left side view

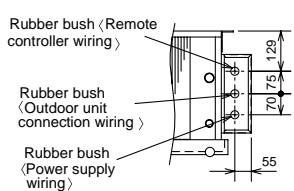


## Front view

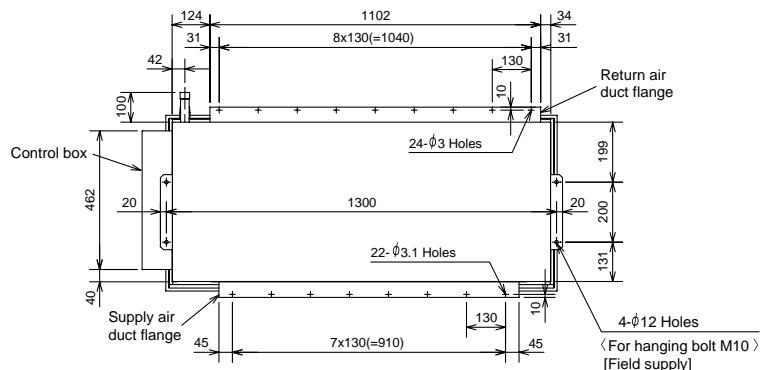
PF-8

<Accessory>

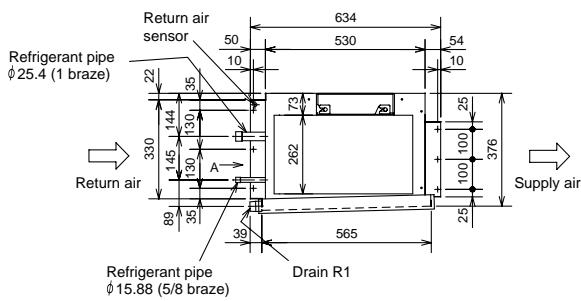
- Pipe cover ..... 2pcs.  
(For dew condensation prevention of  
local piping and unit connection.)
- Remote controller ..... 1pc.



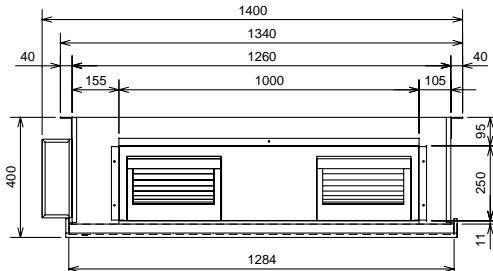
A



## Top view



## Left side view

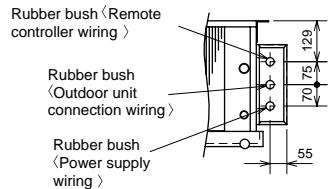


## Front view

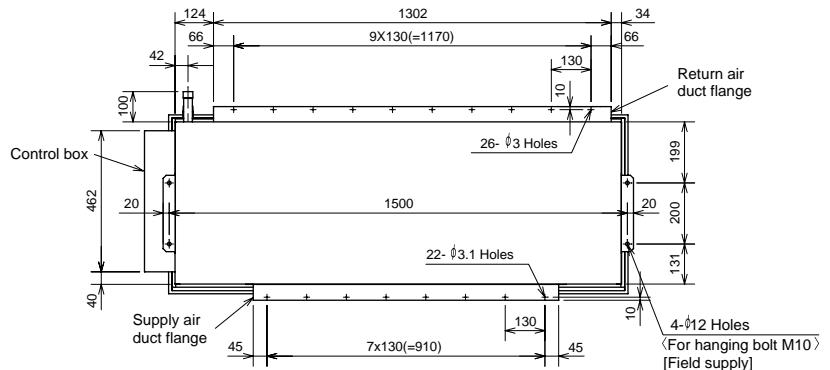
# OUTLINE DIMENSIONS

PE-10,12

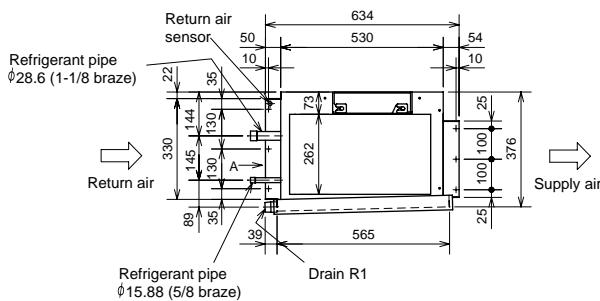
<Accessory>  
 · Pipe cover ..... 2pcs  
 (For dew condensation prevention of  
 local piping and unit connection.)  
 · Remote controller ..... 1pc.



