

# Submittal Data / Specifications **STORM Series** Blowers with Explosion-Proof Motors & Carbon Fiber Impregnated Polypropylene (CIP) Housing & Impeller

**APPLICATION:**

The STORM Blower is designed to work in highly corrosive air exhaust applications containing potentially explosive atmospheres such as Laboratory Hoods, Chemical Industry, Metal Processing Industries and Water Treatment/Waste Water Treatment Industry processes. Especially those with higher static pressure and lower air volume requirements.

**MATERIALS OF CONSTRUCTION TEMPERATURE LIMITATION:**

Carbon Fiber Impregnated Polypropylene Housing is recommended up to 190° F. The product has been designed, manufactured and controlled within the guidelines of a quality insurance system in accordance with ISO 9002.

**HOUSINGS: CARBON FIBER IMPREGNATED POLYPROPYLENE**

Housing shall be constructed of strong high-density UV treated polypropylene for maximum corrosion resistance. Polypropylene Housing shall be impregnated with Carbon fibers. Housings shall be made of one single piece to completely avoid leaks. Split molded housings are not acceptable. Assembly hardware shall be stainless steel. Housings shall be rotatable to any of the 8 standard discharge positions. Metal in the air stream will not be tolerated.

**IMPELLER/WHEEL: CARBON FIBER IMPREGNATED POLYPROPYLENE**

Impellers/Wheels shall be forward-curved type and constructed of uniformly molded carbon fiber impregnated polypropylene blades. Impellers/Wheels shall be both electronically and dynamically balanced. Blower Impellers/Wheels shall be supplied with an integral motor shaft bushing made of carbon fiber impregnated polypropylene. Impellers/Wheels shall be supplied with Polypropylene Hubcap to protect end of motor shaft. Impellers/Wheels are rated for up to 3450 RPM.

**MOTOR SUPPORT:**

Standard stand to be constructed of galvanized steel with enamel coating. Optional polypropylene motor support or grey powder coated cast aluminum motor support for complete motor protection shall be provided as specified.

**CONDUCTIVE:**

Housing Assembly shall be conductive to allow grounding to earth.

**ANTI-STATIC:**

Blowers shall be static resistant (anti-static) to greatly reduce the risk of discharge of electrostatic energy.

**GROUNDING:**

Impellers/Wheels shall be effectively grounded to earth when installed on the motor shaft through the motor grounding. Housing shall be grounded to earth as specified by local electrical code.

**SPARK RESISTANT:**

Blower and Impeller/Wheel shall be constructed of spark-resistant material.

**ATEX:**

PLASTE<sup>®</sup>C Carbon fiber Impregnated Blowers meet Declaration of Conformity for applications with explosive atmospheres as required.

**MOTORS:**

Motors shall be direct drive and of heavy-duty ball bearing type for continuous duty with voltage and phase as specified. Motors shall be EPFC (Explosion-Proof Fan Cooled). Motor shall be Class I Group C and D, Class II Group F and G, Division I and Division II as specified. Motor shall be UL and CSA approved for safety. IEC Ex motors for applications requiring ATEX (European Standards for explosive atmospheres conformity) motors are available as specified.

**PERFORMANCE:**

Fan performance shall be based on tests conducted in accordance with AMCA 210-85 and ISO 5801.

**WARRANTY:**

This equipment is warranted to be free from defects in material and workmanship for two years from date of **original** shipment. Any units or parts which prove to be defective and are reported during the warranty period will be replaced at our option when returned to our factory, transportation prepaid **by the sender**. Deterioration of wear by heat, abrasive action, chemicals, improper installation or operation or lack of normal maintenance shall not constitute defects, and are not covered by warranty. **Transportation to and from the factory for warranty repairs is not covered under warranty and is the sole responsibility of the owner of the equipment.**

PROJECT				ARCHITECT				
CONTRACTOR		DATE	SUBMITTED BY		ENGINEER			
<b>SPECIFICATION</b>								
Fan Position	Model #	CFM	In. WG	RPM	HP	Voltage/Phase	Qty	Accessories

*Plastec Series*

*Storm Series*

*Introducing...*

**PLASTEC® Corrosion-Resistant Blowers**  
WITH CARBON IMPREGNATED POLYPROPYLENE  
FOR EXPLOSIVE ATMOSPHERES APPLICATIONS



**ANTI-  
STATIC**

**ADDED  
STRENGTH**

**SPARK RESISTANT**

**CONDUCTIVE**

**ATEX CONFORMITY**

Superior Quality ■ Durability ■ Low Noise Level  
Availability ■ Cost Effective ■ Ease of Installation

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