

SECTION 23 34 00 HVAC Fans

PART 1 GENERAL

1. SUMMARY

- A. The portable fan is the model scheduled with the capacities indicated. The fan shall be furnished with a power cord and variable speed control.

2. RELATED SECTIONS

- A. 23 00 00 Heating, Ventilating, and Air Conditioning (HVAC)
- B. 26 00 00 Electrical

3. REFERENCES

- A. National Fire Protection Agency (NFPA)
- B. Underwriters Laboratory (UL)
- C. Canadian Standards Association (CSA)
- D. National Electric Code (NEC)
- E. International Organization for Standardization (ISO)

4. SUBMITTALS

- A. Shop Drawings
- B. Product Data Sheets
- C. Revit Files
- D. Installation Instructions
- E. Schedule

5. QUALITY ASSURANCE

- A. Certifications
 - 1. The fan assembly, as a system, shall be ETL-certified and built pursuant to the guidelines set forth by UL standard 507 and CSA standard 22.2 No. 113.
- B. Manufacturer Qualifications
 - 1. The fan and all accessories shall be supplied by Big Ass Fans, which has a minimum of 10 years of product experience.
 - 2. The manufacturer shall be ISO 9001-certified.

6. DELIVERY, STORAGE, AND HANDLING

- A. The product shall be delivered in original, undamaged packaging with identification labels intact. The fan shall be new, free from defects, and factory tested.
- B. The fan and its components shall be stored in a safe, dry location.

7. WARRANTY

- A. The manufacturer shall replace any products or components defective in material or workmanship for the customer free of charge (including transportation charges within the USA, FOB Lexington, KY), pursuant to the complete terms and conditions of the Big Ass Fans Non-Prorated Warranty in accordance to the following schedule:

Item	Warranty Period
Hub and airfoils	Lifetime* (parts)
All other components	3 years (parts)
Refurbished units	6 months (parts)

* "Lifetime" means a period ending seven (7) years after Big Ass Fans discontinues manufacturing the product, as such period is defined by Big Ass Fans, but in no event shall this period be less than 3 years from the date that the Warranty

Period commences, as defined above.

PART 2 PRODUCT

1. MANUFACTURER

- A. Delta T Corporation, dba Big Ass Fans, PO Box 11307, Lexington, Kentucky 40575. Phone (877) 244-3267. Fax (859) 233-0139. Website: www.bigassfans.com.

2. DESCRIPTION

- A. Complete Unit
 - 1. The fan assembly shall be ETL-certified and built pursuant to the guidelines set forth by UL standard 507 and CSA standard 22.2 No. 113.
 - 2. The fan shall be equipped with a variable speed control, heavy duty locking casters, and a fully integrated frame/cage assembly for mobile use.
 - 3. The fan's airfoil diameter shall be 70 in. (178 cm) and the total fan height with casters shall be 78 in. (198 cm).
- B. Airfoil System
 - 1. The fan shall be equipped with 6 aluminum airfoils.
 - 2. The outer end of each airfoil shall be equipped with a plastic tip to minimize wind noise.
- C. Motor Assembly
 - 1. The fan motor shall be a permanent magnet brushless motor rated for continuous operation at maximum speed.
 - 2. The fan shall require electrical input of 110–125 VAC or 200–240 VAC, 50/60 Hz, 1 Φ .
- D. Frame and Cage
 - 1. The fan shall be equipped with a pre-assembled support frame and wire mesh cage.
 - 2. The cage shall be OSHA-compliant and shall consist of 4 sections that are removable for cleaning and servicing.
- E. Casters. The fan shall be equipped with 4 heavy-duty locking casters.
- F. Controller. The fan controller shall include a rotary dial for controlling the fan's speed and an LED indicator light to identify system faults.

PART 3 EXECUTION

1. PREPARATION

- A. The fan location shall meet the electrical requirements listed in the product installation guide.

2. INSTALLATION

- A. The fan shall be installed and operated according to the product installation guide.
- B. The fan shall be operated on a flat and level surface. During operation, the fan casters shall be in the locked position.
- C. The fan cord shall not be run under carpeting, or covered with rugs, runners, or similar coverings. The cord shall not be routed under furniture or appliances.
- D. The fan shall not be operated with a damaged cord or plug.
- E. The fan shall not be located where it will be continuously subjected to wind gusts or in close proximity to the output of HVAC systems or radiant heaters.

END OF SECTION