

# Instruction Manual



**FY-2HF**

This equipment is approved by the following car manufacturers (China)



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## 1. Precaution

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1. Read this manual carefully before installing or servicing this equipment.
2. This equipment is designed for paint drying applications. Adjust to the correct temperature and check minimum safe distance from the heat source when using. Improper servicing can cause paint surface damage.
3. Installation and servicing must be performed by a qualified installer or service agency.
4. The system has been designed for easy installation, low operating costs and minimal maintenance. The warranty does not cover lamp tube defects resulting from misuse or improper operation.
5. Disconnect from the power supply when the equipment is not in use for a long time.
6. The lamp tube should not be perpendicular to the ground when the equipment is in operation. Otherwise, it will shorten the life of the lamp tube.

## 2. Specifications

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Model	FY-2HF
Input power source	Single Phase 220V 50/60Hz
Input power (W)	2 × 1000
Curing Area (mm)	1200 × 1000
Temperature (°C)	35 - 80
Time Setting	0 - 60mins adjustable
Light Intensity (%)	10% - 100%

### 3. Installation

The shortwave infrared curing lamp is divided into 3 parts (a base, a frame and a cassette)

1) Installation of the base:

- a. Open the packing of the base.
- b. Install the four wheels on the base and tighten up the screws.

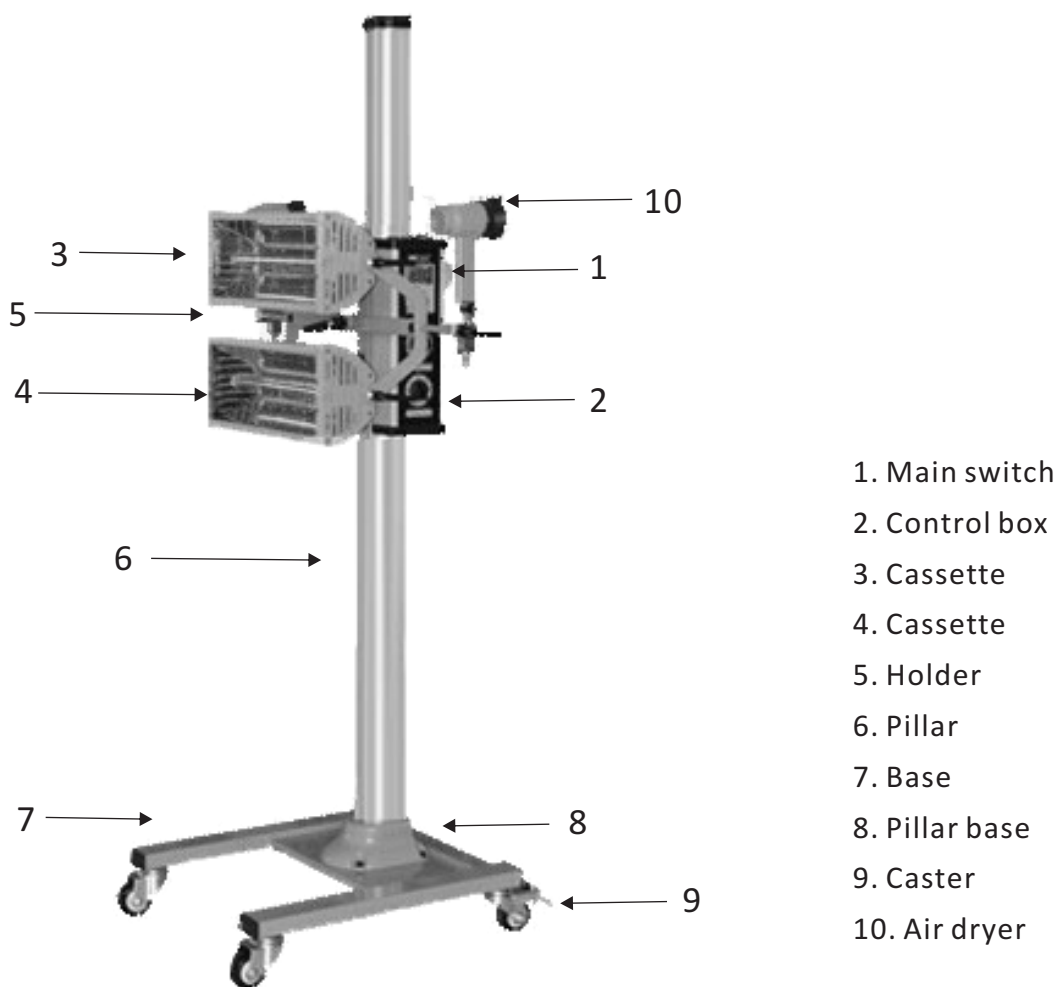
Usually, the wheels with brakes are mounted on the rear of the base.

