

August 2009 No. OCH413

REVISED EDITION-C

TECHNICAL & SERVICE MANUAL

Series PLFY	Ceiling Cassettes	R410A / R407C / R22
Indoor unit		
[Model names]	[Service Ref.]	
PLFY-P32VBM-E	PLFY-P32VBM-E.UK	Revision:
	PLFY-P32VBM-E1.UK	 "10. SPECIAL FUNCTION" has
	PLFY-P32VBM-ER2.UK	been modified in REVISED
PLFY-P40VBM-E	PLFY-P40VBM-E.UK	EDITION-C.
	PLFY-P40VBM-E₁.UK	Some descriptions have been modified
	PLFY-P40VBM-ER2.UK	modilled.
PLFY-P50VBM-E	PLFY-P50VBM-E.UK	Please void OCH413 REVISED
	PLFY-P50VBM-E1.UK	EDITION-B.
	PLFY-P50VBM-ER2.UK	Note
PLFY-P63VBM-E	PLFY-P63VBM-E.UK	Note: • This manual does not cover out-
	PLFY-P63VBM-E1.UK PLFY-P63VBM-ER2.UK	door units.
PLFY-P80VBM-E	PLFY-P80VBM-E.UK	When servicing them, please
FEFT-FOUV BINI-E	PLFY-P80VBM-E1.UK	refer to the outdoor unit's service
	PLFY-P80VBM-ER2.UK	manual. RoHS compliant products have
PLFY-P100VBM-E	PLFY-P100VBM-E.UK	<g> mark on the spec name</g>
-	PLFY-P100VBM-ER2.UK	plate.
PLFY-P125VBM-E	PLFY-P125VBM-E.UK	
	PLFY-P125VBM-ER2.UK	



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PARTS CATALOG (OCB413)

TECHNICAL CHANGES

PLP-6BAJ (Automatic filter elevation panel, option)

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The controller board (U.B) has been changed. (only for the panel but not for the service part)

PLFY-P32VBM-E1.UK	\rightarrow	PLFY-P32VBM-ER2.UK
PLFY-P40VBM-E1.UK	\rightarrow	PLFY-P40VBM-ER2.UK
PLFY-P50VBM-E1.UK	\rightarrow	PLFY-P50VBM-ER2.UK
PLFY-P63VBM-E1.UK	\rightarrow	PLFY-P63VBM-ER2.UK
PLFY-P80VBM-E1.UK	\rightarrow	PLFY-P80VBM-ER2.UK
PLFY-P100VBM-E.UK	\rightarrow	PLFY-P100VBM-ER2.UK
PLFY-P125VBM-E.UK	\rightarrow	PLFY-P125VBM-ER2.UK

INDOOR CONTROLLER BOARD (I.B) has been changed. (S/W version up)

PLFY-P32VBM-E.UK	\rightarrow	PLFY-P32VBM-E1.UK
PLFY-P40VBM-E.UK	\rightarrow	PLFY-P40VBM-E₁.UK
PLFY-P50VBM-E.UK	\rightarrow	PLFY-P50VBM-E1.UK
PLFY-P63VBM-E.UK	\rightarrow	PLFY-P63VBM-E1.UK
PLFY-P80VBM-E.UK	\rightarrow	PLFY-P80VBM-E₁.UK

FAN MOTOR (MF) has been changed. TURBO FAN, NUT and WASHER have been changed.



CAUTIONS RELATED TO NEW REFRIGERANT

Cautions for units utilizing refrigerant R407C

Do not use the existing refrigerant piping.

The old refrigerant and lubricant in the existing piping contain a large amount of chlorine which may cause the lubricant deterioration of the new unit.

Use "low residual oil piping"

If there is a large amount of residual oil (hydraulic oil, etc.) inside the piping and joints, deterioration of the lubricant will result.

Store the piping to be used indoors during installation and both ends sealed until just before brazing. (Store elbows and other joints in a plastic bag.)

If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.

Use ESTR , ETHER or HAB as the lubricant to coat flares and flange connection parts.

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

Use liquid refrigerant to charge the system.

If gas refrigerant is used to seal the system, the composition of the refrigerant in the cylinder will change and performance may drop.

Do not use a refrigerant other than R407C.

If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the lubricant deterioration.

Use a vacuum pump with a reverse flow check valve.

The vacuum pump oil may flow back into the refrigerant cycle and cause the lubricant deterioration.

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

[1] Cautions for service

After recovering the all refrigerant in the unit, proceed to working.

- ·Do not release refrigerant in the air.
- After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

[2] Refrigerant recharging

- (1) Refrigerant recharging process
 - ①Direct charging from the cylinder.
 - · R407C cylinder available on the market has a syphon pipe.
 - \cdot Leave the syphon pipe cylinder standing and recharge it.
 - (By liquid refrigerant)



- (2) Recharge in refrigerant leakage case
 - · After recovering the all refrigerant in the unit, proceed to working.
 - · Do not release the refrigerant in the air.
 - After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

[3] Service tools

Use the below service tools as exclusive tools for R407C refrigerant.

No.	Tool name	Specifications
0	Gauge manifold	· Only for R407C
		· Use the existing fitting SPECIFICATIONS. (UNF7/16)
		· Use high-tension side pressure of 3.43MPa·G or over.
2	Charge hose	· Only for R407C
		· Use pressure performance of 5.10MPa·G or over.
3	Electronic scale	
4	Gas leak detector	· Use the detector for R134a or R407C.
5	Adapter for reverse flow check	· Attach on vacuum pump.
6	Refrigerant charge base	
0	Refrigerant cylinder	· For R407C · Top of cylinder (Brown) · Cylinder with syphon
8	Refrigerant recovery equipment	

Cautions for units utilizing refrigerant R410A

Do not use the existing refrigerant piping.

The old refrigerant and lubricant in the existing piping contains a large amount of chlorine which may cause the lubricant deterioration of the new unit.

Use "low residual oil piping"

If there is a large amount of residual oil (hydraulic oil, etc.) inside the piping and joints, deterioration of the lubricant will result.

Store the piping to be used indoors during installation and 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.

Use ester oil, ether oil or alkylbenzene oil (small amount) as the refrigerant oil applied to flares and flange connections.

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.

[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
1	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	
0	Refrigerant cylinder	· Only for R410A · Top of cylinder (Pink)
		· Cylinder with syphon
8	Refrigerant recovery equipment	

PART NAMES AND FUNCTIONS



• Wired remote controller



Note:

- "PLEASE WAIT" message
- This message is displayed for approximately 3 minutes when power is supplied to the indoor unit or when the unit is recovering from a power failure. • "NOT AVAILABLE" message
- 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.

