SAMSUNG

INSTALLATION MANUAL

Wired Remote Control

MWR-VH01

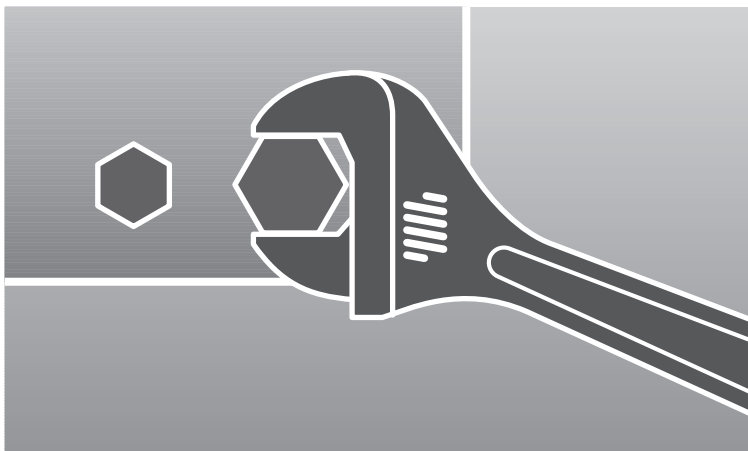ENGLISH

ESPAÑOL

FRANÇAIS

ITALIANO

PORTUGUÊS

DEUTSCH

ERV
(Energy Recovery Ventilator)

Ⓔ Ⓢ Ⓕ Ⓘ Ⓟ Ⓓ DB98-27509A(2)

Safety Precautions

This Installation manual indicates you to install the ERV wired remote control which is connected to ventilator. To install other optional accessories, refer to an appropriate installation manual.

⚠ **WARNING**	◆ Do not install the unit by yourself. Incorrect installation of the unit could cause injury due to fire, electric shock and water leakage or the unit falling. Consult a dealer or a qualified installer. ◆ Install the product with rated power supply. ◆ Do not attempt to repair, modify or disassemble the unit on your own. Make sure that these installations are carried out by qualified personnel to avoid electric shock or fire. ◆ The electric work must be done by service agent or similarly qualified person according to national wiring regulations and use only rated cable. If the capacity of the electric work is not properly completed, electric shock or fire may occur. ◆ Install the unit in a place where it is strong enough to hold the product weight. When installed in place where it is not strong enough to withhold the product weight, the unit may fall and cause injury. ◆ Do not attempt to move or reinstall the unit on your own. There is a risk of electric shock or fire. ◆ Read carefully this installation manual before installation and check whether the unit is installed correctly after installation. ◆ Consult you dealer when you need to dispose of the unit.
⚠ **CAUTION**	◆ Do not install the product in a place where it is exposed to inflammable gas leakage. ◆ Do not spill any kind of liquid into the unit. It may result in electric shock or fire. ◆ Install the unit where there is 0°C to 39°C without being exposed to direct sunlight. ◆ Do not press the unit with a pointed thing. ◆ Do not install the product in the place where exposed to sulfurous acid or steam because it may damage the parts or cause malfunction. ◆ Install electrical wires not to get tension. There is a risk of being torn which cause fire. ◆ Do not install the unit in a place there is exposed to acid or alkaline liquid or special chemical spray. ◆ Do not connect the power plug to electrical wires. It may result in fire. ◆ Make sure that the unit does not affect to other devices in special environment such as hospital.

Contents

Accessories

*The following accessories are supplied with the ERV wired remote control.*

◆ The number of each accessory is indicated in parentheses.

