HITACHI

TECHNICAL CATALOGUE

MONO SPLIT

RAK-18RPC RAK-25RPC



RAC-18WPC RAC-25WPC



HITACHI

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1 SPECIFICATIONS

1.1. WALL TYPE (RAK-18RPC/25RPC)

INDOOR	Unit	RAK-18RPC	RAK-25RPC
Nominal capacity adjustable		no	no
Nominal Cooling capacity (min - max)	kW	2.00(0.90-2.50)	2.50(0.90-3.10)
Cooling sensible capacity	kW	1.94	2.19
Nominal Heating capacity (min - max)	kW	2.50(0.90-3.20)	3.40(0.90-4.40)
Noise level cooling (sound pressure) (SL / L / M / H)	dB(A)	21/24/33/37	22/24/33/40
Noise level heating (sound pressure) (SL / L / M / H)	dB(A)	19/22/33/38	20/23/34/41
Noise level (sound power)	dB(A)	51	54
Air flow cooling mode (SL / L / M / H)	m ³ /h	312/350/400/440	333/370/430/510
Air flow heating mode (SL / L / M / H)	m ³ /h	312/350/420/480	333/400/500/570
Fan Motor	W	30	30
Dehumidification	l/h	1.2	1.4
Dimensions (H x W x D)	mm	280 x 780 x 218	280 x 780 x 218
Weight	kg	7.5	7.5
Colour		White (N9.5)	White (N9.5)
Condensate Drain	mm	φ16mm	φ16mm
Running current (C/H)	Α	1.09-4.39/1.09-4.22	1.09-5.61/1.09/5.43
Power supply		220-230V/1Ph/50Hz	220-230V/1Ph/50Hz
Cable section (interconnection)	mm²	1.50x 3+EARTH/-	1.50x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 3/8"
Drain diameter (ext)	mm	φ16	φ16
Remote control (standard/optional)		RAR-6N1/SPX-RCDB	RAR-6N1/SPX-RCDB
Filter			
ACL Filter		Wasabi(Optional)	Wasabi(Optional)
ACL part name		SPX-CFH22	SPX-CFH22
Pre-filter(Standard/Optional)		WASHABLE/SPX-SPF6	WASHABLE/SPX-SPF6

NOTE:

1. The nominal cooling and heating capacity is the combined capacity of the HITACHI standard split system, and are based on the ISO 5151.

Operation Conditions		Cooling	Heating
Indoor Air Inlet Temperature	DB	27.0 °C	20.0 °C
Illuool All Illiet Temperature	WB	19.0 °C	15.0 °C
Outdoor Air Inlet	DB	35.0 °C	7.0 °C
Temperature	WB	24.0 °C	6.0 °C
Piping Length: 5.0 meters; PipdB: Dry Bulb; WB: Wet Bulb	oing Li	ift: 0 meter	

- 2. The Sound Pressure Level is based on the following conditions:
- 0.8 meter beneath indoor height center
- 1 meter from Discharge grille

The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site

1.2. WALL TYPE (RAC-18WPC/25WPC)

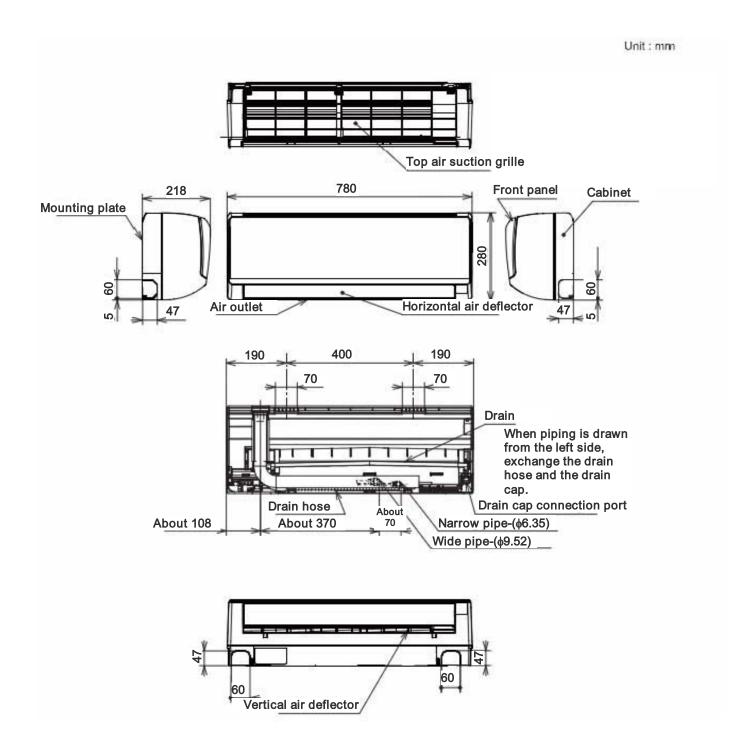
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OUTDOOR		Unit	RAC-18WPC	RAC-25WPC
Nominal Cooling capacity (min - ı	max)	kW	2.00(0.90-2.50)	2.50(0.90-3.10)
Nominal Heating capacity (min -	max)	kW	2.50(0.90-3.20)	3.40(0.90-4.40)
Nominal cooling power input (mir	n - max)	kW	0.55(0.25-1.01)	0.70 (0.25-1.29)
Nominal heating power input (mir	n - max)	kW	0.58(0.25-0.97)	0.88 (0.25-1.25)
EER / COP			3.64/4.31	3.57/3.86
SEER / SCOP			7.0/4.30	7.60/4.40
Energy class (SEER/SCOP)			A++/A+	A++/A+
Noise level cooling (sound pressi	ure)	dB(A)	45	47
Noise level heating (sound press	ure)	dB(A)	46	48
Noise level (sound power)		dB(A)	59	61
Air flow (Cooling / Heating)		m3/h	1860 / 1620	1860 / 1620
Dimensions (H x W x D)		mm	530x660 x278	530x660 x278
Weight		kg	27.5	27.5
Colour (Munsell Code)			Beige (5Y7/2)	Beige (5Y7/2)
Power supply		V/Ph/Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size		Α	15	15
Starting current(C/H)		Α	3.34/3.49	4.36/4.56
Running current (C/H)		Α	1.09-4.39/1.09-4.22	1.09-5.61/1.09-5.43
Cable section (power)		mm²	1.50x 2+EARTH	1.50x 2+EARTH
Cable section (Interconnection)		mm²	1.50x 3+EARTH	1.50x 3+EARTH
Piping diameter (Liq / Gas)		Inch	1/4" / 3/8"	1/4" / 3/8"
Minimum piping length		m	3	3
Maximum piping length / height d	lifference	m	20 / 10	20 / 10
Current quantity of refrigerant / C	hargeless	kg	0.95	0.95
Chargeless length / Additional re	frigerant charge	m / g/m	20/-	20/-
Working range (cooling / heating))	°C	-10℃—43℃/ -15℃—21℃	-10℃—43℃/ -15℃—21℃
efrigerant			R410A	R410A
ondenser Fan			Propeller Fan	Propeller Fan
Туре			ROTARY	ROTARY
Oil Type			α68HES - H or equivalent	α68HES - H or equivalent
Compressor	Oil Charge	mL	320±20	320±20
	Coil resistance	Ω	1.625 at 20℃	1.625 at 20℃
	Quantity		1	1
I				

NOTE:

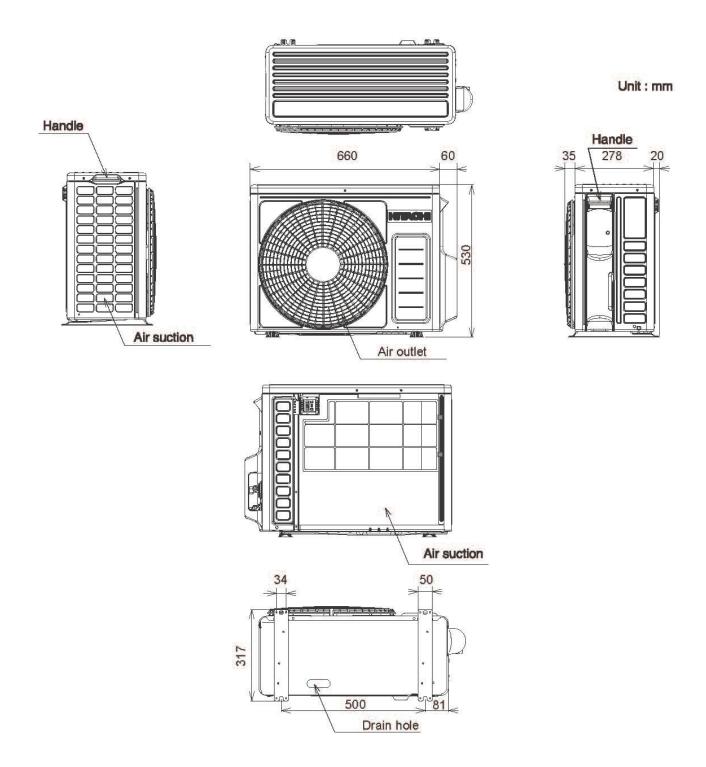
- 1. The Sound Pressure Level is based on the following conditions:
- 1 meter from the unit front surface and 1 meter from floor level
 The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site

2 DIMENSIONAL DATA

2.1. WALL TYPE: RAK-18RPC/25RPC



2.2. WALL TYPE: RAC-18WPC/25WPC



3 CAPACITIES TABLE

3.1. CAPACITY CHARACTERISTIC CURVES

The following charts show the characteristics of outdoor unit capacity, which corresponds with the operating ambient temperature of outdoor unit.

