



Wi-Fi INTERFACE

CE0197

Model **MAC-557IF-E**

[FOR INSTALLER]

INSTALLATION MANUAL

[FÜR INSTALLATEUR]

INSTALLATIONSHANDBUCH

[POUR L'INSTALLATEUR]

MANUEL D'INSTALLATION

[VOOR DE INSTALLATEUR]

INSTALLATIEHANDLEIDING

[PARA EL INSTALADOR]

MANUAL DE INSTALACIÓN

[PARA O INSTALADOR]

MANUAL DE INSTALAÇÃO

[TIL INSTALLATØREN]

INSTALLATIONSMANUAL

[FÖR INSTALLATÖREN]

INSTALLATIONSMANUAL

[ASENTAJALLE]

ASENNUSOPAS

[FOR INSTALLASJONSPROGRAM]

INSTALLASJONSHÅNDBOK

[DLA INSTALATORA]

INSTRUKCJA MONTAŻU

[Klimaszereleok részere]

Telepítési kézikönyv

[Pro montéry]

INSTALAČNÍ MANUÁL

[ЗА МОНТАЖНИЦИ]

РЪКОВОДСТВО ЗА МОНТАЖ

English

Deutsch

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Nederlands

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Contents

1. Safety Instructions	2
2. Product Introduction	4
3. Parts	4
4. Connecting the Wi-Fi interface	4
5. LED pattern	5
6. Switch Function	5
7. Specifications	5

About Wi-Fi interface

This device, Wi-Fi interface, communicates the status information and controls the commands from the server by connected to an air conditioner.

- Some room air conditioners are not compatible with the Wi-Fi interface. Make sure that the room air conditioner is compatible with the Wi-Fi interface before attempting to install the Wi-Fi interface.

1. Safety Instructions

- Read all Safety Instructions before using the Wi-Fi interface.
- This installation manual contains important safety information. Be sure to comply with the instructions.
- After installing the Wi-Fi interface, provide this installation manual for the user. Instruct users to store it with their room air conditioner instruction manual and warranty in a safe location.

Warning

(Improper handling may have serious consequences, including serious injury or death.)

- **Users should not install the interface on their own.**
Improper installation may result in fire, electric shock, or damage/water leaks. Consult the dealer from whom you purchased the unit or professional installer.
- **The interface should be securely installed in accordance with this installation manual.**
Improper installation may result in fire, electric shock, or damage.
- **The unit should be mounted in a location that can support its weight.**
If the unit is installed in a location that cannot support its weight, the Wi-Fi interface could fall and cause damage.
- **Connect and fasten the electric wires securely so external force on the wires will not apply on the terminals.**
Improper connection and mounting may result in breakdown, heat generation, smoke generation, or fire.
- **Mitsubishi components or other designated components must be used for installation.**
Improper component may result in fire, electric shock, or damage/water leaks.
- **Electric work must be performed by authorized personnel according to the local regulations and the instructions detailed in the installation manual.**
Inadequate circuit capacity or improper installation may result in electric shock or fire.
- **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.**
- **Children should be supervised to ensure that they do not play with the appliances.**
- **This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**
- **This Class B digital apparatus complies with Canadian ICES-003.**
- **Do not connect the Wi-Fi interface to earth inside the air conditioner.**

Caution

(Improper handling may have consequences, including injury or damage to house.)

- **To prevent damage from static electricity, touch a nearby metal body to discharge static electricity from yourself before touching the Wi-Fi interface.**

Static electricity from the human body may damage the Wi-Fi interface unit.

- **Do not install the Wi-Fi interface in a place with much steam, such as bathroom.**

Avoid places where water is splashed or where condensation forms on walls. Installing in such places can cause electric shock or breakdown.

- **Do not install the Wi-Fi interface in places with direct sunlight or where the ambient temperature is 40°C or more or is 0°C or less.**

Direct sunlight and high or low temperature environments may cause the Wi-Fi interface to deform or breakdown.

- **Do not use in special environments.**

Use in places with much oil (including machine oil), steam, or sulfuric gas may lead to severe decrease in functionality and damage to parts.

- **Turn off power supply of connected equipment when performing construction or wiring work.**

Failure to turn off the power supply to the connected equipment may lead to malfunction or breakdown of the Wi-Fi interface or connected equipment.

Note

- Please ensure that the access point supports both WPS connection and the WPA2-AES encryption setting before commencement of the installation of the MAC-557IF-E.

