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TECHNICAL BULLETIN

Improvement of Control Function for SET FREE Series Indoor Units and Receiver Kit, and Launching of New Controller DATE: Jun.'17 PAGE: 1/12

<u>Summary</u>

- 1. This Technical Bulletin provides information listed bellow.
 - 1) Improvement of control function for SET FREE series indoor unit and receiver kit.

- 2) Launching of new controller.
 - Wired Controller (PC-ARF1)
 - Half Size Controller (PC-ARH1)
 - Receiver Kit (PC-ALHZ1)
- 2. The details are indicated in the description.

Description

1. Product Features

- 0.5 °C increments
- Power Saving Function

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2. Applicable Models

Improvement of Control Function for SET FREE Series Indoor Units and Receiver Kit, and Launching of New Controller

DATE: Jun.'17 PAGE: 2/12

Description	Tura	Current	New		New Fi	unction cation	Descharting Date	
Description	Туре	Model (Model Code)	Model (Model Code)	Changing Point	0.5 °C Increment	Power Saving	Toduction Date	
	Wired Controller	PC-ARF (60291959)	PC-ARF1 NEW (60292244)	Model Change	Avai	lable	from June,2017	
Controller	Half Size Controller	PC-ARH (60291486)	PC-ARH1 NEW (60292045)	Model Change	Available	-	from June,2017	
	Remote Controller	PC-AWR (60291970)	←	(No Change)	Available	-	from first production	
	4-Way Cassette	RCI- 1.0 to 6.0FSN3	←	PCB	Avai	lable	from June, 2017 *1	
	Mini Cassette	RCIM- 0.6 to 2.5FSN4	←	(No Change)	Avai	lable	from first production	
	2-Way Cassette	RCD- 0.8 to 6.0FSN3	←	(No Change)	Avai	lable	from first production	
	1-Way Cassette	RCS- 0.8-3.0FSN	←	(No Change)	Avai	lable	from first production	
Indoor Unit		RPIM- NEW 0.8 to 6.0FSN3	←	(No Change)	Avai	lable	from first production	
	(0.8-6.0HP)	RPI- NEW 2.0-6.0FSN3		(0)				
	Ducted (8-10HP)	RPI- 8 to 10FSN1	←	(No Change)	Available		from first production	
	Ceiling Suspended	RPC- 1.5 to 6.0FSN3	←	(No Change)	Available		from Jan.2016 production (P-4380)	
	Wall Mounted	RPK- 0.6 to 4.0FSN3M	←	(No Change)	Available	Available	from Jun.2016 production	
		RPK- 0.6 to 1.5FSNH3M				2	(P-4447)	
	for 4-Way Cassette	PC-ALH3 (60291768)	<i>←</i>	PCB	Available	-	from June,2017	
	for Mini Cassette	PC-ALHC1 (60292004)	←	(No Change)	Available	-	from first production	
	for 2-Way Cassette	PC-ALHD1 (60292054)	←	(No Change)	Available	-	from first production	
Receiver Kit	for 1-Way Cassette	PC-ALHS1 (60292127)	←	(No Change)	Available	-	from first production	
	for Ceiling Suspended	PC-ALHP1 (60291822)	←	PCB	Available	-	from June,2017	
	for General Purpuse (Ducted, Wall Mounted)	PC-ALHZ (60291474) PC-ALHZF (60291790)	PC-ALHZ1 (60292150)	Model Change	Available	-	from June,2017	

*1. Please refer to "Detail of Change" for applicable serial number.

*2. The Power Saving Function is not available with Remote Controller. Switch the setting to Wired Controller to utilize the function.

NOTE:

As for the lead time for delivery, please contact your distributor.