Conditions:

①Pipe length / height difference : 5m / 0m

3 Capacity loss due to white frost and defrost operation is not included.

2 Indoor fan speed at High mode

3.1.1. RAK-18RPC/RAC-18WPC

COOLING [50Hz, 230V]

INDO	OOR		OUTDOOR TEMPERATURE (°CDB)																			
EWB	EDB		-10 21						27			32			35			40			43	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18	1556	1371	307	1763	1828	364	1631	1688	430	1640	1706	506	1580	1631	528	1480	1538	567	1420	1463	589
14.0	20	1556	1371	307	1894	1828	364	1763	1705	435	1760	1706	512	1700	1650	534	1580	1538	572	1520	1481	600
16.0	22	1556	1459	312	2025	1828	369	1875	1705	440	1880	1706	517	1820	1650	545	1700	1538	583	1640	1481	605
18.0	25	1669	1564	316	2156	1986	374	1988	1846	445	2000	1856	523	1920	1781	545	1800	1669	589	1720	1594	611
19.0	27	1725	1617	321	2231	2092	379	2063	1934	450	2080	1950	528	2000	1875	550	1880	1763	589	1800	1688	611
22.0	30	1913	1600	321	2475	2074	379	2288	1916	450	2300	1931	534	2220	1856	556	2000	1800	611	1860	1763	644
24.0	32	2044	1600	326	2644	2074	384	2438	1916	455	2460	1931	534	2360	1856	561	2080	1838	627	1900	1819	666

HEATING [50Hz, 230V]

IN	DOOR		OUTDOOR TEMPERATURE (°CDB)																						
	EDB		-15			-10			-7			-5			0			7			10			15	
	°C	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI
	16	1725		662	2038		680	2218		698	2249		689	2335		655	2471		626	2660		639	2954		664
	18	1738		656	2050		675	2234		689	2268		677	2355		642	2486		603	2674		615	2977		637
	20	1750		650	2063		669	2250		680	2286		666	2375		630	2500		580	2688		591	3000		610
	22	1763		644	2075		663	2266		671	2304		654	2395		618	2514		557	2701		567	3023		583
	24	1775		638	2088		657	2282		662	2322		643	2415		605	2529		534	2715		543	3046		556

 ${\sf EWB:Evaporator\:Wet\:Bulb\:temperature\:(^\circ C)} \qquad \qquad {\sf TC:Total\:Capacity\:(W)}$

EDB : Evaporator Dry Bulb temperature (°C) SHC : Sensible Heating Capacity (W)

(°CDB): Outdoor Unit Inlet Air Dry Temperature (°C) PI: Power Input

3.1.2. RAK-25RPC/RAC-25WPC

COOLING [50Hz, 230V]

INDO	OOR								OUT	DO	OR TE	MPEF	RATU	IRE (°	CDB)							
EWB	EDB		-10 21						27			32			35			40			43	
°C	°C	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	Ы	TC	SHC	PI	TC	SHC	PI
12.0	18	1945	1470	391	2203	1960	464	2039	1809	547	2050	1829	644	1975	1749	672	1850	1648	721	1775	1568	749
14.0	20	1945	1470	391	2367	1960	464	2203	1828	553	2200	1829	651	2125	1769	679	1975	1648	728	1900	1588	763
16.0	22	1945	1564	397	2531	1960	470	2344	1828	560	2350	1829	658	2275	1769	693	2125	1648	742	2050	1588	770
18.0	25	2086	1677	403	2695	2129	476	2484	1979	566	2500	1990	665	2400	1910	693	2250	1789	749	2150	1709	777
19.0	27	2156	1734	409	2789	2242	482	2578	2073	572	2600	2090	672	2500	2010	700	2350	1889	749	2250	1809	777
22.0	30	2391	1715	409	3094	2224	482	2859	2054	572	2875	2070	679	2775	1990	707	2500	1930	777	2325	1889	819
24.0	32	2555	1715	415	3305	2224	488	3047	2054	579	3075	2070	679	2950	1990	714	2600	1970	798	2375	1950	847

HEATING [50Hz, 230V]

INI	DOOR		OUTDOOR TEMPERATURE (°CDB)																						
	EDB		-15			-10			-7			-5			0			7			10			15	
	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	16	2466		1088	3091		1219	3457		1308	3436		1258	3396		1117	3361		949	3738		1032	4337		1172
	18	2483		1079	3108		1210	3479		1294	3461		1240	3423		1099	3380		915	3756		995	4369		1131
	20	2500		1070	3125		1201	3500		1280	3486		1223	3450		1080	3400		880	3775		959	4400		1090
	22	2517		1061	3142		1192	3521		1266	3510		1205	3477		1061	3420		845	3794		922	4431		1049
	24	2534		1052	3159		1184	3543		1252	3535		1188	3504		1043	3439		811	3812		886	4463		1008

EWB : Evaporator Wet Bulb temperature (°C) EDB : Evaporator Dry Bulb temperature (°C)

(°CDB) : Outdoor Unit Inlet Air Dry Temperature (°C)

TC: Total Capacity (W)

SHC: Sensible Heating Capacity (W)

PI : Power Input

3.2. CORRECTION FACTORS ACCORDING TO PIPING LENGTH

Correction Factor for **Cooling Capacity** according to Piping Length

The cooling capacity should be corrected according to the following formula:

 $CCA = CC \times F$

CCA: Actual Corrected Cooling Capacity (kcal/h)

CC: Cooling Capacity in the Performance Table (kcal/h)

F: Correction Factor Based on the Equivalent Piping Length

The correction factors are shown in the following figure.

Equivalent Piping Length for:

- One 90° Elbow is 0.5m.
- One 180° Curve is 1.5m.

Correction Factor for **Heating Capacity** according to Piping Length

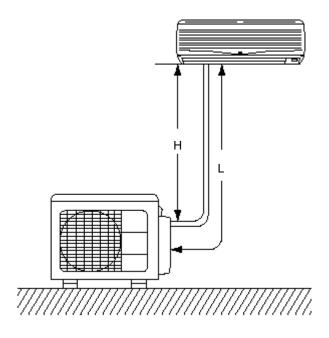
The heating capacity should be corrected according to the following formula:

HCA= HC x F

HCA: Actual Corrected Heating Capacity (kcal/h)

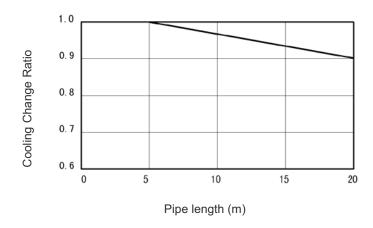
HC: Heating Capacity in the Performance Table (kcal/h)

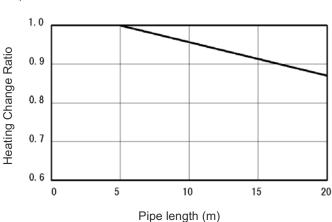
F: Correction Factor Based on the Equivalent Piping Length



- H: Vertical Distance Between Indoor Unit and Outdoor Units in Meters
- L: Actual One-Way Piping Length Between Indoor Unit and Outdoor Unit in Meters
- EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters (Equivalent One-Way Piping Length)

Models: RAK-18RPC/RAC-18WPC,RAK-25RPC/RAC-25WPC





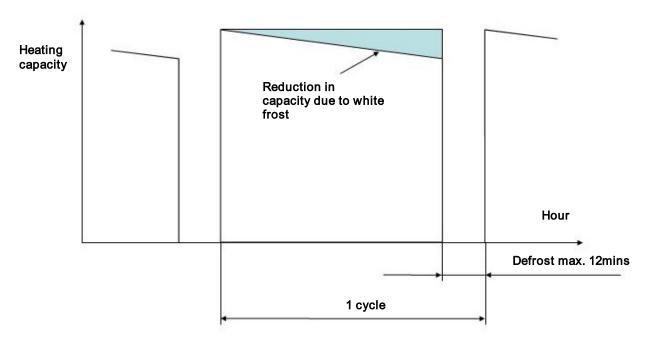
3.3. CORRECTION FACTORS ACCORDING TO DEFROSTING OPERATION

The heating capacity in the preceding paragraph, excludes the condition of the frost or the defrosting operation period. In consideration of the frost or the defrosting operation, the heating capacity is corrected by the equation below.