4-1. SPECIFICATIONS

4

Model			PLFY-P32VBI	M-E	PLFY-P40VB	M-E	PLFY-P50VBM-E	PLFY-P63VE	ВМ-Е
Power source					1-phase 220-	240V 50H	lz, 1-phase 220V 60Hz	I.	
Cooling capacity	* 1	kW	3.6		4.5		5.6	7.1	
(Nominal)	* 1	kcal / h	3,100		3,900		4,800	6,100	
(101111101)	*1	Btu / h	12,300		15,400		19,100	24,200	
	* 2	kcal/h	3,150		4,000		5,000	6,300	
		kW	,		,		,		
	Power input		0.03		0.04		0.04	0.05	
	Current input	A	0.22		0.29		0.29	0.36	
leating capacity	* 3	kW	4.0		5.0		6.3	8.0	
Nominal)	* 3	kcal / h	3,400		4,300		5,400	6,900	
	* 3	Btu / h	13,600		17,100		21,500	27,300	
	Power input	kW	0.02		0.03		0.03	0.04	
	Current input	A	0.14		0.22		0.22	0.29	
External finish	· ·				G	alvanized	steel sheet		
External dimension	UH x W x D	mm				258 x 84			
		in.	1		10-3		I/8 x 33-1/8		
lot woight		kg (lb)	22 (49)		22 (49)	/10 x 33-1	22 (49)	23 (51)	
Net weight		Kg (ID)			. ,		, ,	,	
Decoration panel	Model		PLP-6BA		PLP-6BA		PLP-6BA	PLP-6BA	4
	External finish				MUN	`	4Y 8.9/0.4)		
	Dimension	mm				35 x 95			
	H × W × D	in.			1-3/8		6 x 37-7/16		
	Net weight	kg (lb)				6 (*	13)		
Heat exchanger					Cross fin (A	Aluminum	fin and copper tube)		
FAN	Type × Quantity		Turbo fan ×	1	Turbo fan x	Т	Turbo fan × 1	Turbo fan ›	× 1
	External	Ра	0		0		0	0	
	static press.	mmH ₂ O	0		0		0	0	
	Motor type				U U	DC m		U 0	
		kW	0.050		0.050		0.050	0.050	
	Motor output		0.050		0.050			0.050	
	Driving mechanism					Direct-			
	Airflow rate	m ³ / min	11 - 12 - 13 -		12 - 13 - 14 -		12 - 13 - 14 - 16	14 - 15 - 16	
	(Low-Mid2-	L/s	183 - 200 - 217	- 233	200 - 217 - 233	- 267	200 - 217 - 233 - 267	233 - 250 - 267	7 - 300
	Mid1-High)	cfm	388 - 424 - 459	- 494	424 - 459 - 494	- 565	424 - 459 - 494 - 565	494 - 530 - 565	5 - 636
Noise level (Low-Mid2-Mid1-High) dB <a>		27 - 28 - 29 -	31	27 - 28 - 30 -	· 31	27 - 28 - 30 - 31	28 - 29 - 30	- 32	
(measured in anec	choic room)								
Insulation material	,					P	S		
Air filter						PP hone			
Protection device						Fu	,		
Refrigerant control	dovico					LE			
					D410A		R22 CITY MULTI		
Connectable outdo		"		E 1				(0.50 (/0/0)	
Diameter of	,	mm (in.)	φ6.35 (φ1/4)	Flare	φ6.35 (φ1/4)	Flare	ϕ 6.35 (ϕ 1/4) Flare	φ9.52 (φ3/8)	Flare
refrigerant pipe	(R22, R407C)		φ6.35 (φ1/4)	Flare	φ6.35 (φ1/4)	Flare	ϕ 9.52 (ϕ 3/8) * 4 Flare	<i>φ</i> 9.52 (<i>φ</i> 3/8)	Flare
	Gas (R410A)	mm (in.)	φ12.7 (φ1/2)	Flare	φ12.7 (φ1/2)	Flare	φ12.7 (φ1/2) Flare	φ15.88 (φ5/8)	Flare
	(R22, R407C)		φ12.7 (φ1/2)	Flare	φ12.7 (φ1/2)	Flare	ǿ15.88 (ǿ5/8) * 4 Flare	φ15.88 (φ5/8)	Flare
Field drain pipe size	e	mm (in.)				O.D. Ø32	2 (VP-25)		
Standard	Document				Installatio	on Manua	I, Instruction Book		
attachment	Accessory						,		
Remark	Optional parts								
Nonark		1 **1		,			PLP-6BA		^
	Decoration pane		PLP-6BA		PLP-6BA		-	PLP-6BA	
	Air outlet shutter		PAC-SH51SF		PAC-SH51SF		PAC-SH51SP-E PAC-SH5		
	High efficiency fi	Iter	PAC-SH59K	.F-E	PAC-SH59k	(F-E	PAC-SH59KF-E	PAC-SH59	KF-E
	element **2		ļ		ļ				
	Multi-function ca	sement	PAC-SH53TM	1-Е	PAC-SH53TN	Л- Е	PAC-SH53TM-E	PAC-SH53T	M-E
			**1 PI FY-P-\/RM	F should	use together with F				
					essary to use with f		SH59KF-F		
				0 1100					
	Installation				work, insulation work,	electrical w	riring, power source switch, and o	other items shall be re	eferred to
			the Installation Manua	l.					
Noto -	v 1 Nominal apalia	aditiona	Naminal	ling conditi	iono ·	2 Nominel	heating conditions	Linit conve	erter
	*1 Nominal cooling co r: 27°C DB/19°C WB (* 2 Nominal coo WB) 27°C DB/19.5				heating conditions (68°FDB)	Unit conve	
Note : Indoor Outdoor	r: 27°CDB/19°CWB (5°C WB (81	tions * °FDB/67°FWB)	20°C DB	heating conditions (68°FDB) ℃WB (45°FDB/43°FWB)	kcal/h = kW × 8	860
Indoor Outdoor Pipe length	r: 27°C DB/19°C WB (r: 35°C DB (95°FDB) 1: 7.5 m (24-9/16 ft)		FWB) 27°C DB/19.5 35°C DB (95° 5 m (16-3/8 1	5°C WB (81 °FDB)		20°C DB 7°C DB/6 7.5 m (2-	(68°FĎB) ℃WB (45°FDB/43°FWB) 4-9/16 ft)		860 3,412
Indoor Outdoor Pipe length Level difference	r: 27°C DB/19°C WB (r: 35°C DB (95°FDB) 1: 7.5 m (24-9/16 ft) 2: 0 m (0 ft)	81°FDB/66°F	FWB) 27°C DB/19.5 35°C DB (95°	5°C WB (81 °FDB)		20°C DB 7°C DB/6	(68°FĎB) ℃WB (45°FDB/43°FWB) 4-9/16 ft)	kcal/h = kW × 8 Btu/h = kW × 3	860 3,412 1 × 35.31
Outdoor Pipe length Level difference * 4 PLFY-P·VBM-ER2: Co	r: 27°C DB/19°C WB (r: 35°C DB (95°FDB) 1: 7.5 m (24-9/16 ft)	81°FDB/66°F	FWB) 27°C DB/19.5 35°C DB (95° 5 m (16-3/8 1	5°C WB (81 °FDB)		20°C DB 7°C DB/6 7.5 m (2-	(68°FĎB) ℃WB (45°FDB/43°FWB) 4-9/16 ft)	kcal/h = kW × 8 Btu/h = kW × 3 cfm = m ³ /min	860 3,412 n × 35.31 4536

Model			PLFY-P80VBM-E	PLFY-P100VBM-E	PLFY-P125VBM-E	
Power source Cooling capacity	* 1	kW	9.0	1-phase 220-240V 50⊢ 11.2	12, 1-phase 220V 60H2	
(Nominal)	* 1	kcal / h	7,700	9,600	12,000	
(Norminal)	* 1	Btu / h	30,700	38,200	47,800	
	* 2	kcal / h	8,000	10,000	12,500	
	Power input	kW	0.07	0.15	0.16	
	Current input	A	0.51	1.00	1.07	
Heating capacity	*3		10.0	12.5	16.0	
(Nominal)	* 3	kcal / h	8,600	10,800	13,800	
(Norminal)	* 3	Btu / h	34,100	42,700	54,600	
	Power input	kW	0.06	0.14	0.15	
	Current input	A	0.43	0.94	1.00	
External finish				Galvanize	d steel sheet	
External dimensior	n H × W × D	mm	258 x 840 x 840	298 x 84		
		in.	10-3/16 x 33-1/8 x 33-1/8	11-3/4 x 33-1		
Net weight		kg (lb)	23(51)	27(60)	27(60)	
Decoration panel	Model	5(1)	PLP-6BA	PLP-6BA	PLP-6BA	
2 ocoration partor	External finish			MUNSELL (6.4		
	Dimension	mm		· · · · · · · · · · · · · · · · · · ·	i0 x 950	
	H × W × D	in.		1-3/8 x 37-7/16		
	Net weight	kg (lb)	1	6(1		
Heat exchanger		/	1	Cross fin (Aluminum	/	
FAN	Type × Quantity		Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	
	External	Pa	0	0	0	
	static press.	mmH ₂ O	0	0	0	
	Motor type			DC m	notor	
	Motor output	kW	0.050	0.120	0.120	
	Driving mechanisn	1		Direct	t-drive	
	Airflow rate	m ³ / min	16 - 18 - 20 - 22	21 - 24 - 27 - 29	22 - 25 - 28 - 30	
	(Low-Mid2-	L/s	267 - 300 - 333 - 367	350 - 400 - 450 - 483	367 - 417 - 467 - 500	
	Mid1-High)	cfm	565 - 636 - 706 - 777	742 - 848 - 953 - 1024	777 - 883 - 989 - 1059	
Noise level (Low-M	/id2-Mid1-High)	dB <a>	30 - 32 - 35 - 37	34 - 37 - 39- 41	35 - 38 - 41 - 43	
(measured in anechoic room)						
Insulation material	,			 P	èS	
Air filter				PP hone	eycomb	
Protection device				Fu	ISE	
Refrigerant control	device			LE	EV	
Connectable outdo	oor unit			R410A, R407C,	R22 CITY MULTI	
Diameter of	Liquid (R410A)	mm (in.)	φ9.52 (φ3/8) Flare	Ø9.52 (Ø3/8) Flare	φ9.52 (φ3/8) Flare	
refrigerant pipe	(R22, R407C)		φ9.52 (φ3/8) Flare	φ9.52 (φ3/8) Flare	Ø9.52 (Ø3/8) Flare	
	Gas (R410A)	mm (in.)	φ15.88 (φ5/8) Flare	∮15.88 (∮5/8) Flare	ϕ 15.88 (ϕ 5/8) Flare	
	(R22, R407C)		φ15.88 (φ5/8) Flare	∮19.05 (∮3/4) *4 Flare		
Field drain pipe siz	e	mm (in.)		O.D. Ø32	2 (VP-25)	
Standard	Document			Installation Manua	al, Instruction Book	
attachment	Accessory					
Remark	Optional parts					
	Decoration pane		PLP-6BA	PLP-6BA	PLP-6BA	
	Air outlet shutter	1	PAC-SH51SP-E	PAC-SH51SP-E	PAC-SH51SP-E	
	High efficiency fi	lter	PAC-SH59KF-E	PAC-SH59KF-E	PAC-SH59KF-E	
	element **2					
	Multi-function ca	sement	PAC-SH53TM-E	PAC-SH53TM-E	PAC-SH53TM-E	
				d use together with PLP-6BA.		
			**2. PAC-SH53TM-E is ner	cessary to use with filter PAC-	-SH59KF-E.	
	Installation			t work, insulation work, electrical w	viring, power source switch, and o	ther items shall be referred to
	Installation					
	Installation		the Installation Manual.			
Note -		anditions			l heating conditions	Unit converter
Note : Indoor	* 1 Nominal cooling co r: 27°C DB/19°C WB (81°FDB/66°I	* 2 Nominal cooling cond FWB) 27°C DB/19.5°C WB (8	1°FDB/67°FWB) 20°C DB	I heating conditions (68°FDB)	Unit converter kcal/h = kW × 860
Indoor Outdoor	* 1 Nominal cooling co r: 27°C DB/19°C WB (r: 35°C DB (95°FDB)	81°FDB/66°I	* 2 Nominal cooling cond FWB) 27°C DB/19.5°C WB (8 35°C DB (95°FDB)	1°FDB/67°FWB) 20°C DB 7°C DB/6	· (68°FDB) 6CWB (45°FDB/43°FWB)	$kcal/h = kW \times 860$ Btu/h = kW × 3,412
Indoor	* 1 Nominal cooling cc r: 27°C DB/19°C WB (r: 35°C DB (95°F DB) h: 7.5 m (24-9/16 ft)	81°FDB/66°I	 * 2 Nominal cooling cond FWB) 27°C DB/19.5°C WB (8 35°C DB (95°FDB) 5 m (16-3/8 ft)	1°FDB/67°FWB) 20°C DB 7°C DB/6 7.5 m (2	(68°FDB) 6CWB (45°FDB/43°FWB) 24-9/16 ft)	kcal/h = kW × 860 Btu/h = kW × 3,412 cfm = m ³ /min × 35.31
Indoor Outdoor Pipe length Level difference * 4 PLFY-P-VBM-ER2: Co	* 1 Nominal cooling cc r: 27°C DB/19°C WB (r: 35°C DB (95°F DB) h: 7.5 m (24-9/16 ft)	81°FDB/66°I	* 2 Nominal cooling cond FWB) 27°C DB/19.5°C WB (8 35°C DB (95°FDB)	1°FDB/67°FWB) 20°C DB 7°C DB/6	(68°FDB) 6CWB (45°FDB/43°FWB) 24-9/16 ft)	$kcal/h = kW \times 860$ Btu/h = kW × 3,412