M4X16 tapped screw(2)	User's manual(1)	Installation manual(1)

Caution

- ◆ *The ERV wired remote control must be installed by qualified installers.*
- ◆ *Before installing the ERV wired remote control, make sure the main power is off.*
- ◆ *All cables must be installed according to the national wiring regulations and must be installed inside the wall to avoid user contact.*

Installing the Unit
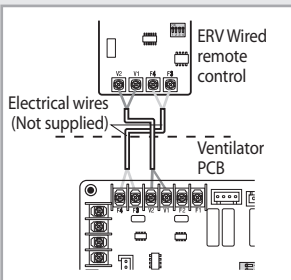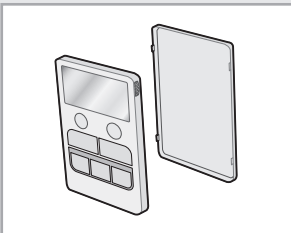
Installation

Connect the power cables and communication cables of the ERV wired remote control to the terminal of ventilator PCB.

1 Open the ERV wired remote control by using the groove on its top.

2 Secure the rear cover of the ERV wired remote control to the wall with 2 screws.

3 Connect the V1, V2 terminal of the ERV wired remote control to the V1, V2 terminal of the ventilator.

4 Connect the F3, F4 terminal of the ERV wired remote control to the F3, F4 terminal of the ventilator.

5 Reassemble the ERV wired remote control.

Caution

The electrical wires and the power cable of ERV wired remote control should be installed separately. The ERV wired remote control may malfunction due to electric trouble.

ERV Wired remote control

Electrical wires (Not supplied)

Ventilator PCB

Installing the Unit (Continued)

Setting Up PCB Option Switches

◆ Set up the DIP switches of the ERV wired remote control according to the user environment.

DIP switch	OFF	ON	Remarks
SW1	Auto operation mode not used	Auto operation mode used	Use only when the ventilator has auto operation function
SW2	Air purifying mode not used	Air purifying mode used	Use only when the ventilator has air purifying function
SW3	External control mode not used	External control mode used	Use only when the ventilator is connected to system air conditioner
SW4	Sleep mode not used	Sleep mode used	Classified by domestic/commercial use

Default setting

◆ The SW908 should be set as "0" under all conditions.

SW1 SW2 SW3 SW4

ON

1 2 3 4

DS01   SW908

Installing the Unit (Continued)

Installation Examples

Individual control

◆ Controlling 1 ventilator individually with 1 ERV wired remote control.
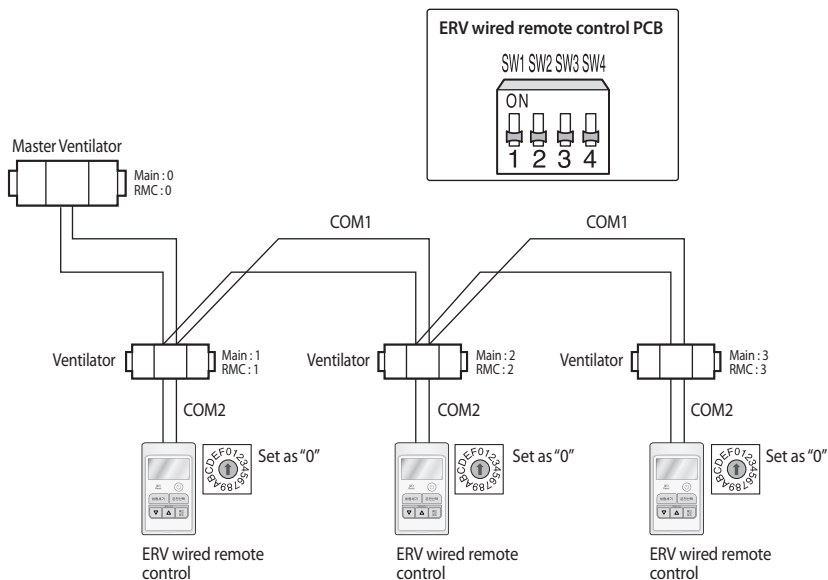
ERV wired remote control PCB

SW1 SW2 SW3 SW4

ON

1 2 3 4

Master Ventilator

Main : 0
RMC : 0

COM1

COM1

Ventilator

Main : 1
RMC : 1

Ventilator

Main : 2
RMC : 2

Ventilator

Main : 3
RMC : 3

COM2

Set as "0"

COM2

Set as "0"

COM2

Set as "0"

ERV wired remote
control

ERV wired remote
control

ERV wired remote
control

Caution

The ERV wired remote control controls the ventilators which are connected to the COM2 communication cable only.