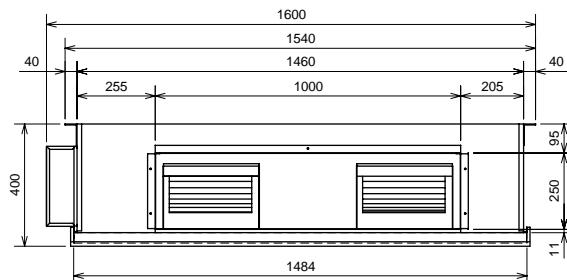
A



## Top view



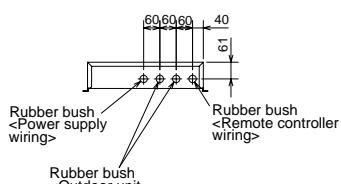
## Left side view



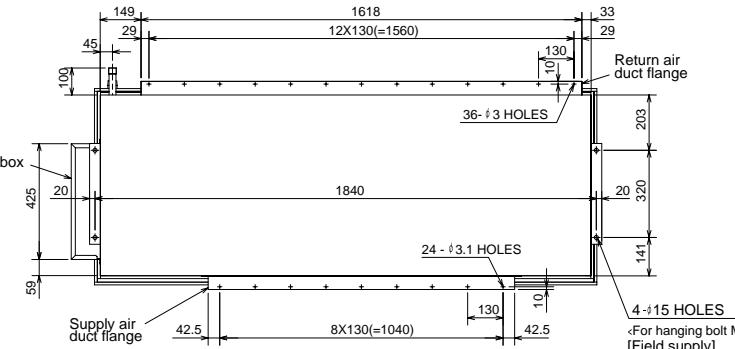
## Front view

PE-16,20

<Accessory>  
 · Pipe cover ..... 4pcs.  
 (For dew condensation prevention of  
 local piping and unit connection.)  
 · Remote controller ..... 1pc.



A

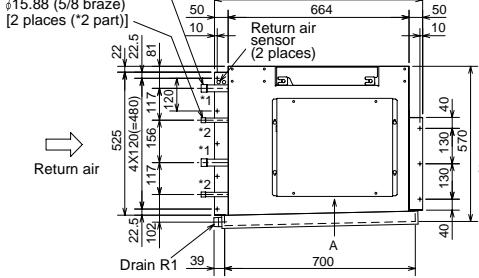


## Top view

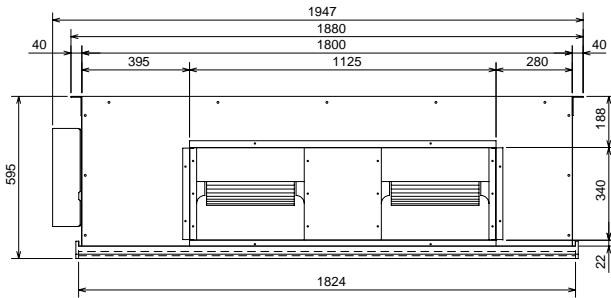
Refrigerant pipe  
PE-16GAK  
: ø25.4 (1 braze)  
PE-20GAK

PE-20GAK  
: ø 28.6 (1-1/8 braze)  
[2 places (\*1 part)]

Refrigerant pipe  
415-88 (5/8 braze)



## Left side view



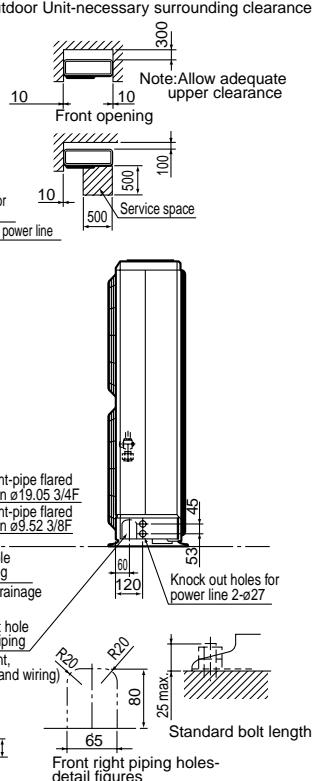
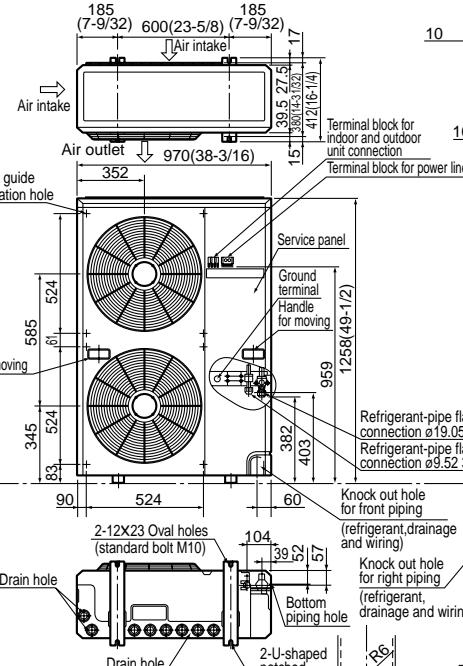
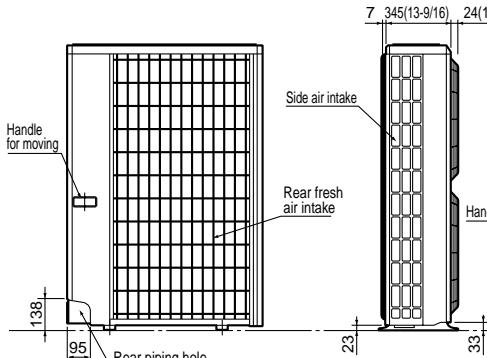
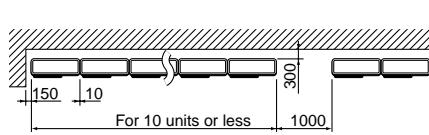
## Front view