4-2. ELECTRICAL PARTS SPECIFICATIONS

Service Ref. Parts name	Symbol	PLFY-P32VBM-E.UKPLFY-P40VBM-E.UKPLFY-P50VBM-E.UKPLFY-P63VBM-E.UKPLFY-P32VBM-E1.UKPLFY-P40VBM-E1.UKPLFY-P50VBM-E1.UKPLFY-P63VBM-E1.UKPLFY-P32VBM-ER2.UKPLFY-P40VBM-ER2.UKPLFY-P50VBM-ER2.UKPLFY-P63VBM-ER2.UK			
Room temperature thermistor	TH21	Resistance 0°C/15kΩ, 10°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.4kΩ, 30°C/4.3kΩ, 40°C/3.0kΩ			
Liquid pipe thermistor	TH22	Resistance 0℃/15kΩ, 10℃/9.6kΩ, 20℃/6.3kΩ, 25℃/5.4kΩ, 30℃/4.3kΩ, 40℃/3.0kΩ			
Gas pipe thermistor	TH23	Resistance 0°C/15kΩ, 10°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.4kΩ, 30°C/4.3kΩ, 40°C/3.0kΩ			
Fuse (Indoor controller board)	FUSE	250V 6.3A			
Fan motor	MF	8-pole OUTPUT 50W			
Vane motor	MV	MSBPC20M04 DC12V 300Ω/phase			
Drain pump	DP	PLD-12230ME-1 INPUT 12/10.8W 24 ℓ /Hr			
Drain float switch	FS	open/short detection			
Linear expansion valve	LEV	DC12V Stepping motor drive port dimension ϕ 5.2 (0~2000pulse) EDM-40YGME			
Power supply terminal block	TB2	(L, N, ⁽¹⁾) Rated to 330V 30A *			
Transmission terminal block	TB5	(M1, M2, S) Rated to 250V 20A *			
MA remote controller terminal block	TB15	(1, 2) Rated to 250V 10A *			

* Note: Refer to WIRING DIAGRAM for the supplied voltage.

Service Ref.		PLFY-P80VBM-E.UK	PLFY-P100VBM-E.UK	PLFY-P125VBM-E.UK			
Parts name	Symbol	PLFY-P80VBM-E1.UK PLFY-P80VBM-ER2.UK	PLFY-P100VBM-ER2.UK	PLFY-P125VBM-ER2.UK			
Room temperature thermistor	TH21	Resistance 0°C/15kΩ, 10°C/9.6kΩ, 20°C/6.3kΩ, 25°C/5.4kΩ, 30°C/4.3kΩ, 40°C/3.0kΩ					
Liquid pipe thermistor	TH22	Resistance 0°C/15kΩ, 10°	C/9.6kΩ, 20℃/6.3kΩ, 25℃/5.4k	Ω, 30℃/4.3kΩ, 40℃/3.0kΩ			
Gas pipe thermistor	TH23	Resistance 0°C/15kΩ, 10°0	C/9.6kΩ, 20℃/6.3kΩ, 25℃/5.4k	Ω, 30℃/4.3kΩ, 40℃/3.0kΩ			
Fuse (Indoor controller board)	FUSE		250V 6.3A				
Fan motor	MF	8-pole OUTPUT 50W 8-pole OUTPUT 120W					
Vane motor	MV	MSBPC20M04 DC12V 300Ω/phase					
Drain pump	DP	PLD-12230ME-1 INPUT 12/10.8W 24 ℓ /Hr					
Drain float switch	FS	open/short detection					
Linear expansion valve	LEV	DC12V Stepping motor drive port dimension ϕ 5.2 (0~2000pulse) EDM-80YGME					
Power supply terminal block	TB2	(L, N, ⊕) Rated to 330V 30A *					
Transmission terminal block	TB5	(M1, M2, S) Rated to 250V 20A *					
MA remote controller terminal block	TB15	(1, 2) Rated to 250V 10A *					

* Note: Refer to WIRING DIAGRAM for the supplied voltage.

4-3. SOUND LEVEL



* Measured in anechoic room.

4-4. NC curves





5-1. PLACEMENT OF THE AIR OUTLETS

• For this grille, the blowout direction comes in 11 patterns.

Also, by setting the remote controller to the appropriate settings, you can adjust the airflow and speed. Select the settings from Table1 according to the location in which you want to install the unit.

1) Decide on the pattern of the airflow direction.



Note1. For 3 and 2-direction settings, please use the air outlet shutter plate (option).

- According to the number of air outlets and height of the ceiling to install the unit, be sure to set up the switches (SWA, SWB) on the circuit board to the appropriate setting.
 - · Correspondence of ceiling heights to numbers of air outlets



PLFY-P32·P40·P50·P63·P80VBM-E₍₁₎.UK PLFY-P32·P40·P50·P63·P80VBM-ER2.UK

SWA	0	2	3
SWB	Silent	Standard	High ceiling
4 direction	2.5m	2.7m	3.5m
3 direction	2.7m	3.0m	3.5m
2 direction	3.0m	3.3m	3.5m

PLFY-P100·P125VBM-E.UK

PLFY-P100·P125VBM-ER2.UK

SWA	0	2	3
SWB	Silent	Standard	High ceiling
4 direction	2.7m	3.2m	4.5m
3 direction	3.0m	3.6m	4.5m
2 direction	3.3m	4.0m	4.5m

5-2. Branch duct hole and fresh air intake hole

At the time of installation, use the duct holes (cut out) located at the positions shown in following diagram, as and when required.

• A fresh air intake hole for the optional multi function casement can also be made.

Note:

The figures marked with * in the drawing below represent the dimensions of the main unit excluding those of the optional multi function casement.

When installing the optional multi function casement, add 135 mm to the dimensions marked on the figure. When installing the branch ducts, be sure to insulate adequately. Otherwise, condensation and dripping may occur.



5-3. OPERATION IN CONJUNCTION WITH DUCT FAN (Booster fan)

- Whenever the indoor unit is operating, the duct fun also operates.
 - Connect the optional multiple remote controller adapter(PAC-SA88HA-E) to the connector CN51 on the indoor controller board.
 - (2) Drive the relay after connecting the 12V DC relay between the Yellow and Orange connector wires.
 - MB: Electromagnetic switch power relay for duct fan. X: Auxiliary relay (For DC 12V, coil rating : 1.0W or below)



5-4. FRESH AIR INTAKE AMOUNT & STATIC PRESSURE CHARACTERISTICS

□ PLFY-P32 · P40 · P50 · P63 · P80VBM-E(1).UK PLFY-P32 · P40 · P50 · P63 · P80VBM-ER2.UK

Multifunction casement + Standard filter















Duct characteristics Curve in the 1 grap t ⊲ m C 0



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- Static pressure loss of fresh air A٠ intake duct system with airflow amount Q <Pa>
- в ·Forced static pressure at air conditioner inlet with airflow amount Q <Pa>
- C···Static pressure of booster fan with airflow amount Q <Pa>
- D ·Static pressure loss increase amount of fresh air intake duct system for airflow amount Q <Pa> Е Static pressure of indoor unit with
- airflow amount Q <Pa> Qa···Estimated amount of fresh air intake without D <m³/min>

Multifunction casement + High efficiency filter



Multifunction casement + High efficiency filter

OUTLINES AND DIMENSIONS

PLFY-P32VBM-E(1).UK PLFY-P80VBM-E(1).UK PLFY-P32VBM-ER2.UK PLFY-P80VBM-ER2.UK

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PLFY-P40VBM-E(1).UK PLFY-P100VBM-E.UK PLFY-P40VBM-ER2.UK PLFY-P100VBM-ER2.UK

