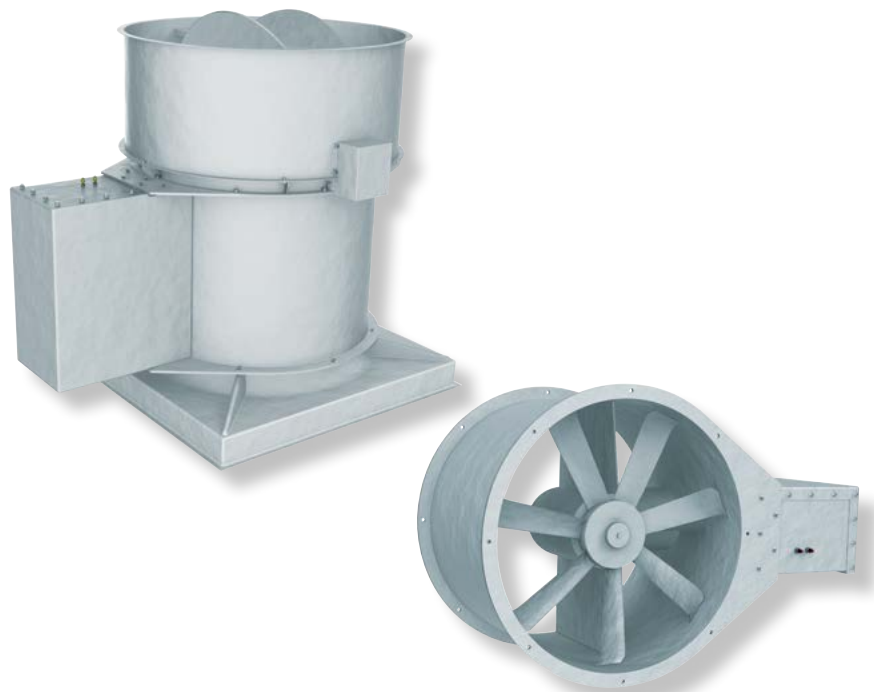




INDUSTRIAL PROCESS AND
COMMERCIAL VENTILATION SYSTEMS

FIBERGLASS AXIAL FLOW FANS

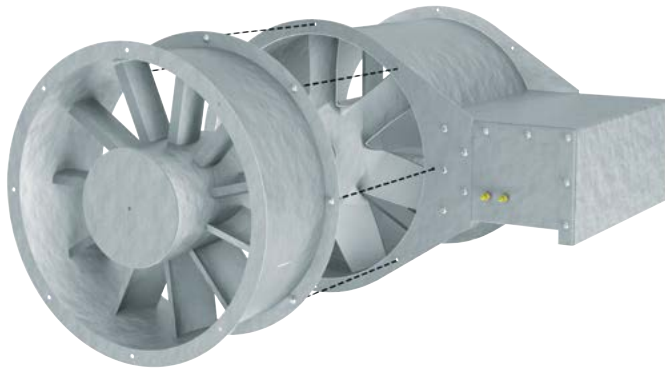
Models TCWPF | PRVF | TAMF | TAHF | VAHF





Overview

TCWPF | PRVF | TAMF | TAHF | VAHF



Vaneaxial Model VAHF

Twin City Fan & Blower axial flow FRP (Fiberglass Reinforced Plastic) fans are built in a variety of sizes and designs as shown in this catalog. Twin City Fan & Blower also builds an FRP single-width centrifugal model, an FRP high-pressure blower and an FRP inline centrifugal model. Corrosion resistance is the primary consideration when selecting a fiberglass fan. The standard resin used is selected for resistance to a large variety of corrosive agents. When a corrosion resistant fan is required to withstand chemicals which attack glass or polyester resin, special construction features can be supplied. For reference, a Corrosion Resistance Guide is included on page 6.

All models shown in this catalog have housings and fan wheels made of continuous glass lay-up using a combination of fabric-woven roving and mat.

Belt Driven Models

The bearing supports are integral with the housing and motor support flanges. The bearing bases are reinforced with cross-strutting, constructed out of glass and resin. Fan shafts are stainless steel. Bearing covers are sealed, but still allow for access to the bearings. Grease lines extend to outside the housing for ease of maintenance. The motor is located outside the airstream, with protective motor covers standard on all models.

Advantages of Fiberglass Fans

- Superior corrosion resistance to gases and vapors.
- Lower maintenance costs.
- More economical than stainless steel construction.
- Lighter weight than steel.



Roof Ventilator Model PRVF
(Stack Cap & Curb Base)

Model PRVF – Type FG Roof Ventilator

The same advantages of the Model TAMF, TAHF and VAHF fans can be obtained in a roof ventilator assembly by adding a fiberglass stack cap, curb base and motor cover. See page 5 for details. Performance data for the Model PRVF is shown on pages 8 through 9.

Sizes and Performance

14" to 60" wheel diameters
Airflow to 50,800 CFM
Static pressure to 1.5" w.g.



For complete product performance, drawings and available accessories, download our Fan Selector program at tcf.com.

Model TAHF – Type TF Tubeaxial

The Model TAHF is the belt driven tubeaxial fiberglass axial flow fan utilizing the type TF, 7-bladed propeller. It fulfills the need for a corrosion resistant fan with more performance capability and lower noise level. The propeller, housing, bearing base and inner support structures are constructed of glass reinforced plastic. Performance data for the Model TAHF is shown on pages 12 through 14.

Sizes and Performance

12" to 60" wheel diameters
Airflow to 83,200 CFM
Static pressure to 2.5" w.g.

Model VAHF – Type TF Vaneaxial

Adding a vane section to the Model TAHF tubeaxial fiberglass axial flow fan converts it to a Model VAHF vaneaxial fan for improved performance. Performance data for the Model VAHF is shown on pages 15 through 17.

Sizes and Performance

12" to 60" wheel diameters
Airflow to 81,200 CFM
Static pressure to 4" w.g.

Model TAMF – Type FG Tubeaxial

The Model TAMF is the standard Twin City Fan & Blower FRP belt driven tubeaxial with many years of proven success in numerous and varied applications. It is furnished with the efficient semi-pressure type FG 7-bladed propeller on sizes up to 48 and the type FG 6-bladed propeller on sizes 54 and 60. Performance data for the Model TAMF is shown on pages 10 and 11.

Sizes and Performance

14" to 60" wheel diameters
Airflow to 51,900 CFM
Static pressure to 1.5 inches w.g.

Model TCWPF – Type FG Direct Drive Panel Fan

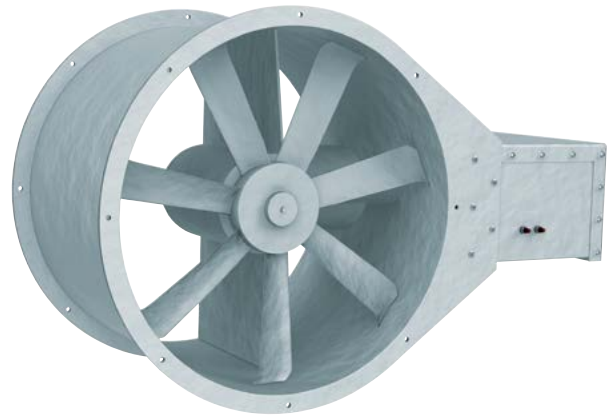
The type FG 7-bladed propeller is utilized in the Model TCWPF direct drive panel fan. The Model TCWPF panel fan is constructed from corrosion resistant plastic. See page 7 for performance data.

Sizes and Performance

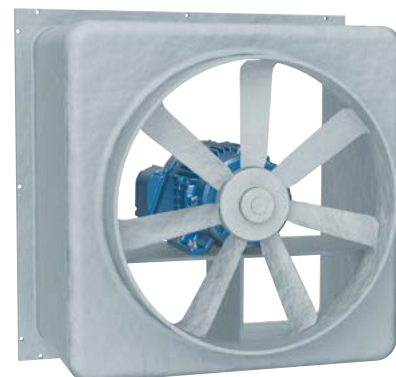
12" to 48" wheel diameters
Airflow to 41,900 CFM
Static pressure to 1" w.g.



Tubeaxial Model TAHF



Tubeaxial Model TAMF



Direct Drive Panel Fan
Model TCWPF

Corrosion Resistant

All airstream parts of fiberglass reinforced plastic have resistance to most chemicals. The fiberglass propellers are standard with vinyl ester resin (optional on housing). See “Corrosion Resistance Guide” on page 6.

Propeller

The type TF and FG fan propellers are constructed using a resin transfer method (RTM). Glass cloth is cut to various template sizes to form laminations which are fitted into a mold. Glass is impregnated with “vinyl ester” in a low-pressure injection process. The fan wheel is cured under pressure in the mold, forming a monolithic structure.

Housing

The fan housing is polyester resin reinforced with cloth and mat with integral flanges. The bearing, base and drive enclosure is supported by gussets interlocked into and taped to the outer housing. These structural parts are all of laminated glass and resin.

Product Finish

All fiberglass parts are coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal and provide protection from ultraviolet light. This results in a smooth finish. All steel parts are finished with light gray epoxy paint.

Vane Section

The vane section is of all laminated glass and resin construction with curved guide vanes interconnected with an inner and outer shell.

Fire Retardant Resin

Standard fire retardant resin reduces the resin’s tendency to burn, attaining a flame spread rating of 25 or less.

Shaft

The 316 stainless steel step shaft is machined and keyed with the end drilled and tapped. The propeller is held tightly against the shaft shoulder by a stainless steel retainer bolt and washer in the end of the shaft.

Shaft Seal

Heavy Viton-type that rides against a heavy Teflon wear plate to protect the shaft and bearings from contact with the airstream. Seal is not gas tight.

Bearings

The bearings are sealed pillow block type with grease lines extending to the outside of the fan housing for ease of maintenance.

Motor Base

A steel motor base with slide rail arrangement for belt adjustment is bolted between wide gussets integral with the flanges of the fan housing. The standard motor cover is made of fiberglass reinforced plastic and extends over the entire base, motor and drive assembly.

Drives

All belts and sheaves used on Twin City Fan & Blower fiberglass fans are manufactured by Browning and are selected to provide additional allowances of 1.3 to 2 times the normal satisfactory capacity.



OPTIONAL CONSTRUCTION

Special Fiberglass Materials

Please contact the factory to ensure a suitable material is selected for the specific application.

- **Vinyl Ester** — Provides increased corrosion resistance to stronger acids, chlorine and oxidizing agents. For use in industrial applications such as chemical and water treatment plants, and commercial applications where urban or salt air corrosion exists. Fiberglass propellers are standard with vinyl ester resin (optional on housing).
- **Surface Veil** — Produces a smooth reinforced final surface with greater corrosion resistance and contains UV inhibitor.

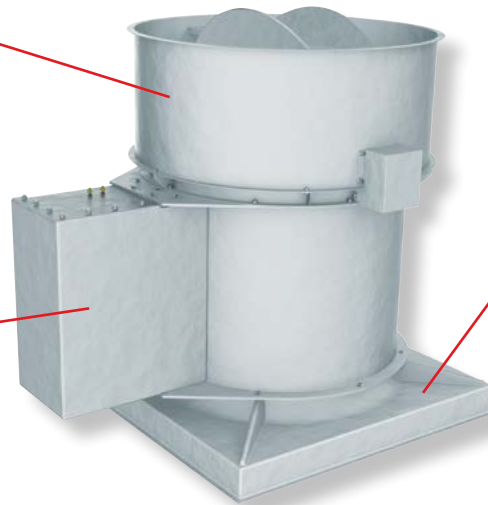
Spark Resistant Construction

Spark resistant construction for fiberglass fans is recommended when the fan is handling explosive fumes. Although fiberglass is a non-sparking material, it can build and retain a static charge that can be potentially hazardous. With spark resistant construction, the fan is statically grounded by graphite impregnation to reduce a static charge build-up.