# OUTLINE DIMENSIONS

PU-5,6

Outdoor Unit-necessary surrounding clearance  
(Concentrated installation)

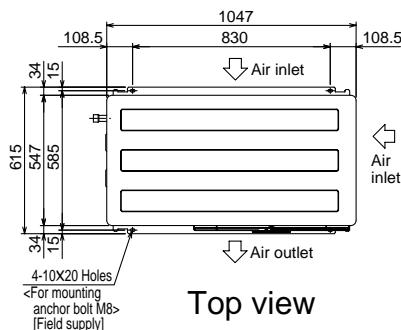
The upper side must be open.



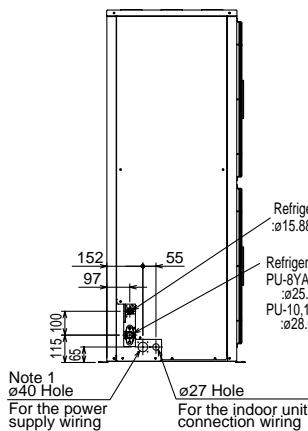
PU-8,10,12

<Accessory>  
 ·Conduit mounting plate  
 (Painted the same color as the unit body)  
 a)ø27.....1pc.  
 b)ø34.....1pc.  
 ·Tapping screw 4X12.....4pcs.  
 ·Connection pipe.....1pc.  
 ·Packing.....1pc

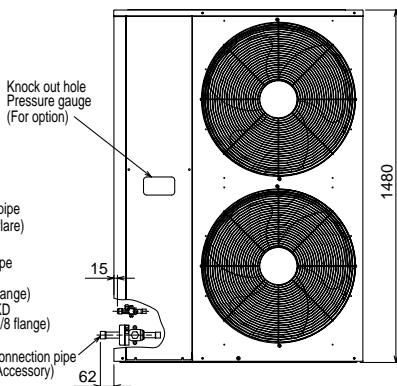
Note 1. It is possible to change to ø27 or ø34 by selecting the conduit mounting plate a,b.



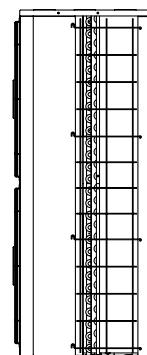
## Top view



## Left side view



## Front view



## Right side view

# M E M O

# **Series HEAT PUMP PEH-5,6,8,10,16,20GA(K)**

**50  
Hz**



**Fixed Speed**



## [ FEATURES ]

**Wide range of capacities (5HP-20HP)**

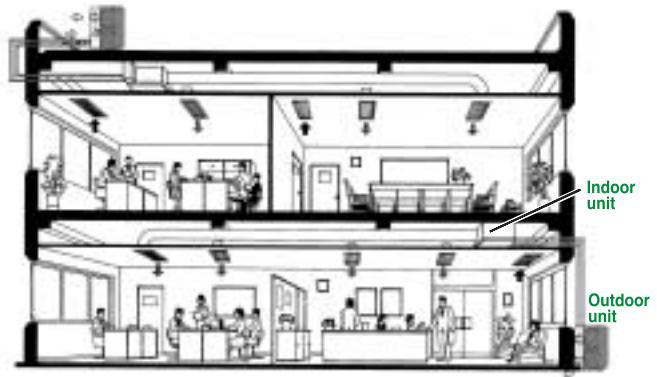
**Flexible duct design by using high static pressure specifications (150Pa option)**



PEH-GA(K)



PUH-YK(S)A



### **Highly-functional remote controller**

Weekly timer and Multi-language display enables Comfort control and Ease of Use.



