DAIKIN VRV AIR CONDITIONER

Wiring Adaptor for Electrical Appendices (1)

Installation Manual

KRP2A61・62・51・52・53

Accessories Check the following accessories are included in the kit before the installation.

Wiring Adaptor for Electrical Appendices (1)	×1
PCB support	×4
Clamp	×3
Installation manual	×8

NOTES

- The kit type (KRP2A61・51 type , KRP2A62・52 type , KRP2A53 type) varies according to air conditioner model.
- The installation box for adaptor PCB are required with the following air conditioner models.

FXA(Q)・・・・・・・・・・・・・・・・KRP4AA93
FXFQ・・・・・・・・・・・・・・・・・KRP1H98
FXF(Q)～L・M・・・・・・・・・・・・KRP1DA98
FXHQ・・・・・・・・・・・・・・・・・KRP1D93A
FXYH・FXH(Q)～L・M・・・・・・・KRP1CA93
FXCQ・・・・・・・・・・・・・・・・・KRP1C96
FXYC・FXC(Q)～L・M・・・・・・・KRP1B96
FXZQ・FXD(Q)・・・・・・・・・・・KRP1BA101

1 General description of system

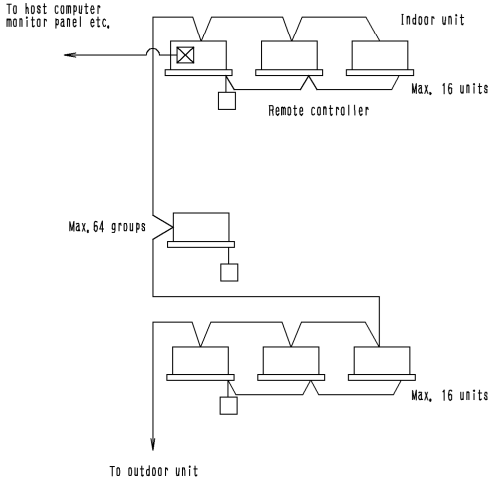
The KRP2A61・62・51・52・53 enables operation by remote control (ON/OFF control, temperature setting, operation display, error display). With it, the following system can be built. Note however that the adaptor cannot be used with other optional controllers for centralized control.

1. Zone control

(Unified control of a max. 64 groups of a max. 16 indoor units each. But, the max. of indoor units is 128.)

This system requires the following parts.
- Wiring Adaptor for Electrical Appendices (1)
  ・・・ KRP2A61(62) or KRP2A51(52)(53)
- Remote controller switches (For control)
  ・・・ BRC1●●● / or BRC2●●● / or BRC3●●● } Per group

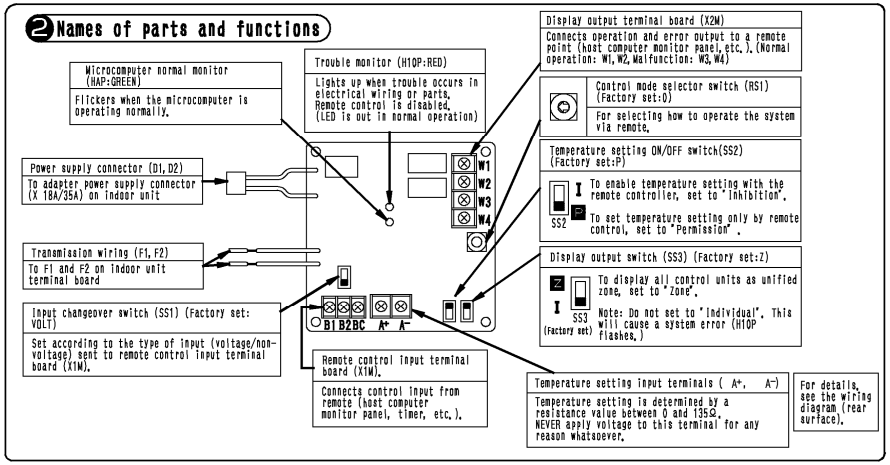
(Ex.) Zone control for 8 FXYC63KVE units (control groups of 4 , 3 and 1)
KRP2A51×1 kit / BRC1C62×3 kit } (1 set required for each group.)