Group control

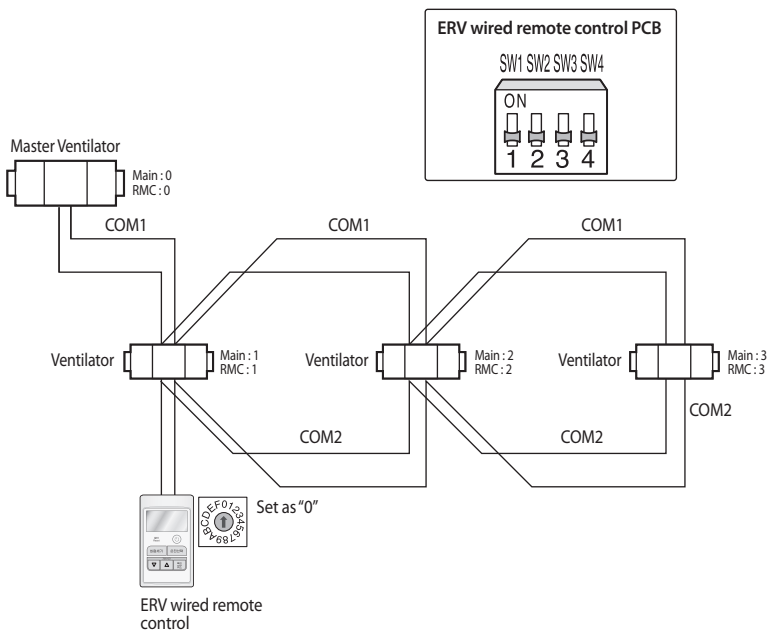◆ Controlling more than 2 ventilators with 1 ERV wired remote control.

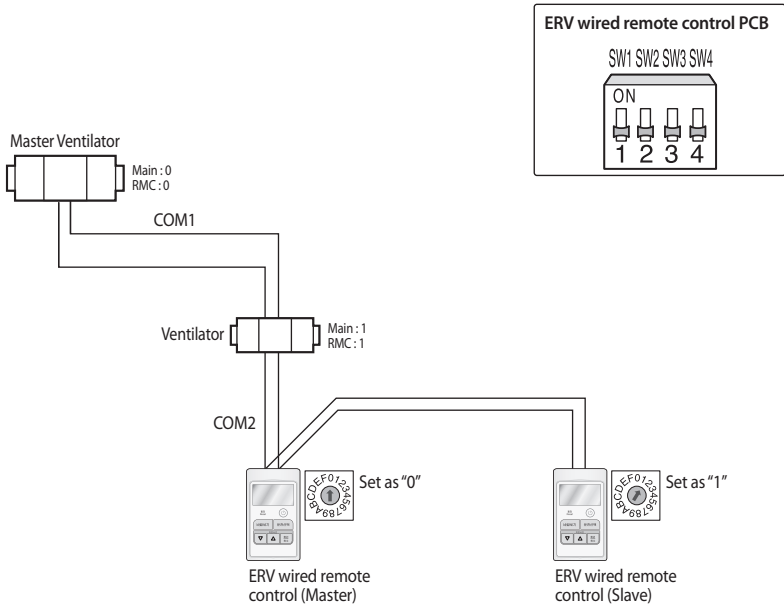*Example : When controlling 3 ventilators with 1 ERV wired remote control.*

ERV wired remote control PCB

SW1 SW2 SW3 SW4

ON
1 2 3 4

Master Ventilator

Main : 0
RMC : 0

COM1   COM1   COM1

Ventilator   Main : 1   Ventilator   Main : 2   Ventilator   Main : 3
                  RMC : 1   RMC : 2   RMC : 3

                                                                                    COM2

        COM2   COM2

Set as "0"

ERV wired remote
control

Caution

**The ERV wired remote control controls the ventilators which
are connected to the COM2 communication cable only.**

Installing the Unit (Continued)

Using 2-remote controls

◆ '2-remote' means that 2 ERV wired remote controls are used to control 1 ventilator.
   Set the DIP switch of the ventilator PCB as seen in the picture.