Corrected heating capacity = Defrost Correction factor x unit capacity

OUTDOOR TEMPERATURE (°CDB)	-15	-10	-7	-5	0	7	10	15
Correction factor (humidity rate85% RH)	0.95	0.95	0.89	0.85	0.81	1.0	1.0	1.0

Correction Factor

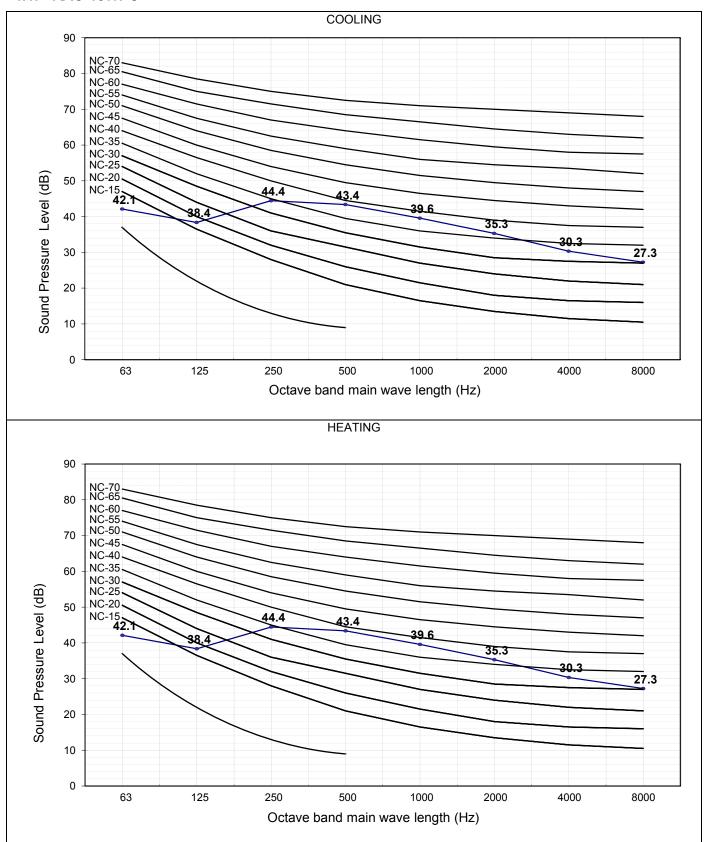


NOTE:

The correction factor is not valid for special conditions such as snowfall or operation in a transitional period.

4 SOUND DATA

4.1. RAC-18WPC

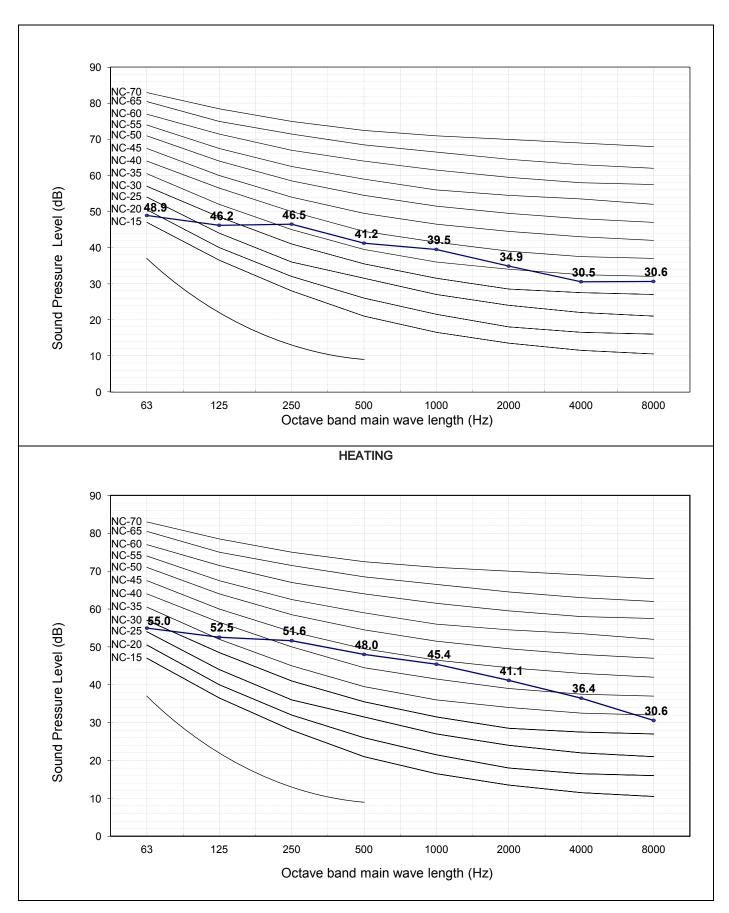


The Sound Pressure Level is based on the following conditions:

- 1 meter from the unit front surface and 1 meter from floor level

The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site

4.2. RAC-25WPC



The Sound Pressure Level is based on the following conditions:

The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site

^{- 1} meter from the unit front surface and 1 meter from floor level

5 WORKING RANGE

5.1. POWER SUPPLY

Working Voltage	207V ~ 253V
Voltage Imbalance	Within a 3% Deviation from Each Voltage at the Main Terminal of Outdoor Unit
Starting Voltage	Higher than 85% of the Rated Voltage

5.2. WORKING RANGE

Applicable models:

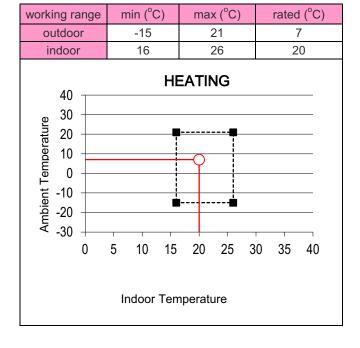
RAC-18WPC
RAC-25WPC

The temperature range is indicated in the following table.

Cooling

working range	e m	in (°C)	max (°C	rate	d (°C)
outdoor		-10	43	;	35
indoor		16	43		27
Ambient Temperature 20 -10 -20 -30 -30 -5		20 25	30 35	40 45 5	0

Heating



6 ELECTRICAL DATA

6.1. INDOOR UNIT

Madal	Unit Ma	in Power	Applicabl	e Current	Indoor Fan Motor		
Model	VOL, PH, Hz	Fuse Rating (A)	STC	RNC	RNC	IPT	
RAK-18RPC	230, 1, 50	3.15	(C) 3.34 (H) 3.49	(C) 4.39 (H) 4.22	0.67	30	
RAK-25RPC	230, 1, 50	3.15	(C) 4.36 (H) 4.56	(C) 5.61 (H) 5.43	0.67	30	

VOL: Rated Unit Power Supply Voltage (V) RNC: Running Current (A)

6.2. OUTDOOR UNIT

		Unit Main Powe	er			Compressor Motor					
Model	VOI DU U-7	H, Hz Fuse Rating (A) Min (V) Max (V		May (\/)	Looked Poter Amnere (A)		Cooling Operation		Heating Operation		
	VOL, PH, HZ Puse Ra	ruse Ralling (A)	IVIIII (V)) IVIAX (V)	Locked Rotor Ampere (A)	310	RNC	IPT	RNC	IPT	
RAC-18WPC	230, 1, 50	15	207	253	-	3.49	4.39	550	4.22	580	
RAC-25WPC	230, 1, 50	15	207	253	-	4.56	5.61	700	5.43	880	