- The End user should read and accept the Terms and conditions of the WiFi service before commencement of the installation of MAC-557IF-E.

- To complete connection of the MAC-557IF-E to the WiFi service physical access to the access point may be required.

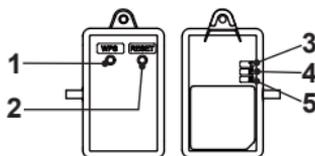
- The MAC-557IF-E will not commence transmission of any operational data from the system until the End user registers and accepts the terms and conditions of the WiFi service.

- The MAC-557IF-E should not be installed and connected to any Mitsubishi Electric system which is to provide application critical cooling or heating.

- Please write down about the model information and more on the last page "Setting information", When you install the MAC-557IF-E.

2. Product Introduction

No	Item	Description
1	WPS switch	It activates WPS.
2	RESET switch	It resets the system and ALL settings.
3	LED1 (Green)	It shows the wireless communication state.
4	LED2 (Orange)	It shows the MAC-557IF-E state.
5	LED3 (Green)	It shows the local communication state.



3. Parts

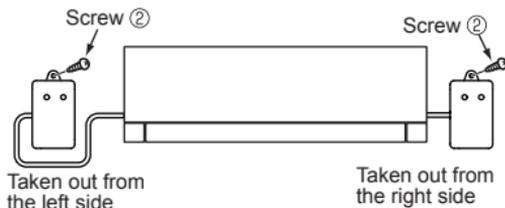
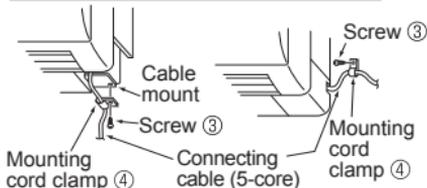
①	Interface unit [with connecting cable (5-core)]		1	④	Mounting cord clamp		1
②	Screw for mounting 3.5×16		1	⑤	Fastener (for bundling the wires)		1
③	Screw for mounting 4×16		1				

4. Connecting the Wi-Fi interface

(For details on each system, see the relevant instruction manual.)

- The connecting cable (5-core) connected to a room air conditioner (CN105) should be mounted at the room air conditioner or its vicinity.
- Cable length outside air conditioner: less than 50cm.

Do not install the Wi-Fi interface inside the indoor unit.



After connecting the Wi-Fi interface to the air conditioner, connect the Wi-Fi interface to the access point (to communicate with the server).

For this Wi-Fi interface, the use of WPS-Push is recommended. (Refer to 6.)

- 1) Hold down the WPS switch on the Wi-Fi interface for about 2 seconds to activate WPS-Push. When WPS-Push on the Wi-Fi interface is ready to communicate with the access point, LED 1 blinks at a 0.5-second interval.
- 2) Activate WPS-Push on the access point.
- 3) When WPS-Push is successfully enabled, LED 1 lights up for 5 seconds. If it failed, LED 2 lights up for 5 seconds, so try again from step 1.

Main Causes that WPS failed are as follows.

Communication distance (from the Wi-Fi interface to access point), access point settings (encryption, authentication, limit of connections, etc.)

Refer to the instruction manual for more information.

5. LED pattern

● : ON ○ : OFF ✨ : Blinking

Description	LED1	LED2	LED3
Power is ON or software downloaded	✨ (0.5-sec interval)	✨ (0.5-sec interval)	✨ (0.5-sec interval)
ALL settings reset	●	●	●
WPS activated (PBC)	✨ (0.5-sec interval)	○	○
WPS activated (PIN)	✨ (0.2-sec interval)	○	○
WPS enabled	● (5-sec)	○	○
WPS failed	○	● (5 sec)	○
Server and access point communication connected, and air conditioner communication failed	✨ (once every 5 sec)	✨ (0.5-sec interval)	○
Server and access point communication connected, and air conditioner communication connected	✨ (once every 5 sec)	○	✨ (once every 5 sec)
Server and access point communication connected, and air conditioner communication starting up	✨ (once every 5 sec)	○	●
Server communication failed, and air conditioner communication connected	○	✨ (0.5-sec interval)	✨ (once every 5 sec)
Server communication or access point communication failed, and air conditioner communication starting up	○	✨ (0.5-sec interval)	●
Server communication or access point communication failed, and air conditioner communication failed	○	✨ (0.5-sec interval)	○
Access point communication failed, and air conditioner communication connected	○	○	✨ (once every 5 sec)
Access point communication failed, and air conditioner communication starting up	○	○	●

6. Switch Function

(1) WPS switch

The WPS switch is used for pairing the Wi-Fi interface with the access point. There are two types of WPS: push button configuration (WPS-Push) and PIN code method (WPS-PIN).