PAR-21MAA



# SPECIFICATIONS

(50Hz)

Model name			PEH-5GAK	PEH-6GAK	PEH-8GA	PEH-10GA	PEH-16GA	PEH-20GA					
Power source			1N~ 220/230/240V 50Hz			3N~ 380/400/415V 50Hz							
Cooling *3	Capacity	kW	12.1	15.7	21.6	26.7	43.2	53.4					
		kcal/h	10,400	13,400	18,500	22,900	37,100	45,900					
		Btu/h	41,000	54,000	74,000	91,000	147,000	182,000					
	Sensible Capacity	kW	9.9	12.9	16.0	20.0	29.8	36.8					
		kcal/h	8,500	11,000	13,700	17,200	25,600	31,600					
		Btu/h	34,000	44,000	55,000	68,000	102,000	126,000					
	Power input	kW	0.87		1.00	1.12 (-SP 1.18)	1.55	2.84					
	Current input	A	4.0		1.8 (-SP 2.0)	2.0 (-SP 2.3)	3.8	5.4					
	Temperature range of cooling		Indoor	W.B.	15.5°CWB-22.5°CWB	15°CWB-24°CWB							
	Outdoor		Outdoor	D.B.	-5°CDB-46°CDB	-5°CDB-46°CDB (-5°CDB-43°CDB with PAC-SG208SG-E)							
Heating	Capacity	kW	15.5	18.5	24.6	30.9	49.2	61.8					
		kcal/h	13,300	15,900	21,100	26,500	42,300	53,100					
		Btu/h	53,000	63,000	84,000	105,000	168,000	211,000					
	Power input	kW	0.87		1.00	1.12 (-SP 1.18)	1.55	2.84					
Current input		A	4.0		1.8 (-SP 2.0)	2.0 (-SP 2.3)	3.8	5.4					
Temperature range of heating	Indoor	D.B.	20°CDB-27°CDB		15°CDB-27°CDB								
	Out door	W.B.	-9.5°CWB-15.5°CWB		-15°CWB-15°CWB								
Capacity control			0 / 100				0 / 50 / 100						
Fan	Type x Quantity		Sirocco fan x 1 (-MF Metal fan)		Sirocco fan x 2 (-MF Metal fan)		Sirocco fan x 2 (Metal fan)						
	Air flow rate (Hi-Lo)	CMM	50-40	55-44	65-52	80-64	120	160					
	External static pressure	Pa	100 (-SP 150)			150							
	Motor output	kW	0.46 (-SP 0.54)		0.75 (-SP 0.77)		1.3	1.8					
External finish			Galvanized steel										
External dimension	H x W x D	mm	400 x 1,180 x 634		400 x 1,400 x 634	400 x 1,600 x 634	595 x 1,947 x 764						
Heat exchanger type			Cross fin										
Air filter			Option										
Refrigerant piping diameter Liquid / Gas			ø9.52 / ø19.05		ø15.88 / ø25.4	ø15.88 / ø28.6	(ø15.88 / ø25.4) x 2	(ø15.88 / ø28.6) x 2					
Drain piping dimension			mm										
Noise level *4			25.4 (R1)										
dB(A)			46-42 (-SP 48-45)	49-45 (-SP 51-48)	50-46 (-SP 52-49)	52	53						
Net weight			kg	56	59	70	77	130					
Remote controller			PAR-21MAA (attached)										
<b>Outdoor unit</b>			<b>Model name</b>										
Power source			PUH-5YKSA PUH-6YKSA PUH-8YKA PUH-10YKA PUH-8YKA x 2 PUH-10YKA x 2										
Cooling *1	3N~ 380/400/415V 50Hz												
	Power input	kW	4.17	4.74	6.85	9.14	6.85 x 2	9.14 x 2					
	Current input	A	8.0	8.5	13.6	16.8	13.6 x 2	16.8 x 2					
Heating *2	Starting current	A	53	74	96.0	126.0	109.6	142.8					
	Power input	kW	4.35	4.69	6.68	8.52	6.68 x 2	8.52 x 2					
	Current input	A	8.2	8.3	13.2	16.3	13.2 x 2	16.3 x 2					
Starting current	A	A	53	74	96.0	126.0	109.2	142.3					
	R22												
Refrigerant	Type												
	Original charge	kg	5.4	5.0	5.5	6.0	5.5 x 2	6.0 x 2					
Refrigerant control			Capillary										
Fan	Type x Quantity		Propeller fan x 2				(Propeller fan x 2) x 2						
	Air flow rate	CMM	95	100	140	140 x 2							
	Motor output	kW	0.085 x 2	0.1 x 2	0.15 x 2	(0.15 x 2) x 2							
Compressor	Type		Hermetically closed scroll										
	Motor output	kW	3.5	4.0	5.6	7.5	5.6 x 2	7.5 x 2					
	Lubricant		SONTEX 200LT										
	Crankcase heater	kW	0.032 / 0.035 / 0.038	0.09		0.09 x 2							
External finish			Polyester resin coating										
Color			Munsell 3Y7.8/1.1										
External dimension	H x W x D	mm	1,258 x 970 x 345 + 24		1,480 x 1,047 x 547		(1,480 x 1,047 x 547) x 2						
Heat exchanger type			Cross fin										
Refrigerant piping diameter Liquid / Gas			ø9.52 / ø19.05		ø15.88 / ø25.4	ø15.88 / ø28.6	(ø15.88 / ø25.4) x 2	(ø15.88 / ø28.6) x 2					
Noise level *5	Cooling	dB(A)	55	56	61								
	Heating	dB(A)	55	56	63								
Net weight	kg	114	117	200	208	200 x 2	208 x 2						
Protection devices			High pressure / discharge thermostat / thermal relay Internal inherent motor protection of COMP Internal inherent motor protection		High pressure / Low pressure / Discharge thermistor Anti phase / OCR / Internal inherent motor protection of COMP Internal inherent motor protection								
Defrosting method			Hot gas reverse										