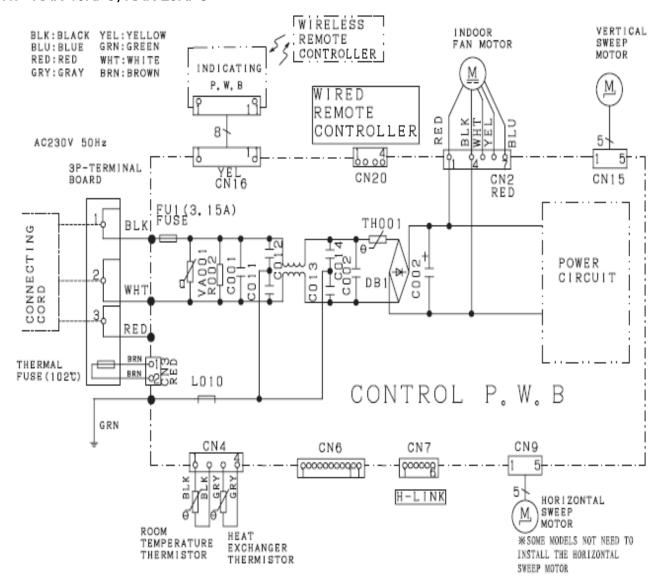
VOL: Rated Unit Power Supply Voltage (V) RNC: Running Current (A)

NOTE:

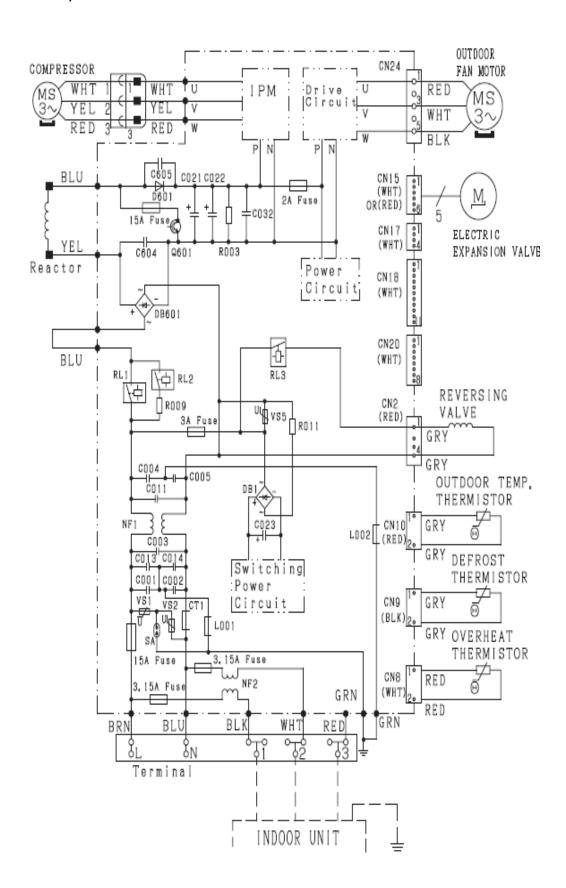
- 1. The above compressor data is based on 100% capacity combination of indoor units at the rated operating frequency
- 2. This data is based on the same conditions as the nominal heating and cooling capacities.
- 3. The compressor started by an inverter, resulting in extremely low starting current.

7 WIRING DIAGRAM

7.1. RAK-18RPC, RAK-25RPC

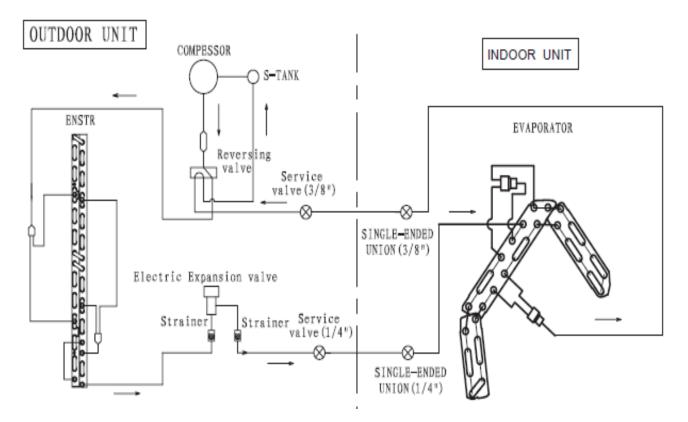


7.2. RAC-18WPC, RAC-25WPC



8 REFRIGERANT CYCLE

8.1. WALL TYPE: RAK-18RPC/25RPC / RAC-18WPC/25WPC



CONTROL AND FUNCTION

9.1. WIRELESS REMOTE CONTROL FUNCTION



BUTTONS	FUNCTION
MODE	MODE Selector
	Use this button to select the operationg mode. Every time you press this button, the mode will change from
	A (AUTO) → $*$ (HEAT) → $$ (DEHUMIDIFY) → $*$ (COOL) and → $*$ (FAN) cyclically.
*	FAN SPEED Selector Button
FAN	This determines the fan speed. Every time you press this button, the airflow rate will change from
	△ (AUTO) → ☐ (HIGH) → ☐ (MED) → ☐ (LOW) → ☐ (SILENT) (This button allows selection of optimal or)
	preferred fan speed for each operation mode).
	START/STOP button
①	Press this button to start operation. Press it again to stop operation.
⊘ ECO	ECO button
ECO	Use this button to set the ECO mode.
	POWERFUL button
	Use this button to set the POWERFUL mode.
T.	SILENT button Use this button to set the SILENT mode.
43	INFO button
	Press this button to display temperature for 10 seconds.
\mathbf{i}	Press this button to check monthly power consumption.
	3) Press this button to recieve the current calendar and clock.
=	Use this button to set the ECO sleep timer.
	AUTO SWING (Vertical) button
P7	Controls the angle of the horizontal air deflector.
	AUTO SWING (Horizontal) button
	Controls the angle of the vertical air deflector.
\sim	LEAVE HOME button
10°C	Prevent the room temperature from falling too much by setting temperature 10°C~16°C when no one is at home
	ONE TOUCH CLEAN button
	Drying indoor heat exchanger after cooling operation to prevent mildew.
WEEKLY TIM	
OFF ØTIMER	ON/OFF TIMER button
ON	The device will turn on (off) and off (on) at the designated time.
TIME	TIME button
~	Press the button to set starting time of the program OK button
OK	Press the button to save the program. The button shall be pressed everytime after finishing a program setting.
	DELETE button
	Press the button to delete the selected program.
DELETE	2) Press the button for about 10 seconds by directing the remote controller towards the indoor unit while
	Mode A or B display blinks, programs for Mode A or B will be deleted both from the indoor unit and the remote controller after the beep sound from the indoor unit.
	DAY button
Mon-Sun	Select the desired day of the week.
1-6	PROGRAM NO. button
. 0	Press this button to select a program number.
	CANCEL 1) Press the button to cancel the current setting process on the screen.
CANCEL	2) Press the button by directing the remote controller towards the indoor unit, then weekly timer setting
0/11022	will be canceled from indoor unit after the beep sound from the indoor unit. The program setting
	remains in the remote controller.
	SEND button
SEND	Press the button for about 3 seconds by directing the remote controller towards the indoor unit after finishing the program setting. Timer lamp on the indoor unit will blink rapidly and after the beep soung from indoor unit,
	TIMER lamp will light up.
0.000	CLOCK button
CLOCK	Press the button to set calendar and clock.
© WEEKLY)	WEEKLY TIMER MODE button
ØWEEKLY A/B	 Select Mode A or Mode B. 2 modes can be set and stored as a weekly timer. By pressing the button longer than 3 seconds, program setting screen will appear.
	L 2) by pressing the button longer than a seconds, program setting screen will appear.

9.2. AUTO CHANGEOVER

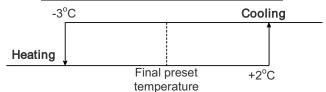
COOLING/HEATING mode is decided by the room temperature.

- A. COOLING/HEATING mode is decided during the initial startup of Automatic Operation Initial startup of Automatic Operation means the following either condition:
 - Unit start up in Automatic Operation
 - Automatic Operation mode is pressed while the unit is running in manual mode

Startup room temperature	COOL / HEAT
>= Remote controller	Unit runs in
setting temperature	COOLING mode
< Remote controller setting	Unit runs in
temperature	HEATING mode

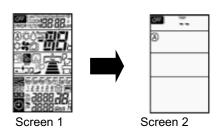
 B. COOLING/HEATING mode is decided in intervals after the initial startup of Automatic Operation (also known as Auto Changeover function)

Intervals	Duration
1 st interval	10 minutes
2 nd interval	15 minutes
Subsequent interval	Every 55 minutes



9.3. SHIFT VALUE

- Press and hold (START/STOP) button and (ON) button.
- 2. Press RESET [RESET] button on the same time. Release RESET [RESET] button only, then release (START/STOP) and (ON) button once Screen 1 appears.