For roof mounted exhaust applications, the Model TAMF tubeaxial fan can be converted into a roof ventilator (Model PRVF) with the addition of a fiberglass stack cap and curb base. Performance data for the Model PRVF is shown on page 8. For Model TAHF or VAHF roof ventilator assembly data, add 1/8" for stack cap loss to the standard tubeaxial/vaneaxial performance ratings, or contact factory. Note: A minimum flow rate is required to fully open the stack cap damper blades (1700 FPM outlet velocity) Max 3100 FPM.

Stack Caps — Designed with backdraft dampers that protect the interior of the building from precipitation when the fan is shut off.

Motor Covers — Designed to protect the motor and drive parts from the weather.



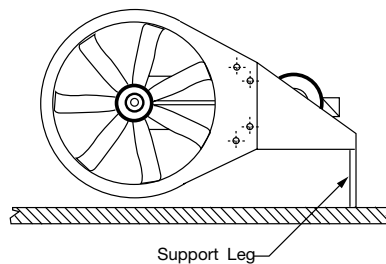
Curb Bases — Designed for mounting vertical fans on roof curbs and to provide easy installation of the unit.

Installing Fiberglass Reinforced Plastic (FRP) Fans

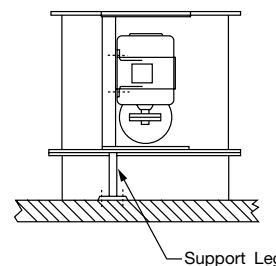
The installation of FRP vaneaxial and tubeaxial fans requires some special considerations. The material is very strong, but it is more flexible than steel; therefore, large fans with heavy motors should not be expected to support themselves by the flange mounting alone. A fan mounted in the vertical position should not be mounted to support a heavy stack without some reinforcement. It is usually satisfactory to mount fans having motors up to 3 HP by the flanges alone. Match drill the flanges with the mating duct flange, using eight equally spaced holes, 7/16" diameter to accept a 3/8" bolt when bolting the fan to ductwork. Use a large washer under the head and nut to increase the bearing area, and do not tighten these to the point of crushing the flange. If the fan has a 5 HP or larger motor, it is good practice to attach a support leg or hanger rod to the outer edge of the motor base plate to take some of the weight. If the fan is to be mounted on the roof with a high discharge stack, brace the stack just above the fan so that not all of the stack weight is carried on the fan mounting flanges.

Accessibility for service and cleaning is a very important consideration in installing an FRP fan. They should be mounted for easy removal for cleaning and service. A removable section of duct on either side of the fan may be installed to provide access. Access doors are available as an option.

Horizontal Mount



Vertical Mount



CORROSION RESISTANCE GUIDE

The following table lists gases, fumes, and vapors that are commonly exhausted from chemical processes. Using the "Legend of Symbols," the table indicates how Twin City Fan & Blower's standard fiberglass fans will withstand exhausting the particular gas, fume, or vapor.

Legend of Symbols

- S — Satisfactory Application
- L — Limited Life or Life Tests Incomplete
- U — Unsatisfactory

This data is based on a maximum temperature of 200°F (93°C).

| APPLICATION | SATURATED VAPOR | DRY VAPOR | EXCESS DRY AIR | APPLICATION | SATURATED VAPOR | DRY VAPOR | EXCESS DRY AIR |
|----------------------------------|-----------------|-----------|----------------|-----------------------------|-----------------|-----------|----------------|
| ACIDS | | | | ALKALINE SALTS | | | |
| Acetic | L | S | S | Sodium Bicarbonate | L | S | S |
| Aqua Regia | U | U | L | Sodium Carbonate | L | S | S |
| Boric | S | S | S | Sodium Chloride | L | S | S |
| Butyric | S | S | S | Sodium Cyanide | L | S | S |
| Carbonic | S | S | S | Trisodium, Phosphate | L | L | S |
| Chromic | S | S | S | ALKALIS | | | |
| Citric | S | S | S | Ammonium Hydroxide | U | L | S |
| Formic | L | S | S | Calcium Hydroxide | U | L | S |
| Hydrochloric | S | S | S | Potassium Hydroxide | U | L | S |
| Hydrocyanic | L | S | S | Sodium Hydroxide | U | L | S |
| *Hydrofluoric | L | S | S | Sodium Hypochlorite | U | L | S |
| Hypochlorous | L | S | S | KETONES | | | |
| Lactic | S | S | S | Acetone | U | L | S |
| Maleic | S | S | S | Methyl Ethyl Ketone | U | U | L |
| Nitric | L | S | S | Methyl Isobutyl Ketone | U | U | L |
| Oleic | S | S | S | ESTERS | | | |
| Oxalic | S | S | S | Butyl Acetate | U | L | S |
| Perchloric | U | U | U | Ethyl Acetate | U | U | S |
| Phosphoric | S | S | S | Zinc Acetate | S | S | S |
| Picric | L | S | S | GASES | | | |
| Stearic | S | S | S | Ammonia | L | S | S |
| Sulfuric | S | S | S | Bromine | U | U | U |
| Sulfurous | S | S | S | Carbon Dioxide | S | S | S |
| Tannic | S | S | S | Carbon Disulfide | L | L | S |
| Tartaric | S | S | S | Chlorine | L | S | S |
| SALTS, ACID & NEUTRAL | | | | *Fluorine | L | S | S |
| Alum | S | S | S | *Hydrogen Fluoride | L | S | S |
| Aluminum Chloride | S | S | S | Hydrogen Sulfide | S | S | S |
| Aluminum Sulphate | S | S | S | Sulfur Dioxide | S | S | S |
| Ammonium Chloride | S | S | S | HYDROCARBONS | | | |
| Ammonium Nitrate | S | S | S | Benzene | U | U | U |
| Ammonium Sulphate | S | S | S | Fuel Oil | S | S | S |
| Calcium Chloride | S | S | S | Gasoline | S | S | S |
| Calcium Sulphate | S | S | S | Kerosene | S | S | S |
| Copper Chloride | S | S | S | Lubricating Oil | S | S | S |
| Copper Sulphate | S | S | S | Mineral Oil | S | S | S |
| Ferric Chloride | S | S | S | Toluene | U | U | U |
| Ferric Nitrate | S | S | S | Vegetable Oil | S | S | S |
| Ferric Sulphate | S | S | S | Naphtha | S | S | S |
| Magnesium Salts | S | S | S | Methane | S | S | S |
| Nickel Salts | S | S | S | Butane | S | S | S |
| Potassium Chloride | S | S | S | Propane | S | S | S |
| Potassium Nitrate | S | S | S | Xylol | S | S | S |
| Potassium Sulphate | S | S | S | CHLORINATED SOLVENTS | | | |
| Sodium Chloride | S | S | S | Carbon Tetrachloride | L | S | S |
| Sodium Sulphate | S | S | S | Chlorobenzene | U | U | U |
| Sodium Sulphite | S | S | S | Chloroform | U | U | U |
| Stannous Chloride | S | S | S | Perchloroethylene | U | U | L |
| Zinc Chloride | S | S | S | Trichloroethylene | U | U | L |
| Zinc Sulphate | S | S | S | | | | |
| ALCOHOLS | | | | GLYCOLS | | | |
| | S | S | S | | S | S | S |

* Surface finished with Synthetic Surfacing Veil Required.

Model TCWPF, Type FG Fiberglass Panel Fans

TCWPF

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|-------|---------|-------|---------|-------|-------|-------|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 12FG728 | 1750 | 1/4 | 1267 | 0.13 | 1127 | 0.14 | 955 | 0.14 | 693 | 0.14 | | | | | | | | |
| 14FG728 | 1160 | 1/4 | 1346 | 0.09 | 1083 | 0.09 | | | | | | | | | | | | |
| 14FG728 | 1750 | 1/4 | 2030 | 0.3 | 1870 | 0.30 | 1689 | 0.31 | 1464 | 0.31 | 1164 | 0.31 | | | | | | |
| 16FG728 | 1160 | 1/4 | 1922 | 0.06 | 1541 | 0.07 | | | | | | | | | | | | |
| 16FG728 | 1750 | 1/3 | 2900 | 0.21 | 2672 | 0.22 | 2410 | 0.23 | 2028 | 0.23 | | | | | | | | |
| 18FG728 | 1160 | 1/8 | 2656 | 0.08 | 2196 | 0.08 | | | | | | | | | | | | |
| 18FG728 | 1750 | 1/2 | 4008 | 0.26 | 3735 | 0.27 | 3415 | 0.28 | 2962 | 0.28 | | | | | | | | |
| 24FG728 | 860 | 1/4 | 4797 | 0.20 | 3941 | 0.23 | | | | | | | | | | | | |
| 24FG728 | 1160 | 1/2 | 6470 | 0.50 | 5887 | 0.55 | 5158 | 0.57 | 3088 | 0.51 | | | | | | | | |
| 24FG728 | 1750 | 2 | 9762 | 1.71 | 9393 | 1.79 | 8996 | 1.86 | 8566 | 1.91 | 8094 | 1.94 | 7464 | 1.93 | 5927 | 1.78 | | |
| 30FG720 | 860 | 1/2 | 7400 | 0.35 | 6408 | 0.40 | 5036 | 0.42 | | | | | | | | | | |
| 30FG720 | 1160 | 1 | 9982 | 0.86 | 9276 | 0.92 | 8497 | 0.98 | 7558 | 1.01 | 6290 | 1.02 | | | | | | |
| 36FG720 | 860 | 1 | 12787 | 0.87 | 11630 | 0.95 | 10298 | 1.02 | 8439 | 1.03 | | | | | | | | |
| 36FG720 | 1160 | 3 | 17248 | 2.14 | 16414 | 2.25 | 15520 | 2.36 | 14563 | 2.45 | 13468 | 2.51 | 12103 | 2.54 | 10454 | 2.54 | | |
| 48FG720 | 860 | 5 | 30311 | 3.68 | 28809 | 3.88 | 27198 | 4.05 | 25469 | 4.21 | 23464 | 4.32 | 20962 | 4.36 | 17944 | 4.36 | | |
| 48FG720 | 1160 | 10 | 40884 | 9.04 | 39787 | 9.30 | 38650 | 9.56 | 37467 | 9.80 | 36236 | 10.02 | 34961 | 10.24 | 33607 | 10.43 | 30382 | 10.66 |

* Wide Blade Fiberglass Propeller

(All capacities shown in the performance table below are for standard air conditions: 70°F at sea level (0.075 lbs./cu.ft. air density))

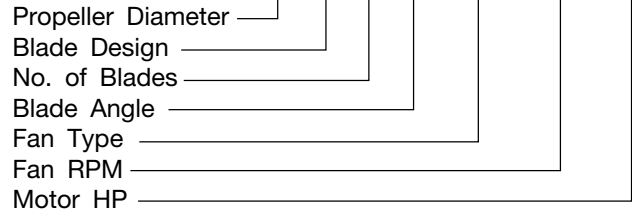


Model PRVF, Type FG Fiberglass Roof Ventilators

Catalog Numbering System

To identify a specific fan for ordering or engineering specifications, it is necessary to show the complete information listed in the tables below under the catalog number. All performance data is available in curve form upon request.

14 FG 7 28 PRVF 2036 1/3



All capacities shown in the performance tables below are for standard air conditions: 70°F at sea level (0.075 lbs./cu.ft. air density).

