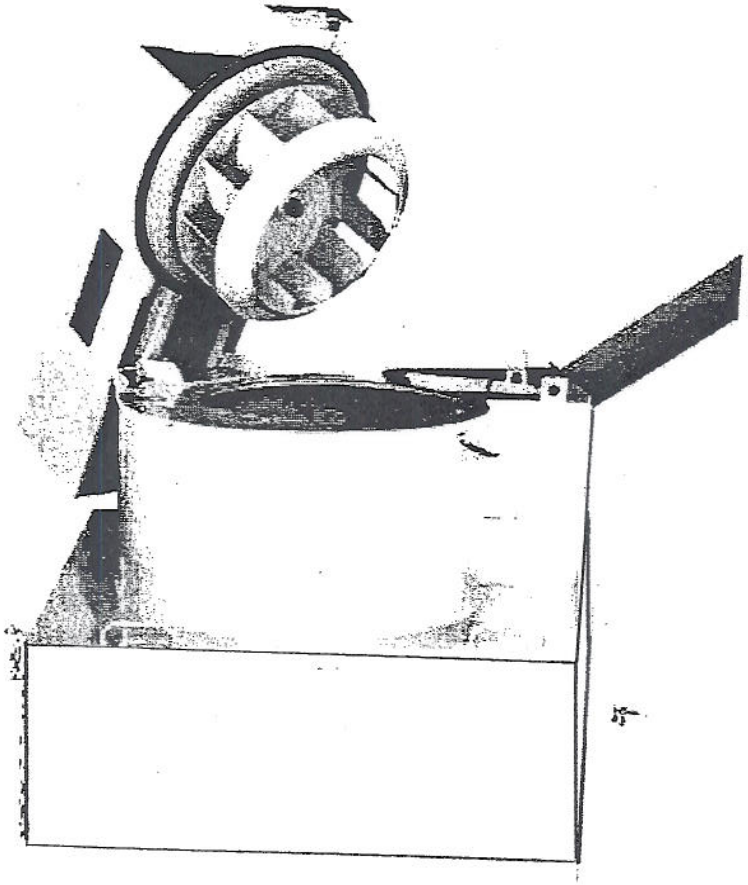
SUPREME®

GBD

HEAVY-DUTY CURB-MOUNTED EXHAUST BLOWER

designed for restaurant grease removal and high-static industrial applications

PATENT PENDING



EXPERIENCE THE SUPREME DIFFERENCE.

MODEL: GBD

DRAWN BY: NWD

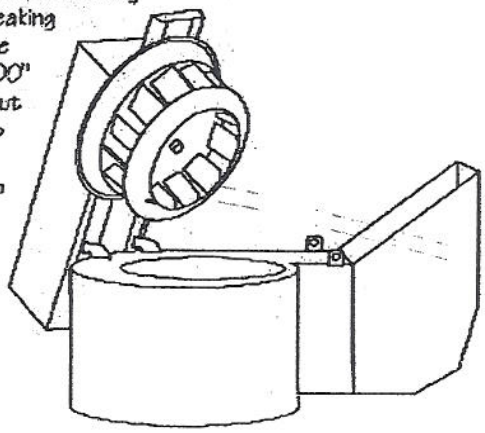
NOTES: PATENT PENDING

Heavy-duty curb-mounted exhaust blower for restaurant grease removal and high-static industrial use.

SUPREME®

FAN WHEEL

The fan wheel is constructed of heavy-gauge aluminum or steel and is backwardly-inclined and non-overloading. The wheel is designed to throw particulate off its blades into the exhauster as it spins, instead of building up on the wheel and the inside of the fan. This prevents the leaking of grease onto the roof common with other types of fans. The standard Supreme wheel is capable of exhausting at over 5.00" W.C. Consult factory for higher-static applications. The lift-out wheel used on the GBD is counter-balanced, and designed to lift out of the fan assembly. By inserting the safety lockout pin, the wheel will remain out of the way until you are ready to place the wheel back into the assembly. This allows easy cleaning and maintenance, unlike spun aluminum-type fans or utility sets. Routine maintenance, such as checking bearings, that would require a complete disassembling of other fans, with the possibility of damaged or lost parts, is instead a simple task with the Supreme GBD.