PLFY-P50VBM-E(1).UK PLFY-P125VBM-E.UK PLFY-P50VBM-ER2.UK PLFY-P63VBM-ER2.UK PLFY-P100VBM-ER2.UK

PLFY-P63VBM-E(1).UK

Unit : mm



WIRING DIAGRAM

PLFY-P32VBM-E(1).UK PLFY-P80VBM-E(1).UK PLFY-P32VBM-ER2.UK PLFY-P80VBM-ER2.UK

PLFY-P40VBM-E(1).UK PLFY-P100VBM-E.UK PLFY-P40VBM-ER2.UK PLFY-P100VBM-ER2.UK

PLFY-P50VBM-E(1).UK PLFY-P125VBM-E.UK PLFY-P50VBM-ER2.UK PLFY-P100VBM-ER2.UK

PLFY-P63VBM-E(1).UK

PLFY-P63VBM-ER2.UK

-										
	MBOL	OL NAME		S	SYMBOL NAME		NAME	SYMBOL		NAME
I. B		INDOOR CONT	ROLLER BOARD	TB2		TERMINAL	POWER SUPPLY	OPT	ION PART	
(CN27	CONNECTOR	DAMPER	TB5		BLOCK	TRANSMISSION		W.B	PCB FOR WIRELESS REMOTE CONTROLLER
(CN32		REMOTE SWITCH	TB15	5		MA-REMOTE CONTROLLER	1	BZ	BUZZER
	CN51		CENTRALLY CONTROL	TH2'	1	THERMISTOR	ROOM TEMP. DETECTION		LED1	LED (OPERATION INDICATION : GREEN)
	CN52		REMOTE INDICATION				(0°C / 15kΩ, 25°C / 5.4kΩ)		LED2	LED (PREPARATION FOR HEATING : ORANGE
1	FUSE	FUSE (T6.3AL2		TH22			PIPE TEMP. DETECTION / LIQUID		RU	RECEVING UNIT
	LED1	POWER SUPP		1 1			(0°C / 15kΩ, 25°C / 5.4kΩ)		SW1	EMERGENCY OPERATION (HEAT / DOWN)
	LED2	POWER SUPP		TH23	3		PIPE TEMP. DETECTION / GAS		SW2	EMERGENCY OPERATION (COOL / UP)
	SW2	SWITCH	CAPACITY CODE			(0°C / 15kΩ, 25°C / 5.4kΩ)				
	SW3		MODE SELECTION	A. B		ADDRESS BOA				
	SW4		MODEL SELECTION		SWA	SWITCH	CEILING HEIGHT SELECTOR			
	SWE		DRAIN PUMP (TEST MODE)		SWB		DISCHARGE OUTLET NUMBER	1		
	X1	AUX. RELAY	DRAIN PUMP				SELECTOR			
DP		DRAIN PUMP			SWC		OPTION SELECTOR			
FS		DRAIN FLOAT SWITCH			SW1		MODE SELECTION			
LEV		LINEAR EXPA	NSION VALVE	SW11			ADDRESS SETTING 1s DIGIT	1		
MF		FAN MOTOR		SW12			ADDRESS SETTING 10ths DIGIT			
MV		VANE MOTOR			SW14		BRANCH NO.			



NOTES:

- 1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- 2. In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
- 3. In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- 4. Symbol [S] of TB5 is the shield wire connection.
- 5. Symbols used in wiring diagram above are, III: terminal block, III: connecter.
- 6. The setting of the SW2 dip switches differs in the capacity. For the detail, refer to fig *1.

LED on indoor board for service

Mark	Meaning	Function		
LED1	Main power supply	Main Power supply (Indoor unit:220-240V) power on → Lamp is lit.		
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → Lamp is lit.		

PLFY-P32VBM-E(1).UK PLFY-P80VBM-E(1).UK PLFY-P32VBM-ER2.UK PLFY-P80VBM-ER2.UK

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PLFY-P40VBM-E(1).UK PLFY-P100VBM-E.UK PLFY-P40VBM-ER2.UK PLFY-P100VBM-ER2.UK

PLFY-P50VBM-E(1).UK PLFY-P63VBM-E(1).UK PLFY-P125VBM-E.UK PLFY-P50VBM-ER2.UK PLFY-P63VBM-ER2.UK PLFY-P100VBM-ER2.UK



Unit : mm(inch)

Capacity	PLFY-P32, P40VBM-E(1)	PLFY-P50VBM-E(1)	PLFY-P63, P80VBM-E(1)	PLFY-P100, P125VBM-E
Gas pipe	pipe ϕ 12.7(1/2) ϕ 12.7(1/2)		¢15.88(5/8)	¢15.88(5/8)/¢19.05(3/4)
Liquid pipe	¢6.35(1/4)	<i>φ</i> 6.35(1/4)/ <i>φ</i> 9.52(3/8)	<i>∲</i> 9.52(3/8)	Ø9.52(3/8)

Capacity Item	PLFY-P32, P40, P50VBM-ER2	PLFY-P63, P80, P100, P125VBM-ER2
Gas pipe	φ12.7(1/2)	φ15.88(5/8)
Liquid pipe	φ6.35(1/4)	φ9.52(3/8)

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9-1. HOW TO CHECK THE PARTS PLFY-P32/40/50/63/80/100/125VBM-E(R2).UK PLFY-P32/40/50/63/80VBM-E1.UK

Parts name	Check points							
Room temperature thermistor (TH21) Liquid pipe thermistor		ector then measure the erature of 10℃~30℃)		a tester.				
(TH22)	Normal	Abnormal	(Defende 7	- 	- eteriotic energie)			
Gas pipe thermistor (TH23)	4.3kΩ~9.6kΩ	nermistor char	acteristic graph.)					
Vane motor (MV)	Measure the resistance between the terminals with a tester. (At the ambient temperature of $20^{\circ}C \sim 30^{\circ}C$)							
White	Cr	onnector	No	rmal	Abnormal			
	Red - Yellow (5-	3, 10-8, 15-13, 20-18)						
	Red - Blue (5-	1, 10-6, 15-11, 20-16)	3(Ω0Ω	Open or short			
Red	– • •	4, 10-9, 15-14, 20-19)		5052	open of short			
Blue Yellow	Red - White (5)-	2, 10-7, 15-12, 20-17)						
Drain pump (DP)	Measure the resistant (Winding temperature	ce between the termine 20° C)	als with a tester.					
	Normal	Abnormal						
YLW 3	290Ω	Open or short						
Drain float switch (FS)	Measure the resistan	ce between the termin	als with a tester.					
Moving part	State of moving part	Normal	Abnormal		Switch			
	UP	Short	Other than sho	ort	Magnet			
	DOWN	Open	Other than ope	ſ	മി .			
4					Moving Part			
	With electricity being turned on, measure the power voltage between connectors with tester. i-see sensor rotates and pull out the connector of motor for i-see sensor. Black plastic tape Do not disassemble corner panel with i-see sensor.							
	i-see sensor (At the a	ambient temperature o	of 10℃~40℃)					
4 3 2 1	i-see sensor connec	ctor No	rmal	Abnorm				
4 3 2 1 Blue BlackPink Brown	i-see sensor connec ©(-)	ctor No DC 1.857\	rmal /~ 3.132V	Other than the	e normal			
	i-see sensor connec @(-)@(+) ①(+)@(-)	tor No DC 1.857\ DC 0.939\	rmal /~ 3.132V /~ 1.506V	Other than the Other than the	e normal			
Blue BlackPink Brown	i-see sensor connect @(-)@(+) 	ctor No DC 1.857\	rmal /~ 3.132V /~ 1.506V electricity into electricity electricity into electricity into electricity into electricity into electricity into electricity electricit	Other than the Other than the	e normal			
Blue Black Pink Brown Vane motor for i-see sensor (Option)	i-see sensor connect @(-)@(+) ①(+)@(-) NOTE : Be careful no Measure the resistan (At the ambient temp	ctor No DC 1.857 DC 0.939 ot to discharge static e ce between the termir erature of 20°C~30°C)	rmal /~ 3.132V /~ 1.506V electricity into electricity int	Other than the Other than the ctronics.	e normal			
Blue Black Pink Brown Vane motor for i-see sensor (Option)	i-see sensor connect @(-)@(+) 	tor No DC 1.857 DC 0.939 ot to discharge static e ce between the termir	rmal /~ 3.132V /~ 1.506V electricity into electricity electricity into electricity into electricity into electricity into electricity into electricity electricit	Other than the Other than the ctronics.	e normal			
Blue Black Pink Brown	i-see sensor connect (2(-)(4)+) (1)(2)(-) NOTE : Be careful no Measure the resistan (At the ambient temp Connector Red - Yellow Red - Blue	tor No DC 1.857 DC 0.939 ot to discharge static e ce between the termir erature of 20°C ~30°C) Normal	rmal /~ 3.132V /~ 1.506V electricity into electricity electricity into electricity into electricity into electricity into electricity into electricity electricit	Other than the Other than the ctronics.	e normal			
Vane motor for i-see sensor (Option) White	i-see sensor connect (2(-)@(+) (1)@(-) NOTE : Be careful no Measure the resistan (At the ambient temp Connector Red - Yellow Red - Blue Red - Orange	ctor No DC 1.857 DC 0.939 ot to discharge static e ce between the termir erature of 20°C~30°C)	rmal /~ 3.132V /~ 1.506V electricity into electricity int	Other than the Other than the ctronics.	e normal			
Vane motor for -see sensor (Option) White	i-see sensor connect (2(-)(4)+) (1)(2)(-) NOTE : Be careful no Measure the resistan (At the ambient temp Connector Red - Yellow Red - Blue	tor No DC 1.857 DC 0.939 ot to discharge static e ce between the termir erature of 20°C ~30°C) Normal	rmal /~ 3.132V /~ 1.506V electricity into electricity electricity into electricity into electricity into electricity into electricity into electricity electricit	Other than the Other than the ctronics.	e normal			
Blue Black Pink Brown Vane motor for i-see sensor (Option) White Drange Red Blue Yellow Linear expansion	i-see sensor connect $@(-)@(+)$ $@(+)@(-)$ NOTE : Be careful notMeasure the resistan(At the ambient temp)ConnectorRed - YellowRed - BlueRed - OrangeRed - White	tor No DC 1.857 DC 0.939 ot to discharge static e ce between the termir erature of 20°C ~30°C) Normal	rmal /~ 3.132V /~ 1.506V electricity into electricity	Other than the Other than the ctronics.	e normal			
Blue BlackPink Brown Vane motor for i-see sensor (Option) White Orange Red Blue Yellow Linear expansion valve(LEV) Blue	i-see sensor connect $@(-)@(+)$ $@(+)@(-)$ NOTE : Be careful notMeasure the resistan(At the ambient temp)ConnectorRed - YellowRed - BlueRed - OrangeRed - White	ctor No DC 1.857\ DC 0.939\ ot to discharge static e ce between the termir erature of 20°C ~30°C) Normal 250Ω	rmal /~ 3.132V /~ 1.506V electricity into electricity	Other than the Other than the ctronics.	e normal e normal			
Blue Black Pink Brown Vane motor for i-see sensor (Option) White Red Blue Yellow Linear expansion	i-see sensor connect (a) (-)(a) (+) (b) (+)(a) (-) NOTE : Be careful no Measure the resistan (At the ambient temp Connector Red - Yellow Red - Blue Red - Orange Red - White Disconnect the connect	ctor No DC 1.857\ DC 0.939\ ot to discharge static e ce between the termir erature of 20°C ~30°C) Normal 250Ω ector then measure the	rmal /~ 3.132V /~ 1.506V electricity into electricity	Other than the Other than the ctronics. nal short e with a tester. Abnormal	e normal e normal Refer to 9-1-3.			
Blue BlackPink Brown	i-see sensor connect (a) (-)(a) (+) (b) (+)(a) (-) NOTE : Be careful no Measure the resistan (At the ambient temp Connector Red - Yellow Red - Blue Red - Orange Red - White Disconnect the connect	ctor No DC 1.857 DC 0.939 Ot to discharge static e ce between the termir erature of 20°C ~30°C) Normal 250Ω ector then measure the Normal	rmal /~ 3.132V /~ 1.506V electricity into electricity	Other than the Other than the ctronics.	e normal e normal Refer to 9-1-3.			

