

# Typical Specifications

**Model:** **SQB**

**Description:** Fan shall be belt drive, duct mounted, centrifugal square inline.

**Standard Construction:** The fan shall be of welded and bolted construction utilizing corrosion resistant fasteners. Housing shall be heavy gauge G90 galvanized steel with integral duct flanges and deep spun venturi inlet. Removable access doors shall be provided on two sides, sealed with neoprene gasketing. Fan shall include a pivoting motor mounting plate with integral belt tensioning device out of the air stream. Fan shall include a removable drive and bearing cover effectively isolating the bearings and drives from the air stream. Fan housing shall accommodate universal mounting brackets for vertical or horizontal installation. The fan shall include a standard disconnect switch (except units with two speed or explosion proof motors). The fan shall bear a permanently attached nameplate displaying model and serial number of unit for future identification. The unit shall be factory run-tested after assembly.

**Wheel:** Wheel shall be non-overloading backward inclined centrifugal, constructed of heavy-gauge aluminum, including a precision machined cast aluminum or steel hub. Wheel inlet shall overlap an aerodynamic aluminum venturi inlet cone to provide optimum air and sound performance. Wheel shall be balanced in accordance with AMCA Standard 204-96, *Balance Quality and Vibration Levels for Fans*.

**Motors and Electrical:** Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

**Bearings and Shaft:** Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron pillow block housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed. Fan shafts shall be precision ground and polished.

**Drives and Belts:** Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM range.

**Certifications:** Fan shall be listed by Underwriters Laboratories (cULus 705) including UL listing for Canada when specified in the fan schedule. Fan shall bear the AMCA certified ratings seal for sound and air performance.

**Options and Accessories:** Optional accessories shall be provided either factory installed or field installed as detailed in the fan schedules.

**Warranty:** Manufacturer's warranty shall apply for a period of 1 year. See warranty certificate for details.

**Product:** Fan shall be model SQB as manufactured by Soler & Palau USA of Jacksonville, Florida, a division of Soler & Palau Ventilation Group.