UL LISTED

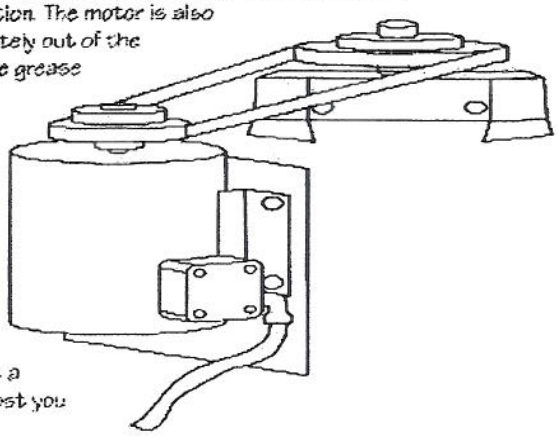
The Supreme GBD blower is UL listed (classification YZHW, subject #537Z) for use in restaurants with grease-laden air.

AMCA CERTIFIED RATINGS AIR PERFORMANCE

Supreme Fan Products certifies that the GBD exhaust blowers shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

MOTOR

The motors used on all Supreme Fan Products are energy-efficient, and are rated for continuous duty operation. The motor is also maintenance-friendly. It's completely out of the grease-laden airstream to reduce grease build-up and excessive heat on precision motor parts. It is readily accessible for maintenance, by simply opening the motor cover, which can be done without the use of tools. Your service technician can then do all the needed work, lubricate the bearings, change a belt, and check out the operation of the system, without a "major service call" that would cost you both time and money.



HEAVY-DUTY BEARINGS

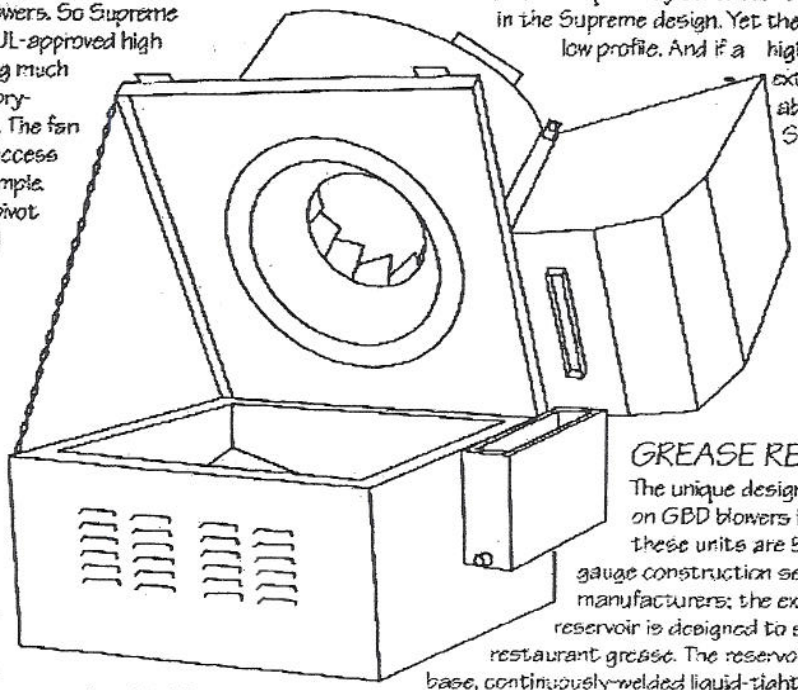
Bearings used on GBD blowers are durable pillow-block, ball-bearing type, with zerk fittings for effortless lubrication. Instead of the lighter-duty bearings commonly found on other types of fans.

HOUSING

The housing is made of heavy, 10- to 16-gauge steel, and is continuously-welded liquid-tight for strength and to prevent grease leakage. Grease tends to stick to the spun aluminum used in other brands of exhaust blowers. So Supreme covers the entire unit with UL-approved high gloss paint to make cleaning much easier. Lifting lugs are factory-installed for ease of rigging. The fan housing is hinged to make access and cleaning of ductwork simple. The stainless steel hinges pivot the fan housing, and welded steel stops hold the fan in place.

DISCHARGE SCOOP

The discharge scoop used on the GBD blowers is continuously-welded to the blower housing to prevent grease leakage. The scoop design allows you to place the blower unit closer to the outside wall than would be possible with a spun aluminum-type fan. Code-required separations between rooftop air intake systems and exhausts are easy with GBD blowers, because the unit can be oriented in any of four directions as needed; the wind band required by other brands of fans is not involved in the Supreme design. Yet the GBD blower has a very low profile. And if a higher scoop is needed to extend the discharge above the roof line, Supreme can provide it.



BASE

The bases available for GBD blowers are fabricated from heavy-gauge steel, and are continuously-welded for strength and durability. Bases are available in vented or non-vented styles. The bases are reinforced at hinging points for extra strength.

