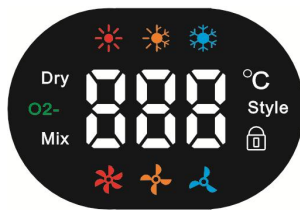


Air Shaping Machine Program Instruction Manual

一、Hardware configuration description of all electronic components:

1. The entire machine uses a single 5-color digital tube to display the status of each function, as shown in the image below:



It uses a TM1652 driver chip.

2. The machine has two heating systems. (One is a hot air system with a PTC heating element (iron-chromium alloy wire, 220V~50Hz 550W). The other is two sets of aluminum alloy heating plates with a PTC heating element (stable power approximately 220~50Hz 60W). Both use bidirectional SCRs as temperature control actuators.)

3. The hot air heating system has three preset fixed temperature levels:

cold air (0% heating power) , warm air (50% heating power) , and hot air (100% heating power) .

4. The two sets of aluminum alloy heating plates are equipped with NTC (200K B=4260) temperature sensors to monitor the heating plate temperature in real time. (The preset heating plate temperature levels are 150°C, 170°C, 190°C, 210°C, and 230°C, a total of 5 levels.) The corresponding display is shown as the middle number on the digital

tube and the temperature unit symbol ;

5. The hot air heating system uses a 90,000 rpm high-speed brushless motor as the air supply device. Three fan speeds can be preset:

low , medium , and high .

6. The unit has four touch buttons (temperature adjustment, fan speed adjustment, mode, and power on/off).

7. The temperature adjustment button serves as the preset temperature setting for the aluminum alloy ironing plate and the hot air system, as well as the keypad lock unlock function in different modes.

8. The mode button can preset three usage modes: styling (hot air system working) , wet hair (hot air system + aluminum alloy ironing plate working together) , and dry hair (aluminum alloy ironing plate system only working) .

9. A standard negative ion generator is included. Characters are displayed .

10. A keypad lock function is provided to prevent accidental touches. The lock activates after 10 seconds of inactivity following each power-on, displaying characters . To unlock, press the temperature adjustment button twice in quick succession;

11. The entire unit is equipped with a Hall sensor to detect whether the

upper and lower aluminum alloy heating plates on the body are open or closed;

12. Equipped with dual overheat protection function.

二、Procedural Requirements;

1.After powering on, the middle three digits will display the OFF character to indicate that the device is in standby mode. Press and hold the power on/off button for ≥ 1 second to power on. After powering on, all characters will remain lit for 0.5 seconds (at which time other systems will not work), and then the device will return to the last preset state before powering off. Pressing any function button at this time will preset the corresponding gear or mode ; After each power-on, the device will lock and display characters after 15 seconds of inactivity . Once locked, all buttons are inoperable. To unlock, press and hold the temperature adjustment button for at least 2 seconds. (The last sentence appears to be a repetition of the previous one and can be omitted.)Press the power button for ≥ 1 second to power off and return to standby mode;

2.Power on and unlocked:

A. When the mode button is pressed to preset the Dry mode, only the hot air system is working. The temperature adjustment button corresponds to the preset hot air level, and the center numerals display 1, 2, and 3 in sequence. The fan speed button can preset the corresponding

fan speed level.

B. In the preset MIX wet hair mode, the hot air system and aluminum alloy ironing plate work together. The temperature adjustment button corresponds to the preset hot air level, and the central digital display shows the temperature level of the aluminum alloy ironing plate when the hair was last turned off, automatically maintaining a constant temperature. (If the actual temperature is lower than the set temperature level, the digital display flashes at 0.5-second intervals; once the set temperature level is reached, it remains fixed.) The fan speed button can be used to preset the corresponding fan speed level.

C. In the preset Style hair drying mode, only the aluminum alloy ironing plate system is working. The hot air heating system and the blower motor are both stopped. At this time, the temperature adjustment key corresponds to the preset aluminum alloy ironing plate working level (150-230 °C) and automatically maintains a constant temperature. Similarly, when the actual temperature is lower than the set temperature level, the digital display will flash at 0.5-second intervals, and will remain fixed after reaching the set temperature level.

3. Automatic shutdown protection in case of short circuit or open circuit in the NTC circuit, or fan motor failure due to various factors; the central digital display shows "E1" flashing continuously to indicate an abnormality.

4. Negative ion function is activated upon power-on.

5. Equipped with protection functions against motor overcurrent, phase loss, stall, and abnormal start-up, meeting product safety regulations and passing electromagnetic compatibility and other safety standard tests.

Zhejiang Fengrui Electric Appliance Co., Ltd.

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