Fan Run Fault
(Drive Run/Stop Failure)

Description of Fault

A CATALYST Fan Run Fault is generated when the CATALYST passes a fan command to the unit and the unit does not respond correctly. This includes running when it is not commanded or not running when commanded.

It is important to note that, for the well-being of the unit, the CATALYST will not pass through any heating or cooling commands until the fault is cleared.

Possible Causes

A CATALYST Fan Run Fault is typically caused by:

- On a drive unit, the drive could be overridden and in hand or manual.
- On a non-drive unit, including ECM, if the CATALYST issues a fan command and there is not a corresponding rise in the electrical current, then the fault is generated.

The varying types of fan control are depicted in the eIQ by the following:

1. A drive unit will show a physical drive in the graphic, and above it will list the fan's percentage.
2. An ECM (variable speed) unit will not show a drive, but it will show a percentage.
3. A non-drive unit will show the fan as only ON or OFF.

Troubleshooting

eIQ Platform

1. Setting the service switch to OFF may clear the fault. Change the soft service switch to OFF in the settings tab, wait for the unit's live view to display that the service switch is off, and then set the soft switch back to AUTO.

    a. On a drive unit, verify on the live view screen that the drive follows the speed command and the fault clears. If not, then a technician is needed.

    b. On a non-drive unit, including ECM, watch for unit power to rise on the live view. If it does not, then a technician is needed.

2. If the fault clears and then reoccurs, then a technician will need to investigate the equipment to resolve the issue.

Site

1. Use the service switch in the unit on the roof. Set the switch to OFF, wait for the unit to halt, and then switch to AUTO.
2. On a drive unit, check for the green light on the $\frac{\text{LO}}{\text{RE}}$ button.
    a. If it is lit, then press stop and then the $\frac{\text{LO}}{\text{RE}}$ button. The green light should go away. Cycle power to the unit and verify proper operation.
    b. If it is not lit, then contact Transformative Wave.
3. On a non-drive or ECM unit, verify that the fan is running.
    a. If the fan is running, then verify that the CT is installed on the high leg of unit power.
        i. If it is, then verify the wiring on the brown 2-conductor: white is on +, black is on –. If the wiring is correct, then contact Transformative Wave.
        ii. If it is not on the high leg, then install the CT on the high leg.
    b. On a non-drive unit, if the fan is not running, then confirm that there is 24 volts on the green wire on the green 8-conductor from the CATALYST.
        i. If there is 24 volts, then begin troubleshooting the unit. (It is not a CATALYST issue.)
        ii. If there is not 24 volts, then contact Transformative Wave.
    c. On an ECM unit, if the fan is not running, then verify that there is DC voltage on the fan speed command wires: black and white wires from the blue 4-conductor.
        i. If there is voltage, then begin troubleshooting the unit. (It is not a CATALYST issue.)
        ii. If there is not voltage, then contact Transformative Wave.