PRVF, Size 14

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-----|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 14FG728 | 2036 | 1/3 | 1990 | 0.32 | 1806 | 0.32 | 1586 | 0.33 | | | | | | | | | | | | | | | |
| 14FG728 | 2332 | 1/2 | 2279 | 0.48 | 2121 | 0.48 | 1949 | 0.49 | 1713 | 0.50 | | | | | | | | | | | | | |
| 14FG728 | 2669 | 3/4 | 2608 | 0.72 | 2472 | 0.72 | 2326 | 0.73 | 2166 | 0.74 | 1941 | 0.76 | | | | | | | | | | | |
| 14FG728 | 2938 | 1 | 2871 | 0.96 | 2748 | 0.96 | 2617 | 0.96 | 2480 | 0.98 | 2321 | 0.99 | 2093 | 1.01 | | | | | | | | | |

PRVF, Size 16

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|-----|---------|-----|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 16FG728 | 1637 | 1/3 | 2388 | 0.32 | 2124 | 0.33 | 1754 | 0.34 | | | | | | | | | | | | | | | |
| 16FG728 | 1874 | 1/2 | 2733 | 0.49 | 2506 | 0.49 | 2249 | 0.50 | | | | | | | | | | | | | | | |
| 16FG728 | 2145 | 3/4 | 3129 | 0.73 | 2933 | 0.73 | 2722 | 0.74 | 2463 | 0.76 | | | | | | | | | | | | | |
| 16FG728 | 2361 | 1 | 3444 | 0.97 | 3267 | 0.97 | 3079 | 0.98 | 2875 | 1.00 | 2594 | 1.02 | | | | | | | | | | | |

PRVF, Size 18

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 18FG728 | 1633 | 1/2 | 3676 | 0.46 | 3403 | 0.48 | 3096 | 0.50 | 2585 | 0.49 | | | | | | | | | | | | | |
| 18FG728 | 1869 | 3/4 | 4207 | 0.69 | 3972 | 0.71 | 3717 | 0.73 | 3419 | 0.75 | | | | | | | | | | | | | |
| 18FG728 | 2057 | 1 | 4630 | 0.92 | 4418 | 0.94 | 4190 | 0.96 | 3946 | 0.99 | 3638 | 1.00 | | | | | | | | | | | |
| 18FG728 | 2355 | 1 1/2 | 5301 | 1.38 | 5117 | 1.40 | 4923 | 1.43 | 4719 | 1.46 | 4502 | 1.49 | 4240 | 1.51 | 3874 | 1.50 | | | | | | | |

PRVF, Size 24

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 24FG728 | 999 | 1/2 | 5530 | 0.45 | 4910 | 0.50 | 4047 | 0.50 | | | | | | | | | | | | | | | |
| 24FG728 | 1144 | 3/4 | 6333 | 0.68 | 5793 | 0.75 | 5208 | 0.75 | | | | | | | | | | | | | | | |
| 24FG728 | 1259 | 1 | 6970 | 0.91 | 6482 | 0.95 | 5977 | 0.99 | 5293 | 1.01 | | | | | | | | | | | | | |
| 24FG728 | 1586 | 2 | 8780 | 1.82 | 8397 | 1.87 | 8001 | 1.91 | 7602 | 1.96 | 7137 | 2.01 | 6466 | 2.01 | | | | | | | | | |
| 24FG728 | 1815 | 3 | 10048 | 2.73 | 9715 | 2.78 | 9372 | 2.84 | 9025 | 2.89 | 8674 | 2.95 | 8279 | 2.99 | 7775 | 3.02 | | | | | | | |

PRVF, Size 30

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 30FG720 | 906 | 1/2 | 7353 | 0.37 | 6562 | 0.43 | 5626 | 0.48 | 4002 | 0.50 | | | | | | | | | | | | | |
| 30FG720 | 1142 | 1 | 9269 | 0.73 | 8653 | 0.82 | 7997 | 0.90 | 7245 | 0.96 | 6227 | 1.00 | | | | | | | | | | | |
| 30FG720 | 1439 | 2 | 11679 | 1.47 | 11197 | 1.58 | 10693 | 1.69 | 10171 | 1.78 | 9612 | 1.86 | 8968 | 1.93 | 8189 | 1.98 | | | | | | | |
| 30FG720 | 1647 | 3 | 13368 | 2.20 | 12948 | 2.33 | 12514 | 2.46 | 12067 | 2.57 | 11609 | 2.67 | 11125 | 2.76 | 10587 | 2.85 | 9259 | 2.98 | 7168 | 2.99 | | | |
| 30FG720 | 1953 | 5 | 15851 | 3.68 | 15499 | 3.83 | 15139 | 3.98 | 14770 | 4.12 | 14392 | 4.25 | 14009 | 4.38 | 13616 | 4.49 | 12760 | 4.71 | 11748 | 4.88 | 10411 | 5.00 | |

PRVF, Size 36

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 36FG720 | 1056 | 2 | 15184 | 1.49 | 14367 | 1.63 | 13495 | 1.75 | 12550 | 1.85 | 11380 | 1.94 | 9858 | 2.00 | 7912 | 2.01 | | | | | | | |
| 36FG720 | 1209 | 3 | 17384 | 2.23 | 16676 | 2.40 | 16676 | 2.40 | 15152 | 2.68 | 14307 | 2.78 | 13304 | 2.88 | 12094 | 2.97 | 8788 | 3.01 | | | | | |
| 36FG720 | 1433 | 5 | 20605 | 3.71 | 20012 | 3.92 | 19397 | 4.11 | 18759 | 4.28 | 18103 | 4.43 | 17415 | 4.55 | 16659 | 4.68 | 14801 | 4.90 | 12325 | 5.03 | 9206 | 5.00 | |
| 36FG720 | 1640 | 7 1/2 | 23582 | 5.57 | 23065 | 5.80 | 22535 | 6.03 | 21990 | 6.23 | 21428 | 6.43 | 20857 | 6.60 | 20268 | 6.75 | 18964 | 7.03 | 17369 | 7.29 | 15377 | 7.49 | |

PRVF, Size 42

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|-------|-----------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 42FG720 | 824 | 2 | 18825 | 1.52 | 17593 | 1.70 | 16265 | 1.84 | 14705 | 1.95 | 12596 | 2.04 | 9717 | 2.06 | | | | | | | | | |
| 42FG720 | 944 | 3 | 21566 | 2.29 | 20501 | 2.50 | 19370 | 2.68 | 18169 | 2.82 | 16747 | 2.95 | 14962 | 3.05 | 12673 | 3.11 | | | | | | | |
| 42FG720 | 1119 | 5 | 29265 | 3.82 | 24673 | 4.07 | 23744 | 4.30 | 22776 | 4.50 | 21765 | 4.66 | 20645 | 4.82 | 19326 | 4.96 | 15891 | 5.17 | 11332 | 5.14 | | | |
| 42FG720 | 1281 | 7 1/2 | 29265 | 5.73 | 28491 | 6.02 | 27691 | 6.29 | 26864 | 6.54 | 26014 | 6.76 | 25136 | 6.95 | 24198 | 7.13 | 21951 | 7.46 | 19027 | 7.72 | 15290 | 7.74 | |
| 42FG720 | 1410 | 10 | 32212 | 7.64 | 31511 | 7.96 | 30791 | 8.27 | 30050 | 8.55 | 29289 | 8.82 | 28514 | 9.05 | 27715 | 9.26 | 25954 | 9.65 | 23801 | 10.00 | 21121 | 10.28 | |

PRVF, Size 48

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|-------|-----------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 48FG720 | 751 | 3 | 25606 | 2.25 | 24067 | 2.50 | 22417 | 2.69 | 20557 | 2.85 | 18143 | 2.98 | 14902 | 3.05 | 10906 | 3.03 | | | | | | | |
| 48FG720 | 891 | 5 | 30379 | 3.76 | 29096 | 4.06 | 27743 | 4.32 | 26328 | 4.53 | 24774 | 4.71 | 22901 | 4.89 | 20615 | 5.03 | 14386 | 5.07 | | | | | |
| 48FG720 | 1020 | 7 1/2 | 34777 | 5.64 | 33663 | 5.98 | 32504 | 6.30 | 31298 | 6.58 | 30053 | 6.81 | 28711 | 7.02 | 27174 | 7.23 | 23284 | 7.56 | 17972 | 7.62 | | | |
| 48FG720 | 1122 | 10 | 38255 | 7.51 | 37245 | 7.89 | 36203 | 8.24 | 35124 | 8.57 | 34016 | 8.86 | 32871 | 9.11 | 31647 | 9.33 | 28721 | 9.78 | 24917 | 10.11 | 20054 | 10.14 | |

PRVF, Size 54

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-------|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 54FG618 | 895 | 5 | 35080 | 4.18 | 32839 | 4.40 | 30421 | 4.63 | 27746 | 4.85 | 24737 | 5.01 | | | | | | | | | | | |
| 54FG618 | 1020 | 7 1/2 | 39979 | 6.18 | 38030 | 6.43 | 35965 | 6.69 | 33764 | 6.96 | 31360 | 7.20 | 28715 | 7.39 | 26064 | 7.45 | | | | | | | |
| 54FG618 | 1135 | 10 | 44487 | 8.52 | 42744 | 8.80 | 40920 | 9.08 | 39006 | 9.38 | 36979 | 9.67 | 34787 | 9.93 | 32418 | 10.15 | | | | | | | |

PRVF, Size 60

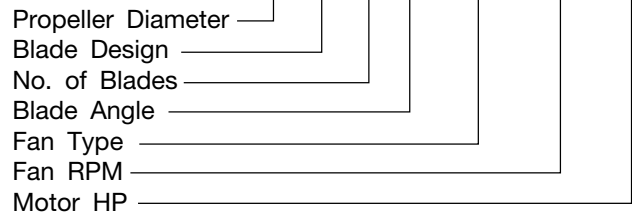
| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|-----|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-------|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 60FG618 | 747 | 5 | 40159 | 4.11 | 37157 | 4.37 | 33869 | 4.63 | 30112 | 4.86 | 26064 | 4.96 | | | | | | | | | | | |
| 60FG618 | 860 | 7 1/2 | 46234 | 6.27 | 43654 | 6.57 | 40900 | 6.87 | 37920 | 7.17 | 34584 | 7.42 | 31093 | 7.56 | | | | | | | | | |
| 60FG618 | 945 | 10 | 50803 | 8.32 | 48469 | 8.65 | 46005 | 8.97 | 43393 | 9.31 | 40569 | 9.62 | 37456 | 9.89 | 34283 | 10.02 | | | | | | | |

Model TAMF, Type FG Belt Driven Fiberglass Tubeaxial

Catalog Numbering System

To identify a specific fan for ordering or engineering specifications, it is necessary to show the complete information listed in the tables below under the catalog number. All performance data is available in curve form upon request.

14 FG 7 28 TAMF 2036 1/3



All capacities shown in the performance tables below are for standard air conditions: 70°F at sea level (0.075 lbs./cu.ft. air density).

