

## F11 Ventilation Blower

**Technology Description**- Centrifugal blower and filter housing assembly with electric motor. Filtered air intake, distributes air inside tank for ventilation of tank head space, designed to evacuate volatilized THM's, gases and other contaminants from the head space.

**Part Number** - 101871

**Materials of Construction** - T316 stainless steel, with gray epoxy or powder coating.

**Duct Sizing Requirement** - Ø 24" minimum, or equivalent open area.

**Air Filters** - Six Filter Elements, 98%+ removal efficiency to 10 micron, synthetic felt air filter. Each rated for 3000 CFM (85 m<sup>3</sup>/min), 30ft<sup>2</sup> surface area, washable, galvanized steel reinforcement frame Dimensions: 24" X 24" X 2"  
Replacement Filters PN: 20012066

**Air Flow Rate** - Tank gravity vents must allow for 450 square inch (after screens and mesh) minimum open surface area per blower.



Figure 1: F11 Blower

Blower Performance (SCFM) at varying Static Pressures (Inches of Water)				
0"	1"	2"	3"	4"
11000	10250	8800	7750	7000

**Vibration Isolation** - Secured to T316SS skid, separated by rubber isolation pads properly sized for blower weight and operation.

**Mounting** - Vibration isolation pads anchor to flat concrete surface via concrete wedge anchors. Minimum 8ft x 8ft x 6in concrete pad or footprint required.

**Electrical Requirements** - Requires 230VAC or 460VAC three-phase, 60Hz power. 600VAC three-phase 60Hz power requires special motor. Ixom recommends secondary disconnect to be located near blower equipment. Three-phase motor protection is recommended. *All conduit, conductors, switches, breakers, emergency stop buttons, control panels and other controls shall be installed in accordance to all NEC, State, and local regulations. (Not supplied by Ixom)*

**Motor** - 7.5HP Baldor TEFC, 1770rpm induction motor, designed for continuous operation, low power requirement, direct drive, no gearbox and no lubrication schedule required. No heater. Estimated Decibel - 80dB @ 5ft, 70dB @ 25ft, 55dB @ 100ft. Max Amps: 7.50 A @ 575 VAC/3PH \***Special Motor**, 9.50 A @ 460 VAC/3PH, 19.5 A @ 230 VAC/3PH. \***Single-phase motor not available.**

**Coupling and Bearings** - Double supported fan wheel using quality Baldor Dodge bearings and coupling.

**Wiring** - 4-conductors required (L1, L2, L3, Gnd). Electrical TEFC motor wiring box for conduit connection and electrical splicing. Multiple locations available for conduit entry through air filter housing.

### Shipping Size / Weight

• **Crate** - 86in x 86in x 64in (2.2 m x 2.2 m x 1.6 m) / 1600 lbs (730 kg). *Exact weight and dimensions may vary dependent on blower and roof mount configuration.*

**Maintenance / Warranty** - Limited maintenance. Limited 2-year warranty. See GridBee THM Removal Systems Limited Replacement Warranty for more details.

Subject to change without notice.