GREASE RESERVOIR

The unique design of the grease reservoir on GBD blowers is another part of why these units are Supreme. Its heavy-gauge construction separates it from other manufacturers; the extra-large Supreme reservoir is designed to separate water from real restaurant grease. The reservoir is integral to the fan base, continuously-welded liquid-tight, and is designed to handle large amounts of liquid at once, making even rush times a breeze for the GBD. Water and snow are allowed to separate from the grease, and runs off onto the roof, while the grease is trapped in the reservoir. The reservoir is provided with a brass ball valve for ease of draining. The liquids can be optionally piped to a code-approved receptor, eliminating the need for rooftop maintenance of the reservoir.

OPTIONAL EQUIPMENT

EXTENDED DISCHARGE SCOOP

The optional extended discharge scoop is available if a greater distance is required between the exhaust and supply inlets in order to meet code requirements or job-site conditions. The single outlet discharge on the GBD makes this separation easier.

ROOF CURB

If requested, Supreme can provide an optional all steel roof curb for the GBD, designed for easy, weather-proof mounting.

SIDE INLET FITTING

Unlike other manufacturers, if horizontal rooftop ductwork is required, Supreme offers the option of a continuously-welded, grease-tight, side inlet fitting, incorporated into the base of the GBD. This option is needed if ductwork is to be run horizontally into the fan. See page 9.

TRANSITION FUNNEL FITTING

A funnel fitting to connect ductwork from the fan inlet to the exhaust duct is available. It is constructed of 16-gauge galvanized material, and is continously-welded to make a liquid-tight connection to the blower unit. Provide duct size when ordering. See page 8.

DISCONNECT SWITCHES AND CONTROL PANELS

A complete line of disconnect switches are available, factory-installed and pre-wired. Switches can be provided either fused or non-fused and with magnetic starters. Supreme also offers UL-listed motor control panels, capable of handling from one to ten motors, providing integral interlocking overload protection, magnetic starters and service disconnects.

COMBO CURBS AND ADAPTER CURBS

See GBE catalog, page 3.

GBD

SHORT FORM SPECIFICATIONS & GREASE DRAINING METHOD

PATENT PENDING

SHORT FORM SPECIFICATIONS

GBD exhaust blowers shall be curb-mounted, with fan housing entirely constructed of heavy-gauge steel, fully welded. Blower shall have a single, integral, continuously-welded upblast discharge scoop constructed of similar materials, with a fully welded drain for liquid to travel to a fully welded steel grease reservoir. Reservoir shall be permanently mounted to the base under the discharge scoop, and shall be designed to allow water to escape while retaining grease in the reservoir. Grease shall be drained by the use of a brass single-throw ball valve.

The entire unit shall be painted with UL-approved gloss paint. Supreme Fan can provide a full range of coatings for various applications. Consult factory for details.

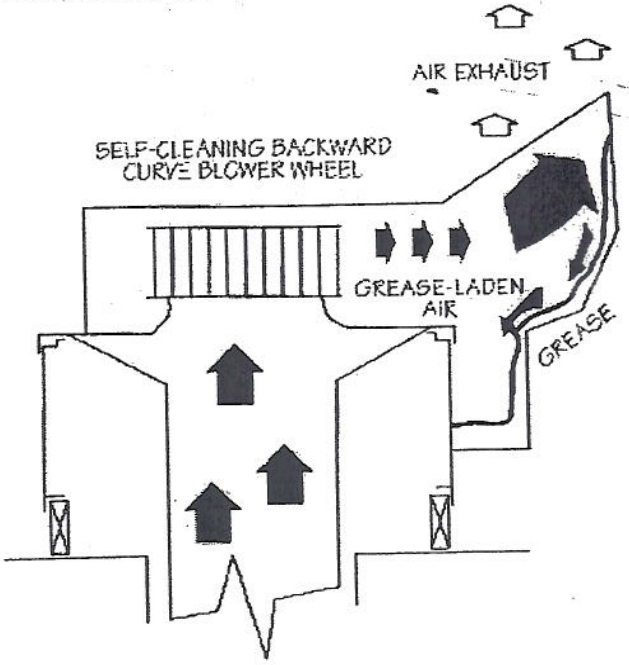
Blower shall have a counter-balanced, tilt-out fan wheel, including a safety lockout pin to prevent the wheel from dropping during maintenance. Fan wheel shall be constructed from heavy-duty, welded aluminum or steel, and shall be backward-inclined, statically and dynamically balanced, and of a non-overloading type.