9-1-1. Thermistor



9-1-2. Linear expansion valve

① Operation summary of the linear expansion valve

- Linear expansion valves open/close through the use of a stepping motor after receiving the pulse signal from the indoor controller board.
- Valve position can be changed in proportion to the number of pulse signals.
- <Connection between the indoor controller board and the linear expansion valve>



<Output pulse signal and the valve operation>

Output	Output							
(Phase)	1	2	3	4				
ø1	ON	OFF	OFF	ON				
ø2	ON	ON	OFF	OFF				
ø3	OFF	ON	ON	OFF				
<i>ø</i> 4	OFF	OFF	ON	ON				

 $\ensuremath{\textcircled{}^\circ}$ Linear expansion valve operation



Closing a valve : $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 1$ Opening a valve : $4 \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow 4$

The output pulse shifts in above order.

- When linear expansion valve operation stops, all output phase become OFF.
- At phase interruption or when phase does not shift in order, motor does not rotate smoothly and motor will lock and vibrate.
- When the switch is turned on, 2200 pulse closing valve signal will be sent till it goes to point (a) in order to define the valve position.

When the valve moves smoothly, there is no sound or vibration occurring from the linear expansion valves; however, when the pulse number moves from to or when the valve is locked, more sound can be heard than in a normal situation.

• Sound can be detected by placing the ear against the screw driver handle while putting the screw driver tip to the linear expansion valve.

Outdoor unit R410A model : 1400 pulse Outdoor unit R22/R407C model : 2000 pulse Opening a valve all the way

③ Troubleshooting

Symptom	Check points	Countermeasures
Operation circuit failure of the micro processor	Disconnect the connector on the controller board, then connect LED for checking. $\bigcirc 6$ $\bigcirc 5$ $\bigcirc 4$ $\bigcirc 2$ $\downarrow \\ \square LED$ When power is turned on, pulse signals will be output for 10 seconds. There must be some defects in the operation circuit if the LED does not light while the signals are output or keeps lighting even after the signals stop.	Exchange the indoor con- troller board at drive circuit failure.
Linear expansion valve mechanism is locked.	Motor will idle and make a ticking noise when the motor is operated while the linear expansion valve is locked. This tick- ing sound is the sign of the abnormality.	Exchange the linear expan- sion valve.
Short or breakage of the motor coil of the linear expansion valve	Measure the resistance between each coil (white-red, yellow- brown, orange-red, blue-brown) with a tester. It is normal if the resistance is in the range of $200\Omega \pm 10\%$.	Exchange the linear expan- sion valve.
Valve does not close completely.	To check the linear expansion valve, operate the indoor unit in fan mode and at the same time operate other indoor units in cooling mode, then check the pipe temperature <liquid pipe temperature> of the indoor unit by the outdoor multi controller board operation monitor. During fan operation, linear expan- sion valve is closed completely and if there is any leaking, detecting temperature of the thermistor will go lower. If the detected temperature indicated in the remote controller, it means the valve is not closed all the way. It is not necessary to exchange the linear expansion valve, if the leakage is small and not affecting normal operation.</liquid 	If large amount of refriger- ant is leaked, exchange the linear expansion valve.
Wrong connection of the connector or contact failure	Check the color of lead wire and missing terminal of the con- nector.	Disconnect the connector at the controller board, then check the continuity.

9-1-3. DC Fan motor (fan motor/indoor controller board)

Check method of indoor fan motor (fan motor/indoor controller board)

① Notes

- · High voltage is applied to the connecter (CNMF) for the fan motor. Pay attention to the service.
- Do not pull out the connector (CNMF) for the motor with the power supply on.
- (It causes trouble of the indoor controller board and fan motor)

② Self check

Conditions : The indoor fan cannot turn around.



9-2. FUNCTION OF DIP SWITCH

The black square (\blacksquare) indicates a switch position.

0 11 1		e Function Events of the second secon				Effective	Demerlie			
Switch	Pole	Fu	Inction	ON			OFF	timing	Remarks	
	1	Thermistor < detection> p	Room temperature osition	Built-in r	emote controller	Indoor	unit		Address board	
	2	Filter cloge	ging detection	Provided		Not pro	Not provided		<initial setting=""></initial>	
	3	Filter clear	ning	2,500hr		100hr			OFF	
	4	Fresh air intake		Effective	•	Not effe			*1 Fan operation at Heating	
SW1 Function	5	Switching display	remote	Thermo	ON signal display	Indicati ON/OF	ing fan operation F	Under	mode *2 ThermoT ON operation	
setting	6	Humidifier	control	Always opera	ted while the heat in ON *1	Operated of	depends on the condition *2	suspension	at Heating mode	
	7	Airflow set thermo OF		Low *3		Extra lo	ow *3		*3 SW1-7 SW1-8	
	8	at heating		Setting a	air flow *3	Depend	ds on SW1-7		OFF OFF Extra low ON OFF Low	
	9	Auto resta	rt function	Effective	•	Not effe	ective	-	OFF ON Setting air flow ON ON Stop	
	10	Power ON/0	OFF by breaker	Effective	•	Not effe	ective			
		Capacity	SW 2	Capacity	SW 2	Capacity	SW 2	Before	Indoor controller board	
SW2			ON DFF 1 2 3 4 5 6	P63	ON OFF 1 2 3 4 5 6	P125	ON OFF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Set while the unit is off. <initial setting=""></initial>	
Capacity code setting	1~6		ON	P80	ON OFF 1 2 3 4 5 6			power supply ON	Set for each capacity.	
			ON DFF 1 2 3 4 5 6	P100	ON OFF 1 2 3 4 5 6					
	1	Heat pump	o/Cooling only	Cooling of	only	Heat p	ump		Indoor controller board Set while the unit is off.	
	2	Louver/hur	midifier *6	Available		Not available			ON OF 1 2 3 4 5 6 7 8 9 10	
	3	Vane		Available		Not available				
	4	Vane swing (wave-flow)	function in heating	Available Not avai		ailable		Note :		
SW3 Function	5	Vane horiz	contal angle ①	Second s	setting *4	First se	etting *4	Under	*4 SW3-5, 6	
setting	6	Vane horiz	contal angle 2	Third set	ting *4	Depend	ds on SW3-5	suspension	*5 Please do not use SW3-9, 10 as trouble might be caused by the usage	
	7		the opening of ansion valve	Effective		Not effe	ective		condition. *6 SW3-2 setting Only for PLFY-P·VBM, SW	
	8	Sensible tem	perature correction	Not effec	tive	Effectiv	/e		is used to change whether the humidifier functions or	
	9	Superheat set	tting temperature *5		_		_		not.(Fixed the louver function less.)	
	10	Sub cool setti	ng temperature *5				_			
SW4 Model Selection (Setting for PLFY series)	1~5		ON OFF					Before power supply ON	Indoor controller board	

Note : *4 SW3-5,6

SW3-5	SW3-6	Vane setting	Initial setting	Setting	Vane position
OFF	OFF	Set up ①		Standard	Standard
ON	OFF	Set up ②	•	Less draft *	Upward position than the standard
OFF	ON	Set up ③		Less smudging	Downward position than the standard
ON	ON	unused		—	—

* Be careful of smudge on ceiling.