Note 1. Nominal cooling conditions Indoor: 27°CDB/19°CWB Outdoor: 35°CDB/7°CWB Pipe length: 5m (5.6HP) , 7.5m (8-20HP)

2. Nominal heating conditions Indoor: 20°CDB Outdoor: 7°CDB/6°CWB Pipe length: 5m (5.6HP) , 7.5m (8-20HP)

3. Cooling capacity is gross capacity which do not include a deduction for evaporator fan motor heat.

4. Measured at 1.5m from the unit's bottom in an anechoic room.

5. Measured at 1m from the unit in an anechoic room.

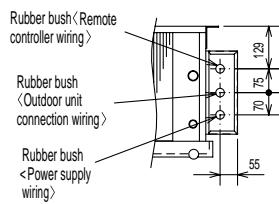
## Optional parts

Item	Special model	Optional part	Applicable model
High-static motor	-SP model		PEH-5/6/8/10GA(K)
Metal fan	-MF model		PEH-5/6/8/10GA(K)
Anti-corrosion fin	-BS model		PUH-8/10YKA
Air filter		PAC-KE206AF PAC-KE208AF PAC-KE210AF PAC-KE220AF PAC-SK209PG-E	PEH-5/6GAK PEH-8-GA PEH-10GA PEH-16/20GA PUH-8/10YKA
Pressure gauge		PAC-292SG-D	PUH-5/6YKSA
Air outlet guide		PAC-SG208SG-E	PUH-8/10YKA
Air outlet guide (2pcs/pack)		MAC-399IF-E	PEH-5/6GAK
M-NET interface		PAC-SF80MA-E	PUH-8/10YKA
M-NET converter		PAC-SA47DS-E	PUH-5/6YKSA
Drain socket			

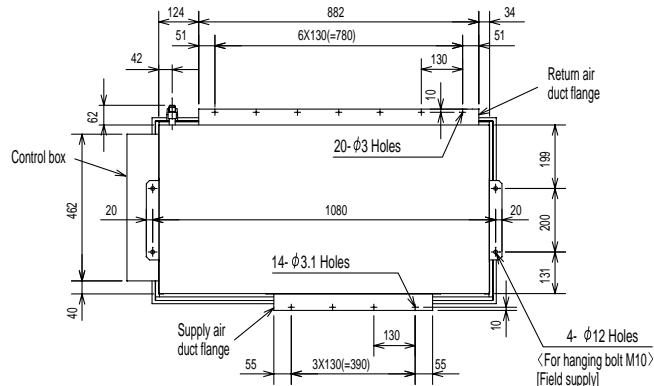
# OUTLINE DIMENSIONS

## PEH-5,6

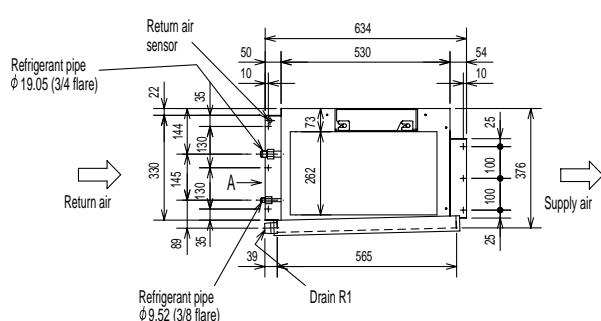
- <Accessory>  
 • Pipe cover ..... 2pcs.  
 (For dew condensation prevention of local piping and unit connection.)  
 • Remote controller ..... 1pc.



