Please carefully read the "Safety Precautions" as follows and install the controller as instructed.

- The precautions given herein are classified as "! WARNING" and "! CAUTION". However, particular precautions which, unless they are observed in installing that aculd regult in death and corious injury are identified by "I WARNING"
- could result in osem and serious injury are identified by "I WARNING".

  Needless to say even other precautions which are not identified by "I CAUTION" could lead to a serious accident unless they are observed. Therefore, please do not fail to observe these precautions. an in observe uses precautions.

  After completion of the installation please conduct a test run on the controller to check that it is free from any fault and in addition simultaneously instruct the user how

Partie completion of the installation, please conduct a test for or the controller to check that it is need from
to operate and maintain it correctly (in accordance with the Operation Manual).

Furthermore, request the user to keep this manual together with the Operation Manual for future reference.

#### **MARNING**

The installation work must be requested by the dealer.
Installation by user himself could cause electric shock, fire, etc.

Install correctly in accordance with this installation manual. Incorrect installation, if any, may cause electric shock, fire, etc.

Installing;don not fail to use the accessories and specific parts which are supplied together with the indoor unit. Failure to observe this instruction may cause electric shock, fire, etc.

Perform correctly the electric wiring connection using the specified cables and firmly clamp each terminal connector to prevent cable load from being transferred there to.

Unstable and improper cable connecting and clamping could cause overtheat, fire, etc.

# **⚠** CAUTION

Avoid installing at the following locations

- avoid installing at the following locations. I. Cuisine and other place where the controller is inevitably exposed to mineral oil, scattered oil or steam Installing at such places could cause deterioration of the resin parts, corrosion or short circuit.

- Instanting at sout places could close detendation for the sear plant, sources on a not curcuit.

  Where corrosing gases such as sulfur disoxide generate inevitably.

  3.Where a machine as generates electromagnetic waves, installing at such a place could cause trouble of the control line and failure of normal all-conditioning operation.

  4.Where leak of combustible gas is forecast and place where violatile ignitable gases such as thinner, gasoline, etc. are handled.

Should such gas leak and accumulate around the devices, could cause igniting

## **ACCESSORIES**) Check if the following accessories are included in the kit

| Adaptor | Relaying wire harness    |                          |   |  |  |  |  |
|---------|--------------------------|--------------------------|---|--|--|--|--|
| Adaptor | (1) for the power source | (2) for connecting Modem | (3) for connecting contact input of<br>compulsory start/compulsory stop |  |  |  |  |
| ×1      | NOTE1                    | ×1 (5m)                  | ×1 (5m)   |  |  |  |  |

| C board support    | ×4 |
|--------------------|----|
| nstallation manual | ×1 |
|                    |    |

#### NOTE1

- ●Relaying wire harness inside the power source depends on the type of the indoor unit to which this kit is to be equipped. (The following table indicates the type of
- Each of the four (4) pieces of harnesses for the power source contained has each different length, only one of which is to be used
- Each of the four (4) pieces of harnesses for the power source is marked "A", "B", "C" and "D" for identification purpose on its connector area

| Model name of  | Harness for the power source to be used |                |  |  |
|--|---|----------------|--|--|
| the indoor unit to which<br>this kit is to be equipped | Marking                                 | Harness length |  |  |
| FD(Y)M~F(A)  |   |                |  |  |
| FHYK-F   | Α .                                     | 500mm          |  |  |
| FHYB-F   | ] • *                                   | 50011111       |  |  |
| FAY-F  |   |                |  |  |
| FHY-B  | В                                       | 800mm          |  |  |
| FVY-L  | _ B                                     | OCCITIENT      |  |  |
| FDY-K(A)   |   |                |  |  |
| FHYC-K   | C .                                     | 1150mm         |  |  |
| FHYC-B   |   | 115011111      |  |  |
| FUY-F  |   |                |  |  |
| FDYB-K(A)  | D                                       | 1190mm         |  |  |

#### NOTE2

- Kits vary according to applicable models.
   A special adaptor fixing plate and box are required for the following models

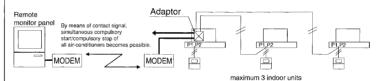
| FHY-B              | KRP1C93 |
|--------------------|---------|
| FVY-L              |         |
| FDY-K(A),FDYB-K(A) | KRP1B10 |
| FHYC-K             | KRP1B98 |
| FHYC-B             | KRP1C98 |
| FUY-F              | KRP1B97 |

### 2 SYSTEM OUTLINE

By equipping this adaptor on the SkyAir indoor unit, controlling and monitoring of the air-conditioner becomes possible from the remote monitor panel via modern

- by equipping his adaptor on the skylar induction, containing and monitoring or the air-conditioner becomes poss in addition, the following control of the air-conditioner is possible even when the remote control is not available.