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CHNICAL	95	Improvement of Control Function	or Divor Kit	DATE: Jun.'17	
LLETIN	02	and Launching of New Controlle	r	PAGE: 3/12	
Details of Cl 3.1 Controlle 3.1.1 Wired	h ange r d Controller				
	Item	Current Model	New Moo	lel	
Mo	odel Name	PC-ARF*EX	PC-ARF1	*EX	
Appearance					
Dimension (Hi	ight × Width × Depth)	120mm × 120	mm × 17.9mm		
Color		White	Pearl White		
LCD Languag	e	5 (English, French, German, Italian, Spanish)	2 (English, French)		
		-	Outdoor Unit Capacity Co	ntrol	
	Power Saving	-	Indoor Unit Rotation Cont	rol	
		-	Intermittent Operation Con	ntrol	
	Comfortability	-	0.5 °C increment setting >	×.	
Function		-	Night Quiet Operation		
	Visualization	-	Power Consumption Disp	lay	
		-	Power Saving Guidance		
	Schedule	-	Power Saving Schedule		
		-	Operation Noise Reduction Schedule		
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			lı	mprovemen	t of Co	ntrol	Eunction for	r		DATE: Jup '17
TECHNICAL		SE	T FF	REE Series	Indoor	Units	and Receiv	ver	· Kit.	
BULLETIN		0_		and Launch	hing of	New	Controller		,	PAGE: 5/12
A-2. Outdoor	Uni	it capacity Contro	ol							
The rot	atio	n control switche	es m	nultiple indo	or unit	oper	atina mode	to I	FAN mode (Theri	mo-OFF) in
order o	nel	by one.				opon	aning mode			
0.0010		.,		Order of Fan						
				1						
				For					1	
			≥	Operation*1		Cooling	Operation			
		Indoor Unit 1								
1		~			Orde	r of Fan				
					Oper	2				
			>	Caslin			Cacling		The indoor unit fan	
			-	Operation	⊢an Ope	ration*1	Operation		operation is performed in rotation by	v
		Indoor Unit 2			_				indoor unit address No	s.
		~					Order of Fan	n		
							In3			
			, ,				For			
				Cooling O	peration		Operation*1		Ţ	
		Indoor Unit 3							V	
							Time			
NOTES:										
1. The fa	n m	ode time can be	sel	ected in the	interva	al of t	hree minute	es, '	five minutes and	ten minutes.
2. It is po	ssik	ole to change the	e rot	ation assigr	ned nu	mber	according to	to th	he minimum diffe	rential between
the set	tting	g temperature an	d in	door tempe	rature.					
3. This fu	Incti	ion is not availab	ole ir	n case the F	PAC sy	stem	is under sin	nul	taneous operatio	n. The function
is only	ava	ailable in PAC sy	ster	n under indi	ividual	opera	ation.			
A-3. Intermitte	ent	Operation Control	ol							
The int	orm	ittant control ron	oot	Cooling/U	ooting	and D	on (Thorma	~ ^	NEE) mode in five	dintonyolo
	enn	intern control rep	eat		eating	апи г	an (menno	0-0	rr) mode in lixe	u intervais.
			-	30 Minutes	; 		30 Minutes			
			Castin	O		Gaaliaa	Occurtica	- 0		
		SAV: LOW	20 Mi	nutes 1	0 Minutes	20 Minu	tes 10 l	Minute:	is	
			0.1	-	- 0- "	0		0-		
		SAV: MED	17 Mi	nutes 13	Minutes	17 Minu	tes 13 Mi	operati linutes		
]	
							e u Ean Or	poratio		
		SAV: HIGH	15 Mi	nutes 15 M	operation linutes	15 Minu	tes 15 Minu	nutes		
]	
									-►Time	
<u>NOTE:</u>										
The fan r	nod	e will be repeate	ed in	the interval	l of five	e min	utes (SAV: L	LO	W), ten minutes (SAV: MED) and
fifteen mi	inute	es (SAV: HIGH)	duri	ng heating o	operati	on.				
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TECHNICAL	Improvement of Control Function for						
BULLETIN	and Launching of New Controller	PAGE:	6/12				
B. Comfortability							
B-1. 0.5 degre	e Setting						
Detailed	room setting is possible according to the condition of the living room.						
	Menu OK BaxHelp COL SPEED I TEMP COL SFEED I TEMP COL SFEED I TEMP COL SFEED I COL SFEED I COL SFEED I COL						
B-2. Night Qui	et Operation						
This fun the sche condition	ction is utilized to reduce the operation noise especially at night and available edule up to five settings a day each day of the week from wired controller with ns.	to set 3 setting					
NOTES: 1. This fur 2. The out frequen 3. Reducti	action is only available under low load condition such as operation at night. door unit capacity will decrease because the compressor frequency and outdo cy forcibly decrease. The operating range will also be restricted. on rates are approximate, these may change slightly depending on the operat	oor fan mo	otor tion.				

