



OPERATING MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE FUNCIONAMIENTO
MANUALE DI ISTRUZIONI
ΕΓΧΕΙΡΙΔΙΟ ΛΕΙΤΟΥΡΓΙΑΣ
使用説明書
РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ
MANUAL DE INSTRUÇÕES

OPERATING MANUAL

AIR CONDITIONER

**COMPACT WALL MOUNTED
TYPE**

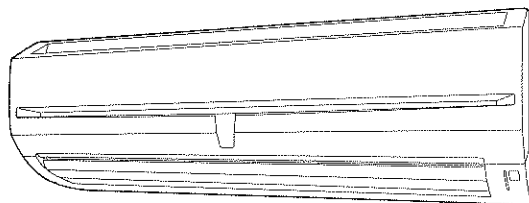
Indoor Unit

AS□7TF

AS□9TF

AS□12TF

AS□14TF



KEEP THIS OPERATION MANUAL
FOR FUTURE REFERENCE

FUJITSU GENERAL LIMITED

P/N9372120019

English

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SAFETY PRECAUTIONS

- Before using the appliance, read these "PRECAUTIONS" thoroughly and operate in the correct way.
- The instructions in this section all relate to safety; be sure to maintain safe operating conditions.
- "DANGER", "WARNING" and "CAUTION" have the following meanings in these instructions:

 DANGER!	This mark indicates procedures which, if improperly performed, are most likely to result in the death of or serious injury to the user or service personnel.
 WARNING!	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
 CAUTION!	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.



DANGER!

- Do not attempt to install this air conditioner by yourself.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving, consult authorized service personnel for disconnection and installation of the unit.
- Do not become over-exposed to cold air by staying in the direct path of the airflow of the air conditioner for extended periods of time.
- Do not insert fingers or objects into the outlet port or intake grilles.
- Do not start and stop air conditioner operation by turning off the electrical breaker or disconnecting the power supply plug and so on.
- Take care not to damage the power supply cord.
- In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker or disconnect the power supply plug, and consult authorized service personnel.



CAUTION!

- Provide occasional ventilation during use.
- Do not direct air flow at fireplaces or heating apparatus.
- Do not climb on, or place objects on, the air conditioner.
- Do not hang objects from the indoor unit.
- Do not set flower vases or water containers on top of air conditioners.
- Do not expose the air conditioner directly to water.
- Do not operate the air conditioner with wet hands.
- Do not pull the power supply cord.
- Turn off power source when not using the unit for extended periods.
- Always turn off the electrical breaker whenever cleaning the air conditioner or the air filter.
- Connection valves become hot during Heating; handle with care.
- Check the condition of the installation stand for damage.
- Do not place animals or plants in the direct path of the air flow.
- When restarting after a long period of disuse in the winter, do:
 - Turn the power switch on at least 12 hours before starting the unit.
- Do not drink the water drained from the air conditioner.
- Do not use in applications involving the storage of foods, plants or animals, precision equipment, or art works.
- Do not apply any heavy pressure to radiator fins.
- Operate only with air filters installed.
- Do not block or cover the intake grille and outlet port.
- Ensure that any electronic equipment is at least one metre away from either the indoor or outdoor units.
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor and outdoor unit, take precautions to prevent access to infants.
- Do not use inflammable gases near the air conditioner.
- Do not operate the air conditioner with the intake grille open or removed.

NAME OF PARTS

Fig. 1

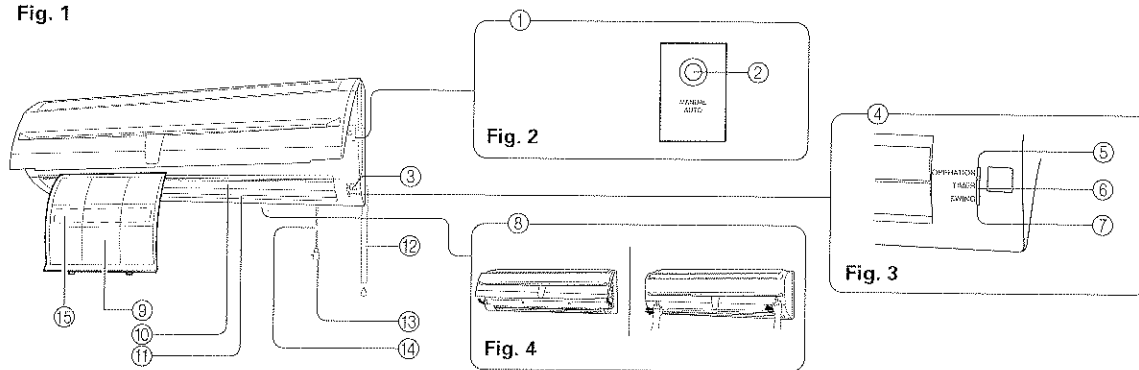


Fig. 1 Indoor Unit

① Operating Control Panel (Fig. 2)

