

Furnish and install Model TXR Extreme Pressure Blowers, as supplied by Twin City Fan & Blower, Minneapolis, Minnesota. Fans shall be of the size and arrangement as indicated in the fan schedule.

PERFORMANCE — Fans shall be tested in accordance with ISO 5801:2017 (air performance) and ISO 3746:2010 (sound performance) or ANSI/AMCA Standard 210 (air performance) and ANSI/AMCA Standard 300 (sound performance).

HOUSINGS — Model TXR Extreme Pressure Blower housings are to be constructed with heavy aluminum casting as required for pulsation-free operation and to maintain shape at operating pressures. Model TXR blowers shall be constructed with a rotatable housing design. The housing design provides for impeller removal on the inlet side. The blower features a solidly-welded steel motor pedestal with heavy plate and angle bracing for positive and smooth operation. Model TXR blowers are available in direct drive Arrangement 4 only and are available in both clockwise (CW) and counterclockwise (CCW) rotation and in Top Horizontal (THD), Bottom Horizontal (BHD), Upblast (UBD) and Downblast (DBD) discharge positions.

IMPELLERS — Impellers shall be designed for high efficiency air handling at relatively low volume and high pressures. Impellers shall be constructed from high strength aluminum or steel. Heavy-gauge blades shall be fixed to the front and back plates. Impellers shall be statically and dynamically balanced. Stainless steel construction is available.

MOTOR AND DRIVE — Motors shall be provided by Twin City Fan & Blower and directly mounted on the blower. A Variable Frequency Drive (VFD) is required to operate the motor and fan. All motors shall be UL recognized.

FINISH AND COATING — The entire fan assembly shall be thoroughly degreased and deburred before application of the paint. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. Aluminum housing shall also be painted.

ACCESSORIES — When specified, accessories such as inlet filters, inlet and outlet silencers, flexible connectors, inlet and outlet flanged connectors, air knives, built-in dampers, vibration sensors, hoses and clamps, shall be provided by Twin City Fan & Blower to maintain one source responsibility.

FACTORY RUN TEST — Prior to shipment, all fans shall be completely assembled and test run as a unit. Each impeller shall be statically and dynamically balanced in accordance with ISO 21940-11 "Mechanical Vibration – Rotor Balancing," Balance Quality Grade G6.3 or ANSI/AMCA 204 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3.

GUARANTEE — The manufacturer shall guarantee the workmanship and materials for its Model TXR Extreme Pressure Blowers for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.