REFERENCE MANUAL

OUTDOOR UNIT SERVICE MANUAL

Service Ref.	Service Manual No.
PUZ-A24/30/36NHA4 PUZ-A24/30/36NHA4-BS PUY-A24/30/36NHA4 PUY-A24/30/36NHA4-BS	OCH481 OCB481

■ Remote controller (Optional parts)



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SAFETY PRECAUTION

2-1. ALWAYS OBSERVE FOR SAFETY

Before obtaining access to terminal, all supply circuits must be disconnected.

2-2. CAUTIONS RELATED TO NEW REFRIGERANT

Cautions for units utilising refrigerant R410A

Use new refrigerant pipes.

Make sure that the inside and outside of refrigerant piping is clean and it has no contaminants such as sulfur, oxides, dirt, shaving particles, etc, which are hazards to refrigerant cycle. In addition, use pipes with specified thickness.

Contamination inside refrigerant piping can cause deterioration of refrigerant oil etc.

Store the piping to be used indoors during installation, and keep both ends of the piping sealed until just before brazing. (Leave elbow joints, etc. in their packaging.)

If dirt, dust or moisture enters into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

The refrigerant oil applied to flare and flange connections must be ester oil, ether oil or alkylbenzene oil in a small amount.

If large amount of mineral oil enters, that can cause deterioration of refrigerant oil etc.

Charge refrigerant from liquid phase of gas cylinder.

If the refrigerant is charged from gas phase, composition change may occur in refrigerant and the efficiency will be lowered.

Do not use refrigerant other than R410A.

If other refrigerant (R22 etc.) is used, chlorine in refrigerant can cause deterioration of refrigerant oil etc.

Use a vacuum pump with a reverse flow check valve.

Vacuum pump oil may flow back into refrigerant cycle and that can cause deterioration of refrigerant oil etc.

Use the following tools specifically designed for use with R410A refrigerant.

The following tools are necessary to use R410A refrigerant.

Tools for R410A			
Gauge manifold	Flare tool		
Charge hose	Size adjustment gauge		
Gas leak detector	Vacuum pump adaptor		
Torque wrench	Electronic refrigerant		
	charging scale		

Handle tools with care.

If dirt, dust or moisture enters into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

Do not use a charging cylinder.

If a charging cylinder is used, the composition of refrigerant will change and the efficiency will be lowered.

Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.

Use the specified refrigerant only.

Never use any refrigerant other than that specified. Doing so may cause a burst, an explosion, or fire when the unit is being used, serviced, or disposed of. Correct refrigerant is specified in the manuals and on the spec labels provided with our products. We will not be held responsible for mechanical failure, system malfunction, unit breakdown or accidents caused by failure to follow the instructions.

[1] Cautions for service

- (1) Perform service after recovering the refrigerant left in unit completely.
- (2) Do not release refrigerant in the air.
- (3) After completing service, charge the cycle with specified amount of refrigerant.
- (4) When performing service, install a filter drier simultaneously.
- Be sure to use a filter drier for new refrigerant.

[2] Additional refrigerant charge

When charging directly from cylinder

- · Check that cylinder for R410A on the market is syphon type.
- Charging should be performed with the cylinder of syphon stood vertically. (Refrigerant is charged from liquid phase.)



[3] Service tools

Use the below service tools as exclusive tools for R410A refrigerant.

No.	Tool name	Specifications
0	Gauge manifold	· Only for R410A
		· Use the existing fitting specifications. (UNF1/2)
		· Use high-tension side pressure of 5.3MPa·G or over.
2	Charge hose	· Only for R410A
		· Use pressure performance of 5.09MPa G or over.
3	Electronic scale	—
(4)	Gas leak detector	· Use the detector for R134a, R407C or R410A.
5	Adaptor for reverse flow check	· Attach on vacuum pump.
6	Refrigerant charge base	—
7	Refrigerant cylinder	· Only for R410A · Top of cylinder (Pink)
		· Cylinder with syphon
8	Refrigerant recovery equipment	<u> </u>

PART NAMES AND FUNCTIONS

Indoor unit



• Wired remote controller (Option)



- "NOT AVAILABLE" message
 This research (to conside a function with the line of the target)
- This message is displayed if an invalid button is pressed (to operate a function that the indoor unit does not have). If a single remote controller is used to operate multiple indoor units simultaneously that are different types, this message will not be displayed as far as any of the indoor units is equipped with the function.