● WPS-Push

Hold down the WPS switch for 2 seconds to start WPS-Push pairing.

When WPS-Push is enabled on the Wi-Fi interface, LED1 starts flashing green (0.5-sec interval) and the pairing can be completed by enabling WPS-Push on the access point.

● WPS-PIN

Hold down the WPS switch for 15 seconds to start WPS-PIN pairing.

When WPS-PIN is enabled on the Wi-Fi interface, LED1 starts flashing green (0.2-sec interval) and the pairing can be completed by enabling WPS-PIN on the access point.

Before using WPS-PIN, the PIN code of the Wi-Fi interface needs to be set on the access point.

This product is only compatible with the access point that supports WPS.

(2) RESET switch

● Hold down the RESET switch for 2 seconds to reboot the system.

● Hold down the RESET switch for 15 seconds to initialize the Wi-Fi interface to the factory default.

When the Wi-Fi interface is reset to the factory default, ALL the configuration information will be lost. Take great care in implementing this operation.

7. Specifications

Input Voltage	DC12.7V (from indoor unit)
Power consumption	MAX 2W
Size W×H×D (mm)	88×49×18.5
Weight	105g (including cable)
RF channel	1ch ~ 13ch
Radio protocol	IEEE 802.11b/g/n (20)
Encryption	AES
Authentication	PSK

Setting information

Indoor unit model name	
Indoor unit serial number	
Outdoor unit model name	
Outdoor unit serial number	
MAC-557IF serial number(ID)	
MAC address(MAC)	
PIN code(PIN)	
System commissioning date	
MAC-557IF installation date	

Installer contact details

Name	
Telephone number	

MEMO

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MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS
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Phone: (054) 285-1111 Fax: (054) 287-3132

EC DECLARATION OF CONFORMITY

MITSUBISHI ELECTRIC CORPORATION, SHIZUOKA WORKS
18-1, OSHIKA 3-CHOME, SURUGA-KU, SHIZUOKA-CITY 422-8528, JAPAN

hereby declares under its sole responsibility that the WiFi Interface described below :

MITSUBISHI ELECTRIC, MAC-557IF-E

Note: Its serial number is on the nameplate of the product.

complies with the provisions of the following European Directives and the harmonised standards.:

Directives	Standards
R&TTE Directive 1999/5/EC	
Health and Safety (Art. 3.1(a)):	EN 60335-1:2002 +A11:2004 +A1:2004 +A12:2006 +A2:2006 +A13:2008 +A14:2010 +A15:2011 EN 62311:2008
EMC (Art. 3.1(b)):	EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008 EN 301 489-1 V1.9.2 EN 301 489-17 V2.1.1
Spectrum (Art. 3.2):	EN 300 328 V1.7.1

The company named above will keep the following technical documents for review.

- installation, operation and maintenance instructions
- technical drawings, circuit diagrams, component lists
- description of measures designed to ensure conformity
- other technical documentation, e.g. quality assurance measures for design and production
- test report(s) and certificate/statement provided by Notified Body

This declaration is based upon the conformity assessment by the following Notified Body:

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg, Germany

Certificate registration number:RT60081121 0001

Our authorized representative in EU, who is authorized to compile the technical file, is as follows.:

MITSUBISHI ELECTRIC EUROPE, B.V.

HARMAN HOUSE, 1 GEORGE STREET, UXBRIDGE, MIDDLESEX UB8 1QQ, U.K.

Yoji SAITO

Product Marketing Director



Issued: 29 November, 2012

Shizuoka JAPAN

Toshihiko ENOMOTO

Manager, Quality Assurance Division

This product is designed and intended for use in the residential,
commercial and light-industrial environment.

The product at hand is based on • Low Voltage Directive 2006/95/EC
the following EU regulations: • R & TTE Directive

1999/5/EC

MITSUBISHI ELECTRIC CORPORATION

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AUTHORIZED REPRESENTATIVE IN EU:

MITSUBISHI ELECTRIC EUROPE B.V.

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