TAMF, Size 14

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-----|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 14FG728 | 2036 | 1/3 | 2032 | 0.32 | 1845 | 0.32 | 1629 | 0.33 | | | | | | | | | | | | | | | |
| 14FG728 | 2332 | 1/2 | 2327 | 0.48 | 2167 | 0.48 | 1991 | 0.49 | 1768 | 0.50 | | | | | | | | | | | | | |
| 14FG728 | 2669 | 3/4 | 2664 | 0.72 | 2525 | 0.72 | 2376 | 0.72 | 2216 | 0.73 | 2005 | 0.75 | | | | | | | | | | | |
| 14FG728 | 2938 | 1 | 2932 | 0.96 | 2807 | 0.96 | 2674 | 0.96 | 2534 | 0.97 | 2380 | 0.99 | 2169 | 1.01 | | | | | | | | | |

TAMF, Size 16

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-----|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 16FG728 | 1637 | 1/3 | 2439 | 0.33 | 2170 | 0.33 | 1819 | 0.34 | | | | | | | | | | | | | | | |
| 16FG728 | 1874 | 1/2 | 2792 | 0.49 | 2562 | 0.49 | 2304 | 0.50 | | | | | | | | | | | | | | | |
| 16FG728 | 2145 | 3/4 | 3196 | 0.73 | 2997 | 0.73 | 2781 | 0.74 | 2532 | 0.75 | | | | | | | | | | | | | |
| 16FG728 | 2361 | 1 | 3518 | 0.98 | 3339 | 0.97 | 3146 | 0.98 | 2941 | 0.99 | 2678 | 1.01 | 2169 | 1.01 | | | | | | | | | |

TAMF, Size 18

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 18FG728 | 1633 | 1/2 | 3756 | 0.45 | 3480 | 0.47 | 3170 | 0.49 | 2721 | 0.50 | | | | | | | | | | | | | |
| 18FG728 | 1869 | 3/4 | 4299 | 0.68 | 4061 | 0.70 | 3801 | 0.72 | 3511 | 0.75 | 3068 | 0.75 | | | | | | | | | | | |
| 18FG728 | 2057 | 1 | 4731 | 0.91 | 4517 | 0.93 | 4286 | 0.95 | 4039 | 0.98 | 3746 | 1.00 | 3253 | 0.99 | | | | | | | | | |
| 18FG728 | 2335 | 1 1/2 | 5370 | 1.32 | 5183 | 1.35 | 4985 | 1.38 | 4775 | 1.41 | 4554 | 1.44 | 4299 | 1.46 | 3952 | 1.46 | | | | | | | |

TAMF, Size 24

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|-----|-----------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 24FG728 | 999 | 1/2 | 5667 | 0.45 | 5024 | 0.48 | 4221 | 0.50 | | | | | | | | | | | | | | | |
| 24FG728 | 1144 | 3/4 | 6490 | 0.67 | 5934 | 0.71 | 5346 | 0.74 | | | | | | | | | | | | | | | |
| 24FG728 | 1259 | 1 | 7142 | 0.90 | 6641 | 0.94 | 6117 | 0.98 | 5476 | 1.01 | | | | | | | | | | | | | |
| 24FG728 | 1586 | 2 | 8997 | 1.79 | 8604 | 1.84 | 8195 | 1.89 | 7779 | 1.94 | 7336 | 1.99 | 6732 | 2.01 | | | | | | | | | |
| 24FG728 | 1815 | 3 | 10296 | 2.68 | 9954 | 2.74 | 9602 | 2.80 | 9238 | 2.86 | 8876 | 2.91 | 8495 | 2.97 | 8024 | 3.01 | | | | | | | |

TAMF, Size 30

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | |
|---------|------|-----|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 30FG720 | 906 | 1/2 | 7476 | 0.35 | 6670 | 0.43 | 5732 | 0.48 | 4113 | 0.50 | | | | | | | | | | | | | |
| 30FG720 | 1142 | 1 | 9424 | 0.71 | 8797 | 0.80 | 8128 | 0.88 | 7378 | 0.95 | 6380 | 0.99 | | | | | | | | | | | |
| 30FG720 | 1439 | 2 | 11875 | 1.42 | 11384 | 1.54 | 10871 | 1.65 | 10338 | 1.75 | 9777 | 1.84 | 9136 | 1.91 | 8367 | 1.97 | | | | | | | |
| 30FG720 | 1647 | 3 | 13591 | 2.13 | 13164 | 2.27 | 12723 | 2.40 | 12267 | 2.52 | 11799 | 2.63 | 11312 | 2.73 | 10779 | 2.82 | 9468 | 2.97 | 7367 | 2.99 | | | |
| 30FG720 | 1953 | 5 | 16116 | 3.55 | 15758 | 3.72 | 15391 | 3.88 | 15016 | 4.03 | 14631 | 4.17 | 14239 | 4.31 | 13840 | 4.43 | 12987 | 4.66 | 11979 | 4.85 | 10677 | 4.99 | |

Performance shown is with outlet ducts.
 BHP includes belt drive losses.

TAMF, Size 36

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 36FG720 | 1056 | 2 | 15458 | 1.43 | 14628 | 1.59 | 13739 | 1.72 | 12789 | 1.83 | 11636 | 1.92 | 10118 | 1.99 | 8128 | 2.01 | | | | | | | | |
| 36FG720 | 1209 | 3 | 17697 | 2.15 | 16978 | 2.33 | 16221 | 2.50 | 15426 | 2.64 | 14582 | 2.75 | 13594 | 2.86 | 12386 | 2.95 | 9025 | 3.01 | | | | | | |
| 36FG720 | 1433 | 5 | 20976 | 3.58 | 20374 | 3.80 | 19749 | 4.00 | 19101 | 4.19 | 18430 | 4.36 | 17737 | 4.50 | 16989 | 4.62 | 15146 | 4.87 | 12637 | 5.02 | 9400 | 5.00 | | |
| 36FG720 | 1640 | 7 1/2 | 24006 | 5.36 | 23482 | 5.61 | 22943 | 5.86 | 22390 | 6.08 | 21820 | 6.30 | 21234 | 6.49 | 20637 | 6.66 | 19345 | 6.95 | 17766 | 7.24 | 15782 | 7.46 | | |

TAMF, Size 42

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 42FG720 | 824 | 2 | 19154 | 1.47 | 17904 | 1.66 | 16552 | 1.82 | 15007 | 1.94 | 12912 | 2.04 | 9974 | 2.06 | | | | | | | | | | |
| 42FG720 | 944 | 3 | 21943 | 2.21 | 20863 | 2.43 | 19713 | 2.63 | 18495 | 2.79 | 17094 | 2.92 | 15315 | 3.04 | 12987 | 3.11 | | | | | | | | |
| 42FG720 | 1119 | 5 | 26011 | 3.68 | 25108 | 3.95 | 24164 | 4.20 | 23177 | 4.42 | 22153 | 4.60 | 21043 | 4.76 | 19742 | 4.92 | 16295 | 5.15 | 11561 | 5.15 | | | | |
| 42FG720 | 1281 | 7 1/2 | 29777 | 5.52 | 28991 | 5.83 | 28180 | 6.13 | 27341 | 6.40 | 26472 | 6.65 | 25581 | 6.86 | 24644 | 7.05 | 22428 | 7.40 | 19515 | 7.69 | 15696 | 7.74 | | |
| 42FG720 | 1410 | 10 | 32775 | 7.36 | 32064 | 7.71 | 31333 | 8.04 | 30582 | 8.35 | 29809 | 8.64 | 29015 | 8.91 | 28205 | 9.14 | 26458 | 9.54 | 24327 | 9.93 | 21660 | 10.24 | | |

TAMF, Size 48

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----------|-------|-----------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 48FG720 | 751 | 3 | 26057 | 2.17 | 24496 | 2.43 | 22814 | 2.65 | 20962 | 2.82 | 18560 | 2.96 | 15277 | 3.05 | 11118 | 3.03 | | | | | | | | |
| 48FG720 | 891 | 5 | 30915 | 3.62 | 29613 | 3.94 | 28239 | 4.23 | 26796 | 4.47 | 25247 | 4.66 | 23400 | 4.85 | 21125 | 5.00 | 14726 | 5.07 | | | | | | |
| 48FG720 | 1020 | 7 1/2 | 35391 | 5.43 | 34260 | 5.80 | 33084 | 6.15 | 31856 | 6.46 | 30587 | 6.72 | 29247 | 6.94 | 27736 | 7.16 | 23871 | 7.53 | 18453 | 7.62 | | | | |
| 48FG720 | 1122 | 10 | 38930 | 7.23 | 37905 | 7.64 | 36847 | 8.03 | 35752 | 8.38 | 34619 | 8.71 | 33457 | 8.98 | 32235 | 9.23 | 29350 | 9.70 | 25561 | 10.07 | 20592 | 10.14 | | |

TAMF, Size 54

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | | |
|---------|------|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-------|-------|------|-----------|-------|-----------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 54FG618 | 895 | 5 | 35862 | 4.09 | 33575 | 4.33 | 31106 | 4.56 | 28392 | 4.80 | 25294 | 4.99 | | | | | | | | | | | | |
| 54FG618 | 1020 | 7 1/2 | 40870 | 6.06 | 38881 | 6.32 | 36774 | 6.59 | 34529 | 6.87 | 32092 | 7.13 | 29379 | 7.35 | 26618 | 7.45 | 14726 | 5.07 | | | | | | |
| 54FG618 | 1135 | 10 | 45478 | 8.35 | 44478 | 8.64 | 41839 | 8.94 | 39884 | 9.24 | 37820 | 9.55 | 35601 | 9.84 | 33173 | 10.09 | 29350 | 9.70 | 25561 | 10.07 | 20592 | 10.14 | | |

TAMF, Size 60

| PROP | RPM | HP | 0" SP | | 1/8" SP | | 1/4" SP | | 3/8" SP | | 1/2" SP | | 5/8" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | | |
|---------|-----|-------|-------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|-------|-------|------|-----------|-------|-----------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 60FG618 | 747 | 5 | 41059 | 4.03 | 37996 | 4.30 | 34640 | 4.57 | 30824 | 4.83 | 26625 | 4.96 | | | | | | | | | | | | |
| 60FG618 | 860 | 7 1/2 | 47270 | 6.15 | 44638 | 6.46 | 41824 | 6.77 | 38790 | 7.09 | 35401 | 7.37 | 31741 | 7.54 | | | | | | | | | | |
| 60FG618 | 945 | 10 | 51942 | 8.16 | 49560 | 8.50 | 47045 | 8.84 | 44378 | 9.19 | 41512 | 9.53 | 38338 | 9.83 | 34999 | 10.01 | 29350 | 9.70 | 25561 | 10.07 | 20592 | 10.14 | | |

Performance shown is with outlet ducts.
BHP includes belt drive losses.

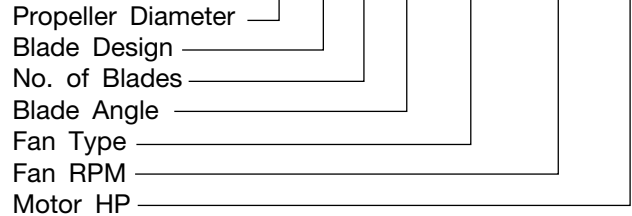


Model TAHF, Type TF Belt Driven Fiberglass Tubeaxial

Catalog Numbering System

To identify a specific fan for ordering or engineering specifications, it is necessary to show the complete information listed in the tables below under the catalog number. All performance data is available in curve form upon request.

12 TF 7 34 TAHF 3016 3/4



All capacities shown in the performance tables below are for standard air conditions: 70°F at sea level (0.075 lbs./cu.ft. air density).