Switch	Pole	Operation by switch	Effective timing	Remarks
SWA Ceiling height selector	1~3	(High ceiling) 3 (Standard) 2 (Silent) 1 SWB SWA SWB Silent Standard 4 direction 2.5m 2.7m 3.5m		Address board <initial setting=""> 3 2 1</initial>
SWB Discharge outlet number selector	3	③ 3 direction 2.7m 3.0m 3.5m ② 2 direction 3.0m 3.3m 3.5m ② 2 direction 3.0m 3.3m 3.5m ② 2 direction 3.0m 3.3m 3.5m PLFY-P100·P125VBM-E SWA ① ② ③ (3 direction) 3 3 direction 2.7m 3.2m 4.5m ③ 3 direction 2.7m 3.0m 3.6m 4.5m ③ 3 direction 3.0m 3.6m 4.5m ② 2 direction 3.3m 4.0m 4.5m	Under operation or suspension	Address board <initial setting=""> 2 3 4</initial>
SWC Option selector	2	② オプ ② オプ ① 標	2	Address board <initial setting=""> ② オプ ① 標</initial>
SW11 1s digit address setting SW12 10ths digit address setting	Rotary switch	SW12 SW12 SW11 SW11 SW11 SW11 SW11 SW12 SW11 SW12	Before power	Address board <initial setting=""> SW12 SW11 SW12 SW11 SW12 SW11</initial>
SW14 Branch No. Setting	Rotary switch	SW14 How to set branch numbers SW14 (Series R2 only) Match the indoor unit's refrigerant pipe with the BC controller's end connection number. Remain other than series R2 at "0".	supply ON	Address board

Switch	Pole		(Effective timing	Remarks			
J41, J42 Wireless remote controller Pair No.	Jumper	To operate each units or more an Pair No. setti Make setting wireless rem You may not set Setting for ind Jumper wire the table belo Wireless rem Setting opera NPress the SET remote controll MODEL SELEC Press the MINU Press the SET displayed (steat Setting pattern A B C D * Pair No.4-9 of	e near, Pair ng is availa for J41, J4 ote controll t it when op door unit J41, J42 or ow. tote control ation button (usi ler's display CT flashes, UTE button berature to button (usi adily-lit) for J41 	r No. setting ble with the 2 of indoor er. erating it b n the indoo ler pair nun ng a pointe / has stopp and the mo twice. The buttons t ng a pointe 3 seconds, ontroller wire J42 	r Under operation or suspension	<pre>SET button</pre>		
SWE Test run for Drain pump	Connector	Drain pump and fan are activated simultaneously after the connector SWE is set to ON and turn ON the power. $\begin{array}{c} SWE \\ \hline \\ OFF \\ ON \end{array} \xrightarrow{OFF} ON \\ \hline \\ OFF \\ ON \end{array} \xrightarrow{OFF} ON \\ \hline \\ The connector SWE is set to OFF after test run. \\ \end{array}$						<initial setting=""></initial>

9-3. TEST POINT DIAGRAM 9-3-1. Indoor controller board PLFY-P32/40/50/63/80/100/125VBM-E(R2).UK PLFY-P32/40/50/63/80VBM-E1.UK



CN6Y

i-See sensor motor output 12VDC pulse output

Connect to the terminal block (TB15) (MA-Remote controller connecting wire) ① - ③ : 8.7-13V DC (Pin① (+))

vane motor output 12VDC pulse

Remote switch

Jumper wire J41, J42 Pair No.setting for wireless remote controller

Power supply for MA-Remote controller

Function setting

Model selection

Test run(Drain pump)

Capacity setting

Connect to the terminal block (TB5) (M-NET transmission connecting wire) 24-30VDC (non-polar)

Power supply for indoor controller board ③ - ⑤ : 220-240VAC

9-3-2. Address board PLFY-P32VBM-E.UK PLFY-P80VBM-E.UK PLFY-P32VBM-E1.UK PLFY-P80VBM-E1.UK PLFY-P32VBM-ER2.UK PLFY-P80VBM-ER2.UK

PLFY-P40VBM-E.UK PLFY-P100VBM-E.UK PLFY-P40VBM-E1.UK

PLFY-P40VBM-ER2.UK

PLFY-P100VBM-ER2.UK

PLFY-P50VBM-E.UK PLFY-P125VBM-E.UK PLFY-P50VBM-E1.UK

PLFY-P50VBM-ER2.UK

PLFY-P125VBM-ER2.UK

PLFY-P63VBM-E.UK

PLFY-P63VBM-E1.UK

PLFY-P63VBM-ER2.UK



10-1. HOW TO PERFORM THE UP/DOWN OPERATION OF THE AIR INTAKE GRILLE 10-1-1. Setting up the lowering distance of air intake grille

You can set up 8 different stages of lowering distance for the air intake grille according to the set up location if desired.

- * As a factory default, the decorative panel will automatically stop at 1.6 m from the ceiling surface. The distance is a rough indication, check by actually lowering it.
- 1) Take the cover off the electric box of the decorative panel. (2 screws)
- Set up the dip switches of SW22 or SW2 on the control board of the decorative panel as followed.

Decorative panel Cover for Electric Box of the decorative panel Screws Control board of the decorative panel SW 22 or SW2

SW2



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The black square (
) indicates a switch position

The black equ					
Lowering distance (Rough indication of the ceiling height)	SW22 (Lowering distance)	Lowering distance (Rough indication of the ceiling height)	SW22 (Lowering distance)		
1.2m (~ 2.4m)	ON OFF 12345678910	1.6m (2.4m ~ 2.8m)	Initial setting ON OFF 12345678910		
2.0m	ON	2.4m	ON		
(2.8m ~ 3.2m)	OFF 12345678910	(3.2m ~ 3.6m)	OFF 12345678910		
2.8m	ON	3.2m	ON		
(3.6m ~ 4.0m)	OFF 12345678910	(4.0m ~ 4.4m)	OFF 12345678910		
3.6m	ON	4.0m	ON		
` (4.4m ~ 4.8m)	OFF 12345678910	(4.8m ~ 5.2m)	OFF 12345678910		

* Airflow outreach distance is different depending on indoor units and air volume (ceiling height), so airflow may not reach the indicated ceiling height as shown in the above table.

3) Put the cover back on the electric box of the decorarive panel.

10-1-2. How to perform the up/down operation using wireless remote controller



2) Press the "Down" button to lower the air intake grille.
 * By default, the air intake grille will automatically stop at a lowering distance of 1.6 m from the ceiling level. The distance can be changed to 1.2 m, 2.0 m, 2.4 m, 2.8 m, 3.2 m, 3.6 m and 4.0 m. These should be used only as a guide. You should lower the air intake grille yourself to check the exact distance.

Marning:

* When you want to stop the air intake grille while it is lowering, press the "Stop" or "Up" button on the remote controller to stop at that position.

3) Remove the filter or air intake grille and clean them.

- 4) Press the "Up" button on the remote controller to put the air intake grille in place.
 - * If the air intake grille is not placed in the correct position at a time, the operation is automatically retried.
 * When you want to stop the air intake grille while it is rising, press the "Stop" or "Down" button on the remote controller to stop at
 - * When you want to stop the air intake grille while it is rising, press the "Stop" or "Down" button on the remote controller to sto that position.



Wireless remote controller for Automatic Filter Elevation Panel

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Ensure that the air-conditioner is not running.

• Otherwise, it may cause an injury or a failure.

The black square () indicates a switch position.

lă în po

Dip SW 2

The black equ			
Lowering distance (Rough indication of the ceiling height)	SW2 (Lowering distance)	Lowering distance (Rough indication of the ceiling height)	SW2 (Lowering distance)
1.2m (~ 2.4m)	ON OFF 123456	1.6m (2.4m ~ 2.8m)	Initial setting ON OFF 123456
2.0m (2.8m ~ 3.2m)	ON OFF 123456	2.4m (3.2m ~ 3.6m)	ON OFF 123456
2.8m (3.6m ~ 4.0m)	ON OFF 123456	3.2m (4.0m ~ 4.4m)	ON OFF 123456
3.6m (4.4m ~ 4.8m)	ON OFF 123456	4.0m (4.8m ~ 5.2m)	ON OFF 123456

* Airflow outreach distance is different depending on indoor units and air volume (ceiling height), so airflow may not reach the indicated ceiling height as shown in the above table.

