ADVANCED REFRIGERATION TECHNOLOGY PTY LTD
ABN: 84 108 127 895 | ARC RTA: AU27318 | QBCC: 15139728
Ph. 07 5413 4800 www.artmaslen.com.au
38 Production Avenue, Warana Qld 4575

TROUBLE SHOOTING

If the case temperature is staying higher than normal:

Check all doors are fully closed - even a door slightly ajar can cause temperature changes inside the case. Check the doors are closing on their own and do not need to be pushed closed. If there is frost build up around the door of the freezer this can be a sign of air leaking into the case. White frost on the grille at the front between the doors can be a sign that the doors are not shut properly.

Air flow inside is very important. Air gets pulled down through the grille at the front of the case and pushed up the back wall behind the shelves. Over-stacked shelves, pricing tickets, advertising labels or product hanging over the front grille will also affect air flow. If cold air cannot circulate around the product, it cannot be effectively refrigerated. Blocked or restricted air flow can cause frost build up inside the case and ice buildup on the evaporator which can then cause the case temperature to rise.

Frosting on shelves can be caused by several things, poor air flow, high humidity inside the shop, if a slower moving product is next to a popular product, the extra door openings in the popular section can cause frosting on the products next to it, stacking shelves with warm product, product with moisture on the packaging or having doors not sealing properly can cause frost buildup.

Things to check before calling your mechanic:

When the case goes onto defrost the display on the controller will stay on that temperature until the defrost is complete and the case is back running normal again. This can be about 1 hour so if you notice the displayed temperature has not changed for a while it may be just locked from the defrost. Give the controller a bit of time to come back to a live reading. You can open the door in front of the controller, hold it open for about 15 seconds and the temperature displayed should change. If it does not, it may still be recovering from a defrost.

This information may help the mechanic work out what is or is not the problem before he gets to site:

1. Check the power supply

2. Check if both the Case Lights and the Temperature Display are working.
   If both are off this may indicate a circuit breaker has dropped out. The product lights are separate from the refrigeration wiring so the case can still be running with the product lights out, but the Temperature display still working.

3. Check the fans inside the case are operating.
   Freezer fans stop during defrost. Medium temperature case fans run all the time.

4. 6-Door freezer cases are fitted with a Variable Speed Drive on the compressor. The drive has inbuilt systems that monitor incoming power and the compressor. If it detects a problem, it will show a fault and the Blue button (Right hand side of Temperature display J Box) will light up. The compressor will switch to standard 50Hz power and run as normal. When the Blue button is pushed the VSD will take control again. Depending on the model the button may need to be pressed once or twice to do the reset. You will hear a click and the light will go out.

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Check what is being displayed on the controller.

In normal operation the display will look like this:

The Fan symbol is the fan running light.

The circle with 2 lines is the compressor indicator light. When this light is on the compressor should be running. You should be able to hear it and feel air flow at the grill in the kick panel.

When the controller first calls for the compressor to start the compressor running light will flash until the compressor starts.

In Defrost Mode the display will look like this:

Defrost Symbol - when this is showing the case is in defrost mode.

To manually start a defrost, press and hold the defrost button for 3 seconds.

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KEEP THIS GRILLE CLEAR

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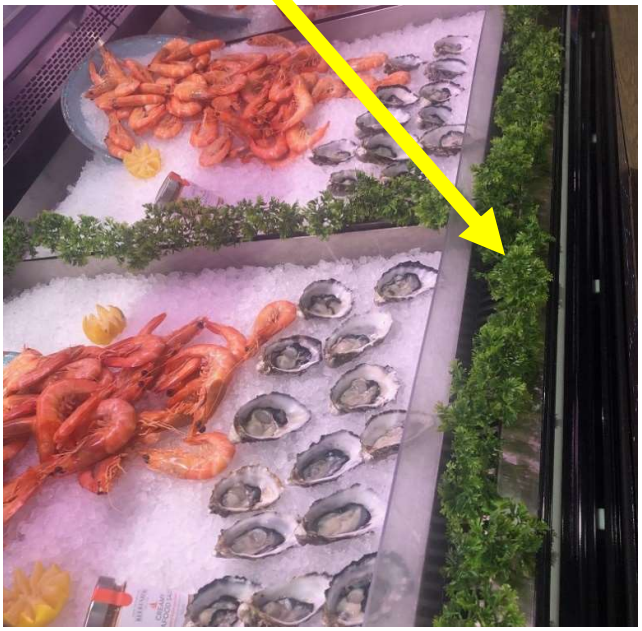
BLOCKING THE GRILLE WITH DECORATION, ADVERTISING, PRODUCT ETC. **WILL CAUSE THE PROBLEMS WITH** THE CASE AIR FLOW AND TEMPERATURE



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AN AIR GAP ABOVE THE PRODUCT IS REQUIRED TO ALLOW ADEQUATE AIR FLOW AROUND THE PRODUCT.

PRODUCT STACKED TOO TIGHTLY WILL NOT ALLOW AIR FLOW AROUND THE PRODUCT OR CASE AND THIS WILL CAUSE PROBLEMS.