TAHF, Size 12

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|-----|-------|-----|-----------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 12TF734 | 3016 | 3/4 | 1979 | 0.75 | 1782 | 0.77 | | | | | | | | | | | | |
| 12TF734 | 3320 | 1 | 2212 | 1.00 | 2042 | 1.02 | 1829 | 1.04 | | | | | | | | | | |
| 12TF734 | 3800 | 1 1/2 | 2574 | 1.49 | 2433 | 1.52 | 2275 | 1.54 | 2078 | 1.56 | | | | | | | | |
| 12TF734 | | 2 | 2859 | 1.99 | 2734 | 2.01 | 2598 | 2.04 | 2446 | 2.06 | 2256 | 2.08 | | | | | | |

TAHF, Size 15

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|-----|-------|-----|-----------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 15TF734 | 1915 | 3/4 | 2577 | 0.70 | 2151 | 0.72 | | | | | | | | | | | | |
| 15TF734 | 2108 | 1 | 2903 | 0.93 | 2564 | 0.95 | | | | | | | | | | | | |
| 15TF734 | 2413 | 1 1/2 | 3402 | 1.38 | 3132 | 1.41 | 2788 | 1.44 | | | | | | | | | | |
| 15TF734 | 2656 | 2 | 3793 | 1.84 | 3556 | 1.87 | 3285 | 1.90 | 2910 | 1.91 | | | | | | | | |
| 15TF734 | 3041 | 3 | 4403 | 2.75 | 4204 | 2.78 | 3987 | 2.82 | 3743 | 2.86 | 3432 | 2.87 | | | | | | |

TAHF, Size 18

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|-----|-----------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 18TF734 | 1370 | 1/2 | 3181 | 0.51 | | | | | | | | | | | | | | |
| 18TF734 | 1568 | 3/4 | 3800 | 0.75 | 3257 | 0.77 | | | | | | | | | | | | |
| 18TF734 | 1726 | 1 | 4276 | 0.99 | 3799 | 1.03 | | | | | | | | | | | | |
| 18TF734 | 1976 | 1 1/2 | 5011 | 1.46 | 4622 | 1.51 | 4180 | 1.55 | | | | | | | | | | |
| 18TF734 | 2175 | 2 | 5584 | 1.94 | 5244 | 1.99 | 4860 | 2.05 | 4457 | 2.07 | | | | | | | | |
| 18TF734 | 2490 | 3 | 6480 | 2.88 | 6193 | 2.95 | 5882 | 3.02 | 5539 | 3.07 | 5187 | 3.10 | 4787 | 3.08 | | | | |

TAHF, Size 22

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|-----|-----------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 22TF734 | 984 | 1/2 | 3922 | 0.52 | | | | | | | | | | | | | | |
| 22TF734 | 1126 | 3/4 | 4781 | 0.77 | | | | | | | | | | | | | | |
| 22TF734 | 1239 | 1 | 5430 | 1.01 | 4582 | 1.04 | | | | | | | | | | | | |
| 22TF734 | 1419 | 1 1/2 | 6425 | 1.49 | 5717 | 1.55 | 4842 | 1.55 | | | | | | | | | | |
| 22TF734 | 1561 | 2 | 7188 | 1.97 | 6576 | 2.04 | 5893 | 2.08 | | | | | | | | | | |
| 22TF734 | 1787 | 3 | 8381 | 2.93 | 7875 | 3.02 | 7304 | 3.09 | 6706 | 3.12 | | | | | | | | |
| 22TF734 | 2119 | 5 | 10101 | 4.84 | 9692 | 4.95 | 9252 | 5.05 | 8772 | 5.14 | 8259 | 5.20 | 7756 | 5.21 | | | | |

Performance shown is with outlet ducts.
 BHP includes belt drive losses.

TAHF, Size 25

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|-------|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 25TF734 | 1045 | 1 | 6962 | 0.94 | 5660 | 1.01 | | | | | | | | | | | | | |
| 25TF734 | 1196 | 1 1/2 | 8244 | 1.38 | 7247 | 1.50 | | | | | | | | | | | | | |
| 25TF734 | 1316 | 2 | 9232 | 1.80 | 8395 | 1.95 | 7358 | 2.02 | | | | | | | | | | | |
| 25TF734 | 1507 | 3 | 10770 | 2.66 | 10099 | 2.82 | 9290 | 2.97 | 8356 | 3.03 | | | | | | | | | |
| 25TF734 | 1786 | 5 | 12973 | 4.34 | 12441 | 4.54 | 11849 | 4.73 | 11168 | 4.92 | 10409 | 5.03 | 9461 | 5.01 | | | | | |
| 25TF734 | 2045 | 7 1/2 | 14991 | 6.45 | 14542 | 6.68 | 14058 | 6.90 | 13530 | 7.12 | 12941 | 7.34 | 12288 | 7.50 | | | | | |
| 25TF734 | 2251 | 10 | 16585 | 8.55 | 16183 | 8.80 | 15759 | 9.05 | 15306 | 9.29 | 14815 | 9.53 | 14277 | 9.77 | 13084 | 10.07 | | | |

TAHF, Size 29

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 29TF734 | 816 | 1 | 8187 | 0.97 | | | | | | | | | | | | | | | |
| 29TF734 | 934 | 1 1/2 | 9815 | 1.41 | 8215 | 1.51 | | | | | | | | | | | | | |
| 29TF734 | 1028 | 2 | 11054 | 1.84 | 9705 | 2.00 | | | | | | | | | | | | | |
| 29TF734 | 1177 | 3 | 12961 | 2.70 | 11905 | 2.89 | 10602 | 3.03 | | | | | | | | | | | |
| 29TF734 | 1395 | 5 | 15680 | 4.39 | 14864 | 4.63 | 13916 | 4.86 | 12809 | 5.02 | | | | | | | | | |
| 29TF734 | 1597 | 7 1/2 | 18156 | 6.50 | 17473 | 6.78 | 16722 | 7.04 | 15869 | 7.31 | 14902 | 7.51 | 13874 | 7.57 | | | | | |
| 29TF734 | 1758 | 10 | 20112 | 8.61 | 19505 | 8.92 | 18852 | 9.21 | 18138 | 9.51 | 17342 | 9.80 | 16458 | 10.01 | | | | | |
| 29TF734 | 2012 | 15 | 23175 | 12.80 | 22658 | 13.15 | 22112 | 13.5 | 21534 | 13.83 | 20915 | 14.17 | 20242 | 14.51 | 18725 | 15.03 | 16981 | 15.11 | |

TAHF, Size 33

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 33TF734 | 829 | 2 | 12871 | 1.87 | 10839 | 2.02 | | | | | | | | | | | | | |
| 33TF734 | 949 | 3 | 15182 | 2.73 | 13590 | 2.96 | | | | | | | | | | | | | |
| 33TF734 | 1125 | 5 | 18460 | 4.44 | 17264 | 4.72 | 15813 | 4.98 | 14106 | 5.04 | | | | | | | | | |
| 33TF734 | 1287 | 7 1/2 | 21413 | 6.55 | 20423 | 6.87 | 19299 | 7.19 | 17986 | 7.47 | 16550 | 7.56 | | | | | | | |
| 33TF734 | 1417 | 10 | 23755 | 8.66 | 22881 | 9.02 | 21922 | 9.37 | 20838 | 9.72 | 19608 | 9.99 | 18310 | 10.09 | | | | | |
| 33TF734 | 1622 | 15 | 27417 | 12.86 | 26676 | 13.28 | 25885 | 13.68 | 25032 | 14.08 | 24093 | 14.48 | 23057 | 14.85 | 20783 | 15.14 | | | |
| 33TF734 | 1785 | 20 | 30310 | 17.04 | 29646 | 17.50 | 28948 | 17.95 | 28210 | 18.40 | 27421 | 18.83 | 26564 | 19.28 | 24633 | 19.99 | 22478 | 20.16 | |

TAHF, Size 38

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 38TF734 | 645 | 2 | 14751 | 1.92 | | | | | | | | | | | | | | | |
| 38TF734 | 739 | 3 | 17577 | 2.82 | 15226 | 2.98 | | | | | | | | | | | | | |
| 38TF734 | 876 | 5 | 21535 | 4.59 | 19739 | 4.83 | 17632 | 5.01 | | | | | | | | | | | |
| 38TF734 | 1003 | 7 1/2 | 25108 | 6.78 | 23609 | 7.10 | 21947 | 7.32 | 20056 | 7.53 | | | | | | | | | |
| 38TF734 | 1104 | 10 | 27909 | 8.96 | 26581 | 9.33 | 25143 | 9.62 | 23548 | 9.84 | 21789 | 10.08 | | | | | | | |
| 38TF734 | 1263 | 15 | 32271 | 13.28 | 31141 | 13.72 | 29942 | 14.12 | 28668 | 14.43 | 27287 | 14.68 | 25783 | 14.94 | | | | | |
| 38TF734 | 1390 | 20 | 35726 | 17.59 | 34714 | 18.09 | 33653 | 18.55 | 32538 | 18.96 | 31364 | 19.28 | 30105 | 19.55 | 27321 | 20.13 | | | |
| 38TF734 | 1498 | 25 | 38650 | 21.92 | 37719 | 22.48 | 36751 | 22.99 | 35742 | 23.46 | 34688 | 23.86 | 33583 | 24.19 | 31140 | 24.77 | 28270 | 25.32 | |

TAHF, Size 43

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 43TF734 | 526 | 2 | 16891 | 1.95 | | | | | | | | | | | | | | | |
| 43TF734 | 603 | 3 | 20344 | 2.88 | 16865 | 3.06 | | | | | | | | | | | | | |
| 43TF734 | 714 | 5 | 25080 | 4.66 | 22485 | 4.91 | 18990 | 5.07 | | | | | | | | | | | |
| 43TF734 | 818 | 7 1/2 | 29373 | 6.89 | 27241 | 7.23 | 24781 | 7.47 | | | | | | | | | | | |
| 43TF734 | 900 | 10 | 32700 | 9.08 | 30818 | 9.49 | 28741 | 9.79 | 26382 | 10.06 | | | | | | | | | |
| 43TF734 | 1030 | 15 | 37905 | 13.44 | 36313 | 13.95 | 34606 | 14.38 | 32755 | 14.70 | 30696 | 14.99 | 28337 | 15.27 | | | | | |
| 43TF734 | 1134 | 20 | 42027 | 17.81 | 40607 | 18.39 | 39103 | 18.91 | 37509 | 19.33 | 35792 | 19.66 | 33910 | 19.99 | | | | | |
| 43TF734 | 1222 | 25 | 45495 | 22.18 | 44191 | 22.82 | 42824 | 23.4 | 41386 | 23.92 | 39871 | 24.32 | 38242 | 24.67 | 34634 | 25.41 | | | |

Performance shown is with outlet ducts.
BHP includes belt drive losses.

TAHF, Size 48

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 48TF734 | 503 | 3 | 23062 | 2.93 | | | | | | | | | | | | | | | |
| 48TF734 | 596 | 5 | 28694 | 4.75 | 25053 | 5.01 | | | | | | | | | | | | | |
| 48TF734 | 682 | 7 1/2 | 33701 | 6.98 | 30765 | 7.35 | 27300 | 7.63 | | | | | | | | | | | |
| 48TF734 | 751 | 10 | 37634 | 9.21 | 35063 | 9.67 | 32136 | 9.97 | 28617 | 10.26 | | | | | | | | | |
| 48TF734 | 859 | 15 | 43695 | 13.60 | 41531 | 14.17 | 39179 | 14.62 | 36544 | 14.95 | 33618 | 15.32 | | | | | | | |
| 48TF734 | 946 | 20 | 48521 | 18.01 | 46596 | 18.67 | 44538 | 19.24 | 42325 | 19.66 | 39864 | 20.03 | 37218 | 20.44 | | | | | |
| 48TF734 | 1019 | 25 | 52541 | 22.39 | 50777 | 23.12 | 48912 | 23.77 | 46933 | 24.30 | 44806 | 24.72 | 42472 | 25.12 | | | | | |
| 48TF734 | 1083 | 30 | 56050 | 26.78 | 54406 | 27.57 | 52679 | 28.28 | 50861 | 28.90 | 48940 | 29.40 | 46868 | 29.81 | 42241 | 30.71 | | | |
| 48TF734 | 1192 | 40 | 61999 | 35.51 | 60523 | 36.40 | 58988 | 37.22 | 57388 | 37.98 | 55718 | 38.63 | 53969 | 39.17 | 50106 | 40.10 | 45656 | 41.03 | |

TAHF, Size 54

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|-----|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 54TF734 | 412 | 3 | 26006 | 2.94 | | | | | | | | | | | | | | | |
| 54TF734 | 488 | 5 | 32761 | 4.76 | 27470 | 5.05 | | | | | | | | | | | | | |
| 54TF734 | 559 | 7 1/2 | 38760 | 7.00 | 34554 | 7.38 | | | | | | | | | | | | | |
| 54TF734 | 615 | 10 | 43370 | 9.21 | 39730 | 9.69 | 35459 | 10.04 | | | | | | | | | | | |
| 54TF734 | 704 | 15 | 50557 | 13.60 | 47521 | 14.23 | 44149 | 14.68 | 40313 | 15.10 | | | | | | | | | |
| 54TF734 | 775 | 20 | 56209 | 17.97 | 53519 | 18.71 | 50606 | 19.30 | 47370 | 19.73 | 43800 | 20.21 | | | | | | | |
| 54TF734 | 835 | 25 | 60946 | 22.34 | 58489 | 23.16 | 55860 | 23.87 | 53027 | 24.39 | 49873 | 24.85 | 46447 | 25.36 | | | | | |
| 54TF734 | 887 | 30 | 65028 | 26.65 | 62740 | 27.55 | 60313 | 28.34 | 57733 | 28.97 | 54934 | 29.47 | 51889 | 30.00 | | | | | |
| 54TF734 | 977 | 40 | 72055 | 35.40 | 70008 | 36.41 | 67863 | 37.34 | 65608 | 38.15 | 63232 | 38.8 | 60684 | 39.35 | 55047 | 40.52 | | | |