10-1-3. How to perform the up/down operation using wired remote controller (PAR-21MAA)

 General Operation * Raise or lower all the air intake grilles managed by the remote controll Install the remote controller in a place where you can observe all the a contact with something and cause damage to it. 	
 Ensure that the air-conditioner is not running. * The up/down operation mode is only available when the air-conditioner is "OFF". 	Warning: Ensure that the air-conditioner is not running. • Otherwise, it may cause an injury or a failure.
2) Press both the "FILTER" and "Ventilation" buttons simultaneousl operation mode.	y for 2 seconds or more to enter the up/down
"Up/down operation mode" display	
3) Press the TEMP. (▽) button. After a while, the air intake grille will	



- 4) Remove the filter and/or air intake grille to clean them.
- 5) Press the TEMP. (\triangle) button. After a while, the air intake grille will begin to rise and then be put back into place.



6) Exit the up/down mode either by pressing the "ON/OFF" button or by pressing both the "FILTER" and "Ventilation" buttons simultaneously for 2 seconds or more.

* After exiting the up/down mode, wait for about 30 seconds to perform the next operation. The remote controller will not accept any operation for that period.



The up/down operation mode is only a	t running. available when the	Warning:	Ensure that the air-conditioner is not running.
air-conditioner is "OFF".			• Otherwise, it may cause an injury or a failure.
Press both the "FILTER" and "Vention peration mode.	lation" buttons simulta	aneously for 2	seconds or more to enter the up/dow
	vn operation mode		
Press the "Ventilation" button. After node".	a while, it will switch	to the "individ	ually-specified up/down operation
	Individually-specified up/de	own operation me	ode
	A	ddress No. of ind	loor unit
	In the upper right figu		5
*	No. of indoor unit "01'	' ie currontly	•
the number of the target air-	selected.	is currently	If the number of the target air-
The number of the target air- onditioner is unknown, go to 4).	selected. en the "Address No. o	f indoor unit"	If the number of the target air- conditioner is known, go to 5). is blinking, after a while, the up/down rard; and the airflow direction of the
f the number of the target air- conditioner is unknown, go to 4).	selected. ten the "Address No. of -conditioner will be sw the target ress No. of indoor utton to check the selected. El	f indoor unit" vitched downw emarks:] 'Err" is displayed wh -conditioner, the air	conditioner is known, go to 5).
f the number of the target air- conditioner is unknown, go to 4). f you press the "FILTER" button wh airflow direction of the displayed air other vents will all be blocked. In Step 5) described below, identify th air-conditioner by changing the "Addr unit" and by pressing the "FILTER" b up/down airflow direction. Select the "Address No. of indoor up	selected. <u>een the "Address No. o</u> <u>-conditioner will be sw</u> he target ress No. of indoor utton to check the nit". hanged by using the "TE	f indoor unit" vitched downw emarks:] "Err" is displayed wh conditioner, the air wes not exist. Check EMP." buttons (conditioner is known, go to 5). is blinking, after a while, the up/down vard; and the airflow direction of the then you press the "FILTER" button to check the target -conditioner with that "Address No. of indoor unit" and set that air-conditioner again. ∇) (△) when the panel displays (a) or (the set of the s
f the number of the target air- conditioner is unknown, go to 4).	selected. <u>een the "Address No. o</u> <u>-conditioner will be sw</u> he target ress No. of indoor utton to check the nit". hanged by using the "TE	f indoor unit" vitched downw emarks:] "Err" is displayed wh -conditioner, the air pes not exist. Check EMP." buttons (of operation wil	conditioner is known, go to 5). is blinking, after a while, the up/down vard; and the airflow direction of the then you press the "FILTER" button to check the target -conditioner with that "Address No. of indoor unit" and set that air-conditioner again. ∇) (△) when the panel displays (a) or (the set of the s
f the number of the target air- conditioner is unknown, go to 4). f you press the "FILTER" button wh irflow direction of the displayed air other vents will all be blocked. In Step 5) described below, identify the air-conditioner by changing the "Address unit" and by pressing the "FILTER" be up/down airflow direction. Select the "Address No. of indoor unit" can be c Every time you press the "Mode select	selected. <u>een the "Address No. o</u> <u>-conditioner will be sw</u> he target ress No. of indoor utton to check the nit". hanged by using the "TE	f indoor unit" vitched downw emarks:] "Err" is displayed wh -conditioner, the air pes not exist. Check EMP." buttons (of operation wil	conditioner is known, go to 5). is blinking, after a while, the up/down ard; and the airflow direction of the the you press the "FILTER" button to check the target -conditioner with that "Address No. of indoor unit" and set that air-conditioner again. ∇) (△) when the panel displays (a) or (but the target again).
it the number of the target air- onditioner is unknown, go to 4). i you press the "FILTER" button wh irflow direction of the displayed air ther vents will all be blocked. IIn Step 5) described below, identify th air-conditioner by changing the "Addr unit" and by pressing the "FILTER" b up/down airflow direction. ielect the "Address No. of indoor unit" "Address No. of indoor unit" (a) "Address No. of indoor unit"	selected. een the "Address No. of -conditioner will be sw he target ress No. of indoor utton to check the if ai do nit". hanged by using the "TE ction" button, the target b) "Standby for up/do	f indoor unit" vitched downwer emarks:] "Err" is displayed wh r-conditioner, the air pes not exist. Check EMP." buttons (of operation wil	 conditioner is known, go to 5). is blinking, after a while, the up/down ard; and the airflow direction of the aren you press the "FILTER" button to check the targe conditioner with that "Address No. of indoor unit" and set that air-conditioner again. ♡) (△) when the panel displays (a) or (b I change as illustrated below. [Remarks:] Each press changes the "Address No. of indoor
if the number of the target air- onditioner is unknown, go to 4). if you press the "FILTER" button wh irflow direction of the displayed air ther vents will all be blocked. IIn Step 5) described below, identify th air-conditioner by changing the "Addr unit" and by pressing the "FILTER" b up/down airflow direction. ielect the "Address No. of indoor unit" "Address No. of indoor unit" can be c levery time you press the "Mode select" (a) "Address No. of indoor unit" selection display	selected. ten the "Address No. of -conditioner will be sw the target ress No. of indoor utton to check the init". hanged by using the "The ction" button, the target (b) "Standby for up/do operation" display	f indoor unit" vitched downwer emarks:] 'Err" is displayed wh -conditioner, the air bes not exist. Check EMP." buttons (of operation will wn	 conditioner is known, go to 5). is blinking, after a while, the up/down ard; and the airflow direction of the arrent and the airflow direction of the conditioner with that "Address No. of indoor unit" and set that air-conditioner again. ♡) (△) when the panel displays (a) or (b I change as illustrated below. [Remarks:] Each press changes the "Address No. of indoor unit" from "01 to 50".
if the number of the target air- onditioner is unknown, go to 4). if you press the "FILTER" button wh irflow direction of the displayed air ther vents will all be blocked. In Step 5) described below, identify th air-conditioner by changing the "Addr unit" and by pressing the "FILTER" b up/down airflow direction. ielect the "Address No. of indoor unit" can be c Every time you press the "Mode select (a) "Address No. of indoor unit" selection display continue to press the "Mode select	selected. ten the "Address No. of -conditioner will be sw the target ress No. of indoor utton to check the init". hanged by using the "The ction" button, the target (b) "Standby for up/do operation" display	f indoor unit" vitched downwer emarks:] 'Err" is displayed wh -conditioner, the air bes not exist. Check EMP." buttons (of operation will wn	 conditioner is known, go to 5). is blinking, after a while, the up/down ard; and the airflow direction of the arrent and the airflow direction of the conditioner with that "Address No. of indoor unit" and set that air-conditioner again. ♡) (△) when the panel displays (a) or (b I change as illustrated below. [Remarks:] Each press changes the "Address No. of indoor unit" from "01 to 50".
if the number of the target air- onditioner is unknown, go to 4). if you press the "FILTER" button wh irflow direction of the displayed air ther vents will all be blocked. IIn Step 5) described below, identify th air-conditioner by changing the "Addr unit" and by pressing the "FILTER" b up/down airflow direction. ielect the "Address No. of indoor unit" "Address No. of indoor unit" can be c levery time you press the "Mode select" (a) "Address No. of indoor unit" selection display	selected. ten the "Address No. of -conditioner will be sw the target ress No. of indoor utton to check the init". hanged by using the "The ction" button, the target (b) "Standby for up/do operation" display	f indoor unit" vitched downwer emarks:] 'Err" is displayed wh -conditioner, the air bes not exist. Check EMP." buttons (of operation will wn	 conditioner is known, go to 5). is blinking, after a while, the up/down ard; and the airflow direction of the arrent and the airflow direction of the conditioner with that "Address No. of indoor unit" and set that air-conditioner again. ♡) (△) when the panel displays (a) or (b I change as illustrated below. [Remarks:] Each press changes the "Address No. of indoor unit" from "01 to 50".
it the number of the target air- onditioner is unknown, go to 4). if you press the "FILTER" button wh irflow direction of the displayed air ther vents will all be blocked. In Step 5) described below, identify th air-conditioner by changing the "Addr unit" and by pressing the "FILTER" bi up/down airflow direction. Select the "Address No. of indoor unit" address No. of indoor unit" can be c Every time you press the "Mode selection (a) "Address No. of indoor unit" selection display Continue to press the "Mode selection	selected. ten the "Address No. of -conditioner will be sw the target ress No. of indoor utton to check the mit". hanged by using the "TE ction" button, the target ↓ (b) "Standby for up/do operation" display on" button until "Waiting ay	f indoor unit" ritched downwer emarks:] "Err" is displayed wh -conditioner, the air bes not exist. Check EMP." buttons (of operation wil bwn ng for up/dow	 conditioner is known, go to 5). is blinking, after a while, the up/down rard; and the airflow direction of the arrent and set that airflow direction of the and set that air-conditioner again. ♡) (△) when the panel displays (a) or (bit of the change as illustrated below. [Remarks:] Each press changes the "Address No. of indoor unit" from "01 to 50". n operation" is displayed.