② MANUAL AUTO button

③ Remote Control Signal Receiver

④ Indicator Lamps (Fig. 3)

⑤ OPERATION Indicator Lamp (red)

⑥ TIMER Indicator Lamp (green)

⑦ SWING Indicator Lamp (orange)

⑧ Intake Grille (Fig. 4)

⑨ Air Filter

⑩ Air Flow Direction Louver

⑪ Right-Left Louver
(behind Air Flow Direction Louver)

⑫ Drain Hose

⑬ Power Supply Plug

⑭ Power Supply Cord

⑮ Air Cleaning Filter (optional)

Fig. 5

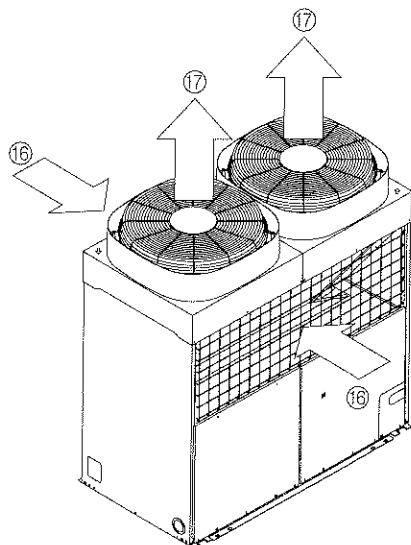


Fig. 5 Outdoor Unit

⑬ Intake Port

⑭ Outlet Port

Electrical Breaker



Fig. 6

This breaker is installed during the electrical installation.

MANUAL AUTO OPERATION

Use the MANUAL AUTO operation in the event the remote control unit is lost or otherwise unavailable.



CAUTION!

Do not press the MANUAL AUTO button with wet hands or pointed objects, otherwise an electric shock or malfunction may occur.

How To Use the Main Unit Controls

Press the MANUAL AUTO button on the main unit control panel.

To stop operation, press the MANUAL AUTO button once again.

- When the air conditioner is operated with the controls on the Main unit, it will operate under the same mode as the AUTO mode selected on the remote control unit.

However, the Heat pump model will follow the operating mode of the other indoor unit.

- The fan speed selected will be "AUTO" and the thermostat setting will be 23 °C.

CLEANING AND CARE



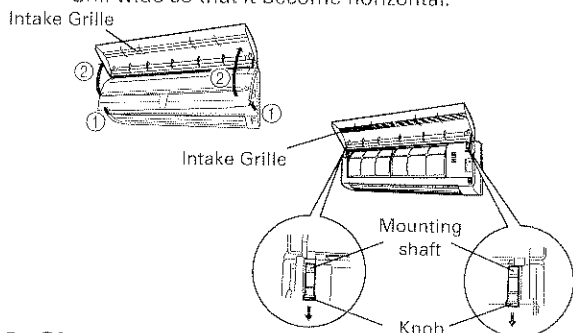
CAUTION!

- Before cleaning the unit, be sure to stop the unit and disconnect the power supply.
- Turn off the electrical breaker.
- Be sure the intake grille is installed securely.
- When removing and replacing the air filters, be sure not to touch the heat exchanger, as personal injury may result.

Cleaning the Intake Grille

1. Remove the Intake Grille.

- ① Place your fingers at both lower ends of the grille panel, and lift forward; if the grille seems to catch partway through its movement, continue lifting upward to remove.
- ② Pull past the intermediate catch and open the Intake Grille wide so that it become horizontal.

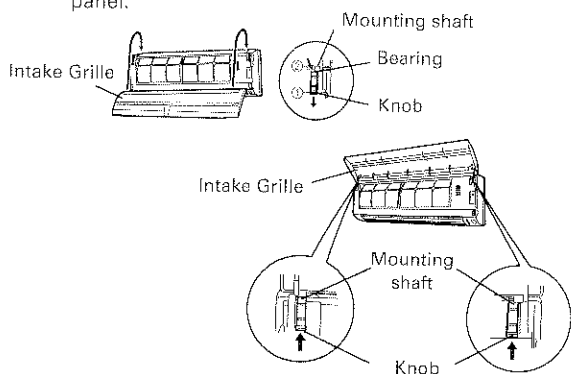


2. Clean with water.

Remove dust with a vacuum cleaner; wipe the unit with warm water, then dry with a clean, soft cloth.

3. Replace the Intake Grille.

- ① Pull the knobs all the way.
- ② Hold the grille horizontal and set the left and right mounting shafts into the bearings at the top of the panel.