TAHF, Size 60

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | |
|---------|-----|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-----|-----------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 60TF734 | 413 | 5 | 37320 | 4.93 | | | | | | | | | | | | | | | |
| 60TF734 | 473 | 7 1/2 | 44395 | 7.25 | 38632 | 7.66 | | | | | | | | | | | | | |
| 60TF734 | 520 | 10 | 49772 | 9.50 | 44845 | 10.01 | 38668 | 10.40 | | | | | | | | | | | |
| 60TF734 | 596 | 15 | 58273 | 14.06 | 54212 | 14.76 | 49568 | 15.24 | 43814 | 15.65 | | | | | | | | | |
| 60TF734 | 656 | 20 | 64871 | 18.56 | 61285 | 19.40 | 57348 | 20.01 | 52879 | 20.52 | | | | | | | | | |
| 60TF734 | 706 | 25 | 70317 | 22.98 | 67046 | 23.92 | 63511 | 24.66 | 59608 | 25.21 | 55304 | 25.81 | | | | | | | |
| 60TF734 | 750 | 30 | 75080 | 27.42 | 72039 | 28.43 | 68786 | 29.3 | 65277 | 29.94 | 61369 | 30.51 | 57109 | 31.13 | | | | | |
| 60TF734 | 826 | 40 | 83254 | 36.37 | 80540 | 37.53 | 77674 | 38.56 | 74640 | 39.42 | 71393 | 40.09 | 67823 | 40.71 | | | | | |

Performance shown is with outlet ducts.
BHP includes belt drive losses.

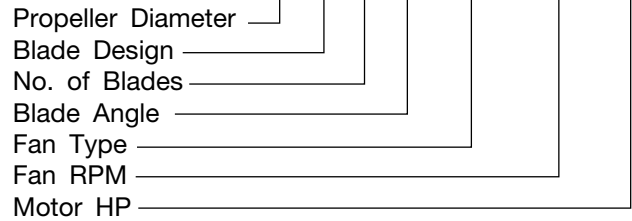


Model VAHF, Type TF Belt Driven Fiberglass Vaneaxial

Catalog Numbering System

To identify a specific fan for ordering or engineering specifications, it is necessary to show the complete information listed in the tables below under the catalog number. All performance data is available in curve form upon request.

12 TF 7 34 VAHF 3016 3/4



All capacities shown in the performance tables below are for standard air conditions: 70°F at sea level (0.075 lbs./cu.ft. air density).

VAHF, Size 12

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|------|-----------|-----|-------|-----|-----------|-----|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 12TF734 | 3016 | 3/4 | 1977 | 0.73 | 1858 | 0.75 | 1721 | 0.75 | 1563 | 0.75 | | | | | | | | | | | | | | |
| 12TF734 | 3320 | 1 | 2198 | 0.97 | 2093 | 1.00 | 1977 | 1.00 | 1844 | 1.00 | 1696 | 1.00 | | | | | | | | | | | | |
| 12TF734 | 3800 | 1 1/2 | 2543 | 1.45 | 2454 | 1.48 | 2359 | 1.50 | 2255 | 1.51 | 2140 | 1.50 | 2015 | 1.50 | | | | | | | | | | |
| 12TF734 | | 2 | 2815 | 1.93 | 2736 | 1.96 | 2652 | 1.99 | 2563 | 2.01 | 2467 | 2.01 | 2362 | 2.00 | 2128 | 2.01 | | | | | | | | |

VAHF, Size 15

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|------|-----------|-----|-------|-----|-----------|-----|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 15TF734 | 1915 | 3/4 | 2610 | 0.74 | 2380 | 0.75 | 2097 | 0.75 | | | | | | | | | | | | | | | | |
| 15TF734 | 2108 | 1 | 2913 | 0.98 | 2714 | 1.00 | 2478 | 1.00 | 2185 | 1.00 | | | | | | | | | | | | | | |
| 15TF734 | 2413 | 1 1/2 | 3384 | 1.46 | 3219 | 1.50 | 3034 | 1.51 | 2820 | 1.50 | 2579 | 1.51 | | | | | | | | | | | | |
| 15TF734 | 2656 | 2 | 3755 | 1.94 | 3609 | 1.98 | 3449 | 2.01 | 3272 | 2.01 | 3073 | 2.00 | 2853 | 2.01 | | | | | | | | | | |
| 15TF734 | 3041 | 3 | 4337 | 2.89 | 4213 | 2.95 | 4081 | 2.99 | 3940 | 3.01 | 3786 | 3.01 | 3618 | 3.00 | 3236 | 3.02 | | | | | | | | |

VAHF, Size 18

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|------|-----------|-----|-------|-----|-----------|-----|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 18TF734 | 1370 | 1/2 | 3287 | 0.48 | 2822 | 0.50 | | | | | | | | | | | | | | | | | | |
| 18TF734 | 1568 | 3/4 | 3870 | 0.72 | 3502 | 0.74 | 3032 | 0.75 | | | | | | | | | | | | | | | | |
| 18TF734 | 1726 | 1 | 4325 | 0.95 | 4004 | 0.98 | 3629 | 1.00 | 3133 | 0.99 | | | | | | | | | | | | | | |
| 18TF734 | 1976 | 1 1/2 | 5588 | 1.41 | 4763 | 1.45 | 4468 | 1.48 | 4130 | 1.51 | 3708 | 1.50 | | | | | | | | | | | | |
| 18TF734 | 2175 | 2 | 5588 | 1.87 | 5349 | 1.92 | 5092 | 1.96 | 4813 | 1.99 | 4494 | 2.01 | 4108 | 2.00 | | | | | | | | | | |
| 18TF734 | 2490 | 3 | 6459 | 2.80 | 6256 | 2.85 | 6041 | 2.89 | 5814 | 2.94 | 5572 | 2.98 | 5305 | 3.01 | 4648 | 2.99 | | | | | | | | |

VAHF, Size 22

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|------|-----------|-----|-------|-----|-----------|-----|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP |
| 22TF734 | 984 | 1/2 | 4146 | 0.50 | 3189 | 0.50 | | | | | | | | | | | | | | | | | | |
| 22TF734 | 1126 | 3/4 | 4937 | 0.73 | 4249 | 0.76 | | | | | | | | | | | | | | | | | | |
| 22TF734 | 1239 | 1 | 5547 | 0.97 | 4967 | 1.01 | 4182 | 1.00 | | | | | | | | | | | | | | | | |
| 22TF734 | 1419 | 1 1/2 | 6496 | 1.44 | 6019 | 1.49 | 5466 | 1.52 | 4734 | 1.51 | | | | | | | | | | | | | | |
| 22TF734 | 1561 | 2 | 7231 | 1.90 | 6811 | 1.96 | 6345 | 2.01 | 5797 | 2.03 | 5085 | 2.00 | | | | | | | | | | | | |
| 22TF734 | 1787 | 3 | 8386 | 2.84 | 8030 | 2.90 | 7649 | 2.96 | 7234 | 3.01 | 6762 | 3.04 | 6195 | 3.03 | | | | | | | | | | |
| 22TF734 | 2119 | 5 | 10060 | 4.70 | 9769 | 4.77 | 9464 | 4.84 | 9142 | 4.91 | 8803 | 4.98 | 8437 | 5.04 | 7574 | 5.06 | | | | | | | | |

Performance shown is with outlet ducts.
 BHP includes belt drive losses.

VAHF, Size 25

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|------|-------|---------|------|---------|------|---------|------|-------|------|-----------|------|-----------|------|-------|------|-----------|-------|-------|-------|-----------|------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 25TF734 | 1045 | 1 | 6971 | 0.93 | 6175 | 1.00 | 5051 | 0.98 | | | | | | | | | | | | | | | | | |
| 25TF734 | 1196 | 1 1/2 | 8181 | 1.38 | 7516 | 1.46 | 6761 | 1.51 | 5675 | 1.46 | | | | | | | | | | | | | | | |
| 25TF734 | 1316 | 2 | 9126 | 1.81 | 8528 | 1.90 | 7896 | 1.99 | 7144 | 2.01 | | | | | | | | | | | | | | | |
| 25TF734 | 1507 | 3 | 10609 | 2.69 | 10094 | 2.79 | 9565 | 2.89 | 9003 | 2.99 | 8358 | 3.02 | 7528 | 2.97 | | | | | | | | | | | |
| 25TF734 | 1786 | 5 | 12744 | 4.44 | 12317 | 4.55 | 11878 | 4.67 | 11432 | 4.79 | 10972 | 4.91 | 10471 | 5.00 | 9260 | 5.00 | | | | | | | | | |
| 25TF734 | 2045 | 7 1/2 | 14706 | 6.62 | 14337 | 6.75 | 13960 | 6.89 | 13575 | 7.02 | 13185 | 7.16 | 12790 | 7.30 | 11927 | 7.52 | 10909 | 7.54 | 9311 | 7.15 | | | | | |
| 25TF734 | 2251 | 10 | 16257 | 8.79 | 15924 | 8.94 | 15585 | 9.09 | 15239 | 9.24 | 14888 | 9.38 | 14534 | 9.54 | 13807 | 9.85 | 12998 | 10.04 | 12069 | 10.06 | 10819 | 9.78 | | | |

VAHF, Size 29

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 29TF734 | 816 | 1 | 8293 | 0.95 | 7023 | 1.01 | | | | | | | | | | | | | | | | | | | |
| 29TF734 | 934 | 1 1/2 | 9798 | 1.39 | 8784 | 1.49 | 7461 | 1.50 | | | | | | | | | | | | | | | | | |
| 29TF734 | 1028 | 2 | 10972 | 1.83 | 10073 | 1.94 | 9051 | 2.01 | 7559 | 1.94 | | | | | | | | | | | | | | | |
| 29TF734 | 1177 | 3 | 12798 | 2.72 | 12025 | 2.84 | 11221 | 2.96 | 10295 | 3.02 | 9068 | 2.96 | | | | | | | | | | | | | |
| 29TF734 | 1395 | 5 | 15425 | 4.47 | 14786 | 4.61 | 14126 | 4.75 | 13450 | 4.90 | 12707 | 5.01 | 11866 | 5.03 | | | | | | | | | | | |
| 29TF734 | 1597 | 7 1/2 | 17829 | 6.65 | 17277 | 6.81 | 16710 | 6.97 | 16132 | 7.14 | 15544 | 7.32 | 14921 | 7.47 | 13473 | 7.55 | | | | | | | | | |
| 29TF734 | 1758 | 10 | 19731 | 8.83 | 19233 | 9.01 | 18724 | 9.19 | 18204 | 9.37 | 17678 | 9.56 | 17143 | 9.75 | 15977 | 10.04 | 14594 | 10.05 | | | | | | | |
| 29TF734 | 2012 | 15 | 22715 | 13.17 | 22283 | 13.38 | 21844 | 13.59 | 21397 | 13.79 | 20943 | 13.99 | 20484 | 14.20 | 19553 | 14.64 | 18546 | 15.00 | 17413 | 15.11 | 16009 | 14.95 | | | |