10-2. OPERATION (AUTOMATIC FILTER ELEVATION PANEL: PLP-6BAJ)

(1) Normal operation

1) UP/DOWN

Air intake grille is raised/lowered by commands of UP and DOWN. Air intake grille does not move under the state of no-load detection or obstacle detection. Air intake grille stops automatically at the set lowering distance from the ceiling level.

- 2 STOP
 - It stops in the cases below :
 - When it reaches at the set lowering distance from the ceiling level.

It automatically stops after a predetermined period of lowering.

UP/DOWN Machine 1 Detection switch Wire 2a Wire 2b

Wire 1b

• When it is stored in the panel.

The air intake grille is judged to be stored in the panel

when the storage detection switch is pressed for 3 seconds continuously.

- When receiving commands of STOP, DOWN while moving up or UP while moving down.
 The STOP button is only available on the automatic filter elevation panel remote controller.
 When the wired remote controller is used, there will be a slight delay in stopping due to transmission speed.
- When both wire 1b and 2b are not loaded.

Only the wire b in each UP/DOWN Machine has a tension detection switch.

(2) Special operation

① Storage operation

Case : Obstruction of the raising grille before storage or malfunction of storage detection switch Storage operation will be performed when the intake grille has been raised the set distance but the storage detection switch is not engaged.

In this case, the operation below will be repeated up to 4 times.

10 cm down \rightarrow 30 cm up \rightarrow \cdots \rightarrow 10 cm down \rightarrow 30 cm up

② No-load detection

Case : UP/DOWN commands with no grille suspended.

When both wire 1b and wire 2b are not loaded, the wires will not move.

③ Obstacle detection

Case : Making contact with something while lowering.

Should the loads on the wire 1b and wire 2b be removed due to the grille making contact with something while lowering, the lowering operation will stop. The grille will then be raised 10 cm and stop again.

[Emergency operation]

• When the wireless remote controller cannot be used (in the case of battery discharge, misplacing of the wireless remote controller, malfunctioning and so on), the emergency switch on the receiver can be used as an alternative.

* When doing this, particular caution must be taken not to fall.

To lower the air intake grille : Press the $\frac{1}{2}$ button once.

(For emergency heating operation, press and hold this button.)

To raise the air intake grille : Press the \bigcirc button once.

(For emergency cooling operation, press and hold this button.)

- To stop the air intake grille from moving, use the opposite buttons to those used to initiate movement. (To stop it from lowering, press the UP button; To stop it from rising, press the Down button.)
- If up/down machine is out of order, fix air intake grille temporarily and the indoor unit can be operated.
- * For details, refer to installation manual for the attachment of grille.

10-3. ELECTRICAL CIRCUIT (Controller board and wiring diagram (Panel)) 10-3-1. Dip SW 22 type



Symbol		Name	5	Symbol	Name
U.B		Auto grille controller board	W.B		Wireless remote controller board
	FLIOF	Fuer (0.454)		ΒZ	Buzzer
	FUSE	Fuse (3.15A)		RU	Receiver
	SW22	Switch (Lowering distance set up)		SW1	Emergency switch (heating/down)
UK1		Up/down machine		SW2	Emergency switch (cooling/up)
	MU1	Motor (Up/down)	LS1		Limit switch (storage detection)
	LS21	Limit switch (tension detection)	R.B		Wired remote controller
I.B		Indoor controller board			

10-3-2. Dip SW 2 type SW2



10-3-3. Check point of trouble

<LED (SW22 type) /LED2 (SW2 type) display>

Turn OFF	: No power supply
Blink	: Storage detection switch ON (short)
One blink	: Storage detection switch OFF (open)
Two blinks	: Tension detection switch OFF (open)

<controller board>

Check item	Check point	Normal	Remarks
Up/down controller P.C. board supply voltage	CN3A (between 3-5)	AC 198~264 V	
Up/down machine supply voltage	CN2B, CN2C	DC 10~12 V	Check when instructing up/down with LED binking once.

<Up/down machine>

Check item	Check point	Normal	Check contents
Storage detection switch	CN2E	open or short	Check if it is short when pressing push switch.
Tension detection switch	CN2F, CN2G	open or short	Check if it is short when wire b is tensioned.
Motor	CN2B, CN2C	5~20 Ω	Check if it is not open or short.
Entwining wires	Pull wire	Retension: about 2 kgf	Check if wire is drawn out by pulling with 3 kgf.

10-4. TROUBLESHOOTING

• Check the following points.

Problem	Possible Reason	Corrective Action
Air intake grille does not	Air-conditioner is running.	Stop running the air-conditioner and try again
function with operation of the wireless remote controller.	Power failure	After recovering from power failure, try again.
wireless remote controller.	Batteries are not inserted into the wireless remote controller. Or battery power is running low.	Insert or replace the battery.
	There is something on the air intake grille. Or something is stuck in the air intake grille.	Remove the objects or obstacles from the air intake grille. Or, remove the stuck object.
Air intake grille cannot be fixed in place.	There is something on the air intake grille.	Remove the objects or obstacles from the air intake grille.
	Filter is not properly installed.	Lower the air intake grille again and check whether the filter is installed in the correct position.
	Air intake grille is not hung with all 4 hooks.	Lower the air intake grille again and hook on the air intake grille.
Air intake grille stops lowering. (Air intake grille would not lower any further.)	The air intake grille has finished lowering to the auto-stop position.	This is normal.
bises are made during b/down operation. While air intake grille is oving up/down.)		
Noises are made while putting the air intake grille into place.	This is the operational noise for putting the air intake grille into place.	This is normal.
ir intake grille repeats rising nd lowering several times hile being put into place.		
Air intake grille leans toward one side during the up/down operation.	The speeds of winding/unwinding wires are slightly different for each wire.	

DISASSEMBLY PROCEDURE

PLFY-P32VBM-E(1).UK PLFY-P80VBM-E(1).UK PLFY-P32VBM-ER2.UK PLFY-P80VBM-ER2.UK

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PLFY-P40VBM-E(1).UK PLFY-P100VBM-E.UK PLFY-P40VBM-ER2.UK

PLFY-P50VBM-E(1).UK PLFY-P63VBM-E(1).UK PLFY-P125VBM-E.UK PLFY-P50VBM-ER2.UK PLFY-P63VBM-ER2.UK PLFY-P100VBM-ER2.UK PLFY-P100VBM-ER2.UK

Be careful when removing heavy parts.

Support for Indoor

controller board

Indoor controller

board

OPERATING PROCEDURE PHOTOS & ILLUSTRATIONS 1. Removing the air intake grille Figure 1 Filter (1) Slide the knob of air intake grille toward the arrow ① to Air intake grille open the air intake grille. (2) Remove drop prevention hook from the panel. (3) Slide the shaft in the hinge to the direction of the arrow 2 and remove the air intake grille. Grille Air intake grille knob 2. Removing the room temperature thermistor (TH21) Photo 1 Address board (1) Remove the air intake grille and the filter. (See Figure 1) cover fixina (2) Remove the 2 screws from the electrical box cover. screw (3) Disconnect the connector CN20 (Red) from the indoor con-MA remote troller board. controller (4) Remove the room temperature thermistor. Address Terminal board cover 3. Removing the address board (A.B) Address (1) Remove the air intake grille and the filter. (See Figure 1) board cover (2) Remove the 2 screws from the address board cover. fixing screw (3) Disconnect the connectors CN43 (RED/4P) and CN82 Terminal cover Electrical box cover (4) Slide and remove the address board. Electrical box cover fixina fixing screws screw 4. Removing the indoor controller board (I.B) (1) Remove the air intake grille and the filter. (See Figure 1) (2) Remove the 2 screws from the electrical box cover. Photo 2 Bell mouth (3) Disconnect the connectors : (White/7P) for fan motor Room temp (White/4P) for thermistor (TH22/TH23) thermistor (Blue/3P) for drain pump (TH22) Turbo fan (White/4P) for float switch Electrical (Black/5P) for earth and TB2 Nut box fixing (White/20P) for vane motor screw CN81, CN42 (Red/8P,4P) for address board Electrical (Blue/2P) for TB5 box (4) Remove the 6 supports from indoor controller board. fixing (5) Remove the indoor controller board. screw

5. Removing the electrical box

(RED/8P).

CNMF

CN44

CNP

CN4F

CN01

CNV

CN2M

- (1) Remove the air intake grille and the filter. (See Figure 1)
- (2) Remove the 3 screws from the electrical box cover.
- (3) Disconnect the connectors. (Refer to 4.)
- (4) Remove 4 electrical box fixing screws and remove 2 hooks.
- (5) Pull the electrical box. <Electrical parts in the electrical box> Indoor controller board Terminal block (TB2) (TB5)

Electrical box





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