2) Installation of the frame:

- a. Open the packing of the frame.
- b. Put the column onto the top of the base, line up the screw holes and tighten up with screws.

3) Installation of the cassette:

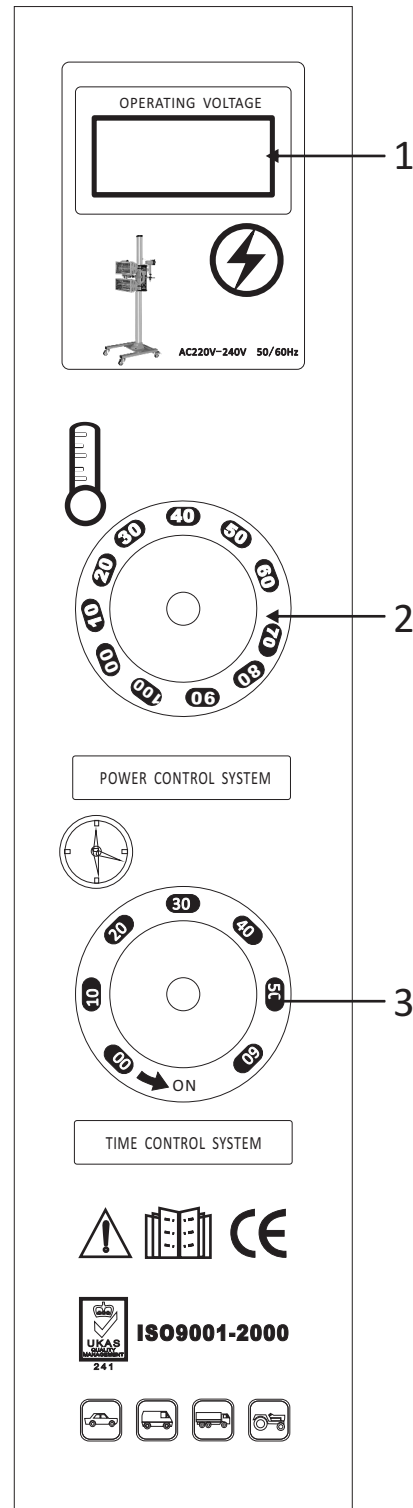
- a. Open the packaging of cassette with care.
- b. Connect cassette with holder and tighten up by screws.
- c. Connect control wires and adjust the angle of the lamps.



Circuit breaker must be installed

## 4. Controls

1. Operating Voltage
2. Power Adjustment
3. Time Adjustment

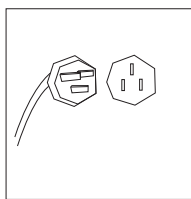


## 5. Operation

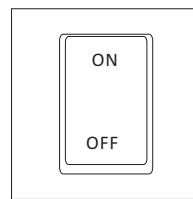
1. Connection of electrical supply. Make sure that the supply cable is at least 4mm<sup>2</sup> at 220V.  
Note: Make sure that the facility supply voltage and frequency are the same as shown on the equipment name plate.
2. Connect to AC 220V power supply. Switch on the equipment. The LED display will show the normal voltage as 220V.
3. Set time and power according to the requirements of the paint material to achieve the best curing result. (Usually, the values are set to 15mins and 70% in power.)
4. Adjust the distance from the heat source to paint surface. (Usually, keeping the distance of 45cm from the paint surface is best.)
5. Protect the lamp against shocks and vibrations especially when it is cold.
6. During the curing process, the paint surface must be clean, without water and impurities.
7. Preferably do not touch the quartz with bare hands. If grease or chemical compounds have been deposited on the quartz, simply clean with a cloth moistened with alcohol.



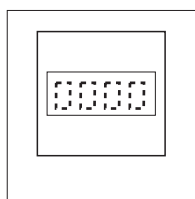
Install machine



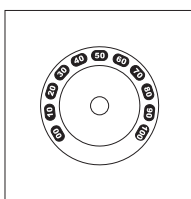
Connect input power



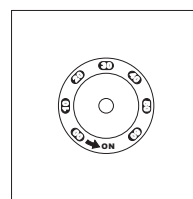
Switch on



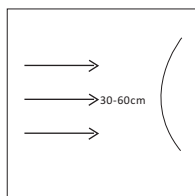
Data displayed on screen



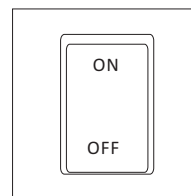
Set up temperature



Set up time



Keep heat source parallel to paint surface at a distance of 30-60cm



Switch off

## 6. Troubleshooting

### 1. Troubleshooting

PROBLEM	CAUSE	SOLUTION
Lamp tube does not work	1) Lamp tube damaged 2) Lamp tube not plugged in 3) Control silicon damaged	1) Check lamp tube 2) Check connections 3) Check control silicon
Lamp tube does not turn off	1) Control silicon damaged	1) Check control silicon
Digital display is blank or is incomplete	1) Unplugged flat wire in circuit board 2) Digital display is damaged	1) Check flat wire 2) Check digital display
Time and temperature cannot be adjusted	1) Potentiometer damaged 2) Timer damaged	1) Check whether the potentiometer is in proper working condition 2) Check whether the timer is in proper working condition



