

Commercial Portable Air Conditioner

Cooling & Heating

FUJ-17.5P - FUJ-25P

INSTRUCTION MANUAL



Fujin Air Conditioning

Please read this manual to the end before commencing operation. Please also store this instruction manual in a place where it can be used by anyone who needs it at all times.

△ Note:

Do not use the unit in places with gases or vapor containing hydrochloric acid, sulfuric acid, or any other corrosive substances.


1 For your safety!




Please do not operate the unit before carefully reading and understanding the content of this section. The items treated in this section are to ensure safe use of the unit and to prevent harm or injury to you and others. Further, to clarify the severity of the harm and injuries that can result from incorrect use, the items in this section are divided into two categories; Warnings and Caution. However, since the actions explained under caution also sometimes can cause severe harm, please follow all instructions in this section carefully regardless of category.

Warning: Incorrect use can cause death or severe injury.

● General caution

 Caution	
<p>Do not use the unit in any other way than is described in this manual.</p> <p>**Incorrect use can cause electric shock, short circuit, water leakage and other accidents.</p>	<p>Take care for use on ships or in vehicles.</p> <p>**Use on ships or in vehicles can result in water leakage and a short circuit.</p>

● Carrying / Moving the unit

 Caution	
<p>When carrying or moving the unit in any way, please keep it balanced and adapt your movement to the shape and weight of the unit at all time.</p> <p>**If the unit is dropped, there is a risk of injury and other accidents.</p>	<p>When packing the unit into and out of a vehicle, be sure to use two or more people to ensure safe operation.</p> <p>**If the unit is dropped, there is risk of physical injury and damage to the unit.</p>

● Testing and operating the unit

Warning

<p>Do not put wet hands on the plug, the switch or the electric wires. **This can cause electric shock and injury.</p>	<p>Do not expose to water or oil. **Water or oil can cause a short circuit, electric shock and other accidents.</p>
<p>Earth the unit securely, and use an earth leakage breaker (bought separately) at all times. **If the unit is broken or has a short circuit, there is risk of electric shock.</p>	<p>Use a 10A or 15 A rated electrical outlet. Do not plug in any other electrical appliance in the same outlet. **If other appliances are connected in the same outlet at the same time, the outlet can overheat and catch fire.</p>

Warning

<p>Please do not use the unit close to kerosene, gasoline, thinners, ether, paints or other flammable or explosive objects. **This can result in fire or explosion.</p>	<p>Do not use the unit close to dust, gas or steam containing aluminum, magnesium, titanium or other flammable substances. **This can result in fire or explosion.</p>
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Caution

<p>If the unit is not working properly, pull the plug immediately and turn it in for service or repair. **There is risk of electric shock or fire caused by a short circuit.</p>	<p>Do not expose your body to the cold air from the unit for an extended period of time. **Prolonged exposure can harm your health. Use the swivel function, or direct the duct so it does not point directly at you.</p>
<p>Do not use the unit if vibrating or shaking or, on slanting surfaces. **The unit can unexpectedly move or fall, causing accidents and injuries. **Place the unit on a stable level surface.</p>	<p>Do not use the unit in places where it is exposed to water. **Contact with water can damage the insulation and cause electric shock, short circuit, fire and other accident and injuries.</p>
<p>Do not use in places with electrically conductive dust from Iron, carbon, casting, aluminum etc. **Electric shock or fire caused by a short circuit can occur.</p>	<p>If you use the unit in a very dusty environment, make sure to clean the interior of the unit regularly. **Electric shock or fire caused by a short circuit can occur.</p>
<p>Keep away from fire. **The unit can become deformed, causing short circuit and possibly fire.</p>	<p>Do not put hands or fingers into the exhaust hole. **There is risk of injury.</p>
<p>Do not use the unit if the cord or plug is damaged, or if the plug is loose in the socket. **Electric shock or fire caused by a short circuit can occur.</p>	<p>If you use an extension cord, make sure to use one that meets the specified requirements. **There is risk of the cord overheating and catching fire.</p>

<p>Do not let the plug get dirty or get exposed to metal objects while plugged. **There is risk of electric shock, short circuit and fire.</p>	<p>Do not put heavy objects onto the electric cord. **If the cord gets damaged, there is risk of electric shock and fire.</p>
<p>Do not use the extension cord while it is coiled or bundled together. **There is risk of the cord overheating and catching fire. **Make sure that the extension cord is extended before use.</p>	<p>Do not use the unit in other than the stated operation conditions. **Since there is risk of electric shock, short circuit and malfunction, please use the unit within the suitable range.</p>
<p>Do not damage, process, nor bend, pull, twist or bundle the cord excessively. **If the cord gets damaged, there is risk of electric shock or fire.</p>	<p>Use where electrical supply is within the allowed range:198V - 244V, 50 HZ. **There is risk of electric shock and short circuit.</p>
<p>Remove the plug from the electric outlet when the unit is not in use. **There is risk of burning and other injuries, electric shock, fire caused by short circuit etc.</p>	<p>Do not use the unit in places with a lot of cutting oil or mineral oil. **They can cause the resin made parts of the unit to deteriorate, which can result in accidents and injuries.</p>
<p>When you unplug the plug, be sure not to pull it by the cord, but to pull it out holding the plug directly. **There is risk of electric shock, short circuit and fire.</p>	<p>Lock the caster wheels with the caster stoppers before starting to operate the unit. **The unit can start to move unexpectedly and cause accidents and injuries.</p>
<p>Do not use the unit in a place with dust that is harmful to the human body. **If harmful dust sticks to the unit, there is risk of harmful dust dispersal when the unit is in operation.</p>	