VAHF, Size 33

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 33TF734 | 829 | 2 | 12840 | 1.86 | 11545 | 1.98 | 9893 | 2.00 | | | | | | | | | | | | | | | | | |
| 33TF734 | 949 | 3 | 15035 | 2.74 | 13934 | 2.89 | 12733 | 3.01 | 11191 | 3.00 | | | | | | | | | | | | | | | |
| 33TF734 | 1125 | 5 | 18188 | 4.50 | 17277 | 4.66 | 16339 | 4.84 | 15333 | 5.00 | 14168 | 5.04 | 12617 | 4.92 | | | | | | | | | | | |
| 33TF734 | 1287 | 7 1/2 | 21047 | 6.67 | 20262 | 6.86 | 19453 | 7.06 | 18630 | 7.26 | 17760 | 7.45 | 16787 | 7.54 | 14180 | 7.31 | | | | | | | | | |
| 33TF734 | 1417 | 10 | 23322 | 8.86 | 22615 | 9.07 | 21889 | 9.28 | 21148 | 9.50 | 20397 | 9.73 | 19605 | 9.93 | 17776 | 10.07 | 14973 | 9.58 | | | | | | | |
| 33TF734 | 1622 | 15 | 26885 | 13.21 | 26272 | 13.45 | 25648 | 13.70 | 25011 | 13.94 | 24364 | 14.19 | 23713 | 14.45 | 22341 | 14.92 | 20768 | 15.11 | 18764 | 14.89 | | | | | |
| 33TF734 | 1785 | 20 | 29703 | 17.55 | 29149 | 17.82 | 28586 | 18.09 | 28015 | 18.35 | 27433 | 18.62 | 26845 | 18.89 | 25654 | 19.47 | 24376 | 19.95 | 22939 | 20.13 | 21208 | 19.97 | | | |

VAHF, Size 38

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 38TF734 | 645 | 2 | 14889 | 1.89 | 13081 | 1.98 | | | | | | | | | | | | | | | | | | | |
| 38TF734 | 739 | 3 | 17515 | 2.79 | 16020 | 2.93 | 14323 | 3.01 | | | | | | | | | | | | | | | | | |
| 38TF734 | 876 | 5 | 21248 | 4.56 | 20026 | 4.77 | 18738 | 4.90 | 17306 | 4.99 | 15524 | 5.03 | | | | | | | | | | | | | |
| 38TF734 | 1003 | 7 1/2 | 24649 | 6.76 | 23603 | 7.03 | 22513 | 7.23 | 21376 | 7.37 | 20131 | 7.47 | 18762 | 7.55 | | | | | | | | | | | |
| 38TF734 | 1104 | 10 | 27327 | 8.94 | 26388 | 9.25 | 25414 | 9.51 | 24411 | 9.71 | 23363 | 9.84 | 22225 | 9.96 | 19454 | 10.05 | | | | | | | | | |
| 38TF734 | 1263 | 15 | 31512 | 13.27 | 30700 | 13.64 | 29867 | 13.97 | 29010 | 14.26 | 28135 | 14.49 | 27235 | 14.66 | 25276 | 14.93 | 22992 | 15.09 | | | | | | | |
| 38TF734 | 1390 | 20 | 34833 | 17.60 | 34101 | 18.02 | 33353 | 18.40 | 32588 | 18.75 | 31805 | 19.06 | 31009 | 19.30 | 29351 | 19.65 | 27527 | 19.94 | 25446 | 20.11 | | | | | |
| 38TF734 | 1498 | 25 | 37648 | 21.95 | 36972 | 22.41 | 36283 | 22.84 | 35581 | 23.23 | 34865 | 23.59 | 34134 | 23.91 | 32641 | 24.38 | 31052 | 24.71 | 29327 | 25.01 | 27350 | 25.17 | 23999 | 24.62 | |

VAHF, Size 43

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-------|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 43TF734 | 526 | 2 | 17242 | 1.93 | 14612 | 2.02 | | | | | | | | | | | | | | | | | | | |
| 43TF734 | 603 | 3 | 20411 | 2.85 | 18285 | 2.98 | 15614 | 3.04 | | | | | | | | | | | | | | | | | |
| 43TF734 | 714 | 5 | 24847 | 4.62 | 23128 | 4.85 | 21263 | 4.97 | 19084 | 5.06 | | | | | | | | | | | | | | | |
| 43TF734 | 818 | 7 1/2 | 28917 | 6.85 | 27449 | 7.15 | 25913 | 7.36 | 24250 | 7.49 | 22400 | 7.59 | 19597 | 7.50 | | | | | | | | | | | |
| 43TF734 | 900 | 10 | 32088 | 9.05 | 30772 | 9.40 | 29401 | 9.67 | 27976 | 9.86 | 26425 | 9.99 | 24742 | 10.11 | | | | | | | | | | | |
| 43TF734 | 1030 | 15 | 37070 | 13.42 | 35937 | 13.85 | 34767 | 14.22 | 33562 | 14.52 | 32322 | 14.73 | 31010 | 14.90 | 28087 | 15.16 | | | | | | | | | |
| 43TF734 | 1134 | 20 | 41028 | 17.80 | 40007 | 18.29 | 38959 | 18.73 | 37883 | 19.11 | 36783 | 19.42 | 35655 | 19.65 | 33215 | 20.00 | 30456 | 20.26 | | | | | | | |
| 43TF734 | 1222 | 25 | 44362 | 22.19 | 43420 | 22.73 | 42456 | 23.22 | 41471 | 23.66 | 40462 | 24.04 | 39437 | 24.35 | 37296 | 24.79 | 34940 | 25.15 | 32211 | 25.35 | | | | | |
| 43TF734 | 1298 | 30 | 47233 | 26.52 | 46349 | 27.09 | 45448 | 27.63 | 44529 | 28.12 | 43590 | 28.56 | 42634 | 28.94 | 40672 | 29.50 | 38560 | 29.90 | 36274 | 30.26 | 33432 | 30.34 | | | |

Performance shown is with outlet ducts.
BHP includes belt drive losses.

VAHF, Size 48

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 48TF734 | 503 | 3 | 23320 | 2.89 | 20368 | 3.03 | | | | | | | | | | | | | | | | | | | |
| 48TF734 | 596 | 5 | 28555 | 4.70 | 26224 | 4.93 | 23603 | 5.06 | 19634 | 5.02 | | | | | | | | | | | | | | | |
| 48TF734 | 682 | 7 1/2 | 33278 | 6.93 | 31289 | 7.26 | 29186 | 7.45 | 26832 | 7.59 | 23696 | 7.60 | | | | | | | | | | | | | |
| 48TF734 | 751 | 10 | 37015 | 9.17 | 35237 | 9.56 | 33379 | 9.84 | 31397 | 10.01 | 29206 | 10.16 | 26333 | 10.16 | | | | | | | | | | | |
| 48TF734 | 859 | 15 | 42803 | 13.56 | 41276 | 14.05 | 39689 | 14.45 | 38055 | 14.74 | 36334 | 14.94 | 34465 | 15.12 | 29611 | 15.17 | | | | | | | | | |
| 48TF734 | 946 | 20 | 47428 | 17.99 | 46054 | 18.55 | 44637 | 19.03 | 43178 | 19.43 | 41683 | 19.72 | 40118 | 19.94 | 36667 | 20.31 | 31523 | 20.12 | | | | | | | |
| 48TF734 | 1019 | 25 | 51289 | 22.39 | 50021 | 23.00 | 48720 | 23.54 | 47383 | 24.02 | 46017 | 24.41 | 44618 | 24.70 | 41594 | 25.14 | 38189 | 25.47 | | | | | | | |
| 48TF734 | 1083 | 30 | 54663 | 26.79 | 53474 | 27.45 | 52260 | 28.05 | 51016 | 28.58 | 49743 | 29.05 | 48449 | 29.42 | 45735 | 29.95 | 42744 | 30.39 | 39145 | 30.57 | | | | | |
| 48TF734 | 1192 | 40 | 60389 | 35.56 | 59316 | 36.30 | 58223 | 36.99 | 57109 | 37.62 | 55973 | 38.20 | 54815 | 38.71 | 52448 | 39.47 | 49935 | 40.01 | 47206 | 40.50 | 44126 | 40.79 | 39267 | 40.13 | |

VAHF, Size 54

| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|-----|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-----|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 54TF734 | 412 | 3 | 26623 | 2.90 | 22346 | 3.03 | | | | | | | | | | | | | | | | | | | |
| 54TF734 | 488 | 5 | 32818 | 4.70 | 29540 | 4.93 | 25570 | 5.04 | | | | | | | | | | | | | | | | | |
| 54TF734 | 559 | 7 1/2 | 38437 | 6.95 | 35672 | 7.29 | 32642 | 7.47 | 28997 | 7.58 | | | | | | | | | | | | | | | |
| 54TF734 | 615 | 10 | 42797 | 9.15 | 40322 | 9.57 | 37713 | 9.83 | 34808 | 10.02 | 31163 | 10.07 | | | | | | | | | | | | | |
| 54TF734 | 704 | 15 | 49638 | 13.54 | 47520 | 14.08 | 45312 | 14.50 | 43006 | 14.77 | 40480 | 14.98 | 37695 | 15.13 | | | | | | | | | | | |
| 54TF734 | 775 | 20 | 55041 | 17.93 | 53139 | 18.55 | 51167 | 19.08 | 49135 | 19.46 | 47010 | 19.74 | 44704 | 19.97 | 39038 | 20.14 | | | | | | | | | |
| 54TF734 | 835 | 25 | 59581 | 22.31 | 57828 | 23.00 | 56021 | 23.60 | 54159 | 24.10 | 52250 | 24.46 | 50246 | 24.73 | 45816 | 25.19 | 38722 | 24.78 | | | | | | | |
| 54TF734 | 887 | 30 | 63500 | 26.64 | 61858 | 27.39 | 60172 | 28.06 | 58438 | 28.64 | 56666 | 29.09 | 54843 | 29.43 | 50873 | 29.97 | 46222 | 30.28 | | | | | | | |
| 54TF734 | 977 | 40 | 70256 | 35.41 | 68776 | 36.26 | 67263 | 37.04 | 65716 | 37.74 | 64132 | 38.35 | 62523 | 38.85 | 59168 | 39.56 | 55478 | 40.13 | 51254 | 40.47 | | | | | |