3. Press the (MODE) button to display fan mode (Screen 3).



Screen 3

4. Press ①(START/STOP) and Screen 4 appear.

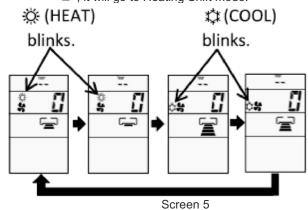


Screen 4

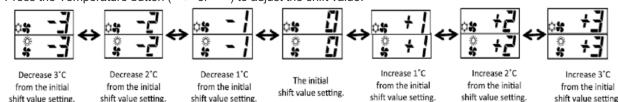
 Select FAN (FAN SPEED) button to choose Heating Shift or Cooling Shift Mode (Screen 5).

By setting fan speed to HIGH are or MED are, it will go to Cooling Shift mode.

By setting fan speed to LOW are or SILENT are, it will go to Heating Shift mode.



6. Press the Temperature button (\(\sqrt{or} \sqrt{\sqrt{o}} \)) to adjust the shift value.



NOTE

- 1. There are total of 7 shift values ranging from -3 to 3.
- 2. The displayed shift value, I (HEAT) and I (COOL) symbol on the remote controller display will be disappear after 10 seconds
- 3. The changed shift value will remain unchanged after turned off the power.
- 4. If "0" is displayed on the remote controller display, it indicates the shift value is now at the initial setting.

9.4. OPERATION LOCK

- 1. HEATING MODE
- a) Press and hold ECO (ECO) and (DOLLER LINE)

(POWERFUL) buttons, press RESETO (RESET) button on the same time. Release RESETO (RESET) button only when Screen 1 appear, then release CO (ECO) button and POWERFUL) button.



Screen 1

b) Wait until only Screen 2 appear.

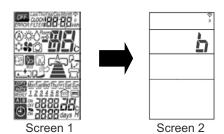


Screen 2

- c) The heating mode operation is locked.
- d) To unlock HEATING mode, repeat step (a). After all operations mode symbols displayed for 10 seconds, the operation mode symbol before cancellation will be display. The heating mode operation is unlocked.
- 2. COOLING AND DEHUMIDIFYING MODE
- a) Press and hold (ECO) and (SILENT) buttons for at least 5 seconds when the remote controller is OFF.
- b) Wait until only that and displayed on the screen. The cooling and dehumidifying modes operation is locked.
- c) To unlock HEATING mode, repeat step (a). After all operations mode symbols displayed for 10 seconds, the operation mode symbol before cancellation will be display. The cooling and dehumidifying mode operation is unlocked.

9.5. SETTING THE PREVENTION OF MUTUAL INTERFERENCE

- 1. Please ensure the other indoor unit is OFF
- 2. Press (PROGRAM NO.) button, (ON TIMER) button and (RESET) button simultaneously. The remote controller will display Screen 1 and followed by Screen 2. The indoor unit beeps to indicate that it has just received the signal from remote controller.



NOTE:

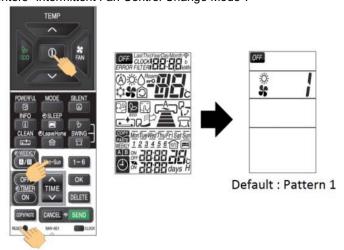
1. If indoor unit still not receive the correct signal from the correct remote controller, setting shall be made again. By setting again for the 2nd time, the signal address will change from B to A, then repeat again for the 3rd time.

9.6. INTERMITTENT FAN SPEED SETTING

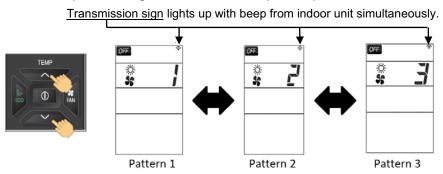
The intermittent fan control during thermo off in Heating Mode can be changed by the remote controller. (This procedure should be done only by service personnel.) It is possible to select from 3 patterns.

PROCEDURE

1. Press [START/STOP] button, [Mon-Sun] button and press RESET [RESET] button simultaneously. Release RESET [RESET] button only and make sure that all marks on the remote controller display are indicated, then release [START/STOP] button and [Mon-Sun] button. Remote controller now enters "Intermittent Fan Control Change Mode".



Press [ROOM TEMPERATURE setting] [\(\lambda(UP) \)]/[V(DOWN)] buttons.
 (The intermittent pattern changed with indoor unit beep sound.)



	Pattern 1	Pattern 2	Pattern 3
Single Model	Continuous	30sec ON / 210sec OFF repeatedly	50sec ON / 190sec OFF repeatedly
Multi Model	30sec ON / 210sec OFF repeatedly	50sec ON / 190sec OFF repeatedly	Continuous

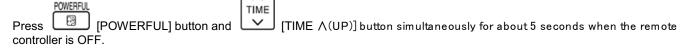
NOTE:

- (1) The indication of the selected intermittent pattern will disappear after 10 seconds.
- (2) The selected intermittent pattern will remain unchanged after the unit is turned off.

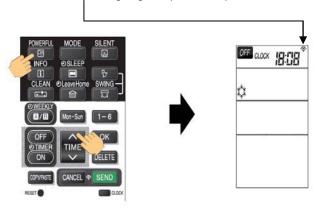
9.7. FAN SPEED SETTING IN THERMO OFF IN COOLING

The fan speed in Cooling Mode during thermo off can be changed by the remote controller. (This procedure shall be implemented strictly by service personnel only.) It is possible to return it to the default setting.

PROCEDURE



<u>Transmission sign</u> lights up with beep from indoor unit simultaneously.



Beep sound pattern : 1) Default setting : Short beep 2) Changed setting : Double beep

	Fan speed during thermo off
Default Setting	Ultra low
Changed Setting	Set fan speed (When auto fan speed is set, the fan speed is low)

NOTE

- (1) The selected fan speed will remain unchanged after the unit is turned off.
- (2) If Timer reservation has been set, it will be canceled.
- (3) During time setting and timer setting, this operation cannot be set.

9.8. ERROR CODE INFORMATION

- In case failure occurs to the air conditioner, by pressing (INFO) button, an error code will be displayed.

 Direct the remote controller towards the receiver of indoor unit (within 2 meters in from of indoor unit) and press (INFO) button.

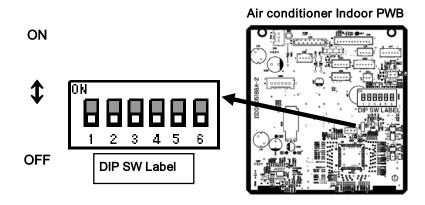
 Wait for 2 seconds for signal transmission and the error code will be displayed.

	TIMER LAMP BLINKING	LED301 BLINKING	CODE	MEANING
	-	-	000 00	Normal
	1 time		001 00	Refrigerant cycle fault
~	2 times	-	-	Outdoor unit is under forced operation
NDOOR	3 times	9 times 003 Communication error between inc		Communication error between indoor and outdoor units
2	9 times	-	009 00	Indoor thermistor
	10 times	-	010 00	Abnormal rotating numbers
	13 times	-	013 00	IC401 data reading error
	4 times	2 times	002 01	Peak current cut
	4 times	4 times 3 times 003 Compressor abnormal low		Compressor abnormal low speed rotation
	4 times	4 times	004 01	Compressor switching failure
	4 times	5 times	005 01	Overload lower limit cut
	4 times	6 times	006 01	OH thermistor temperature rise
	4 times	7 times	007 01	Abnormal outdoor thermistor
00R	4 times	8 times	008 01	Acceleration defective
OUTDOOR	4 times	9 times	009 01	Communication error
	4 times	10 times	010 01	Abnormal power source
	4 times	11 times	011 01	Fan stop for strong wind
	4 times	12 times	012 01	Fan motor fault
	4 times	13 times	013 01	EEPROM reading error
	4 times	14 times	014 01	Active converter defective
	4 times	15 times	015 01	Abnormal PWB circuit

	TIMER LAMP BLINKING	LD301 Lit LD302 BLINKING	CODE	MEANING
	4 times	1 times	071 01	Overheat thermostat
	4 times	2 times	072 01	Defrost thermostat
	4 times	3 times	073 01	Outdoor temperature thermostat
	4 times	4 times	074 01	Narrow pipe thermostat (indoor 1)
	4 times	5 times	075 01	Wide pipe thermostat (indoor 1)
~	4 times	6 times	076 01	Narrow pipe thermostat (indoor 2)
OUTDOOR	4 times	7 times	077 01	Wide pipe thermostat (indoor 2)
JUTE	4 times	8 times	078 01	Narrow pipe thermostat (indoor 3)
	4 times	9 times	079 01	Wide pipe thermostat (indoor 3)
	4 times	10 times	080 01	Narrow pipe thermostat (indoor 4)
	4 times	11 times	081 01	Wide pipe thermostat (indoor 4)
	4 times	12 times	082 01	Narrow pipe thermostat (indoor 5)
	4 times	13 times	083 01	Wide pipe thermostat (indoor 5)

9.9. ADDITIONAL FUNCTION VIA DIP-SWITCH SETTINGS

A new DIP Switch is available on the PWBs of the indoor unit that provide additional functions via the settings on the switches.



