FLŌ ENERGY SOLUTIONS	Troubleshooting Guide	CO-GEN-02
Title:	High Discharge Pressure Safety Trips (Troubleshooting)	

Overview

The purpose of this document is to provide the steps that should be taken if high discharge pressure trips are experienced.

Clean Filters

Flō MPUs are equipped with pleated filters or metal frame filter housings and replaceable media. These metal filter frames are specially designed to work with your Flō MPU. It is highly recommended that the customer purchase and maintain a roll of MERV 7 30% efficiency synthetic filter media to have on-site. Purchasing a roll of this media is more cost effective and will be readily accessible when filter service is required. All Flō MPUs include door hold open arms that also serve as a tool to slide the metal filter frames out for servicing. Use the door hold open arm bracket to facilitate the removal and replacement of the metal frame filters, as shown in the pictures below:

Figure 1. Grab Door Arm

Figure 2. Use Door Arm to Pull Out Filters

Figure 3. Remove and Replace Filters

Clean Condenser

Condenser coils should be clean and free of debris. Condenser coils can be cleaned using an approved coil cleaner, as described below.

- Use only approved coil cleaners such as: Enviro-Coil H-EC01 and/ or CHLOR*RID DTS™
- Use products as directed and apply evenly to condenser coil
- Allow agent to work and rinse thoroughly using a hose
- A pressure washer may be used if precautions (listed below) are followed
- Rinse water should be of potable type and low pressure
- Rinse all coil surface areas from cleaners and debris
- Additional information may be found at: CHLOR*RID DTS International, Inc.

Precautions if using a pressure washer:

- Purge any soap or industrial cleaners from the washer before cleaning.
- Do not exceed 140 psig., nozzle angle 80 to 90 degrees from core face
- Nozzle must be at least 6” (30 cm) from the core face.
- Clean face by spraying the coil steady and uniformly from top to bottom directing the spray straight toward the coil
- Blow out excess water from coil

Check Dampers

Check the outdoor, return and bypass air dampers for rust, paying close attention to the area where the axle ends meet the bushing. An example of a corroded damper is shown (Figure 4) below. If rust is present, lubricate the shaft penetration inside and out using a dry graphite lubricant (Figure 5 and 6). Re-apply the lubricant on a bi-yearly basis.

Figure 4. Look for Rust

Figure 5. Lubricate Inside

Figure 6. Lubricate Outside

Check Sub-Cooling and Superheat

It is important to note that the condenser, evaporator, and filters must be clean, and the dampers must be in working order before measuring sub-cooling or superheat to ensure proper air flow and accurate readings.

To perform a validation and adjustments of the sub-cooling and superheat levels, please use the Flō Technical Guide **CO-GEN-01 HOW TO SET SUB-COOLING AND SUPERHEAT**.

If you do not have that Technical Guide on hand, please download a copy from systemsflo.com, contact Flō tech support at 888-598-1198 or email Flo a request for the form at techsupport@systemsflo.com.

Check Space Humidity Sensor For Rear Insulation

For wall mounted humidity sensors, it is important to check behind the sensor to ensure that it is fully insulated. Insulation behind the sensor ensures that the humidity reading are only coming from the space itself. Failure to insulate the rear of a wall mounted humidity sensor may result in erratic compressor behavior, potentially leading to high head pressure issues.

Who Do I Contact If I Have Questions?

If you are unable to balance the system using these methods or have any questions, please contact Flō Tech Support at 888-598-1198 or at techsupport@systemsflo.com.