



## VARI-FLOW

Accurex shall integrate this pre-engineered system into either new or existing kitchen hood systems. The programmable logic controller, keypad/touchscreen, and electronic motor starters (VFDs) (if selected to be provided by Accurex) shall be mounted in a utility cabinet. If possible, the temperature sensors (RTDs) shall be mounted in the hood capture tank. Accurex will execute the following:

- Factory to pre-mount variable volume system at the factory (if applicable)
- Factory to pre-wire all system internal system components where applicable
- Factory to pre-program the system based on the application (temperature span, number of fans, number of sensors, etc.)

Once shipped and on site, the field will typically be responsible for the following:

- Electrical contractor to field wire 115/1 VAC from a dedicated, non-shunted source to the Vari-Flow control panel (power for panel)
- Electrical contractor to field wire 115/1 VAC from a dedicated source to the Vari-Flow control panel (power for lights)
- Electrical contractor to field wire connection from Vari-Flow panel to the hood lights
- Electrical contractor to field wire the electronic motor starters inside the utility cabinet by connecting 3-phase input power from the circuit breakers
  - The output wiring to be connected to the respective fan motor
  - The input and output wiring shall be run in separate conduit for each starter

Note: If the Vari-Flow is controlling a tempered MUA unit, a separate circuit must feed the controls, and some low-voltage control wiring will be required.

- Electrical contractor to provide final connections for any field-connected sensors, the keypad/touchscreen, and interfacing between the Vari-Flow and fire suppression system
- Electrical contractor to start-up the system by pressing the light and fan switch on the keypad to verify hood lights turn on and the fans ramp to minimum speed (correct fan rotation if necessary)
- Test and balance contractor to air balance the system with the system operating at full speed
  - Speed adjustments on direct-drive fans to be made either on the programmable logic controller or at the electronic motor starters (VFDs)

Variable Volume System start-up process

- Based upon the ease of the system install, no factory start-up is provided standard with the Vari-Flow system. System optimization can be obtained by following the step-by-step procedure located within the installation and operations manual. Phone technical support is available to answer any field installation questions.