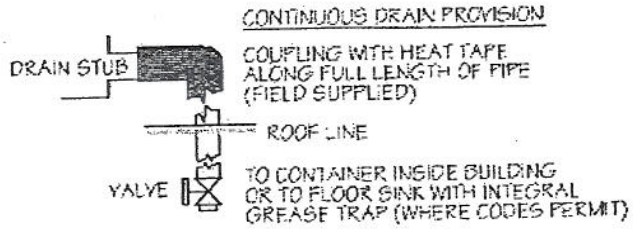
Fan motor shall be mounted out of the air stream on a heavy-gauge welded angle iron frame. Motor shall be a continuous-duty, energy-efficient type. Motor, belt and pulley assembly shall be factory-set for static pressure, revolutions per minute and cubic feet per minute requirements whenever possible.

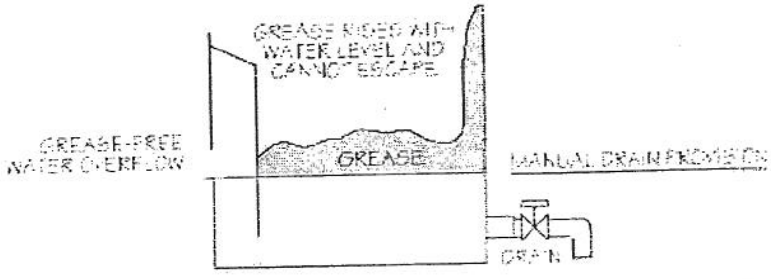
Entire blower shall be base-mounted and hinged, so that the unit may be tilted upward for cleaning of exhaust duct system. Unit shall be equipped with a safety chain to prevent damage during the cleaning operation.

Motor cover shall be constructed from steel and shall be easily opened for maintenance without the use of tools. Wheel shafts shall be 1045 TG&P material. Bearings shall be heavy-duty pillow-block ball bearing type with zerk fittings for lubrication. Blower shall be AMCA licensed and listed for CFM, RPM, static pressure and brake horsepower performance, as well as being UL listed for restaurant grease applications.

HOW THE SUPREME GBD CAPTURES GREASE





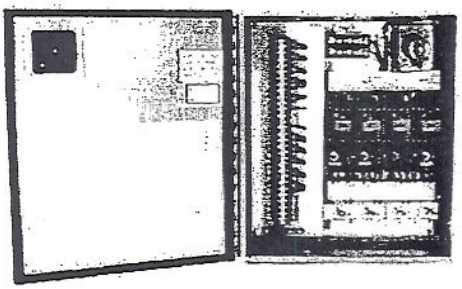


Drain the grease reservoir once per month. Restaurants with heavy grease-producing cooking may require more frequent draining. To drain the grease reservoir, place a large container (minimum 5½ gallons) with a sturdy handle under the drain spigot and open the valve.

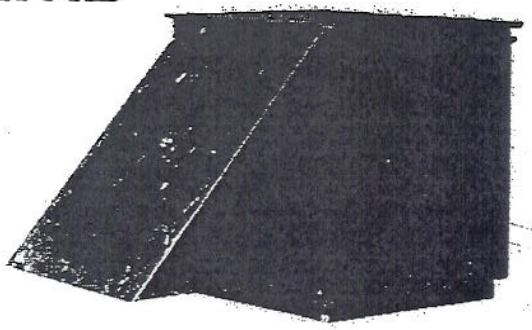
NOTE: The reservoir has a 3 gallon capacity before the overflow; 5½ gallons if the overflow outlet becomes plugged.

SUPREME RESERVES THE RIGHT TO CHANGE DESIGNS, SPECIFICATIONS AND OTHER DATA IN THIS CATALOG WITHOUT NOTICE.

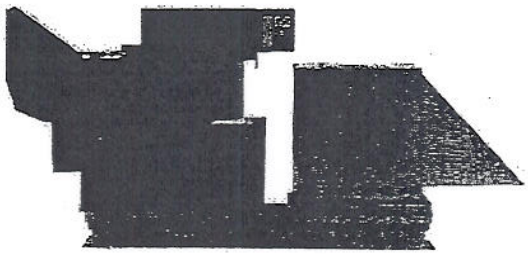
OTHER PRODUCTS FROM SUPREME®



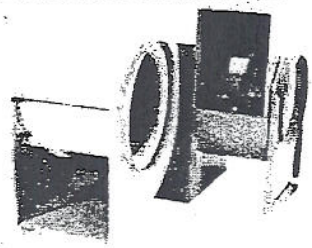
MOTOR CONTROL PANELS



CABINET SUPPLY FAN
MODEL SF



COMBINATION SUPPLY
AND EXHAUST PACKAGE



FORWARD CURVE BLOWER
MODEL FC

BACKWARD-INCLINED BLOWER
MODEL BI

SUPREME®

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