NOTES

Individual indoor units connected to the centralized line cannot be displayed individually.

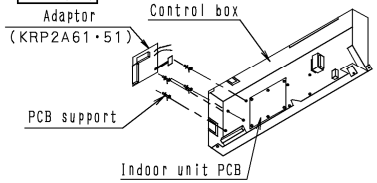
2 Names of parts and functions



3 Installation

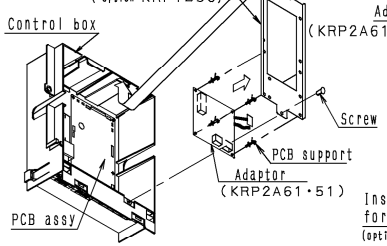
❮ Ceiling-mounted cassette type ❯

FXYK (Corner model)
FXK(Q)

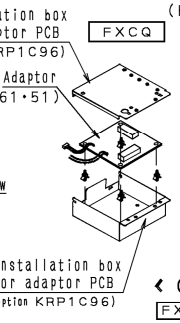


❮ Ceiling mounted cassette type ❯ (Double-flow model)

FXYC
FXC(Q)～L・M



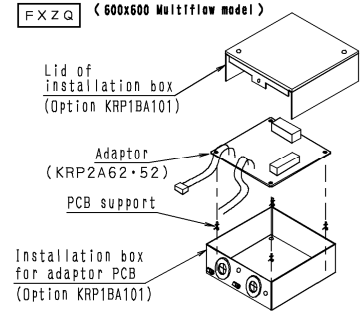
FXCQ



NOTE :Installation box for adaptor PCB is required to install the adaptor.

❮ Ceiling-mounted cassette type ❯

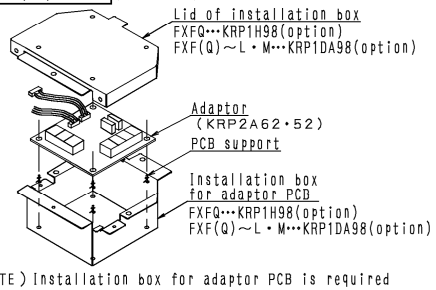
FXZQ (600x600 Multiflow model)



NOTE :Installation box for adaptor PCB is required to install the adaptor.

❮ Ceiling-mounted cassette type ❯

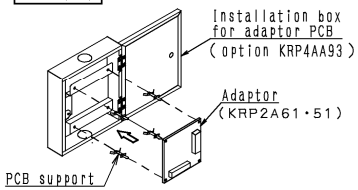
FXFQ (Round flow)
FXF(Q)～L・M (Multi flow)



NOTE) Installation box for adaptor PCB is required to install the adaptor.

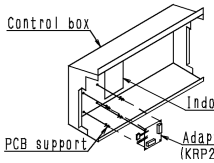
❮ Wall mounted type ❯

FXA(Q)

