



## **SERIES 07T GUIDE SPECIFICATION**

### **TURBO BLOWER**

The direct drive Turbo Blower shall be manufactured by Hartzell Air Movement, Series 07T, ARR.G. 4. Rotation, as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan housing shall be field rotatable in 22.5° increments and the discharge shall be any of six AMCA standard positions. Down Blast and Bottom Angular Down discharge position shall be available with special construction. The fan shall be packaged, completely assembled, and ready to install.

The fan housing shall be hot rolled steel, suitable for temperatures up to 200° F. The fan housing shall have continuously welded seams and be a minimum of 10 Ga. Standard fan inlet and outlet shall be flanged to match ANSI hole pattern.

The fan wheel shall be fabricated aluminum alloy with spun tapered inlet. The blades shall be inclined for optimum efficiency. The wheel shall incorporate a tapered hub bore. Wheel shall be secured to drive shaft by means of a tapered bushing. Fan wheel inlet diameter shall match fan inlet inner diameter. Use of fan inlet inner diameter larger than wheel inlet diameter shall not be acceptable.

The fan assembly shall be dynamically balanced at the Hartzell factory prior to shipping. Fans shall be balanced to the American National Standards Institute, Std. S2.19-1989 "Balance Quality of Rotating Rigid Bodies", and Grade G6.3. Fans shall be manufactured in accordance with Hartzell's standard quality assurance procedures. The fan performance shall be based on tests conducted in Hartzell's AMCA accredited laboratory and conducted in accordance with the latest revision of AMCA Standard 210 for air performance and AMCA Standard 300 for sound.

### **ARRANGEMENT OPTIONS:**

The Turbo Blower shall be available in arrangements 1, 8, 9, 9M, and 10. The fan bearings shall be heavy duty, self-aligning ball or roller type (depending on fan size, motor horsepower, and performance) and are relubricatable for continuous service. They shall have a minimum L10 life of 50,000 hours. The belts shall be an oil, heat, and static resistant type oversized for continuous duty. Couplings for arrangement 8 fans shall be selected for 2.0 service factor for continuous duty.

### **ACCESSORIES:**

- Motors - OEDP standard. TEFC and other special motors can be furnished upon request.
- Inlet - Slip inlet or venturi inlet shall be available.
- Companion Flange - Companion flange for inlet and outlet flanges shall be available.
- Flexible Connectors - Flexible connectors to match flange size shall be available.
- Inlet Filter - Inlet filter shall be available to bolt to flanged fan inlet.
- Silencer - Silencer for use on inlet or outlet of fan shall be available. Both ends of silencer shall be flanged.
- Support Leg - Support leg shall be available for use with silencer or filter unit.
- Outlet Damper - Manually controlled outlet damper shall be available.
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- Drain - Pipe coupling welded to the housing at its lowest point; female pipe with threaded plug.
- Bolted Access Door - For inspection and cleaning of wheel, bolted and gasketed.
- Vibration Isolators - Rubber-in-shear or spring type available.
- Guards - Provides protection when unit is at a working level. Inlet, outlet, belt, coupling and shaft guards are available.
- Special Construction - Other materials such as stainless steel and aluminum are available.
- Weather Cover - Combines guarding of motor and drive as well as providing protection from the weather.
- ARRG. 1 Sub-Base - Common structural support for ARRG. 1 fan and motor.
- 9M Sub-Base - Motor sub-base to accommodate larger motor in horizontal position.
- Coatings - Industrial grade air dry enamel is standard. Hot dipped galvanized, epoxy, inorganic zinc, and catalyzed coal tar epoxy coatings are available upon request.