ERV wired remote control PCB

SW1 SW2 SW3 SW4

ON

1 2 3 4

Master Ventilator

Main : 0
RMC : 0

COM1

Ventilator

Main : 1
RMC : 1

COM2

Set as "0"

Set as "1"

ERV wired remote
control (Master)

ERV wired remote
control (Slave)

Caution

**2-ERV wired remote controls control the ventilator which is
connected to the COM2 communication cable.**

Initializing the Communication

The communication between an individual ventilator or a group of ventilators and an ERV wired remote control must be initialized when there is an additional ventilator to be connected.

◆ Press Fan Speed and Mode buttons simultaneously for 3 seconds.

  - The communication is initialized and the ERV wired remote control queries every connected ventilators.
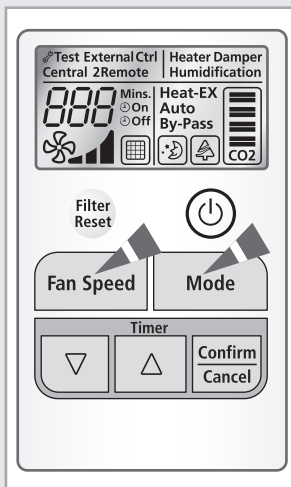
Error Code Display

LCD displays the errors of the ERV wired remote control and ventilator.

◆ If ✎Test is indicated, the corresponding error codes are indicated as well.

◆ When LCD displays the same error of several ventilators, the ventilator with the lower address is displayed first.
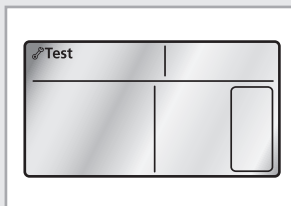
Error Display of ERV wired remote control

Display	Explanation	Remarks
601	Communication error between ERV wired remote control and ventilator (After the communication is cut off for continuous 3 minutes)	-
602	Communication error between MASTER ERV wired remote control and SLAVE ERV wired remote control (After the communication is cut off for continuous 3 minutes)	-
603	Communication Packet error	-
604	Tracking error between ERV wired remote control and ventilator over 10 times	-
606	Cross installation error of COM1/COM2 of ERV wired remote control	-
607	Communication error when both remote controls are set as MASTER	When using 2-remote control
608	No ventilators installed (No ventilators found after tracking)	-
609	Not yet installed the external device (The external device is not yet detected after setting up the option for external device and tracking)	When using external device

▎▎ Error Display of ERV wired remote control when ventilator is detected

Display	Explanation	Remarks
101	Communication error for 3 minutes after detecting COM1	-
121	Indoor temperature sensor error (Short/Open)	-
139	CO_2 sensor error (Short/Open)	Detected only by the ventilator which has CO_2 sensor
162	EEPROM error	-
201	Tracking error or MASTER ventilator (After 5 times of tracking, SLAVE ventilators can not be detected.)	-
202	System failure due to communication error after tracking	-
221	Outdoor temperature sensor error (Short/Open)	-
561	Supply Air fan motor sensor error	-
562	Exhaust Air fan motor sensor error	-
601	Communication error between ERV wired remote control and ventilator (After the communication is cut off for continuous 3 minutes)	-
652	Communication error by installing COM1 dual MASTER	-
653	Temperature sensor error (Open/Short)	Detected only by the ventilator which has temperature sensor
654	Damper error (When there is no switch input for 100 seconds while monitoring the damper)	-

✽ Refer to the ventilator installation manual for the errors of ventilator.