PULL OUT SUPREME MOTOR CONTROL PANEL SPECIFICATION SECTION

1.0 Motor Control Panels

Motor control panels shall be UL listed, NEMA-rated type 3R enclosures and customized for restaurant use. Motor control panel shall handle up to eight motors and shall be designed to interlock the supply fans, the exhaust fans and the hood fire protection system. An On/Off switch shall energize the exhaust fan contactor. The supply fan shall be interlocked through the auxiliary contacts on the exhaust fan contactor and the hood fire protection system. The supply fan shall operate only when the exhaust fan is on. If the hood fire protection system trips during regular operation, the panel shall automatically shut off the supply fan and the exhaust fan shall continue to operate. If the hood fire protection system trips after the hood system has been shut down, the panel shall turn the exhaust fan on to move the fire protection chemical through the exhaust duct and remove smoke from the kitchen. The supply fan shall remain off.

SUGGESTED SPECIFICATIONS FOR SUPREME SF SUPPLY FAN

1.0 Cabinet Supply Fans

Supply fans shall use a double inlet, forward curve, heavy duty blower mounted in a weatherproof cabinet suitable for roof mounting. Design is based on Supreme Fan model SF.

1.1 Construction

Fan cabinet is to be constructed of heavy duty galvanized steel.

Fan cabinet shall have a cross-broken roof to prevent standing water. The roof shall be easily removable without the use of tools through four quick-release latches for inspection and maintenance of the motor, drives, belts and the washable aluminum filter. The fan cabinet shall also have a removable access door for full access to the motor, belt and sheaves.

A weather hood of the same material and finish as the fan cabinet shall be supplied as standard. The weather hood shall have a drip trough on the front lip. If specified, a duct inlet extension shall be provided complete with a support rail to increase the separation between the makeup air intake and the exhaust.

Fan wheel shall be high quality forward curve centrifugal design of zinc coated steel. The wheel hub shall have a keyed shaft to secure the pulley to the shaft. All fans shall be statically and dynamically balanced at the specified speed with their production motor.

1.2 Motor and Drive

Fan motor shall be mounted on a heavy-gauge angle frame. Motor shall be a continuous duty, energy efficient type. Motor, belt and pulley assembly shall be factory set for static pressure, RPM and CFM requirements.

Fan bearings shall be durable, heavy-duty, permanently lubricated sleeve or ball bearings with a sealed lifetime supply of lubricant. Sleeve or ball bearings shall be mounted in resilient neoprene rings. Fan shafts shall be oversized for the intended duty, turned, ground and polished 10/45 steel alloy.

1.3 Additional Requirements

Fan cabinet shall mount on a standard, 8" roof curb and be available for down discharge or side discharge.

Fans shall be AMCA licensed, listed and rated for air performance to 1.5" static pressure. Entire fan assembly shall be UL or ETL listed.

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