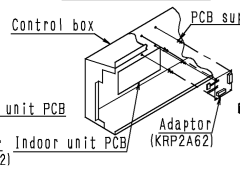


❮ Floor duct type ❯

FXVQ125～250

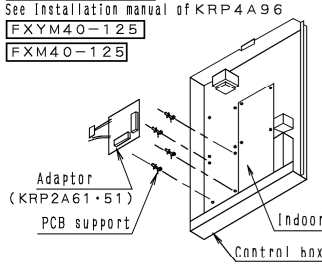


FXVQ400・500

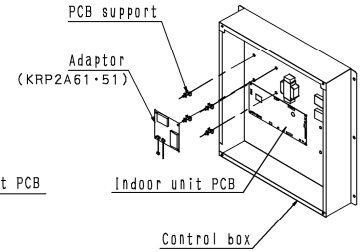


❮ Ceiling - mounted Duct type ❯

FXMQ20－140P
See Installation manual of KRP4A96
FXYM40－125
FXM40－125

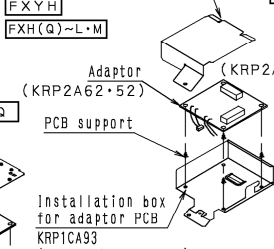


FXYM200・250KJ
FXM(Q)200・250

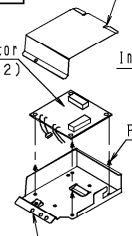


❮ Ceiling Suspended type ❯

FXYH
FXH(Q)～L・M



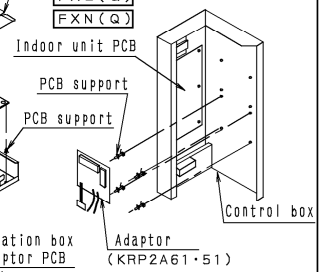
FXHQ



NOTE :Installation box for adaptor PCB is required to install the adaptor.

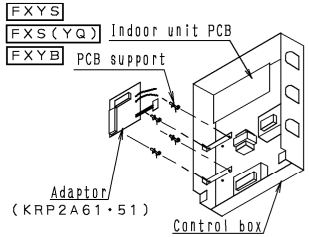
❮ Floor-standing type ❯

FXYL(M)
FXL(Q)
FXN(Q)



❮ Ceiling mounted Built-in type ❯

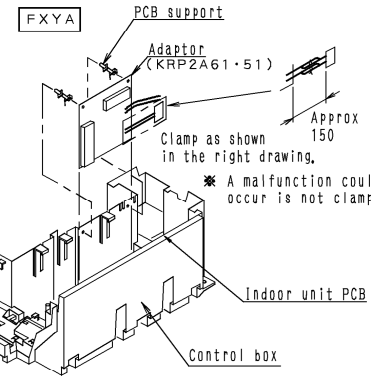
FXYS
FXS(YQ)
FXYB



NOTE :Installation box is necessary for second adaptor (FXS(YQ)).

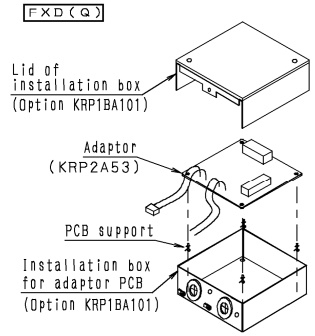
❮ Wall mounted type ❯

FXYA



❮ Ceiling-mounted duct type ❯

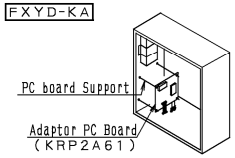
FXD(Q)



NOTE :Installation box for adaptor PCB is required to install the adaptor.

❮ Ceiling Mounted Low Silhouette Duct Type ❯

FXYD-KA



NOTE:Installation box is necessary for second adaptor.

4 Electrical wiring

① First, wire between the indoor and outdoor units, then to the separate power sources, and between the indoor units and the remote controllers. Then, check wiring is correct. (If wanting group control by remote controller, check transmission wiring.) For details, see the installation manual of the indoor and outdoor units.

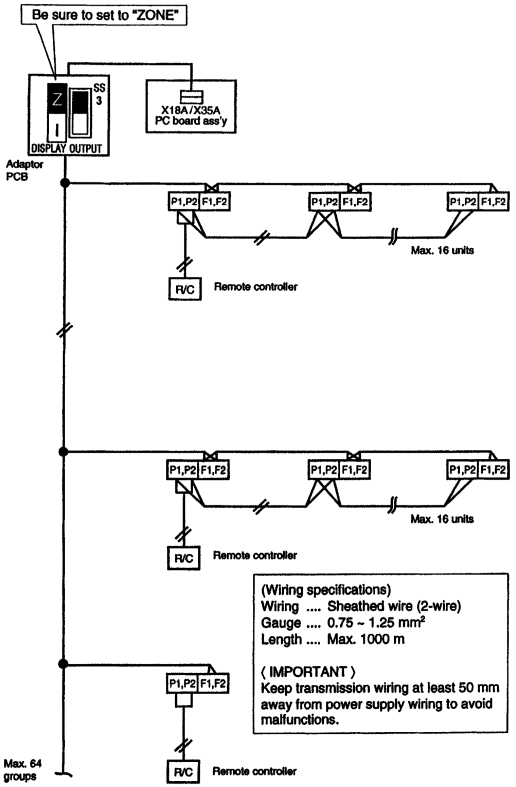
② Next, wire between the wiring adaptor for electrical appendices (1) and the indoor units. For details, see Wiring to indoor units.