Pin No.	Function		,	Switch	n Position / Se	tting	
1	AUTO RESTART function	OFF	Enable	ON	Disable		
2	DRY CONTACT function	OFF	Disable	ON	Enable		
3	DRY CONTACT Logic Select	OFF	HI Input Active	ON	LO Input Active		
4	HEATING / COOLING ONLY	OFF	NORMAL (HEAT	OFF	HEATING	ON	COOLING ONLY
5	MODE SELECT	OFF	AND COOL)	ON	ONLY	OFF	COOLING ONLY
6	REMOCON ID SELECT *1	OFF	SELECT ID A	ON	SELECT ID B		

NOTE:

*1 The setting of pin no. 6 is disabled for this model. Please refer to 9.5 SETTING THE PREVENTION OF MUTUAL INTERFERENCE.

9.9.1. AUTO RESTART FUNCTION

The AUTO RESTART function can be enabled or disabled by setting Pin No. 1 on the DIP SWITCH above to the ON or OFF position accordingly.

9.9.2. HEATING/COOLING ONLY MODE SELECTION

When this function is enabled, the operation mode could be locked to either Heating Only (Heating or Fan) or Cooling Only (Cooling, Fan or Dehumidifying) by setting the Pin No. 4 and 5 accordingly.

LOCKED MODE	REMARKS
HEATING ONLY	Unit will not enter into Cooling mode although cooling mode is selected using the remote controller.
COOLING ONLY	Unit will not enter into Heating mode although heating mode is selected using the remote controller.

10 OPTION LIST

10.1. WIRED REMOTE CONTROL - SPX-RCDB



RAR-5G2 (SPX-RCDB)

BUTTONS	FUNCTION
(∅ ♦	MODE Selector Use this button to select the operationg mode. Every time you press this button, the mode will change from $\textcircled{6}$ (AUTO) → $\textcircled{4}$ (HEAT) → $\textcircled{6}$ (DEHUMIDIFY) → $\textcircled{5}$ (COOL) and → $\textcircled{8}$ (FAN) cyclically.
\$\$ FAN	FAN SPEED Selector Button This determines the fan speed. Every time you press this button, the airflow rate will change from △ (AUTO) → ☑ (HIGH) → ☑ (MED) → ☑ (LOW) → □ (SILENT) (This button allows selection of optimal or preferred fan speed for each operation mode).
①	ON/OFF button Press this button to start operation. Press it again to stop operation.
*	SLEEP button Use this button to set the SLEEP timer.
SET	SET button Timer setting reservation.
OFF (1)	OFF button Select the turn OFF timer.
(H)	ON button Select the turn ON timer.
CANCEL	CANCEL button Cancel timer reservation.
P7	AUTO SWING (Vertical) button Controls the angle of the horizontal air deflector.
\$ c \	ROOM TEMPERATURE setting button Value will change quicke when keep pressing.

10.1.1. SHIFT VALUE

- 1. Press and hold ① (ON/OFF) button and ② (ON TIMER) button at the same time while giving a single press on the RESET button until remote controller now enter 'Shift value change mode'.
- 2. Press \bigcirc (ON/OFF) button so that the display indicates FAN (FAN) speed.
- Select FAN (FAN SPEED) button to choose Heating Shift or Cooling Shift Mode.

By setting fan speed to HIGH \cong or MED \cong , it will go to Cooling Shift mode. By setting fan speed to LOW \cong or SILENT \subseteq , it will go to Heating Shift mode.

- 4. Press (ROOM TEMPERATURE) button to change the shift value (-3°C ~ 0 ~ 3°C).
- 5. Press ① (ON/OFF) button to end 'Shift value setting mode'.

NOTE:

- 1. There are total of 7 shift values ranging from -3 to 3.
- 2. The changed shift value will remain unchanged after turned off the power.

10.1.2. ERROR CODE INFORMATION

1. In case failure occurs to the air conditioner, the error code will constantly appear on the wired remote controller display.

	TIMER LAMP BLINKING	LD301 BLINKING	CODE	MEANING		
	-	-	-	Normal		
	1 time		<u>® * ○ □</u> 01 ○ s	Refrigerant cycle fault		
	2 times	-	-	Outdoor unit is under forced operation		
INDOOR	3 times	9 times	® % O \$ 03 O s	Communication error between indoor and outdoor units		
	9 times	-	09 O	Indoor thermistor		
	10 times	-	10 0	Abnormal rotating numbers		
	13 times	-	13 O	IC401 data reading error		
	4 times	2 times	Ø ◊ ◊ ¢ 02 I	Peak current cut		
OOR	4 times	3 times	® [⊗] ◇ ❖ ○ □ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Compressor abnormal low speed rotation		
OUTDOOR	4 times	4 times	04 I se	Compressor switching failure		
	4 times	5 times	05 1	Overload lower limit cut		

	TIMER LAMP BLINKING	LD301 BLINKING	CODE	MEANING		
	4 times	6 times	® * ◇ □ 06 I	OH thermistor temperature rise		
	4 times	7 times	Ø ∜ ◇ ♥ 07 I	Abnormal outdoor thermistor		
	4 times	8 times	® \$ ♦ \$ 08 1	Accelaration defective		
	4 times	9 times	09 1	Communication error		
OOR	4 times	10 times	8	Abnormal power source		
OUTDOOR	4 times	11 times	③ ※ ◇ ❖ 11 II	Fan stop for strong wind		
	4 times	12 times	(â) (â) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Fan motor fault		
	4 times	13 times	(â) ^(‡) ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	EEPROM reading error		
	4 times	14 times	8 \$ \$ \$ 14 I	Active converter defective		
	4 times	15 times	8	Abnormal PWB circuit		
		LD301 Lit LD302 BLINKING				
	4 times	1 times	8	Overheat thermostat		
	4 times	2 times	(â) ^(‡) ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Defrost thermostat		

	TIMER LAMP BLINKING	LD301 Lit LD302 BLINKING	CODE	MEANING		
	4 times	3 times	8	Outdoor temperature thermostat		
	4 times	4 times	74 I s	Narrow pipe thermostat (indoor 1)		
	4 times	5 times	8 * 0 \$ 75 1 \$\$	Wide pipe thermostat (indoor 1)		
	4 times	6 times	8 0 0 1 76 I s	Narrow pipe thermostat (indoor 2)		
	4 times	7 times	⊗ ⋄ ⋄ ↓ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑	Wide pipe thermostat (indoor 2)		
OUTDOOR	4 times	8 times	8 ¢ ¢ ¢ 78 I s	Narrow pipe thermostat (indoor 3)		
	4 times	9 times	79 1	Wide pipe thermostat (indoor 3)		
	4 times	10 times	80 1	Narrow pipe thermostat (indoor 4)		
	4 times	11 times	81 I	Wide pipe thermostat (indoor 4)		
	4 times	12 times	82 1	Narrow pipe thermostat (indoor 5)		
	4 times	13 times	83 1	Wide pipe thermostat (indoor 5)		

10.2. H-LINK ADAPTOR - PSC 6RAD

10.2.1. SAFETY SUMMARY

DANGER:

 DO NOT pour water into the remote control switch (hereafter called "controller"). This product is equipped with electrical parts. This will cause serious electrical shock.

WARNING:

DO NOT perform installation work and electrical wiring connection by yourself. Contact your distributor or dealer of HITACHI and ask then for installation work and electrical wiring by service person. The specified cable should be used to connect (i) room air conditioner and adaptor, and (ii) controller and adaptor.

