

DIRECT DRIVE PLUG FANS

APPLICATIONS

The Direct Drive Plug Fans are designed and constructed for applications where the system plenum acts as the fan housing. This compact design reduces overall system size and cost achieving operating efficiencies nearly equal to conventional housed fan equipment. The Direct Drive Plug Fan also eliminates the need for drive components such as bearings and v-belt drive. Its mounting panel permits assembled-unit installation to any well-supported plenum wall.

DESIGN & CONSTRUCTION FEATURES

- Thirteen sizes...12" to 49" wheel diameters (Class 2, 3, & 4)
- Pressures to 20" WG
- Capacities from 1,200 to 85,000 CFM
- Operating temperatures up to 450° F
- Installation/mounting panels allow for assembled unit installation in horizontal & vertical motor shaft positions. Available with up to 2" insulation
- Utilizes standard length motor shafts
- Three wheel types: AcF (AirFoil), ECF-9 (AirFoil), and PLR (single thickness)
- Shaft cooler guard
- Narrow width wheel construction is standard, allowing operating performances to be fine-tuned around motor synchronous speeds

Welded construction - heavy-gauge welded components provide structural strength and durability for extended service life.

Precision balancing - all wheels are dynamically balanced before final assembly. After assembly, all fans are fine-tune balanced on rigid test fixture at the specified running speed.

Finish - industrial grade two-coat paint system consisting of one prime coat and one finish coat of high temperature gray air-dried enamel.

OPTIONAL ACCESSORIES

1. SHAFT SEAL

Ceramic felt shaft seal elements located by mounting/insulation panel.

2. AMCA SRC

May require extended motor shaft.

• AMCA B (Wheel) SRC

To include a spark-resistant wheel and buffer at shaft-hole opening. *(Max temp 200° F)

• AMCA C (Buffer) SRC

To include a spark-resistant alloy inlet cone, buffer ring-welded to drive-side plate and buffer at shaft hole.

3. INTEGRAL INLET CONE ASSEMBLY

Factory located and set inlet cone assembly to assure proper wheel-to-cone fit for optimum performance.

4. SPECIAL COATINGS

Special coatings for corrosive applications are available.

5. HOUSINGS

Designed to maximize performance with AcF, PLR or ECF wheels and to direct airflow to a specific location in the system. Housings are continuously welded and furnished with mounting studs on inlet side, large cutouts on both sides for wheel removal, and flat surface on drive side for easy installation.

6. ALLOYS

Special alloys including stainless steel and aluminum available on request. *(Max temp 200° F)

7. INLET GUARD

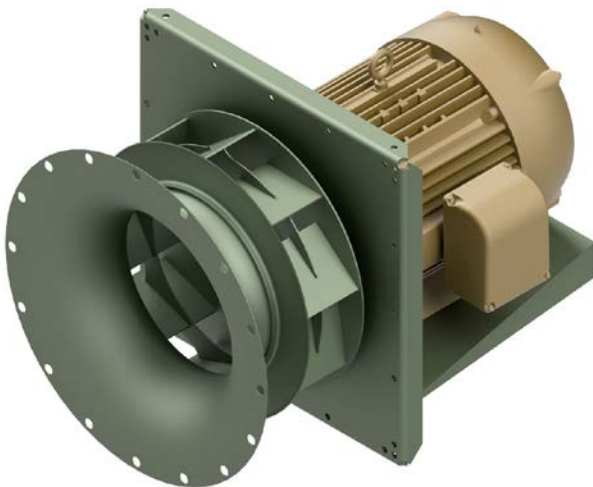
Welded wire guard mounted to inlet cone. Maximum temperature 200° F.

* (Aluminum Wheels Only)



Size 22 Class 2 PLR Insulated Direct Drive Plug Fan with Integral Inlet Cone Assembly

Size 22 Class IV PLR Uninsulated Direct Drive Plug Fan



THE NEW YORK BLOWER COMPANY
7660 Quincy Street
Willowbrook, IL 60527-5530

Visit us on the Web: <http://www.nyb.com>
Phone: (800) 208-7918 Email: nyb@nyb.com