

# Typical Specifications

**Model:** **STXB / STXBHP / STXBRHUL / STXBHPRHUL**

**Description:** The fan shall be a roof mounted, spun aluminum, belt driven, upblast centrifugal exhaust ventilator. "HP" models include a high pressure wheel, and "RHUL" models include the UL762 listing.

**Standard Construction:**

The fan shall be of welded and bolted construction utilizing corrosion resistant stainless steel fasteners. The spun aluminum components shall be constructed of heavy-gauge aluminum, bolted to an aluminum support for rigidity and strength. The aluminum base shall have continuously welded curb cap corners for added strength and maximum leak protection (UL762 "RHUL" units shall have heavy duty galvanized curb cap). The fan base shall have pre-punched holes for ease of installation. The windband shall have a rolled bead for added strength. The aluminum motor cover cap shall have stainless steel latches to provide easy access into the motor compartment. An integral watertight conduit chase shall be provided through the curb cap and into the motor compartment to facilitate wiring connections (UL762 "RHUL" units shall have external weatherproof wiring connection). The motor, bearings and drives shall be mounted on heavy-gauge steel motor bracket assembly, isolated from the unit structure with neoprene vibration isolators to reduce vibration and sound. The motor base shall be adjustable for maintaining proper belt tension. These components shall be enclosed in a weather-tight compartment, separated from the exhaust airstream and cooled by air isolated from the exhaust. The fan shall include an integral birdscreen (except UL762 "RHUL" units) and standard disconnect switch (except units with two speed and explosion proof motors). The fan shall bear a permanently attached nameplate displaying model and serial number of unit for future identification. Unit shall be factory run-tested after assembly.

<b>Wheel:</b>	Wheel shall be non-overloading backward inclined centrifugal, constructed of heavy-gauge aluminum, including a precision machined cast aluminum. Wheel inlet shall overlap an aerodynamic deep spun aluminum inlet cone to provide optimum air and sound performance. Wheel shall be statically and dynamically balanced in accordance with AMCA Standard 204-05, <i>Balance Quality and Vibration Levels for Fans</i> .
<b>Motors and Electrical:</b>	Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.
<b>Bearings and Shaft:</b>	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.
<b>Drives and Belts:</b>	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 sheave must be factory set to the specified fan RPM range.
<b>Options and Accessories:</b>	Optional accessories shall be provided either factory installed or field installed as detailed in the fan schedules.
<b>Certifications:</b>	Fan shall be listed by Underwriters Laboratories cULus 705 when specified in the fan schedule. Fan shall be listed by Underwriters Laboratories cULus 762 "RHUL" Power Ventilator for Restaurant Exhaust Appliances when specified in the fan schedule. Fan shall bear the AMCA certified ratings seal for sound and air performance.
<b>Warranty:</b>	Manufacturer's warranty shall apply for a period of 5 years (housing, bearings, shaft, wheel) and 1 year (motor) for cULus 705. See warranty certificate for details. cULus

762 "RHUL" units shall have 1 year fan and motor warranty.

**Product:**

Fan shall be model STXB / STXBHP / STXBRHUL / STXBHPRHUL as manufactured by S&P USA Ventilation Systems, LLC of Jacksonville, FL, a division of Soler & Palau Ventilation Group.

# Typical Specifications

**Model:** **STXBW / STXBWHP / STXBWRHUL / STXBWHPRHUL**

**Description:** The fan shall be a wall mounted, spun aluminum, belt driven, centrifugal exhaust ventilator. "HP" models include a high pressure wheel, and "RHUL" models include the UL762 listing.

**Standard Construction:**

The fan shall be of welded and bolted construction utilizing corrosion resistant stainless steel fasteners. The spun aluminum components shall be constructed of heavy-gauge aluminum, bolted to an aluminum support structure for rigidity and strength with internal and external reinforcements specifically designed for wall mount installations. The aluminum base shall have continuously welded curb cap corners for added strength and maximum leak protection (UL762 "RHUL" units shall have heavy duty galvanized curb cap). The fan base shall have pre-punched mounting holes. The windband shall have a rolled bead for added strength. The aluminum motor cover cap shall have stainless steel latches to provide easy access into the motor compartment. An integral watertight conduit chase shall be provided through the curb cap and into the motor compartment to facilitate wiring connections (UL762 "RHUL" units shall have external weatherproof wiring connection). The motor, bearings and drives shall be mounted on heavy-gauge steel motor bracket assembly, isolated from the unit structure with neoprene vibration isolators to reduce vibration and sound. The motor base shall be adjustable for maintaining proper belt tension. These components shall be enclosed in a weather-tight compartment, separated from the exhaust airstream and cooled by air isolated from the exhaust. The fan shall include an integral birdscreen (except UL762 "RHUL" units) and standard disconnect switch (except units with two speed and explosion proof motors). The fan shall bear a permanently attached nameplate displaying model and serial number of unit for future identification. 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. Wheel inlet shall overlap an aerodynamic deep spun aluminum inlet cone to provide optimum air and sound performance. Wheel shall be statically and dynamically balanced in accordance with AMCA Standard 204-05, *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 sheave must be factory set to the specified fan RPM range.

**Options and Accessories:**

Optional accessories shall be provided either factory installed or field installed as detailed in the fan schedules.

**Certifications:**

Fan shall be listed by Underwriters Laboratories cULus 705 when specified in the fan schedule. Fan shall be listed by Underwriters Laboratories cULus 762 "RHUL" Power Ventilator for Restaurant Exhaust Appliances when specified in the fan schedule. Fan shall bear the AMCA certified ratings seal for sound and air performance.

**Warranty:**

Manufacturer's warranty shall apply for a period of 5 years (housing, bearings, shaft, and wheel) and 1 year (motor) for cULus 705. See warranty certificate for details. cULus

762 "RHUL" units shall have 1 year fan and motor warranty.

**Product:**

Fan shall be model STXBW / STXBWHP / STXBWRHUL / STXBHPRHUL as manufactured by S&P Ventilation Systems, LLC of Jacksonville, FL, a division of Soler & Palau Ventilation Group.