③ Finally, wire between external units such as the host computer monitor panel, and make the necessary settings. For details, see Wiring to external units (host computer monitor panel).

Note) It is not necessary to set address No. for centralized control. (Setting is automatic.)

Wiring to indoor units

1. For zone control



(Wiring specifications)
Wiring .... Sheathed wire (2-wire)
Gauge .... 0.75 ~ 1.25 mm²
Length .... Max. 1000 m

(IMPORTANT)
Keep transmission wiring at least 50 mm away from power supply wiring to avoid malfunctions.

Wiring to external units (host computer monitor panel)

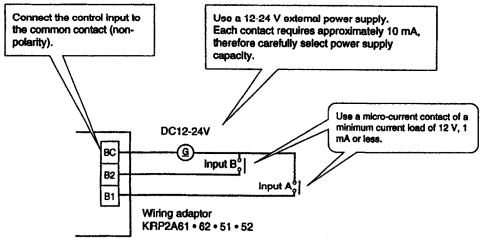
1. Remote control input (operation control)

Wire as described below. Wiring differs depending on whether using a voltage or non-voltage input.

● For voltage input

Set input changeover switch (SS1) to "VOLT". (Factory set: VOLT)

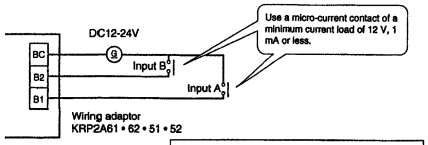




● For non-voltage input

Set input changeover switch (SS1) to "NON VOLT".



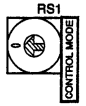


(Wiring specifications)
Wiring .... Sheathed wire
Gauge .... 0.18 ~ 1.25 mm²
Length .... Max. 150 m

(IMPORTANT)
Keep transmission wiring at least 50 mm away from power supply wiring to avoid malfunctions.

2. Setting control mode selector switch (RS1)

Using control mode selector switch (RS1), select the control mode as described below.



Factory set: "0" position

① When operating with only individual display function

Position	Function
0	Individual display (input ignored)

② When operating with constant input from A

Position	Function	Contents when input A is ON	Contents when input A is OFF
1	Remote controller rejection	Operation (remote controller is normally rejected)	Stop + remote controller rejection
2	Central priority	Operation + remote controller accepted	
3	Stop by remote controller acceptable	Operation + stop by remote controller acceptable (No operation by the remote controller)	
4	Remote controller acceptance/rejection	Remote controller acceptance only (No operation by the remote location)	

〈Note〉
● Input B is for forced-OFF. When ON, stop + remote controller is rejected, and input A is ignored. When OFF, even if A is ON, the contents of when input A is ON are not achieved. Input A must therefore be re-input.

③ When operating with momentary input from A
(Use a momentary input of ON time 200 milli-sec or longer.)

Position	Function	Contents of Input A	Function of Input B
5	Remote controller rejected	Stop for ON while operating, Operate for ON while stopping	Input B will be forced stop function (When ON, stop + remote controller is rejected, input A is ignored.)
6	Last command priority	Stop for ON while operating, Operate for ON while stopping (Remote controller is normally accepted.)	

★ For demand control from input B

Position	Function when input A is ON	Function when input B is ON
C	Remote controller rejected (Same as position "5")	Forced thermostat OFF command
D		Forced temperature shift command
E	Last command priority (Same as position "6")	Forced thermostat OFF command
F		Forced temperature shift command

● Forced thermostat OFF command
Forces indoor unit to operate the fan only.
● Forced temperature shift command
The indoor unit operates at 2°C higher (cooling) or 2°C lower (heating) than the set temperature.