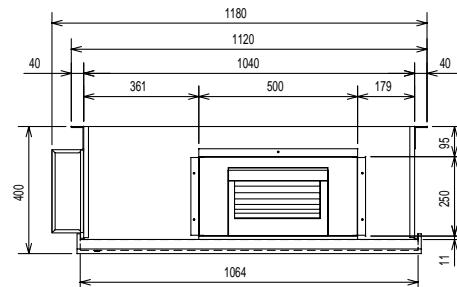
A



Top view



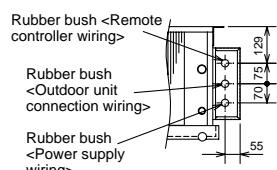
Left side view



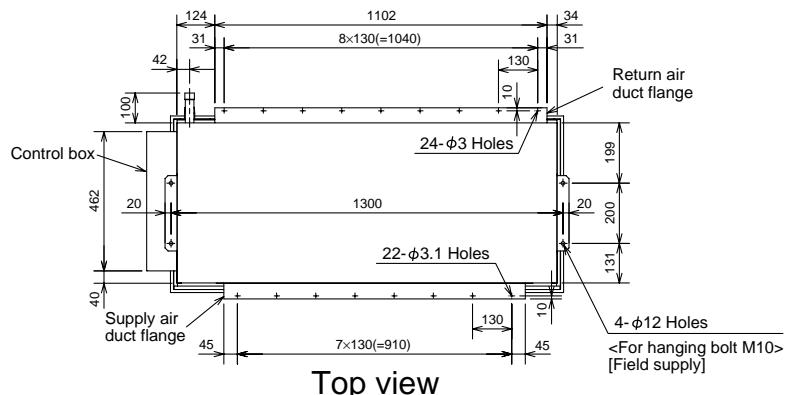
Front view

## PEH-8

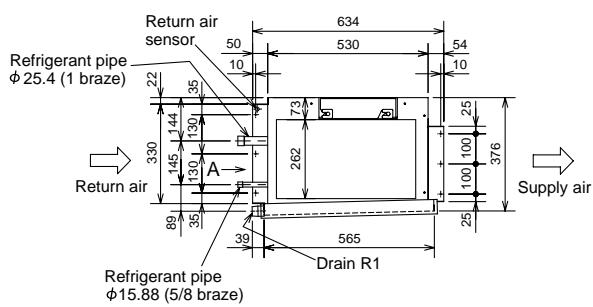
- <Accessory>  
 • Pipe cover ..... 2pcs.  
 (For dew condensation prevention of local piping and unit connection.)  
 • Remote controller ..... 1pc.



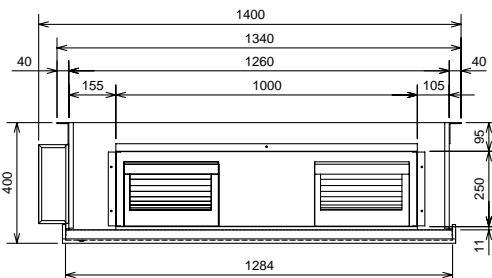
A



Top view



Left side view

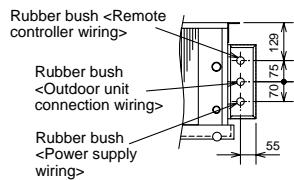


Front view

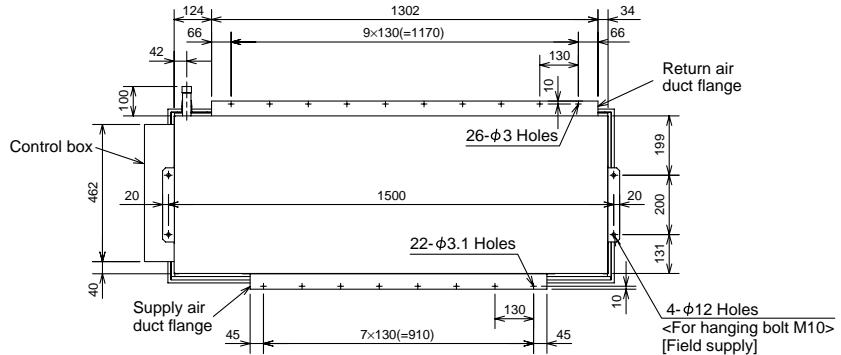
# OUTLINE DIMENSIONS

## PEH-10

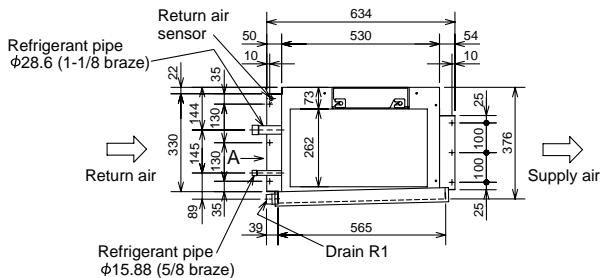
<Accessory>  
 • Pipe cover ..... 2pcs.  
 (For dew condensation prevention of local piping and unit connection.)  
 • Remote controller ..... 1pc.



