

Suggested Specifications For **SUPREME** Grease Exhaust Fans

1.0 Grease Exhaust Fans

1.1 General

Fans shall use a single inlet, single discharge design with a high efficiency discharge scoop. Spun aluminum roof exhausters are not acceptable. Design is based on Supreme Fan model GBD.

1.2 Construction

Fan housing is to be constructed of prime quality, paint ready, corrosion resistant, A-60 heavy gauge steel and fully welded to be leak-free. Entire assembly, including motor cover, shall be finished with UL approved, long life, polyurethane gloss gray paint.

Fan shall have a single, integral, continuously welded upblast grease-extracting discharge scoop, constructed of similar materials, with a fully welded drain. Field mounted discharge scoops are not acceptable. Liquid shall drain from the discharge scoop into a fully welded, liquid-tight grease reservoir, permanently mounted to the base directly under the discharge scoop. Reservoir shall have a large capacity and be designed to allow water to escape while retaining grease in the reservoir. A single throw, brass ball valve shall be factory installed to drain the grease reservoir.

Fan wheel shall be backward curve design, non-overloading, of heavy gauge welded steel or aluminum. Tabbed or riveted wheels are not acceptable. All fans shall be statically and dynamically balanced at the specified speed with their production motor. All balance weights shall be welded to the fan wheel. Clipped or threaded weights are not acceptable.

Blower shall have a counter-balanced, tilt-out fan wheel for easy cleaning of wheel and scroll. Assembly shall have a safety lockout pin to prevent the wheel from dropping during maintenance. The entire fan assembly shall be base mounted and hinged so that the unit may be tilted open to clean duct and fan inlet. A factory mounted safety chain shall keep the fan from opening past its balance point.

Motor cover shall be factory supplied, constructed of steel and easily opened without the use of tools. Motor cover shall be hinged and a locking pin shall hold the cover open during service.

1.3 Motor and Drive

Fan motor shall be mounted out of the airstream on a heavy-gauge, welded 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 out of the airstream and be durable, heavy-duty, pillow-block ball bearing type with Zerk fittings for field lubrication. Fan shafts shall be oversized for the intended duty, turned, ground and polished, 10/45 steel alloy.

1.4 Additional Requirements

Fan assembly shall have an integral vented base and mount on a standard, 8" roof curb. Fan manufacturer shall supply a welded transition from the grease duct to the fan inlet. Field supplied transitions are not acceptable.

Fans shall be AMCA licensed, listed and rated for air performance to 5" static pressure. Entire fan assembly shall be UL listed for restaurant grease exhaust application.

Specifications are available on disk or via E-mail. Please call your nearest Toro-Aire office for a copy.