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TECHNICAL BULLETIN

Improvement of Control Function for SET FREE Series Indoor Units and Receiver Kit, and Launching of New Controller **DATE:** Jun.'17 **PAGE:** 7/12

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C. Visualization

C-1. Power Consumption Display

This function displays the power consumption of the outdoor unit compressor. The value of each displayed in Graph/List format is one day, one week and one year. The display period of consumption comparison can be selected from one day before/Today to 1 year ago/This year.



NOTE:

The power consumption for outdoor unit compressor will be displayed.

C-2. Power Saving Guidance

Press "ECO" button then the power saving guide will be displayed to support the setting. Easy access to the confirmation and setting screen from the current setting status screen.



D. Schedule

D-1. Power Saving Schedule

The power saving schedule function is utilized to set the power saving schedule on indoor unit capacity control and intermittent control up to five settings a day each day of the week.



D-2. Operation Noise Reduction Schedule

The operation noise reduction schedule function is utilized to set the operation noise reduction schedule up to five settings a day each day of the week.

NOTE:

The operation noise reduction setting may decreases the Cooling/Heating capacity.

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1al	wan		(T2))	γ	Brazii		Ň					
NC	TE (Except for Turke	ey and ME	(13))				1					
т	ECHNICAL			lı	mprove	ement of	Cont	rol Functi	on for		DATE: \	Jun.'17
			SET	Γ F F	REE Se	eries Indo	or U	nits and F	Receiv	ver Kit,		
					and La	aunching	of N	ew Contr	oller		PAGE:	8/12
	•											
	3.1.2 Half Siz	e Contro	ller									
					-							
	Item				Curre	ent Model				New Mod	lel	
	Model Name				PC-/	ARH*EX				PC-ARH1*	ΈX	
	Appearance											
	Dimension (Hight × Width ×	Depth)				120	0mm × 70)mm ×	17mm			
	Back Light		Not Available					Available: When the switch is operated, the back light lights up, making it easier to operate even in dark places. If there is no switch operation for 15 seconds, the back light goes out.				back operate 15
	Fan Speed		• 3 taps (HIGH, MEDIUM, LOW) • Auto : not available)	• 4 taps (HIGH2, HIGH, MEDIUM, LOW) • Auto : available			LOW)
	Setting Tempera	ture	1 °C inci	rem	ents				0.5 °C increments %			
		-			:						- 411	
			Not Avai	le				Automatic OFF Timer Setting (F1): Automatically stops operation after a certain period of time has elapsed from the start of operation in order to prever forgetting to off.			r a I from revent	
Optional Function			Not Available					Automatic Reset of Setting Temperature(F3 to F6): Even if the set temperature is changed, it will return to the original setting temperature after a certain time elapses and wasteful operation will be suppressed.				nged, ill be
		f the 0 F	°C incron	ner	t functi	on is ada	ntad	to the inc		nit		
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TECHI	NICAL		Improvement of Control Function	DATE: Jun.'17			
BULLE	ETIN		SET FREE Series Indoor Units and Re and Launching of New Control	eceiver Kit, Ier	PAGE: 9/12		
3.2 li	ndoor Un	it (4-way Cass	ette Type)				
Item			Current Model	New Mod	lel		
Mode	I Name		RCI-1.0 to 6.0FSN3	RCI-1.0 to 6.0	FSN3		
	Drawir	ng No.	17B47314A	17B47314	4B		
	Rom N	l o.	P-4565	P-4510			
	Servic	e Parts No.	P30723	P31505	;		
	Interch	nangeability	Current PCB	X→ X→ New PC	В		
Dip S (DSW	witch Set /4) (Mode	ting el Setting)					
ldenti Packi	fication ng Label		RC1-6. OFSN3 MFG/NO TEST0001 GROSS W. 29 kg VMER NPH 220-240V 50/60Hz 60278135	RCI-6. OFSN3 * 29 kg MFG/NO TEST0001 GROSS 29 kg MFG/NO TEST0001 GROSS 29 kg 50/60Hz 60278135 ************************************			
Applic	cable Ser	ial No.	Until UAFT4179	From UAFT	4180		