  1. Automatic & Alternate operation...... The operation hour of the air-conditioner connected to this kit is averaged.
- When the air-conditioner stops due to power failure or any trouble, the number of the air-conditioner operated before the stop is
- . This prevents the simultaneous starting of the air-conditioners when all of them are to be operated 3 Start control in sequence

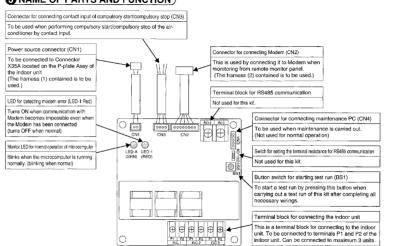


This adaptor controls the indoor units connected to maximum 3 lines of remote controlling line (P1, P2).

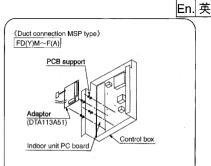
- [Attention]

  1. A remote controller is always required for the air-conditioner to be connected to this adaptor.
- This adaptor cannot be used together with centralized controlling equipment, BACnet Gateway, Intelligent Touch Controller, etc.
   This adaptor cannot be used together with the adaptor for group remote control.
- 4. While this adoptor is being equipped. 2-remote control is not possible.

# NAME OF PARTS AND FUNCTION



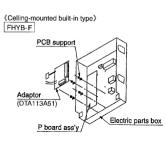
an adaptor P-plate is required



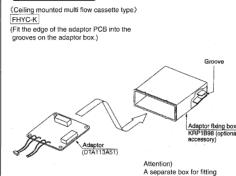
(Corner type)

FHYK-F

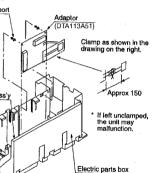


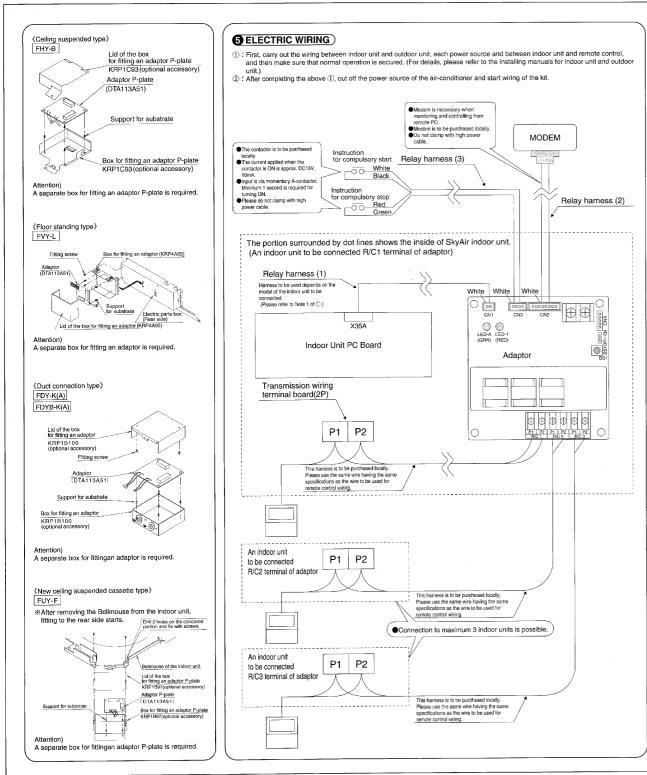






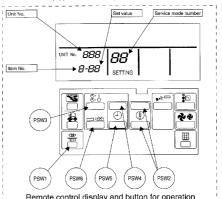
(Ceiling mounted multi flow cassette type) (Wall-mounted type) FHYC-B FAY-F I id of the box PCB suppor for fitting an adaptor P-plate KBP1C98 (optional accessory Adaptor (DTA113A51) Support for substrate P board ass Box for fitting an adaptor P-plate KRP1C98 (optional accessory) Attention) A separate box for fitting an adaptor P-plate is required





## (6) ABOUT SETTING

Setting is to be carried out by using the button switch BS1 located on this adaptor and the remote control that has been connected to the indoor unit equipped with this adaptor.



