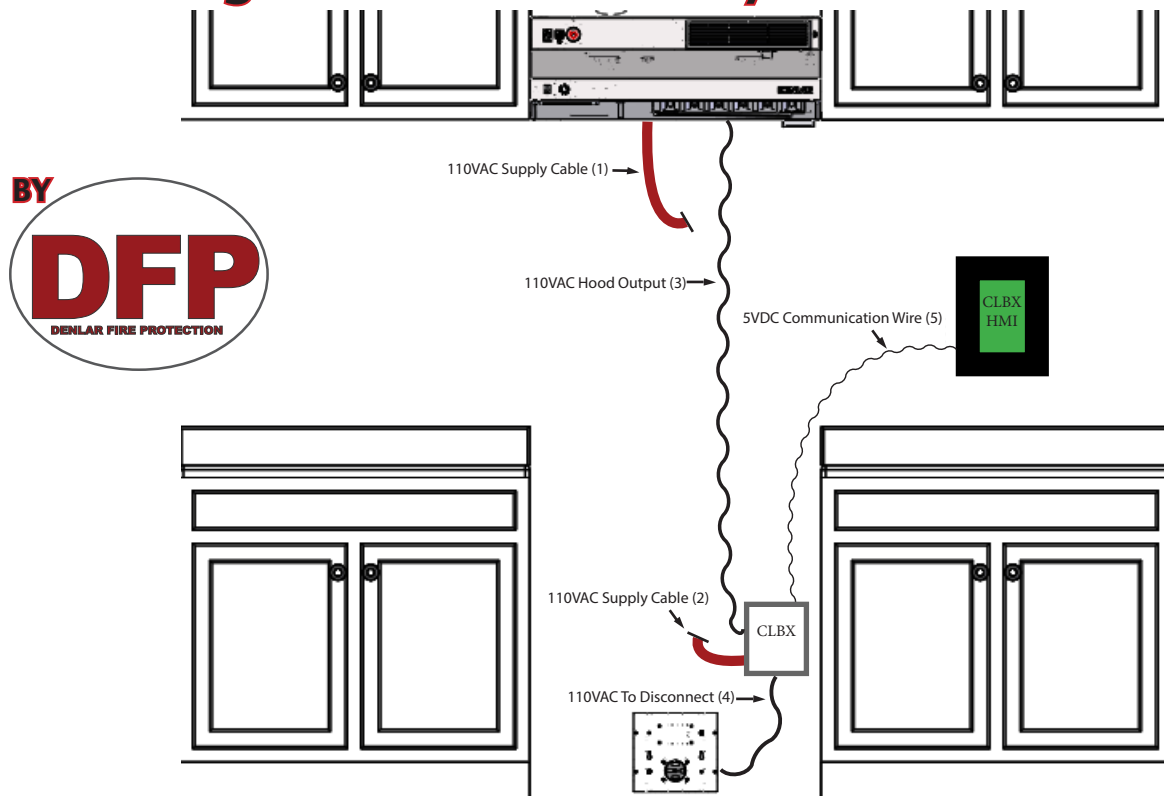


CLOCKBOX 2.0

Cooking Element Control System - Interface Diagram



1. 110 VAC supply line is provided to the hood.
 - a. This supply line provides power to the hood
2. An independent 110 VAC supply line is provided to the Clockbox.
 - a. This supply line provides power to the Clockbox, which is independent from the supply line to the hood
3. The hood's output 110 VAC connects to the Clockbox
 - a. The Clockbox breaks the load supply line coming from the hood when the Clockbox timer is activated
4. The Clockbox provides 110 VAC to the Power Disconnect Assembly
5. The Clockbox provides control signal voltage (5VDC) and logic control to the Touch Screen [HMI]
6. The Power Disconnect Assembly supplies the input line to the stove/range as follows:
 - a. If an Electric Disconnect:
 - Controls the 110 VAC contactor coil allowing the 220 VAC supply line to the stove/range via the NEMA 14-50 receptacle.
 - b. If a Gas Disconnect:
 - Open the solenoid valve allowing gas to flow to the input line of the stove/range
 - c. If Dual Disconnect
 - Both conditions 6.a.i and 6.b.i will apply
 - d. The above reference will be maintained for as long as there is time left at the Clock Box, it will open the contact in the timer, stopping the supply line to the Power Disconnect, which in turn, will shut off the stove.

CAUTION: Some Electric stoves/ranges have warning light to alert the user that the burners/coils are hot. These warning lights will be off since the supply line powering the stove/range is not present.