• IR wireless remote controller (Option)



SPECIFICATIONS

	Service Ref.				PKA-A24KA4.TH
	Power supply(phase, cycle, voltage)				1 phase, 60Hz, 208/230V
L		Max. Fuse Size	ax. Fuse Size		15
		Min.Circuit Ampacity		A	1
	External finish				White Munsell 1.0Y 9.2/0.2
	Heat exchanger				Plate fin coil
	Fan	Fan Fan(drive) × No.			Line flow fan (direct) × 1
Ē		Fan motor output		kW	0.056
5		Fan motor		F.L.A	0.36
N N N		Airflow(Low-Middle-High)		m ³ /min(CFM)	Dry: 18-20-22 (635-705-775)
ŏ					Wet: 16-18-20 (570-635-700)
Z	External static pressure		sure	Pa(mmAq)	0(direct blow)
_	Operation control & Thermostat				Remote controller & built-in
	Noise level(Low-Middle-High) dB			dB	39-42-45
	Field drain pipe I.D.			mm(in.)	16(5/8)
	Dimensions W D H		mm(in.)	1170 (46-1/16)	
			mm(in.)	295 (11-5/8)	
			H	mm(in.)	365 (14-3/8)
Weight kg		kg(lbs)	21 (46)		

	Service Ref.				PKA-A30KA4.TH
	Power supply(phase, cycle, voltage)				1 phase, 60Hz, 208/230V
	Max. Fuse Size			A	15
	Min.Circuit Ampacity		A	1	
	External finish				White Munsell 1.0Y 9.2/0.2
	Heat exchanger				Plate fin coil
L	Fan Fan(drive) × No.				Line flow fan (direct) × 1
Ξ		Fan motor output		kW	0.056
		Fan motor		F.L.A	0.36
ВO		Airflow(Low-Middle-High)		m³/min(CFM)	Dry: 18-20-22 (635-705-775)
Q					Wet: 16-18-20 (570-635-700)
Ξ		External static pres	ternal static pressure		0(direct blow)
_	Operation control & Thermostat				Remote controller & built-in
	Noise level(Low-Middle-High) dB			dB	39-42-45
	Field drain pipe I.D. mm			mm(in.)	16(5/8)
	Dimensions W mm(in.) D mm(in.) H Weight kg(lbs) Kg(lbs)		W	mm(in.)	1170 (46-1/16)
			mm(in.)	295 (11-5/8)	
			H	mm(in.)	365 (14-3/8)
			kg(lbs)	21 (46)	

	Service Ref.				PKA-A36KA4.TH
	Power supply(phase, cycle, voltage)				1 phase, 60Hz, 208/230V
		Max. Fuse Size		A	15
		Min.Circuit Ampacit	y	A	1
	External finish				White Munsell 1.0Y 9.2/0.2
	Heat exchanger				Plate fin coil
	Fan Fan(drive) × No.				Line flow fan (direct) × 1
ΙΞ		Fan motor output		kW	0.056
5		Fan motor		F.L.A	0.57
ЦЮ		Airflow(Low-Middle-High)		m³/min(CFM)	Dry: 20-23-26 (705-810-920)
Įğ					Wet: 18-21-23 (635-730-830)
l₩		External static pressure		Pa(mmAq)	0(direct blow)
-	Operation control & Thermostat				Remote controller & built-in
	Noise level(Low-Middle-High) dB			dB	43-46-49
	Field drain pipe I.D.			mm(in.)	16(5/8)
	Dimensions W		W	mm(in.)	1170 (46-1/16)
			D	mm(in.)	295 (11-5/8)
			Н	mm(in.)	365 (14-3/8)
	Weight		kg(lbs)	21 (46)	

NOISE CRITERION CURVES





OUTLINES AND DIMENSIONS