|    | Procedures for setting   | Remote control display             |
|----|--|------------------------------------|
| 1. | By pressing BS1 of this adaptor, operation by setting from the remote control service function becomes possible and the LED-1 (Red) of this adaptor becomes blinking.  (Remote control display: After approx. 60 seconds, the remote control display shows "88".  After further 15 seconds, the remote control display shows to normal.)   | 88  <br>↓<br>Normal display        |
| 2. | When PSW1 (TEST) is kept pressed down for 4 seconds, the remote control becomes a service function display.  —The service mode number in the right $\text{Fig} \oplus \text{becomes} \text{``01''}$ , Here, we carry out the setting of service mode numbers 20 and 21 by means of setting procedure 3.  If PSW1 (TEST) is orther kept pressed down for 4 seconds while this service mode number is "01", —the service mode number in the right Fig D becomes "40".  —The service mode number in the right Fig D becomes "40", if the procedure 4.   "The service mode number in the right Fig D becomes "50", Here, we carry out the setting of service mode number 50 by means of setting procedure 4. | 9-88 SETTING                       |
| 3. | Here, we carry out the setting of the setting items 1, 8 and 11 in the next table.  1. By operating PSW2, please seet either "Service Mode Number" 20 or 21 that you want to set. (Right Fig 2)  2. By operating PSW3, set the "Unit Number" to 15. (Right Fig 2)  3. By operating PSW4, select the "Item No." you want to set. (Right Fig 3)  4. By operating PSW5, select "1" or "2" that you want to set. (Right Fig 4)  5. Finally, please preas PSW5 and fix the set value.  6. You can carry out the setting of setting items 1, 8 and 11 by repeating above 1 - 5.  (In this case, Unit No. Is not displayed sometimes depending on the service mode number.)                                     | (2) MAT 16 15 (20 1) SETTING T     |
| 1. | Here, we carry out the setting of the setting Rem 12 in the next table.  1. By operating PSW3, set the "Unit Number" to 15. (Right Fig (2))  2. By operating PSW4, setcet the "limen No." you want to set. (Right Fig (3))  3. By operating PSW5, select the value that you want to set. (Right Fig (3))  4. Finally, please preas PSW6 are fix the set value.   | (2) (MAT 16. 15) (50 (1) SETTING 1 |
| 5. | When all of the above 2-5 settings have been completed, press PSW1 (TEST). The remote control returns to normal display from function display.   | Normal display                     |
| ŝ. | Finally by pressing BS1 of this adaptor, the LED-1 (Red) of this adaptor turns OFF and all settings are now completed.  (Remote control display: After approx. 80 seconds, the remote control display changes to "88" display. After further 15 seconds, the remote control display returns to normal.)  | 88  <br>↓  Normal display          |

# Items to be set from remote control service function

| No. | Setting Items                                   | Service Mode | Item | Set value  |   | Unit  | Remarks                 |  |   |
|-----|---|--------------|------|--|---|-------|-------------------------|--|---|
| NO. | Setting items                                   | No.          | No.  |  | Set value                                     |       | No.                     | nomarks  |   |
| 1   | Upper unit                                      |              | 0    | 1:   | Non   | 2:    | Available               |  | In case of None for upper unit, please set at 1:None.                                       |
| 2   | Communication & Information style of upper unit |              | 1    | 1:   | Unique specifications                         | 2:    | -                       |  |   |
| 3   | Communication method of upper unit              |              | 2    | 1:   | Modern method                                 | 2:    | -                       |  |   |
| 4   | Communication interface of upper unit           | 20           | 3    | 1:   | RS-232  | 2:    |                         |  | Please do not make any change to the setting that has                                       |
| 5   | Communication speed of upper unit               |              | 4    | 1:   | 2.4Kbps                                       | 2:    | 9.6Kbps                 |  | been made on shipment.  |
| 6   | Modem control                                   |              | 5    | 1:   | Non   | 2:    | Available               |  |   |
| 7   | Automatic receipt                               |              | 6    | 1:   | Non   | 2:    | Available               | i  |   |
| 8   | Back-up control                                 |              | 0    | 1:   | Non   |       | Available               |  | When back-up operation is not carried out, please set at 1:None.                            |
| 9   | Group control                                   | 21           | 1    | 1:   | Non   |       | Available               |  | Please do not make any change to the setting that has                                       |
| 10  | Sequence start control                          | 21           | 2    | 1:   | Non   | 2:    | Available               | 15   | been made on shipment.  |
| 11  | Minimum number of operational units guaranteed  |              | 3    | 1:   | One (1) unit                                  | 2:    | Two (2) units           |  | In case of the number of minimum operational units guaranteed is two (2), set at 2:2 Units. |
| 12  | Time for automatic & alternate                  |              | 0    | Au   | Automatic & Alternate operation hour (H) 10th |       |                         | Range for setting: 0099(H) 00H: No function of automatic & alternate operation is available. |   |
|     | operation                                       |              | 1_   | Au   | Automatic & alternate operation hour (H) 1st  |       |                         | Setting on shipment: 00H (no automatic & afternate operation)                                |   |
| 13  | Regular signaling hour/time                     |              | 2    | Re   | Regular signaling hour/time: every 10 hours   |       |                         | Setting on shipment:   |   |
| 1   |   |              | 3    | Re   | Regular signaling hour/time: every 1 hour     |       |                         | 02:00  |   |
|     |   | 50           | 4    | Re   | Regular signaling hour/time: every 10 minutes |       |                         | Please do not make any change to the setting that has  |   |
|     |   | 50           | 5    | Re   | Regular signaling hour/time: every 1 minute   |       |                         | been made on shipment.   |   |
| 14  | Air-conditioner address                         |              | 6    | Address upper 4 bit (to be represented by 015 and set) |   |       | Setting on shipment : 0 |  |   |
|     |   |              | 7    | Address lower 4 bit (to be represented by 015 and set) |   |       |                         |  | Setting on snipment . 0   |
| 15  | Adaptor address                                 |              | 8    | Address upper 4 bit (to be represented by 015 and set) |   |       | Setting on shipment : 0 |  |   |
|     |   |              | 9    | Add  | fress lower 4 bit (to be re                   | prese | ented by 0…15 and set)  | L  | Getting on ampirions . o  |
|     |   |              |      | _  | : Eactory set                                 |       |                         |  |   |