



# Submittal Data

## Plastec Stainless Steel Blower Series Model PSS35BI

### Description

Centrifugal type fans suitable for operation in corrosive air applications. All structural parts of the blower assembly to be made of 316 Stainless Steel and supplied with a 316 Stainless Steel Motor Support Bracket. The PSS35BI can be supplied with optional equipment as specified including all stainless steel motors TEFC, TENV and EPFC.

### Specifications

Supply, exhaust or return air fans shall be direct drive utility fan type, AMCA arrangement 4 with single width, single inlet housing in CCW or CW rotation as specified.

### Construction

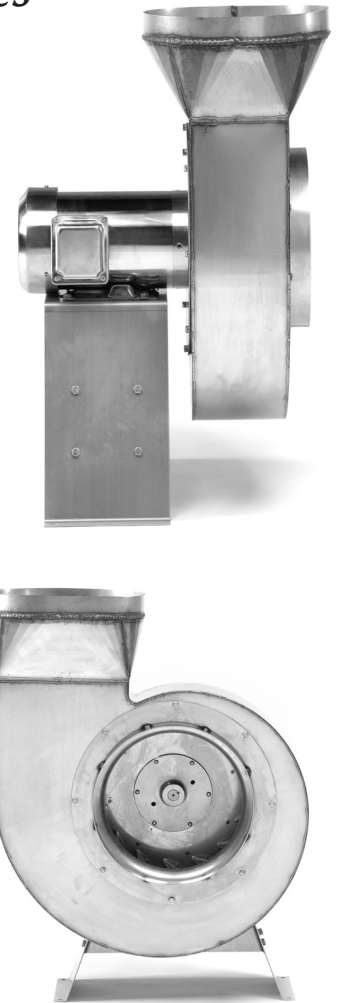
Housing shall be constructed of 316 Stainless Steel with all seams welded to prevent air leakage and shall be field changeable to any of 8 standard discharge positions. The fan shall be supplied with Teflon Gaskets to provide an anti-corrosive seal between the Motor Plate, Inlet Flange and Housing. Fan shall be supplied with a Motor Support Bracket constructed of stainless steel (316) to supply rigid support of fan and wheel (Impeller) operation. Fan Wheel (Impeller) shall be Backward Inclined type and constructed of 316 Stainless Steel. Fan Wheel (Impeller) shall be suitable for RPM up to 3450 and electronically and dynamically balanced. The fan wheel (Impeller) shall be supplied with 316 stainless steel Hub and Hub Cap with a Teflon Gasket for sealing/shielding end of motor shaft from corrosive air stream. Inlet Cone shall be carefully matched for maximum performance and efficiency. Fan Inlet and Outlet Flange will be round for easy coupling to round duct.

### Motors

The motor shall be heavy duty ball bearing type rated for continuous duty with voltage and phase as specified. Motors are to be Totally Enclosed Fan Cooled (TEFC) or Totally Enclosed Non Ventilated (TENV) as specified. A variety of motors may be specified for the PSS35BI as follows: Wash down Duty (including all Stainless Steel), Dirty Duty, Explosion-Proof Class I Group D, Class II Groups F and G, Division 1/Division 2 or other types as specified. Specify EPACT (Standard) Efficiency or Premium Efficiency as required.

### Performance

Fan performance shall be based on Test Method per ANSI/AMCA Standard 210-99 and AMCA Standard 300, Figure 2 (Inlet Sound), Ducted Inlet, Ducted Outlet.



**Plastec Stainless Steel Fans (PSS) shall be manufactured under the authority of  
Plastec Ventilation, Inc., Bradenton, Florida.**

PROJECT								ARCHITECT			
CONTRACTOR			DATE		SUBMITTED BY			ENGINEER			
SPECIFICATION											
FAN POS.	MODEL NO.	CFM	IN. WG.	RPM	WATTS HP	AMPS	dB(A)	PHASE VOLTAGE	QTY.	OPTIONAL EQUIPMENT	

**WARNING! DO NOT use in HAZARDOUS ENVIRONMENTS** where fan's electrical system could provide ignition to combustible or flammable materials unless it is specifically built for hazardous environments. Plastec Ventilation, Inc. reserves the right to substitute material or change product specifications.