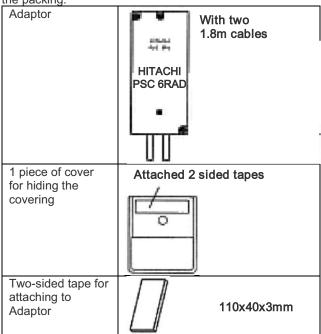
CAUTION:

- DO NOT install the indoor unit, outdoor unit, controller and cable as such places as:
 - where there is oil vapor and dispersion of oil
 - where there is sulfuric environment (near the hot springs)
 - where there is a flammable gas
 - where there is salty environment (near the sea)
- DO NOT install the indoor unit, outdoor unit, controller and cable within approximately 3 meters from strong electromagnetic wave radiators, such as medical equipment. In case that the controller is installed in a place where there is electromagnetic wave directradiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.
- In case that there is electric noise at the power source for the indoor unit, provide a noise filter.

10.2.2. INSTALLATION WORK

■ Before installation

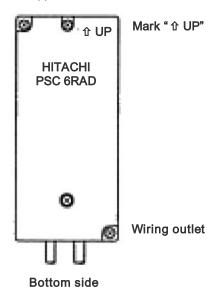
Check the contents and the number of the accessories in the packing.



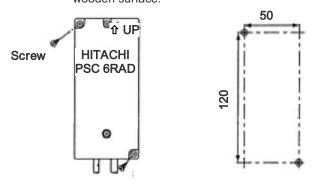
2 connectors for H-Link connection	0	
2 tapping screws for attaching to wall	(mmo	ф3.0 x 10mm
2 screws for attaching to wooden wall	{	ф3.1 x 16mm

- RAC adaptor can be installed to the wall as well as on the air conditioner itself
- Install RAC adaptor in the vertical surface as shown below.

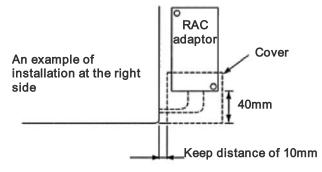
Upper side



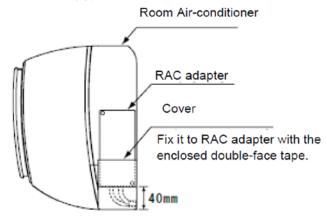
- 3) Installation procedure
 - a) When installing to the wall.
 - Fix the adaptor with 2 screws. Tapping screw is for metal surface, and other screw is for wooden surface.



When using the cover
 It can be installed at the right and left side of room air conditioner. Fix the cover and RAC adaptor with the two-sided tape (accessory).



- b) When installing on the room air-conditioner In case that it cannot be installed to the wall due to the space or material problem, install the RAC adaptor with the two-sided tape (accessory) on the room air-conditioner.
 - Confirm if the piping cover of the unit can be removed when performing the service maintenance, and then fix the RAC adaptor in the side of room air-conditioner with two-sided tape. (Available at the right as well as left side)
 - ii) Clean the surface to be installed with a dry cloth.

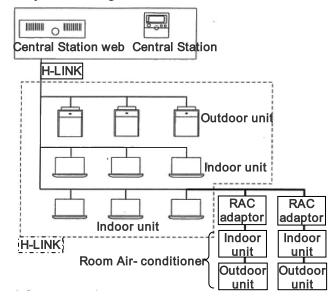


NOTE:

- Consider the following points since the adhesiveness changes according to the environmental conditions (temperature, humidity etc)
- The adhesiveness is decreased when there is humidity or oil.
- Warm the adhesive part and installation place of the two-sided tape to avoid the decrease of the adhesiveness in case the ambient temperature is low.
- DO NOT touch the adhesive part by fingers nor reattach it many times. The adhesiveness has decreased and the RAC adaptor may fall off.
- DO NOT apply any force within 24 hours after installation.

10.2.3. ELECTRICAL WIRING

System configuration



CAUTION:

- Turn OFF the power supply of the room air-conditioner of the central control device when performing the wiring work
- DO NOT run all the H-LINK cable or power supply cable along the other signal cable, or malfunction may occur due to the noise, etc. If it is required to run along the other transmission cable, separate the cable more than 30cm, or run the cable through the metal tube and earth the tube.
- Follow local codes and regulations when performing electrical wiring and earth wiring.
- Transmissions cable used in H-LINK shall be 2 cores cable (0.7mm² to 1.25mm² for model: VCTF, VCT, CVV, MVVX, CVVX, VVR, VVF) or 2 cores twisted pair cable (model: KPEV, KPEV-Spec). Total length of cable shall be below 1000mm.
- DO NOT use wire with more than 3 cores.
- Internal components and Wiring connections

Check the contents and the number of the accessories in the packing.

Access

Open the cover by removing the ① and ② screws.



Wiring Connection

Connection with Room Air-Conditioner

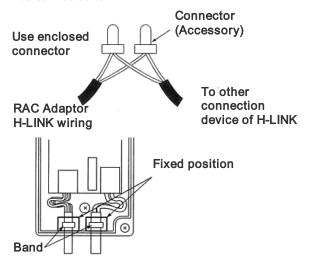
- i) Remove the front cover of the room airconditioner and the cover of electrical box.
- ii) The cable attached with the connector of the RAC adaptor shall be connected with the connector of indoor PCB

iii) Install the electrical box cover paying attention not to clamp the cable. Read the installation manual of each room air-conditioner for confirming how to connect and how to assemble the cable of the RAC adaptor.

CAUTION:

- Disconnect the power plug before performing this work
- Turn OFF the break power source in case the power is supplied from the outdoor unit.
 - Connection of Transmission Cable

H-LINK transmission cable connecting to RAC adaptor shall be connected to H-LINK.

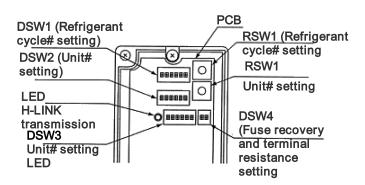


CAUTION:

- DO NOT connect incorrect wiring. It may cause the failure of the RAC Adaptor. Especially pay attention not to apply high voltage e.g. AC400/230V.
- DO NOT perform the wiring work while power to the central station or the RAC Adaptor is still being supplied. It may cause malfunction. Turn OFF devices when performing the wiring work.
- The RAC Adaptor side cable should not overload to the connector.
- DO NOT clamp the cable when attaching the RAC adaptor cover.
- Band should not be loose and in fixed position.

10.2.4. DIP SWITCH SETTING

- Switch OFF the power of room air conditioner before setting the DIP switch. If the power is ON, the settings are INVALID.
- The position of the DIP switch is shown below.



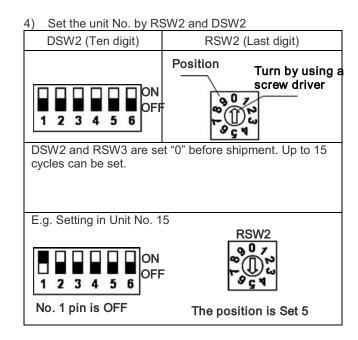
CAUTION:

No. 1 pin is OFF

DO NOT turn ON various pins of DSW1 and DSW2

Set the refrigerant cycle# by RSW1 and DSW1 DSW1 (Ten digit) RSW1 (Last digit) **Position** Turn by using a screw driver OFF 2 3 4 5 6 DSW1 and RSW1 are set "0" before shipment. Up to 15 cycles can be set. E.g. Setting in Ref No. 5 OFF 2 3 4 5 6

The position is Set 5



5) Slave unit.

In case of setting various RAC adaptors in the same refrigerant cycle, set the RAC adaptor with smallest Unit# as a master unit. In case of setting only one RAC adaptor in a refrigerant system, this adaptor should be a master unit. Set this procedure by DSW3.

Master Unit setting	Setting before shipping (slave unit setting)		
ON 1 2 3 4 5 6	ON 1 2 3 4 5 6		

- •: Master Unit setting
- O: Setting before Shipping (Slave Unit setting)

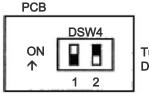
Indoor Unit# 5 3 6 7 0 0 0 0 0 0 2 0 00 0 Refrigerant 3 4

CAUTION:

Unit#

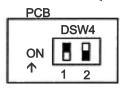
- DO NOT set various main adaptors in the same refrigerant cycle.
- Procedure when applying 200V voltage to H-LINK wiring incorrectly.