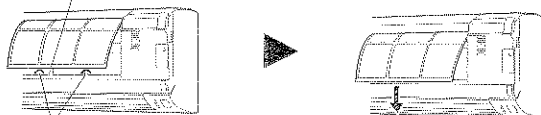


Cleaning the Air Filter

1. Open the Intake Grille, and remove the air filter.

Lift up the air filter's handle, disconnect the two lower tabs, and pull out.

Air filter handle



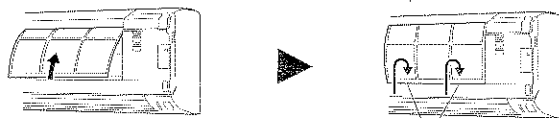
Hooks (two places)

2. Remove dust with a vacuum cleaner or by washing.

After washing, allow to dry thoroughly in a shaded place.

3. Replace the Air Filter and close the Intake Grille.

- ① Align the sides of the Air Filter with the panel, and push in fully, making sure the two lower tabs are returned properly to their holes in the panel.



- ② Close the Intake Grille.

Hooks (two places)

(For purposes of example, the illustration shows the unit without Intake Grille installed.)

- Dust can be cleaned from the Air Filter either with a vacuum cleaner, or by washing the filter in a solution of mild detergent and warm water. If you wash the filter, be sure to allow it to dry thoroughly in a shady place before reinstalling.
- If dirt is allowed to accumulate on the Air Filter, air flow will be reduced, lowering operating efficiency and increasing noise.
- During periods of normal use, the Air Filters should be cleaned every two weeks.

When using the optional Air Cleaning Filter

- Install the optional air cleaning filter set as instructed (installation instructions are furnished with the air cleaning filter set).
- When used for extended periods, the unit may accumulate dirt inside, reducing its performance. We recommend that the unit be inspected regularly, in addition to your own cleaning and care. For more information, consult authorized service personnel.
- When cleaning the unit's body, do not use water hotter than 40 °C, harsh abrasive cleansers, or volatile agents like benzene or thinner.
- Do not expose the unit body to liquid insecticides or hairsprays.
- When shutting down the unit for one month or more, first allow the fan mode to operate continuously for about one-half day to allow internal parts to dry thoroughly.

TROUBLESHOOTING

Instructions relating to heating (*) are applicable to "HEAT PUMP MODEL" and "HEAT RECOVERY MODEL".



WARNING!

In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel.

Merely turning off the unit's power switch will not completely disconnect the unit from the power source. Always be sure to turn off the electrical breaker to ensure that power is completely off.

Before requesting service, perform the following checks:

	Symptom	Problem	See Page
NORMAL FUNCTION	Doesn't operate immediately:	<ul style="list-style-type: none"> ● If the unit is stopped and then immediately started again, the compressor will not operate for about 3 minutes, in order to prevent fuse blowouts. ● Whenever the electrical breaker is turned off then on again, the protection circuit will operate for about 3 minutes, preventing unit operation during that period. 	—
	Noise is heard:	<ul style="list-style-type: none"> ● During operation and immediately after stopping the unit, the sound of water flowing in the air conditioner's piping may be heard. Also, noise may be particularly noticeable for about 2 to 3 minutes after starting operation (sound of coolant flowing). ● During operation, a slight squeaking sound may be heard. This is the result of minute expansion and contraction of the front cover due to temperature changes. 	—
		*● During Heating operation, a sizzling sound may be heard occasional. This sound is produced by the Automatic Defrosting operation.	6
	Smells:	● Some smell may be emitted from the indoor unit. This smell is the result of room smells (furniture, tobacco, etc.) which have been taken into the air conditioner.	—
	Mist or steam are emitted:	● During Cooling or Dry operation, a thin mist may be seen emitted from the indoor unit. This results from the sudden Cooling of room air by the air emitted from the air conditioner, resulting in condensation and misting.	—
		*● During Heating operation, the outdoor unit's fan may stop, and steam may be seen rising from the unit. This is due to Automatic Defrosting operation.	6
	Airflow is weak or stops:	*● When Heating operation is started, indoor unit's fan may temporarily stop, to allow internal parts to warm up.	—
		*● During Heating operation, if the room temperature rises above the thermostat setting, the outdoor unit will stop, and the indoor unit's fan will stop. If you wish to warm the room further, set the thermostat for a higher setting.	
		*● During Heating operation, the unit will temporarily stop operation (between 2 and 16 minutes) as the Automatic Defrosting mode operates. During Automatic Defrosting operation, the OPERATION indicator lamp will flash.	6
		● The fan may operate at low speed during Dry operation or when the unit is monitoring the room's temperature.	—
		● In the monitor AUTO operation, the fan will operate at low speed.	—
	Water is produced from the outdoor unit:	*● During Heating operation, water may be produced from the outdoor unit due to Automatic Defrosting operation.	6

TROUBLESHOOTING

Instructions relating to heating (*) are applicable to "HEAT PUMP MODEL" and "HEAT RECOVERY MODEL".

