Typical Specifications

Model: **UBSRDHT**

Description: The fan shall be a belt drive upblast propeller roof fan complete with motor out of the airstream under weather cover, and an insulated belt tube and cover.

Standard Construction: The fan shall be of welded and bolted construction utilizing corrosion resistant fasteners. The heavy duty motor, bearings, and drives shall be mounted to heavy gauge galvanized steel motor and bearing brackets. The remote heavy gauge adjustable motor plate shall be located outside the airstream. The heavy-gauge insulated belt tube and cover isolate the bearings and drives from the airstream. The panel assembly shall be heavy duty G90 galvanized steel complete with a one piece venturi for maximum efficiency. The heavy duty G90 galvanized curb cap shall have fully welded corners for added strength and leak protection. Fan shall have hinged butterfly discharge dampers of G90 galvanized steel construction with a rain channel to prevent rain infiltration. The butterfly damper assembly shall be protected by a heavy duty G90 galvanized steel windband for maximum strength and rigidity. The unit shall include lifting lugs for ease of roof placement. 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.

Propeller: Propeller shall be die formed epoxy coated heavy gauge steel. The heavy gauge steel hub shall be locked to the turned, ground, and polished fan shaft with taper lock bushings. Propeller 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 tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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 two belt fixed pitch sheaves sized for 150 percent of the installed motor horsepower. The motor sheave must be factory selected for 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: Successfully tested by independent laboratory for 1000 degrees F for 15 minutes and 500 degrees F for 4 hours. Exceeds I.R.I. (Industrial Risk Insurers) guidelines as “Power Ventilator for Smoke Control Systems.” Fan shall be listed by Underwriters Laboratories (cULus 705) including UL listing for Canada when specified in the fan schedule.

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

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

Typical Specifications

Model: **UBSRDHT1**

Description: The fan shall be a belt drive upblast propeller roof fan complete with motor out of the airstream under weather cover, an insulated belt tube cover, and 165 degree F fusible link in damper mechanism.

Standard Construction: The fan shall be of welded and bolted construction utilizing corrosion resistant fasteners. The heavy duty motor, bearings, and drives shall be mounted to heavy gauge galvanized steel motor and bearing brackets. The 165 degree F fusible link in damper mechanism shall activate the spring assisted damper doors in the event of electrical failure to provide gravity ventilation. The remote heavy gauge adjustable motor plate shall be located outside the airstream. The heavy-gauge insulated belt tube and cover isolate the bearings and drives from the airstream. The panel assembly shall be heavy duty G90 galvanized steel complete with a one piece venturi for maximum efficiency. The heavy duty G90 galvanized curb cap shall have fully welded corners for added strength and leak protection. Fan shall have hinged butterfly discharge dampers of G90 galvanized steel construction with a rain channel to prevent rain infiltration. The butterfly damper assembly shall be protected by a heavy duty G90 galvanized steel windband for maximum strength and rigidity. The unit shall include lifting lugs for ease of roof placement. 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.

Propeller: Propeller shall be die formed epoxy coated heavy gauge steel. The heavy gauge steel hub shall be locked to the turned, ground, and polished fan shaft with taper lock bushings. Propeller 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 tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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 two belt fixed pitch sheaves sized for 150 percent of the installed motor horsepower. The motor sheave must be factory selected for 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: Successfully tested by independent laboratory for 1000 degrees F for 15 minutes and 500 degrees F for 4 hours. Exceeds I.R.I. (Industrial Risk Insurers) guidelines as “Power Ventilator for Smoke Control Systems.” Fan shall be listed by Underwriters Laboratories (cULus 705) including UL listing for Canada when specified in the fan schedule.

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

Product: Fan shall be model UBSRDHT1 as manufactured by Soler & Palau USA of Jacksonville, Florida, a division of Soler and Palau Ventilation Group.