
TO : ALL RELEVANT STAKEHOLDERS
FROM : PLANT ENGINEER-ASST. SUPERVISOR
SUBJECT : DESIGN CHANGE NOTICE FOR KAC-36TCRM , KAC-48TCRM
DATE : November 28, 2025
REF. NO. : ENG-000-25-11-009
CC : QC PLANT, PRODUCTION, PCO, SVC

Design Change Notice (DCN)

Implemented Changes in KT-2509FM-01

Product: **Air-Curtain**

Model: **KAC-36TCRM / KAC-48TCRM**

1. Summary of Changes

The updated unit features new external and internal improvements. Externally, it now includes an **Air Curtain** print on the front panel along with an enhanced POP sticker showing key functions. Internally, the main PCB and power supply have been upgraded the door sensor previously connected to the PCB has been relocated to the display board, and the transformer now comes with a protective cover. The display and control board has also been redesigned to include a dedicated door sensor connector, relocate the IC to the back side, add both red and green LED indicators instead of only red, and change the connector terminals from 5wire silicon type to a 4wire clip type. These changes improve functionality, safety, and compatibility of the updated unit.

2. Reason for Change

The updates are being made to address the following:

- **Door sensor relocation:** Moving the door sensor from the main PCB to the display board simplifies wiring, reduces error risk, and improves sensor accuracy.
- **Transformer cover added:** The transformer now has a cover to enhance electrical safety, protect the component from dust or moisture, and increase product durability.
- **Green LED indicator:** To provide clearer status monitoring and improve user visibility.

3. Impact Analysis

- **Packaging** – Clearer external markings reduces the chances of mislabeling.
- **Operations** - Updated boards and indicators help technicians troubleshoot units more efficiently, speeding up movement through repair or inspection stations.
- **Logistics** - Potential cost savings and enhanced efficiency in packaging and shipping processes.
- **Environment** - Improved safety features

Implementation

- These changes have been implemented by the supplier verified by QC Dept. upon incoming P.O. NO. KT-2509FM-01 incoming date November 28, 2025. With the total of 1,393 units

5. Attachment

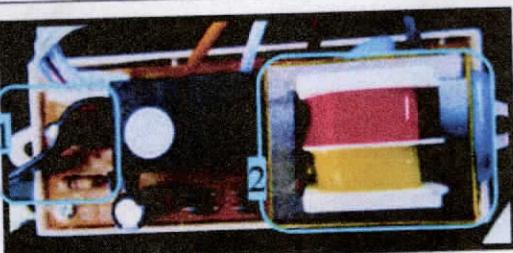
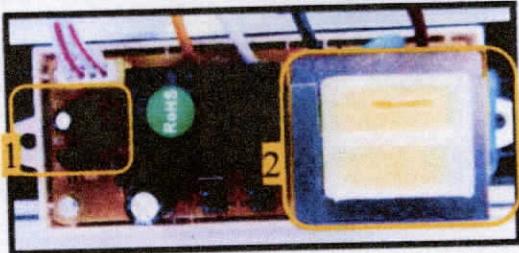
A. EXTERNAL PARTS

1. EXTERNAL PARTS:

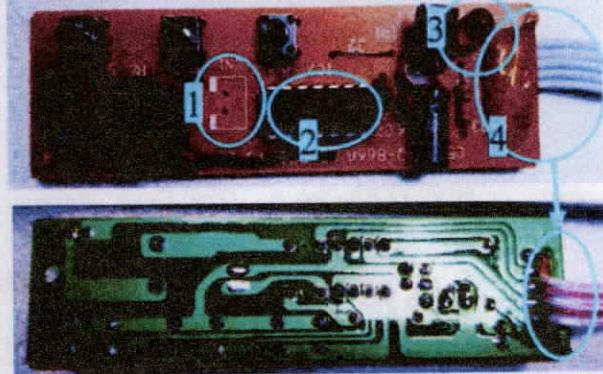
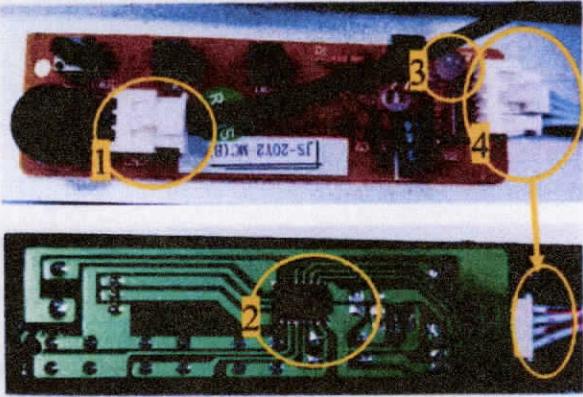


With AIR CURTAIN printed and with POP sticker on front panel

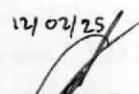
B. INTERNAL PARTS:

PREVIOUS MAIN PCB/ POWER SUPPLY	NEW MAIN PCB/ POWER SUPPLY
 <p>NY-866-FRZ 220V / 6.3A</p> <p>1. The DOOR sensor was connected 2. The transformer has no cover</p>	 <p>DY-2J (10) B220-W0(Y) B3 220-240V / 10A</p> <p>1. Removed the DOOR sensor and transfer to display board 2. The transformer has cover</p>

DISPLAY & CONTROL BOARD

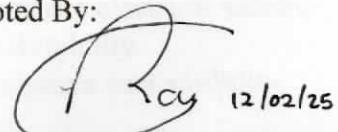
PREVIOUS DISPLAY / CONTROL BOARD	NEW DISPLAY / CONTROL BOARD
 <p>AQ-866A / AQ-833A / AQ-20M-MC</p> <ol style="list-style-type: none">1. No DOOR sensor connector2. The IC was located on front3. RED LED indicator4. 5 wires connector terminals (silicon)	 <p>JS-20Y2-MC (B)</p> <ol style="list-style-type: none">1. With DOOR sensor connector2. The smaller IC located at the back3. RED and GREEN LED indicator4. 4 wires connector terminals (clip type)

Prepared By:



Niñoel V. Castro
Process Engineer

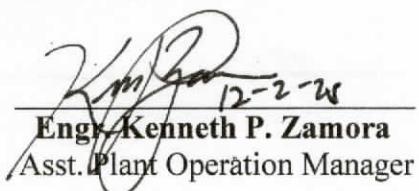
Noted By:



Reiner S. Abaquita
12/02/25

Plant Engr. Asst. Supervisor

Noted By:



Engg. Kenneth P. Zamora
12-2-25
Asst. Plant Operation Manager