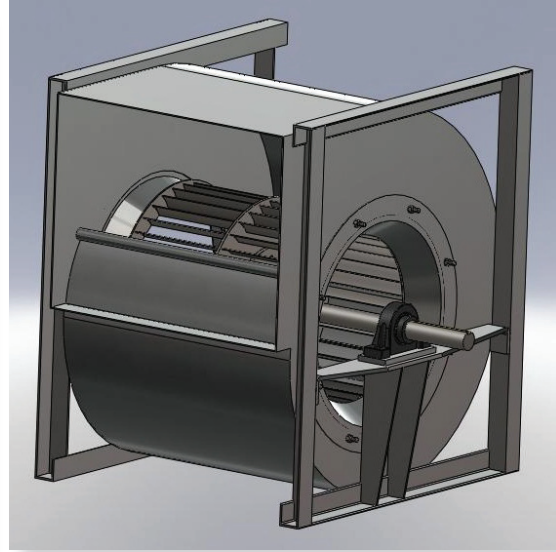


F - FORWARD CURVED FANS

IAP's type F forward curve high air volume fan is most commonly used in elevated temperature applications requiring circulation of large volumes of air at low pressures. Excellent low speed fan choice for application as an air kit or plug fan in ovens, dryers and furnaces.

Plug fan for an oven application with 316 stainless steel wheel and round insulated plug.



General ventilation air handling design for use in a plenum or out of a plenum with ductwork.

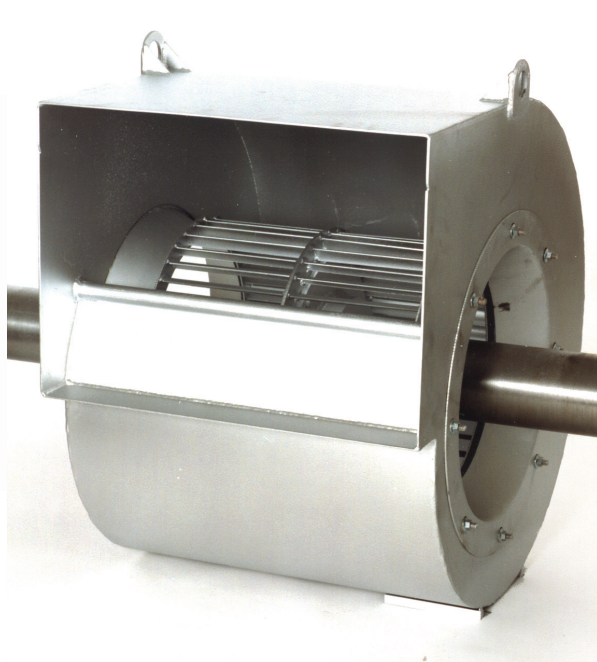
Frequently constructed of stainless steel and nickel alloys for operation at elevated temperatures, type F fans, are also well suited for general industrial ventilation at lower temperatures. When supplied in a standard centrifugal fan configuration, type F fans, utilize the same continuously welded heavy gauge housings and steel plate pedestals as the Backward Inclined & Airfoil fans. Most common AMCA arrangements are 3 DWDI for general ventilation or air kits and 9 SWSI for plug applications. All wheels are statically and dynamically balanced prior to assembly and all assembled units are final trim balanced at operating speed.



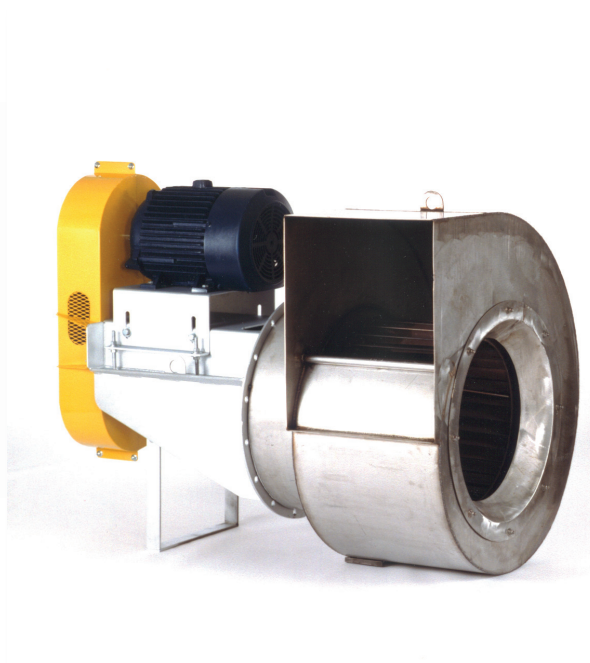
Type F wheel characteristics include even airflow distribution, relatively slow fan speeds, and low noise levels. While an excellent large volume mover, type F fans should not be used in applications where materials can build up in the valley / curve of the blade and cause imbalance.

Low speed, quiet operation and large volume capability make the type F industrial fan well suited for applications in general ventilation air handlers and high temperature clean air industrial systems.

A wide range of available modifications and accessories make the type F suitable for industrial applications which include: GENERAL VENTILATION, COOLING & HEATING SYSTEMS, BATCH OVENS, DRYERS AND CURING FURNACES.

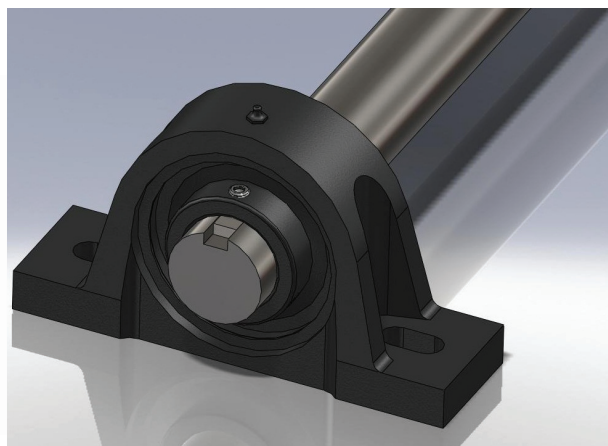


Available in arrangement 3 DWDI air kit as a parts package. Parts packages can include wheel(s), inlet cones, housing(s), shaft, bearings and bearing cooling wheels. Air kit packages can be custom designed to meet the user's precise configuration by utilizing wider and narrower wheels and housings.



Available in plug arrangements with option for either a square or round insulated plug and with or without a housing.

Custom is our Standard! Doing the extra little things to insure extended equipment life and optimum performance.



Air kit bearings typically mount outside of the furnace or oven to keep them out of the airstream. Elevated furnace temperatures may still result in thermal expansion and axial growth of the fan shaft which can cause binding of the expansion bearing. To overcome this problem; IAP has designed a unique modified high temperature expansion bearing collar with set screw and key to allow for excessive thermal shaft expansion. The configuration allows the shaft to slide axially in the bearing collar but remain fixed in the radial direction (depicted left).

CAUTION NOTE: Placement of burners should not be in close proximity to fan inlet(s), as this could produce temperature spikes in the fan airstream and premature fan failure.