

## Kitchen Fan Control Center (KFCC)

Provide Greenheck Kitchen Fan Control Center Model KFCC as shown on plans and in accordance with the following specification:

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The KFCC shall be constructed of 16 gauge 300 series stainless steel, and UL Listed to Standard 891. The pre-engineered control center shall include, but not be limited to, fan motor starters, light and fan switches, fire relay which controls both the supply and exhaust fan(s), quarter turn latch, color coded wiring with wiring diagram, grounding terminal blocks, and distribution terminal control strip for control wiring connection. All electrical components shall be UL listed or Classified where applicable and wired in compliance with the National Electrical Code.

The control center and control switching have two typical mounting locations. 1) The panel will be remote mounted with the switches mounted on the panel face, or 2), utility cabinet mounted with the switches face mounted on the utility cabinet. Other options are available.

Three, standard overall dimensions for the control cabinets are 12 in. x 18 in. x 6 in., 18 in. x 18 in. x 6 in., and 25 in. x 18 in. x 6 in. Minimum control center dimensions are 12 in. x 18 in. x 6 in. for up to four fan motor starters. Minimum control center dimensions are 18 in. x 18 in. x 6 in. for up to eight fan motor starters. For single phase control panels, the maximum horsepower for 120V is 5 hp; the maximum horsepower for 208V is 10 hp; the maximum horsepower for 240V is 10 hp. For three phase control panels, the maximum horsepower for 208V is 30 hp; the maximum horsepower for 480V is 50 hp, the maximum horsepower for 575V is 100 hp. Panel is available with mixed fan voltages and mixed phase. Each fan will receive its own, dedicated motor starter. Other options are available.

The control centers may be equipped with temperature interlock(s), which is compliant with International Mechanical Code (IMC) 2006 section 507.2.1.1. The temperature interlock(s) consist of either a thermostat style probe and off-delay time relay, or a temperature controller and resistive temperature detector (RTD). With both options the sensor/probe will be provided with a junction box and fire proof/leak proof threaded fitting (Evergreen Quik-Seal® and/or Evergreen Compression Seal) will be provided. The interlock(s) shall power the fans when the sensor detects the temperature set point. The interlock(s) shall hold the circuit closed upon the fan switch being turned off until the temperature sensor detects a temperature below the set point.

If exhaust hood includes an automatic fire damper, damper switch will be mounted on hood front if control center is remote mounted. The damper switch will be mounted on front of utility cabinet if control panel is mounted in a utility cabinet.

The electrical contractor is to follow field-wiring requirements listed in the installation instructions. If the control center is mounted in the utility cabinet, the light and fan switches shall be mounted on the face of the utility cabinet unless otherwise specified, and they will be factory wired. If there is a fire suppression system also mounted in the same utility cabinet, wiring to the micro switch is to be completed at the factory unless otherwise specified.

Due to continuous research Greenheck reserves the right to change specifications without notice.