## 6. Troubleshooting

### 2. Lamp Tube Replacement



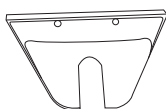
(1)

1) Prepare cassette for replacement



(2)

2) Remove the grille of cassette



(3)

3) Remove the plates from both ends of the cassette



(4)

4) Remove the fixed plates from both ends of the cassette



(5)

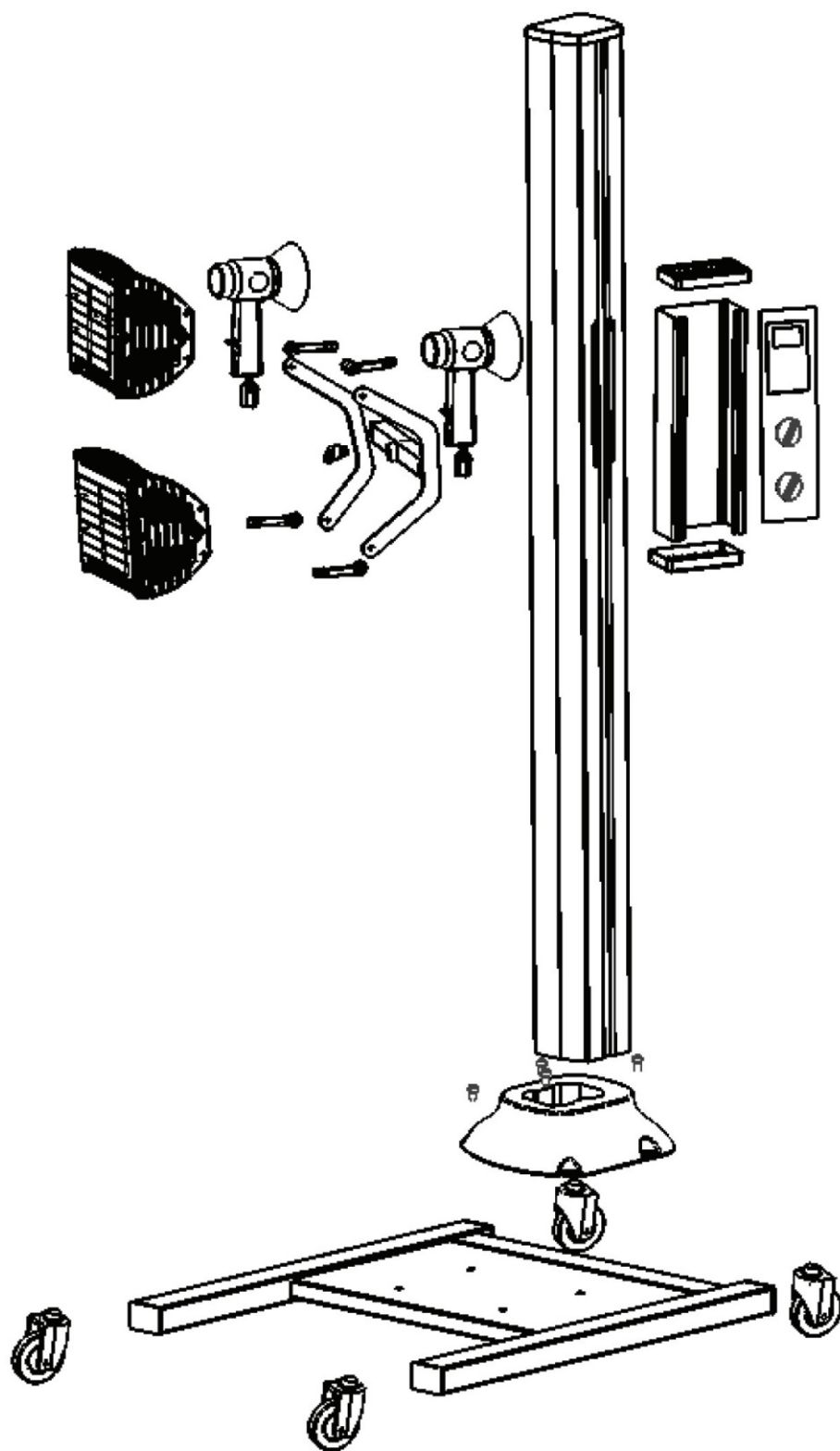
5) Loosen fixed screws and cut off connections, the lamp can be replaced



(6)

6) Repeat the steps above in reverse order to replace the lamp

## 7. Exploded View



## 8. Circuit Diagram