In case of applying 200V voltage to H-LINK wiring incorrectly, the fuse installed in a transmission circuit on PCB will blow out. In this case, reconnect the wiring correctly and turn ON No. 2 pin of DSW4 on PCB. The transmission circuit can be recovered. (If applying this error again, the transmission circuit can not be recovered)



Turn ON No.2 pin of DSW4

- Terminating resistance is set in whole H-LINK system.
 - If H-LINK connecting devices like package airconditioner are connected besides the RAC Adaptor, set the terminating resistance by those connecting devices. The terminating resistance should be set ON in only one position in whole H-LINK system.
 - In case that H-LINK is connected only by the RAC adaptor, set the terminating resistance by the RAC adaptor. The terminating resistance should be set ON in only one position in whole H-LINK system.



Turn ON No.1 pin of DSW4

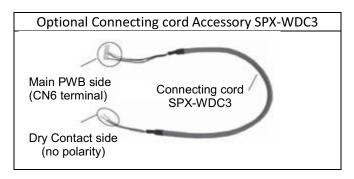
10.2.5. TEST RUN

Test run should be performed in the following after finishing the installation, wiring and setting. Refer to the installation manuals enclosed with the control system equipment.

- Confirmation of RAC Adaptor Connection Confirm if the RAC adaptor connection is recognized in the control system equipments. In case that it is not confirmed, check the transmission cable, refrigerant cycle #, indoor unit #, terminal resistance setting etc.
- Confirm if the RAC adaptor connection is recognized.
- Confirmation of RUN/STOP Operation. Confirm if the room air-conditioner operate correctly by from the central control equipments. Check also if the room air-conditioner operation changes correctly by each setting.

10.3. DRY CONTACT (SPX-WDC3) APPLICATION (USING DIP SWITCH)

The dry contact system enables the operation of the air conditioner indoor unit to be controlled by using external dry contacts (with non voltage) such as card-key controller or window for facilities such as hotels.



Note:

- 1) DRY CONTACT function is "Enable" by set pin No. 2 of the DIP SWITCH (DSW1) to ON position.
- 2) Select the proper setting for DRY CONTACT LOGIC INPUT pin No. 3 on DIP SWITCH (DSW1)
 - i) Set to OFF position (Hi Input) if the type of Dry Contact switch to be used (for the CARD KEY UNIT or Window) is of contact type a (Normally Open Type) as shown in below diagram.
 - ii) Set to ON position (Lo Input) if the type of Dry contact switch to be used (for the CARD KEY UNIT or Window) is of contact type b (Normally Close Type) as shown in below diagram.

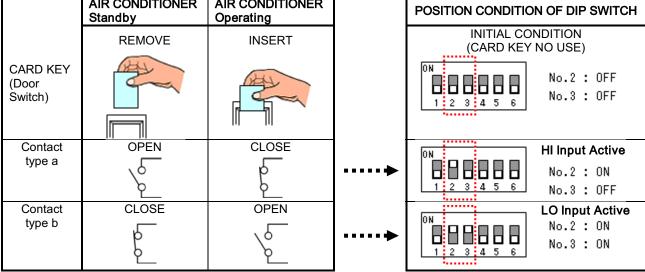
ON	ON	П					1
‡	🛮	2	3	4	5	6	
OFF DIP SW (DS				SW1	I)	_	

Pin No.	Function	Switch Position / Setting			
2	DRY CONTACT function	OFF	Disable	ON	Enable
3	DRY CONTACT Input Logic	OFF	HI Input Active	ON	LO Input Active

Please decide the type of dry contact you will be using and set the position of the DIP Switch No. 2 and 3 accordingly

[1] CHECK DRY CONTACT OF CARD KEY UNIT

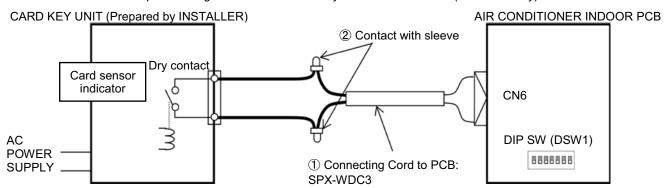
[2] SET THE POSITION OF DIP SWITCH AIR CONDITIONER AIR CONDITIONER



After all connection has been done as below diagram, ON the breaker and push ON button of wireless remote controller or wired remote controller to operate the air conditioner unit.

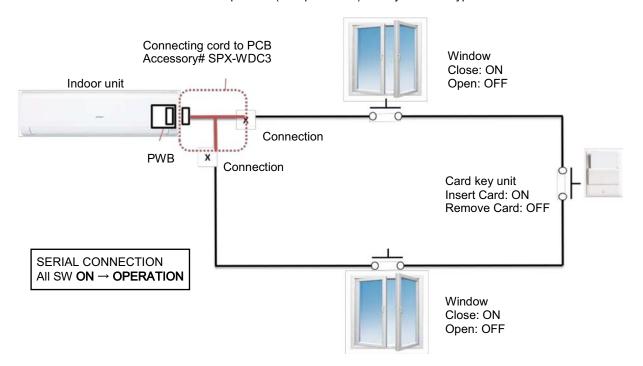
- When the CARD KEY is in insert condition, the air conditioner operation is allowable by remote controller.
- When the dry contact switch on the Card Key Unit is open (refer to diagram below for contact type a), the unit stops to operate (it takes 10 seconds to stop the unit operation after the dry contact switch on the card key turns off) and vice versa.
- •When the card key is removed from the Card Key Unit, the wireless remote controller cannot be used.
- When the card key is removed from the Card Key Unit, the wired remote controller LCD display is activated; however it has no control over the unit.
- The suitable accessory Connecting Cord (accessory code#: SPX-WDC3) need to be used to connect the Card Key Unit's dry contact switch to the connector on the control board of the indoor unit

Example of wiring connection to Card Key Unit will be as below (reference only)

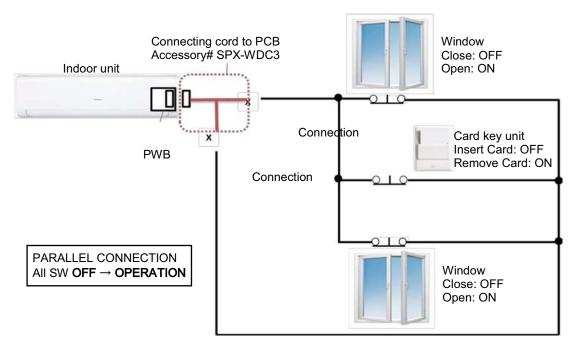


CONNECTION EXAMPLE

i. Pin No. 3 of DIP SWITCH is set to OFF position (HI Input Active) for Dry Contact Type a



ii. Pin No. 3 of DIP SWITCH is set to ON position (LO Input Active) for Dry Contact Type b

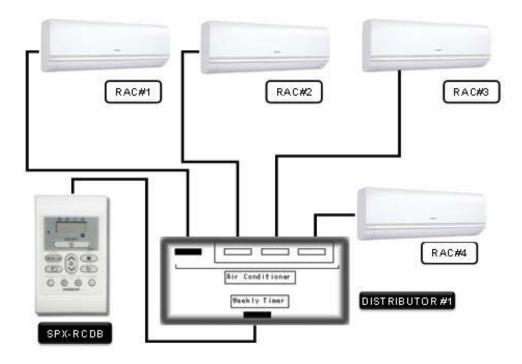


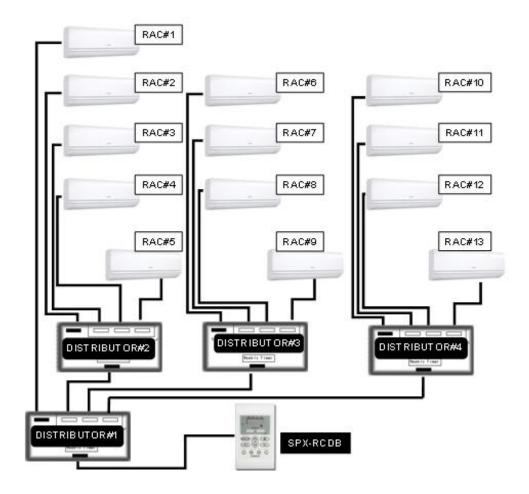
Please refer to the actual manual supplied with the optional connecting cords SPX-WDC3 for more details.

10.4. DISTRIBUTOR - SPX-DST1

The optional distributor is to be used together with the wired remote controller when there is a need to centralize the control of multiple indoor units using only a single wired remote controller.

A single distributor could be connected further to 3 separate distributors so that up to 13 units of indoor could be controlled by a single wired remote controller.





HITACHI

TC - ERP - Model

INDOOR OUTDOOR
RAK-18RPC RAC-18WPC
RAK-25RPC RAC-25WPC