	Symptom	Items to check	See Page
CHECK ONCE MORE	Doesn't operate at all:	<ul style="list-style-type: none">● Has there been a power failure?● Has a fuse blown out, or a circuit breaker been tripped?● Is the main power switch set to the OFF position?	—
	Poor Cooling (or *Heating) performance:	<ul style="list-style-type: none">● Is the timer operating?● Is the air filter dirty?● Are the air conditioner's intake grille or outlet port blocked?● Did you adjust the room temperature settings (thermostat) correctly?● Is there a window or door open?● In the case of Cooling operation, is a window allowing bright sunlight to enter? (Close the curtains.)● In the case of Cooling operation, are there heating apparatus and computers inside the room, or are there too many people in the room?	—

If the problem persists after performing these checks, or if you notice burning smells, stop operation immediately, turn off the electrical breaker, and consult with authorized service personnel.

OPERATING TIPS

Instructions relating to heating (*) are applicable to "HEAT PUMP MODEL" and "HEAT RECOVERY MODEL".

Operation and Performance

*Heating Performance

- This air conditioner operates on the heat-pump principle, absorbing heat from outdoor air and transferring that heat indoors. As a result, the operating performance is reduced as outdoor air temperature drops. If you feel that insufficient heating performance is being produced, we recommend you use this air conditioner in conjunction with another kind of heating appliance.
- Heat-pump air conditioners heat your entire room by recirculating air throughout the room, with the result that some time may be required after first starting the air conditioner until the room is heated.

*Microcomputer-controlled Automatic Defrosting

When using the Heating mode under conditions of low outdoor air temperature high humidity, frost may form on the outdoor unit, resulting in reduced operating performance. In order to prevent this kind of reduced performance, this unit is equipped with a Microcomputer-controlled Automatic Defrosting function. If frost forms, the air conditioner will temporarily stop, and the defrosting circuit will operate briefly (for about 2 to 16 minutes). During Automatic Defrosting operation, the OPERATION indicator lamp (red) will flash.

Cooling/Heating Priority (HEAT PUMP MODEL only)

- If another indoor unit in the same refrigerant system is already operating in the cooling mode or dry mode, heating mode settings cannot be performed. (Operation in the cooling or dry mode will continue.)
- If another indoor unit in the same refrigerant system is already operating in the heating mode, cooling mode or dry mode settings cannot be performed. (Operation in the heating mode will continue.)

Oil Recovery Operation

Periodically, the oil recovery operation is performed in order to return compressor oil to the outdoor unit. Operation is stopped during this oil recovery operation. During oil recovery operation, the OPERATION indicator lamp (red) will flash.

Low Ambient Cooling

When the outdoor temperature drops, the outdoor unit's fans may switch to Low Speed, or one of the fans may stop intermittently.

OPERATING TIPS

Instructions relating to heating (*) are applicable to "HEAT PUMP MODEL" and "HEAT RECOVERY MODEL".

Temperature and Humidity Range

			Cooling/Dry Mode	*Heating Mode
		Refrigerant		
Outdoor temperature	COOLING ONLY MODEL	R22	About 21 to 52 °C	—
		R407C	About -15 to 52 °C	
	HEAT PUMP MODEL HEAT RECOVERY MODEL	R22	About -15 to 52 °C	About -15 to 21 °C
		R407C		
Indoor temperature			About 18 to 32 °C	About 30 °C or less
Indoor humidity			About 80 % or less If the unit is used for long periods under high-humidity conditions, condensation may form on the surface of the indoor unit, and drip onto the floor or other objects underneath.	—

- If the air conditioner is used under higher temperature conditioner than those listed, the built-in protection circuit may operate to prevent internal circuit damage. Also, during Cooling and Dry modes, if the unit is used under conditions of lower temperature than those listed above, the heat-exchanger may freeze, leading to water leakage and other damage.
- Do not use this unit for any purposes other than the Cooling, *Heating, Dehumidifying, and air-circulation of rooms in ordinary dwellings.

SPECIFICATIONS

MODEL		AS□7TF	AS□9TF	AS□12TF	AS□14TF
POWER		220-240 V~50 Hz			
COOLING CAPACITY	[kW]	2.15	2.80	3.50	3.80
HEATING CAPACITY	[kW]	2.45	3.10	4.10	4.50
DIMENSIONS & WEIGHT					
HEIGHT	[mm]	257			
WIDTH	[mm]	808			
DEPTH	[mm]	187			
WEIGHT	[kg]	8.0			

- Acoustic Noise Information : The maximum sound pressure level is less than 70 dB (A) for both indoor unit and outdoor unit.
According to IEC 704-1 and ISO 3744.