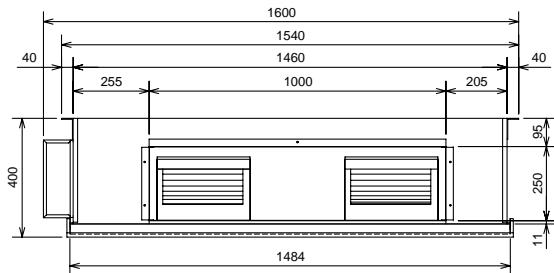
A



Top view



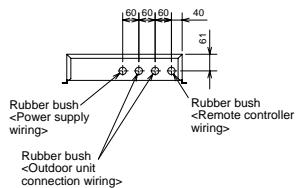
Left side view



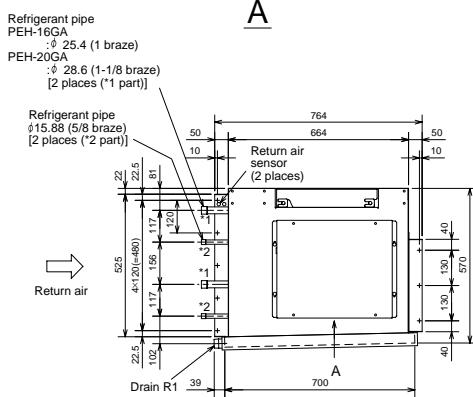
Front view

## PEH-16,20

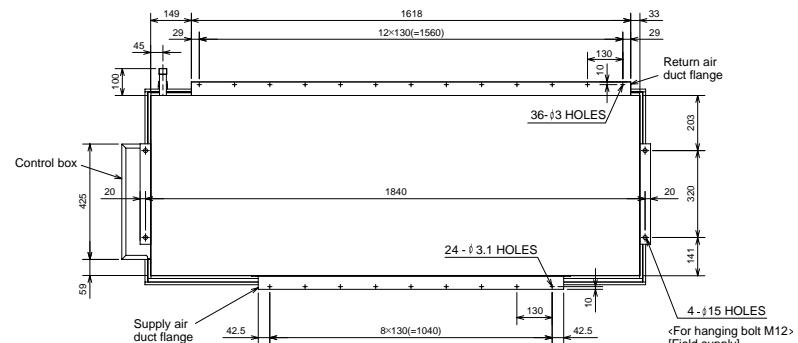
<Accessory>  
 • Pipe cover ..... 4pcs.  
 (For dew condensation prevention of local piping and unit connection.)  
 • Remote controller ..... 1pc.