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TECHNICAI	-			mprovement of		unction for		DATE: Jun.'17		
BULLETIN			SET FF	REE Series Indo	or Units a	and Receiv	er Kit,	DACE: 10/12		
				and Launching	of New C	Controller		PAGE. 10/12		
3.3 Receive 1) for 4-wa	er Kit av Ca	assette and D	ucted							
Item				Current N	odel		New Model			
	for									
Model	4-V	4-Way Casette		PC-ALH3			PG-ALH3			
Name	for	for Ducted		PC-ALH	P1		PC-ALHP1			
PCB name				PR111	A		PR111B			
							-			
Interchangea	bility		Current			→× →	New			
Identification	of	er	2 Units				4 Units			
Setting Temp	erati	lre		1 °C increr	nents		0.5 °C incre	ements *		
						for	example: PC-ALH	3		
Identification	Pa	cking Label	WIRELESS RECEIVER KIT MODEL PC-ALH3 CODE 60291768 HITACHI				WIRELESS RECEIVER KIT MODEL PC-ALH CODE 60291768 HITACHI 17706339 × 05 Marking "•" after Model Name			
	Sea	al				for Pa	Paste the Red Seal on the back cover surface.			
※ Available o remote con	nly if trolle	the 0.5 °C inc	remen	t function is ado	pted to th	ne indoor u	nit in combination v	vith PC-AWR		
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TECHNICAL BULLETIN

Improvement of Control Function for SET FREE Series Indoor Units and Receiver Kit, and Launching of New Controller

DATE: Jun.'17

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2) for General Purpose

Item	Current Model	New Model			
Model Name	PC-ALHZ	PC-ALHZ1			
	PC-ALHZF				
Appearance					
Dimension (Hight × Width × Depth)	120mm × 90mm × 28mm	120mm × 90mm × 28mm			
Color	Silky White	Neutral White			
Fan Speed	3 taps (PC-ALHZ) 4 taps (PC-ALHZF)	3 taps and 4taps shared			
Interchangeability	Current PCB	New PCB			
Identifying IDU Installed Side by Side Operation	ring IDU Installed Side by 2 Units 4 Uni peration (A/B) (A/B/C				
Setting Temperature	1 °C increments	0.5 °C increments ※			

* Available only if the 0.5 °C increment function is adopted to the indoor unit in combination with PC-AWR remote controller.

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		SE	Improvement of Control Function for T FREE Series Indoor Units and Receiver Kit, and Launching of New Controller				DATE: Jun.'17 PAGE: 12/12		
4. Function	List (C	Outdoor Unit, li	ndoor l	Jnit, Wired	Controlle	er combin	ation)		-
				0 \$ 0) : applied : not app : Function	for Power lied for Pov n Enabled	Saving Fur wer Saving : Re	nction Function estricted	- : Function Disable
Unit		Combination	All ODU	U, IDU are 🔘	Include IDU 🗱		ODU is 🔀	IDU is 🗱	Wired controller is 🗱
Outdoor Unit (C) (UDC		0]	0		8	0	O or 🗱
Indoor Unit (IDI	U)								or X
Wired controlle	Wired controller								
Category	Function		Main	Sub	Main				
	Outdoor Capacity	Unit Detailed Setting	0	-	0	-	-	-	-
	Control *	1 On-Off	0	-	0	-	-	-	-
Power Saving	Indoor U Rotation	nit Setting	0	-	0	-	-	-	-
	Control *	1 On-Off	0	0	0	-	-	-	-
	Intermitter Operation Control *1	ent Setting	0	0	0	0	0	0	-
		¹ On-Off	0	0	0	0	0	0	-
Comfortability	0.5 Degre	ee Setting *4	0	0	0	-	0	-	-
Connortability	Night Qu	iet Operation	0	-	0	-	0	-	0
	Power C	Power Consumption Display		0	0	-	-	-	_
Visualization	Power Sa	aving Guidance	0	0	0	0	0	0	-
	Power Sa	aving Schedule *2	0		0	∕ *3			_
Schedule	Schedule Operation Noise Reduction Schedule			-	0	-	-	-	-
 *1. "Sub" set *2. Schedule *3. Schedule *4. When the increment 5. Applicab • VRF Mu RAS • Power \$ RAS 	tting is sy that can is only " e unit with ts as befor- ulti Syst S-FSXN Saving S-HVNC	Inchronizes with "M be set is "Outdoor Intermittent Operation fore. Incorr Unit tem 1, RAS-FSXNH Function	ain". Unit Cap ion Contr included	pacity Control" a ol". in the same rer FSNS, RAS-	and "Intermit note control -FSNP, R/	ttent". I group, the u	unit without f	unction are	controlled in 1 °C
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