SPECIFICATION SUBMITTAL DATA
PLASTEC SERIES

APPLICATION
PLASTEC® Series blower system designed to operate in highly corrosive and hazardous air applications such as: Laboratories, Chemical / Pharmaceutical Industries, Wastewater Treatment Plants, Petroleum Industries, EV Industries, Aquatic Industries, etc...

MANUFACTURER
PLASTEC® Series blowers shall be manufactured under the authority of PLASTEC Ventilation, Inc. located in Bradenton, Florida.

HOUSING
The housing is manufactured from a robust high-density UV treated polypropylene composite material to ensure superior corrosion and hazardous resistance. Constructed as a single seamless piece, either blow molded or injection molded, to prevent any gas or fume leakage. Split molded housings are not permitted. Housing comes with high-grade stainless-steel hardware, which supports the motor plate to the housing securely. It allows for field reversibility, except for PLASTEC® 35 & 50 models, and can be rotated to any eight (8) standard discharge positions. It's essential to note that the presence of metal within the housing's air stream will not be tolerated. (*Option: Carbon Impregnated Polypropylene (CIP) Spark A compliant housing available upon specific request. See Specification Submittal Data for Explosion-Resistant Series)*

IMPELLER
The impeller shall be of forward-curved type, constructed of robust and uniformly infusion molded high-density polypropylene composite material. The impeller shall be both electronically and dynamically balanced. The blower impeller shall be equipped with a keyed motor hub bushing and O-ring sealed hubcap manufactured from polypropylene material to fully safeguard the motor shaft end from any contact with corrosive gases and fumes. The impeller will be suitable for up to 3600RPM on models PLASTEC® 15, 20, and 25, and up to 1800RPM on models PLASTEC® 30 and 35. *(Option: High-grade stainless-steel impeller available for models PLASTEC® 20, 25, 30 & 35 upon specific request)*

SUPPORT STRUCTURE
The PLASTEC® Series blower system offers multiple optional support stands: 1. A galvanized enamel pickled black coated support stand with high-grade stainless-steel hardware. 2. A high-grade stainless steel support stand with high-grade stainless-steel hardware. 3. A Weather Hood/Pedestal enclosure manufactured from high-density UV treated polypropylene composite material. This enclosure is designed to protect the motor against elements and provide support for the entire blower system. 4. An Aluminum gray powder coated finish Weather Hood/Pedestal enclosure. This enclosure is designed with a reversible inspection access hood, ensuring complete protection for the motor against elements while supporting the entire blower system.

MOTORS
The motors shall be of high premium efficiency, direct drive, heavy-duty ball bearing type, suitable for continuous and/or inverter duty operations with multi-voltage capability. Totally enclosed fan cooled (TEFC) IP55 rated with a 1.15 safety factory. Motors will have an aluminum material construction with heatsink fins throughout, ensuring efficient cooling. Motor features a high-strength high carbon steel shaft, which is electronically and dynamically balanced, specifically selected for continuous operations at indicated rated RPM on the nameplate. Includes an airtight seal around shaft on drive side to prevent any internal motor exposure. All motors comply with IEC, UL, and CSA approval standards. *(Option: Explosion-resistant IP66 rated motors available upon specific request. See Specification Submittal Data for Explosion-Resistant Series)*

MATERIALS OF CONSTRUCTION TEMPERATURE LIMITATION
Polypropylene housing and impeller are designed and approved for continuous option within a temperature range of -40°F to 140°F. Also, capable of handling shot periods of operations at high temperatures, up to 190°F, in 15-minute intervals.

PERFORMANCE
PLASTEC Ventilation, Inc. certifies that the PLASTEC® Series, JET® Series and STORM® Series are licensed to bear the AMCA Seal. The ratings are based on the tests and procedures performed in accordance with AMCA publication 211 and 311 comply with the requirements of the AMCA CRP. Performance certified is for installation type D – Ducted inlet, Ducted outlet. The sound power level ratings shown are calculated per AMCA standard 301. Acoustic values shown are sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end corrections.

WARRANTY
Plastec Ventilation, Inc. warrants its equipment, products, and parts, to be free from defects in workmanship and material under normal use and service for two years (2) after delivery to the first user. Motors carry a one-year (1) warranty. *(See full warranty available in the Installation, Operation & Maintenance Manual)*