
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.
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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
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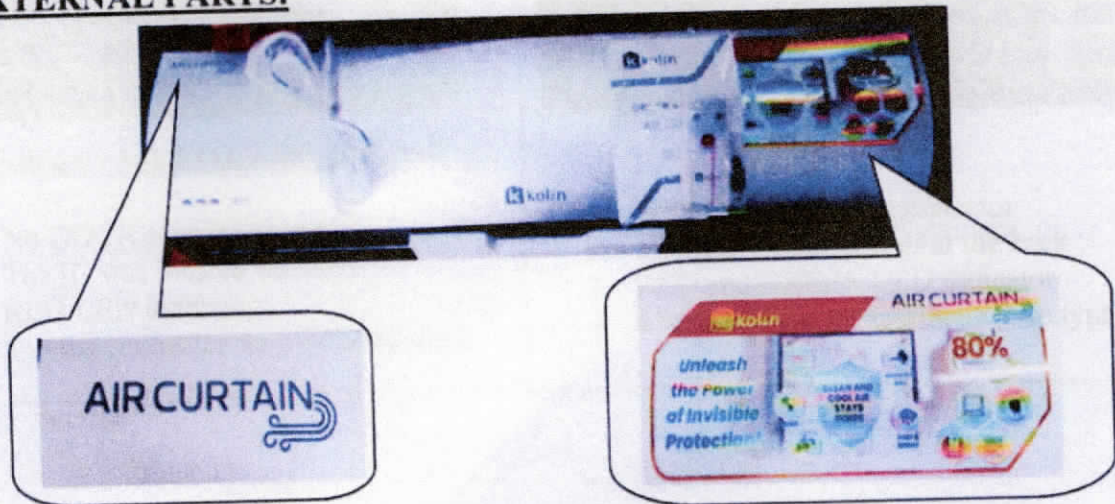
Implementation

- 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

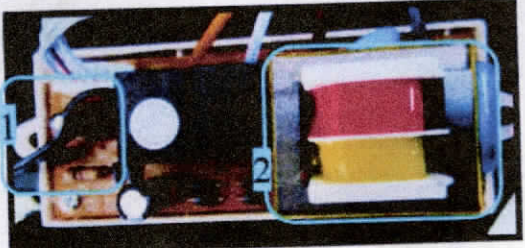
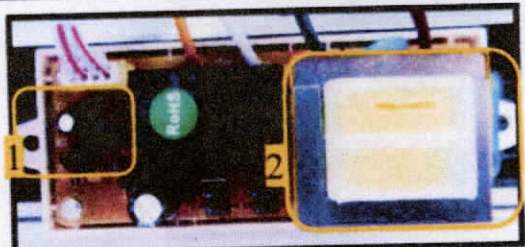
A. EXTERNAL PARTS

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
	
NY-866-FRZ 220V / 6.3A	DY-2J (10) B220-W0(Y) B3 220-240V / 10A
<ol style="list-style-type: none">1. The DOOR sensor was connected2. The transformer has no cover	<ol style="list-style-type: none">1. Removed the DOOR sensor and transfer to display board2. The transformer has cover

2. 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 connector 2. The IC was located on front 3. RED LED indicator 4. 5 wires connector terminals (silicon) 	<p>JS-20Y2-MC (B)</p> <ol style="list-style-type: none"> 1. With DOOR sensor connector 2. The smaller IC located at the back 3. RED and GREEN LED indicator 4. 4 wires connector terminals (clip type)

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