 **Caution**

Make sure that the unit is unplugged when in storage.
****There is risk of injury and electric shock.**

● Maintenance

 **Caution**

Disassemble, repair and reassemble is not to reattempted anyone other than an authorized repairer or refrigeration technician.
****Inadequate or poor handling can result in fire, malfunction and injuries.**

All maintenance must be conducted while the unit is unplugged.
****There is risk of electric shock and physical injuries.**

2 Product specifications

Model number	FUJ-17.5P	FUJ-25P
Voltage	AC380-415V/50HZ/3P	AC380-415V/50HZ/3P
Cooling/Heating capacity	17.5KW	25KW
Air volume	3000m ³ /h	4200m ³ /h
Power consumption	8KW(Cooling) 7.5KW(Heating)	12KW(Cooling) 11.2KW(Heating)
Current consumption	12A(Cooling) 11.4A(Heating)	18.3A(Cooling) 17A(Heating)
Noise	60-70db	60-70db
Dimensions	1560*960*1150mm	1560*960*1150mm
Weight	220KG	250KG
Working temperature	2-45°C	2-45°C
Refrigerant	R410A – 4.5 KG	R410A -5.5 KG
Remarks	Above refrigerating capacity, power consumption, current operation on the basis of working temperature 40°C test values.	

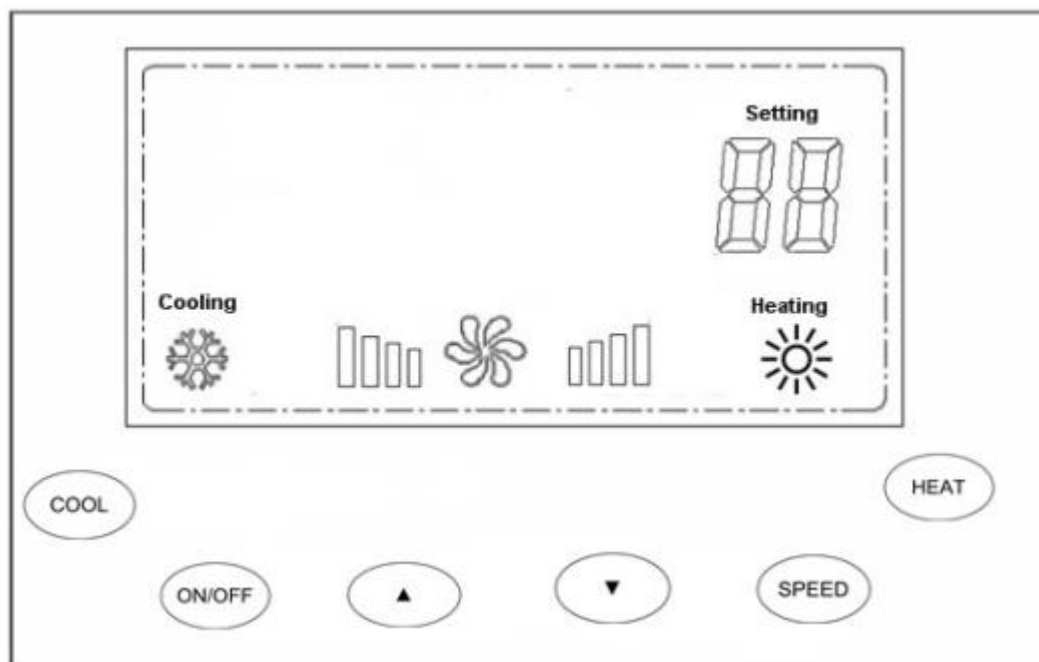
3 Parts




The exterior

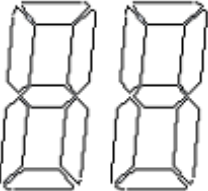




The Control Panel



Display Icon	Display shows
Cooling Icon 	<ol style="list-style-type: none"> 1. Press the cooling button and compressor will run. This icon will be shown when the compressor stops and it will flash. 2. When turned off, it will not show the symbol.
Heating Icon 	<ol style="list-style-type: none"> 1. Press the heating button and compressor will run. This icon will be shown. When compressor stops it will flash. 2. When turned off, it will not show the symbol.
Wind Speed Icon 	<ol style="list-style-type: none"> 1. Switch On: High fan displays fast, low fan displays slow. 2. Switch Off: Fixed display.
Digital Icon	<ol style="list-style-type: none"> 1. Normal situation: Displays room current temperature. 2. Setting temperature: Display flashing setting temperature