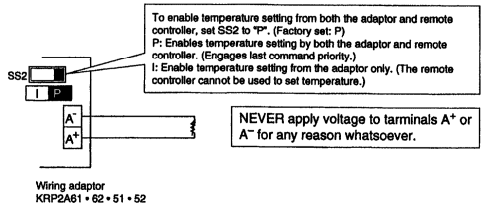
〈Notes〉
● In zone control, operation is displayed as long as one indoor unit is running. When in the last command priority mode, some units are not operation while ON.
● In such case, even if input A is ON, the unit and all other units in the same zone will stop.

④ When operating with dual momentary inputs from A and B
(Use a momentary input of 200 mili-sec or longer.)

Position	Function	Contents when input A is ON	Contents when input A is OFF
7	Remote controller rejection	Operation (remote controller is normally rejected)	Stop + remote controller rejection
8	Central priority	Operation + remote controller accepted	
9	Stop by remote controller acceptable	Operation + stop by remote controller acceptable (No operation by the remote controller)	
A	Remote controller acceptance/rejection	Remote controller acceptance only (No operation by the remote location)	
B	Last command priority	Operation (remote controller is normally accepted)	Stop (remote controller normally accepted)

〈Note〉
● Doing constant input A with position 7 ~ A, it will be forced OFF function (input A is ignored.)
● Constant input cannot use for input B with position B.

3. Temperature setting input



Temperature setting corresponds to resistance values values in the range of 0 to 135Ω. Their relationship is as shown below.

Temperature setting (°C)	16	17	18	19	20	21	22	23	24
Resistance (Ω)	0.0 ~ 3.4	5.0 ~ 11.6	13.8 ~ 20.0	22.4 ~ 28.4	31.0 ~ 36.4	39.4 ~ 44.8	48.2 ~ 52.8	56.6 ~ 61.2	65.2 ~ 69.4

Temperature setting (°C)	25	26	27	28	29	30	31	32
Resistance (Ω)	73.8 ~ 77.8	82.4 ~ 85.8	91.0 ~ 94.0	99.4 ~ 102.2	108.6 ~ 110.4	117.2 ~ 119.2	125.8 ~ 127.4	134.2 ~ 140.0

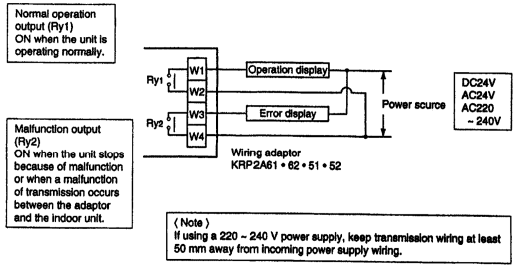
〈Note〉 Wiring resistance included in above figures.

(Wiring specifications)
Wiring ... Sheathed wire
Gauge ... 1.25 ~ 2.00 mm²
Length ... Max. 70 m

〈IMPORTANT〉
Keep transmission wiring at least 50 mm away from power supply wiring to avoid malfunctions.

4. Cancelling display signals

Operation output terminals (W1 and W2) and malfunction output terminals (W3 and W4) are non-voltage constant contact output.
(Allowed electric current per contact is between 10 mA and 3A.)



〈Note〉
If using a 220 ~ 240 V power supply, keep transmission wiring at least 50 mm away from incoming power supply wiring.

Output / System	Both Ry1 and Ry2 OFF	Ry1 only ON	Ry2 only ON
Zone control	All zones OFF	At least one unit running normally, no malfunction	Even 1 unit stopped due to malfunction or malfunction of transmission between adaptor and indoor unit

Display output is described by system in the below table.

Note

If rewiring F1 and F2 after running the system, turn ON power for 5 minutes, then turn it OFF and ON again. Changes to wiring can sometimes disable control from the wiring adaptor.