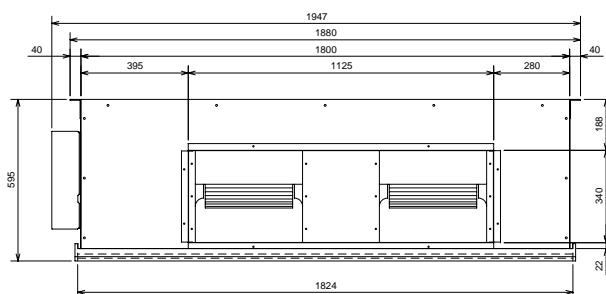
A



Left side view



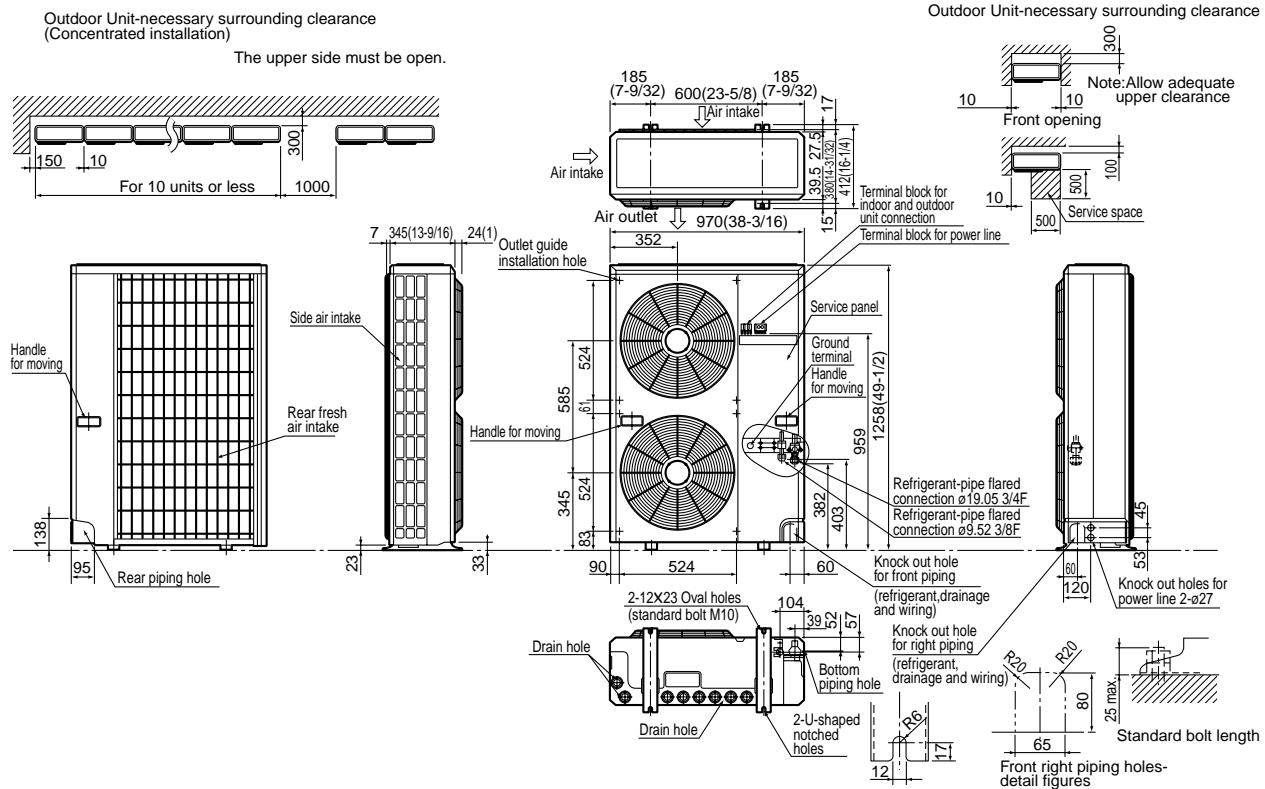
Top view



Front view

# OUTLINE DIMENSIONS

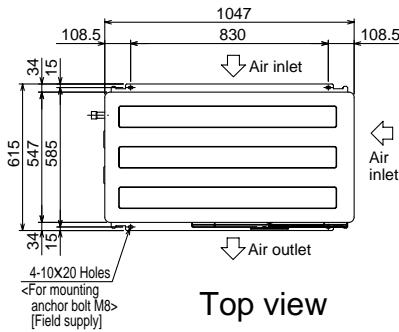
## PUH-5,6



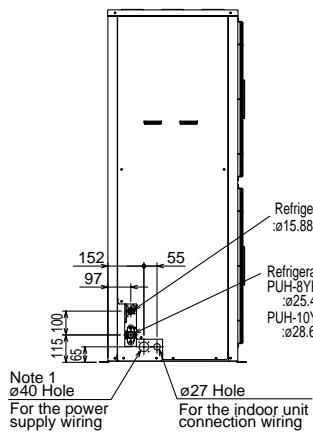
## PUH-8,10

<Accessory>  
 -Conduit mounting plate  
 (Painted the same color as the unit body)  
 a)ø27.....1pc.  
 b)ø34.....1pc.  
 -Tapping screw 4X12.....4pcs.  
 -Connection pipe.....1pc.  
 -Packing.....1pc

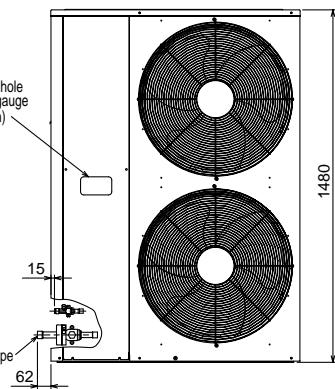
Note 1. It is possible to change to ø27 or ø34 by selecting the conduit mounting plate a,b.



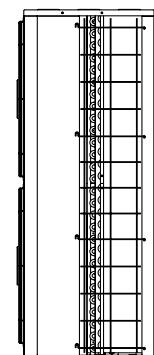
Top view



Left side view



Front view



Right side view

# M E M O

## Main Optional Parts

Model name	Description	Applicable Models			
		PE-5/6/8/10/12/16/20GAK.TH	PEH-5/6GAK.TH	PEH-8/10/16/20GA.TH	
PAC-SE41TS-E	Remote Sensor	●	●	●	
PAC-SE55RA-E	Remote On/Off Adapter	●	●	●	
PAC-SF40RM-E	Remote Operation Adapter	●	●	●	
PAC-SA88HA-E	Remote Controller Adapter	●	●	●	
MAC-399IF-E	M-NET Interface	●	●		
PAC-SF80MA-E	M-NET Converter				●
MAC-397IF-E	MA & Contact Terminal Interface	●	●		
MAC-821SC-E	Centralized On/Off Remote Controller (MAC-397IF-E)	●	●		
PAC-KE206AF	Air filter (5/6HP)	●	●		
PAC-KE208AF	Air filter (8HP)	●		●	
PAC-KE210AF	Air filter (10/12HP)	●		●	
PAC-KE220AF	Air filter (16/20HP)	●		●	
PAC-SK209PG-E	Pressure gauge				●
PAC-292SG-D	Air outlet guide			●	●
PAC-SG208SG-E	Air outlet guide (2pcs/pack)			●	●
PAC-SA47DS-E	Drain socket			●	●

# M E M O

# M E M O





FM 33568 / ISO 9001;2000

The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality , management for the production of refrigeration and air conditioning equipment.

#### ISO Authorization System

The ISO 9000 series is a plant authorization system relating to quality management as stipulated by the ISO. ISO 9001 certifies quality management based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

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