	<p>value.</p> <p>3. Water full: Display "FU"</p> <p>4. Failure: Display failure codes every 30 second rotation.</p>
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Operation panel and instructions:

Button	Instruction for the buttons
1. Single button instruction:	
ON/OFF	Turn on or turn off machine
SPEED	Adjust speed to high or low
HEAT	Press this button and the machine will go into heating function
COOL	Press this button and the machine will go into cooling function
▲	Increase temperature
▼	Decrease temperature
2. Combined button instruction	
▼+SPEED	Display current ambient temperature(Press these 2 buttons for 3 seconds at same time)
▲+SPEED	Display coil temperature (Press these 2 buttons for 3 seconds at same time)

Function Description:

1. Temperature control:

When the machine reaches the set temperature, it will stop working automatically;

2. Protection function:

(1) Compressor once stopped, will require 3 minutes to re-start

3. About Defrosting:

(1) Auto-defrosting: when the inside temperature sensor detect the temperature of the coil is $-1/0$ degree for at least half an hour, then the compressor will stop working automatically, but the fan still working, so it starts defrosting through the fan for about 15 minutes.

(2)Manual defrosting: Turn on the machine, press button SPEED for 10 seconds, it appears P1(indicates the running time of the compressor)→press ▲ / ▼ to adjust the compressor running time(Range 20-60minutes)→SPEED→P2(indicates time of defrosting)→press ▲ / ▼ to adjust the defrosting time(Range 1-8minutes)→Exit.

4. Additional function:

(1) Power failure memory function: The setting temperature, fan speed and running time will be recovered after restoring power.

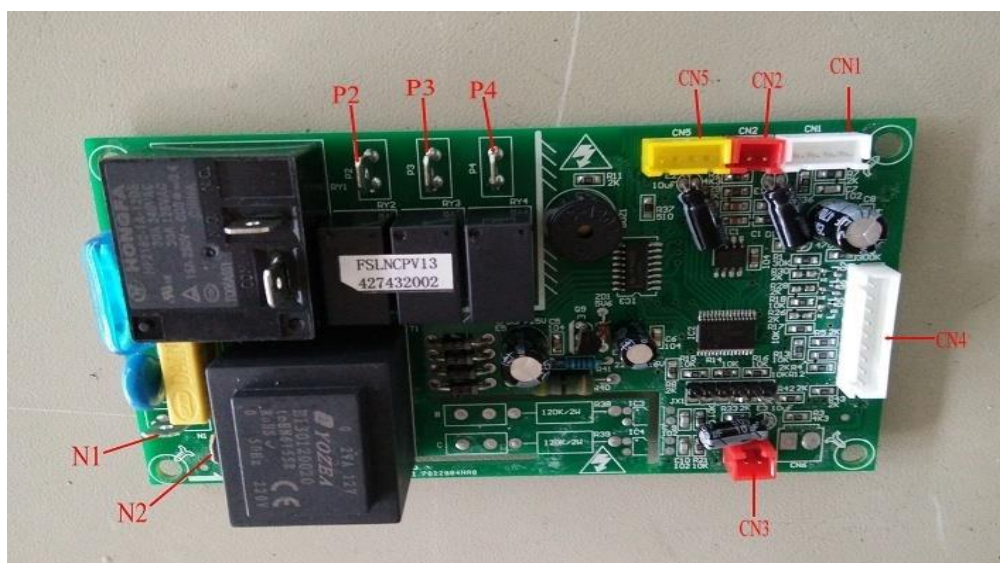
(2) Self-diagnosis function

Fault code table:

Fault code	Fault reason	Related content
E1	Evaporator and condenser sensor fault	Need to replace the sensor
E3	Room temperature sensor fault	Instruct working environment temperature is too high, can be restored.
E4	system fault	After 20 minutes, if the compressor is not detected temperature dropping, need to check the compressor and refrigerant gas.

Controller, terminal, temperature sensor:

1.Terminal instructions:



Marking	Specification Model	Introduction
N1,N2	T6.3 Single insert	The AC power zero input/output end.

Relay COM	T6.3 Single insert	The ac power fire line input
Relay N.0	T6.3 Single insert	The compressor output interface
P4	T6.3 Single insert	Four-way valve output interface
P3	T6.3 Single insert	High speed fan output interface
P2	T6.3 Single insert	Low speed fan output interface
CN1	B4B-XH White slot	The temperature sensor input interface
CN2	Red slot	Detection systems sensor input interface
CN3	Red slot	Defrost detection sensor input interface
CN4	B9B-XH White slot	From the mainboard to display panel interface.
CN5	Yellow slot	Water level sensor input interface

Electrical wiring diagram