VAHF, Size 60

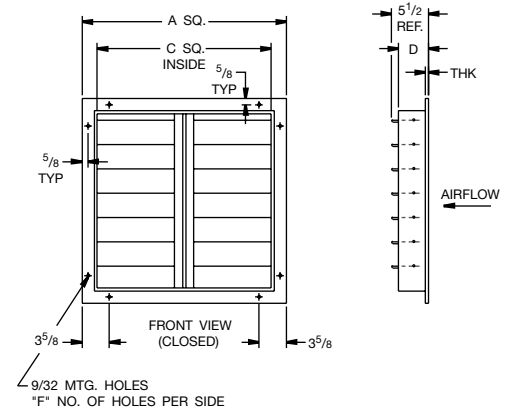
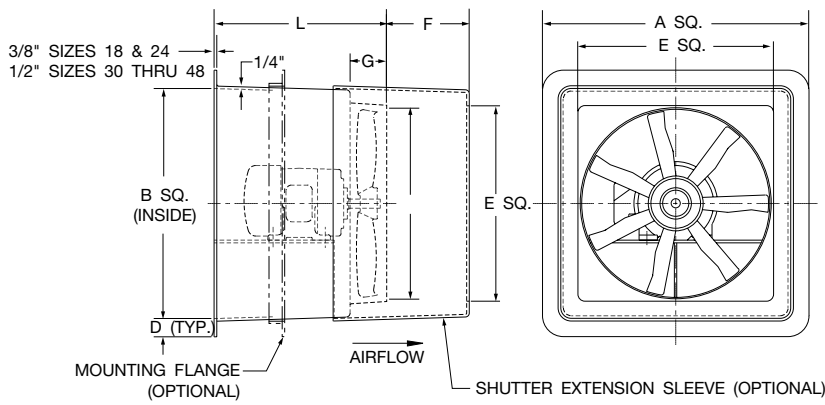
| PROP | RPM | HP | 1/4" SP | | 1/2" SP | | 3/4" SP | | 1" SP | | 1 1/4" SP | | 1 1/2" SP | | 2" SP | | 2 1/2" SP | | 3" SP | | 3 1/2" SP | | 4" SP | | |
|---------|-----|-------|---------|-------|---------|-------|---------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----------|-------|-------|-------|-----------|-----|-------|-----|-----|
| | | | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM | BHP | CFM |
| 60TF734 | 413 | 5 | 37620 | 4.87 | 33189 | 5.10 | 26589 | 5.09 | | | | | | | | | | | | | | | | | |
| 60TF734 | 473 | 7 1/2 | 44205 | 7.18 | 40527 | 7.53 | 36375 | 7.73 | 29257 | 7.55 | | | | | | | | | | | | | | | |
| 60TF734 | 520 | 10 | 49266 | 9.43 | 45981 | 9.89 | 42446 | 10.14 | 38386 | 10.32 | | | | | | | | | | | | | | | |
| 60TF734 | 596 | 15 | 57331 | 14.00 | 54527 | 14.60 | 51595 | 15.02 | 48454 | 15.29 | 44977 | 15.51 | 40237 | 15.47 | | | | | | | | | | | |
| 60TF734 | 656 | 20 | 63626 | 18.50 | 61111 | 19.21 | 58494 | 19.77 | 55783 | 20.15 | 52859 | 20.42 | 49697 | 20.67 | | | | | | | | | | | |
| 60TF734 | 706 | 25 | 68837 | 22.93 | 66519 | 23.72 | 64119 | 24.38 | 61646 | 24.88 | 59072 | 25.23 | 56286 | 25.52 | 49696 | 25.84 | | | | | | | | | |
| 60TF734 | 750 | 30 | 73402 | 27.38 | 71233 | 28.23 | 68997 | 28.97 | 66692 | 29.58 | 64330 | 30.02 | 61847 | 30.36 | 56354 | 30.92 | 47287 | 30.32 | | | | | | | |
| 60TF734 | 826 | 40 | 81252 | 36.36 | 79298 | 37.33 | 77295 | 38.20 | 75239 | 38.97 | 73137 | 39.60 | 70990 | 40.08 | 66378 | 40.80 | 61242 | 41.36 | 53178 | 40.75 | | | | | |

Performance shown is with outlet ducts.
BHP includes belt drive losses.



Fiberglass Panel Fans

Model TCWPF



| SIZE | A | B | C | D | E | F | G | L | MAX. MTR. FRAME |
|------|-------|-------|-------|------|-------|-------|------|-------|-----------------|
| 12 | 19.00 | 16.00 | 12.06 | 1.50 | 12.50 | 6.50 | 3.00 | 15.63 | 48 |
| 14 | 21.00 | 18.00 | 14.06 | 1.50 | 14.50 | 6.50 | 4.00 | 16.81 | 56 |
| 16 | 23.00 | 20.00 | 16.06 | 1.50 | 16.50 | 6.50 | 4.00 | 16.81 | 56 |
| 18 | 25.44 | 22.00 | 18.06 | 1.72 | 18.50 | 6.50 | 4.00 | 16.81 | 145T |
| 24 | 31.25 | 28.00 | 24.06 | 1.63 | 24.50 | 8.50 | 4.00 | 18.75 | 182T |
| 30 | 39.50 | 36.00 | 30.06 | 1.75 | 30.50 | 10.50 | 5.25 | 18.75 | 184T |
| 36 | 45.50 | 42.00 | 36.06 | 1.75 | 36.50 | 12.50 | 5.25 | 18.75 | 215T |
| 42 | 52.00 | 48.00 | 42.06 | 2.00 | 42.50 | 14.50 | 5.00 | 25.00 | 256T |
| 48 | 58.00 | 54.00 | 48.06 | 2.00 | 48.50 | 16.50 | 5.00 | 25.00 | 256T |

R-13259-00-E

*MINIMUM WALL OPENING REQUIRED FOR FACE MOUNTING.

| SIZE | A | C | D | F | THK | MAX. CFM |
|------|-------|-------|------|------|------|----------|
| 12 | 15.50 | 12.50 | 3.00 | 2.00 | 0.13 | 2713 |
| 14 | 15.50 | 12.50 | 3.00 | 2.00 | 0.13 | 3650 |
| 16 | 19.50 | 16.50 | 3.00 | 2.00 | 0.13 | 4726 |
| 18 | 21.50 | 18.50 | 3.00 | 2.00 | 0.13 | 5942 |
| 24 | 27.50 | 24.50 | 3.00 | 2.00 | 0.13 | 10421 |
| 30 | 33.50 | 30.50 | 3.00 | 2.00 | 0.13 | 16150 |
| 36 | 39.50 | 36.50 | 3.00 | 2.00 | 0.13 | 23129 |
| 42 | 45.50 | 42.50 | 3.00 | 2.00 | 0.13 | 31359 |
| 48 | 51.50 | 48.50 | 3.00 | 2.00 | 0.13 | 40838 |

(For Exhaust Only) R-32183-00-A

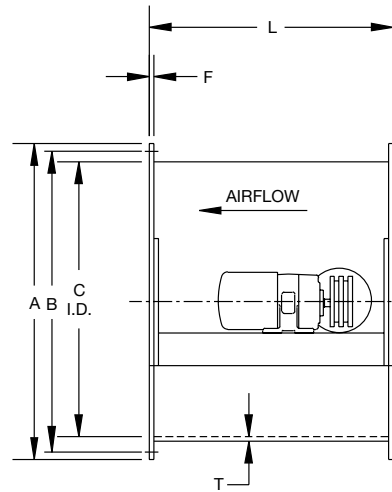
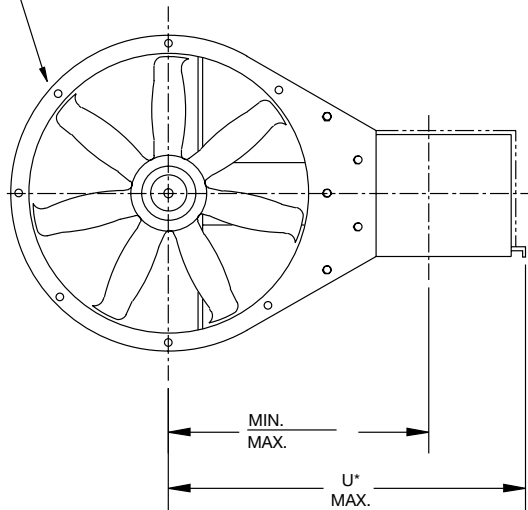
DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION.



Fiberglass Tubeaxials and Vaneaxials

Model TAMF

"G" DIA. HOLE (H)
REQ.'D EQUAL SPACE



| SIZE | A | B | C | F | G | H | L | T | U* |
|------|-------|-------|-------|------|------|-------|-------|------|-------|
| 14 | 18.38 | 15.88 | 14.38 | 0.38 | 0.31 | 8.00 | 18.38 | 0.09 | 23.13 |
| 16 | 20.38 | 18.25 | 16.38 | 0.38 | 0.31 | 8.00 | 18.38 | 0.09 | 24.13 |
| 18 | 22.38 | 20.38 | 18.38 | 0.38 | 0.31 | 8.00 | 18.38 | 0.09 | 25.13 |
| 24 | 28.38 | 26.56 | 24.38 | 0.38 | 0.31 | 8.00 | 21.00 | 0.13 | 31.63 |
| 30 | 34.50 | 33.00 | 30.50 | 0.38 | 0.44 | 8.00 | 27.75 | 0.13 | 34.88 |
| 36 | 40.75 | 39.44 | 36.75 | 0.50 | 0.44 | 8.00 | 27.75 | 0.13 | 42.00 |
| 42 | 46.75 | 45.44 | 42.75 | 0.50 | 0.44 | 8.00 | 27.75 | 0.16 | 44.88 |
| 48 | 52.75 | 51.56 | 48.75 | 0.50 | 0.44 | 8.00 | 32.00 | 0.19 | 47.88 |
| 54 | 59.25 | 57.25 | 54.75 | 0.50 | 0.56 | 12.00 | 36.00 | 0.28 | 54.00 |
| 60 | 65.25 | 63.25 | 60.75 | 0.50 | 0.56 | 12.00 | 36.00 | 0.38 | 57.38 |

*U dimension based on maximum motor frame for each size.

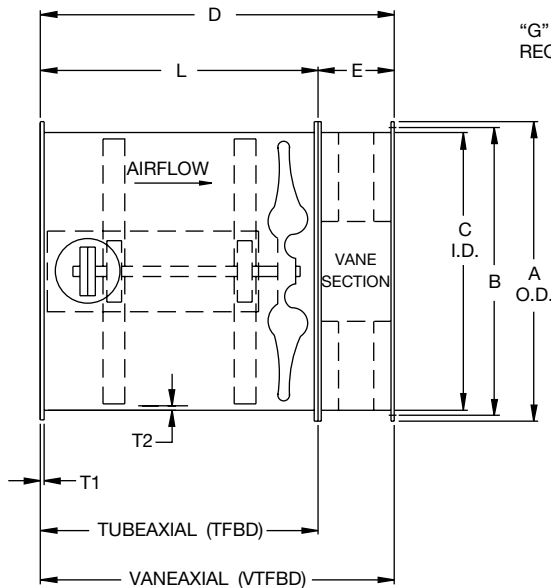
Dimensions in inches.

R-2340-00-D

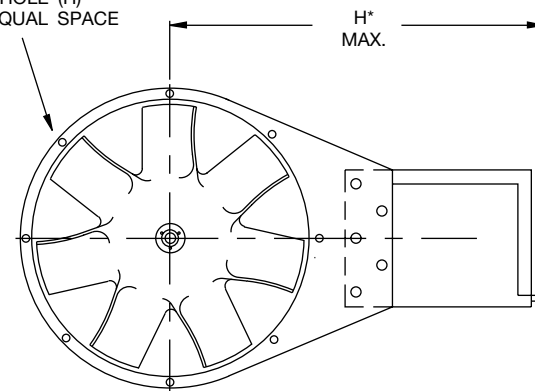
R-10101-00

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION.

Models TAHF and VAHF



"G" DIA. HOLE (H)
REQ.'D EQUAL SPACE



| SIZE | A | B | C | D | E | F | G | H | L | T1 | T2 |
|------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|------|
| 12 | 15.50 | 14.38 | 12.25 | 26.00 | 6.00 | 0.31 | 8.00 | 26.25 | 20.00 | 0.38 | 0.19 |
| 15 | 19.50 | 18.25 | 15.25 | 26.00 | 6.00 | 0.31 | 8.00 | 27.63 | 20.00 | 0.38 | 0.19 |
| 18 | 21.50 | 20.38 | 18.19 | 30.00 | 6.00 | 0.31 | 8.00 | 29.13 | 24.00 | 0.38 | 0.19 |
| 22 | 25.50 | 24.25 | 22.19 | 32.00 | 8.00 | 0.31 | 8.00 | 31.63 | 24.00 | 0.38 | 0.19 |
| 25 | 29.31 | 28.00 | 25.31 | 42.50 | 10.50 | 0.31 | 8.00 | 39.25 | 32.00 | 0.38 | 0.25 |
| 29 | 33.25 | 32.00 | 29.25 | 47.00 | 11.00 | 0.44 | 8.00 | 42.75 | 36.00 | 0.38 | 0.25 |
| 33 | 37.31 | 36.00 | 33.31 | 51.00 | 15.00 | 0.44 | 8.00 | 44.75 | 36.00 | 0.38 | 0.31 |
| 38 | 42.31 | 41.00 | 38.31 | 57.00 | 15.00 | 0.44 | 8.00 | 49.25 | 42.00 | 0.38 | 0.31 |
| 43 | 47.38 | 46.13 | 43.38 | 61.00 | 19.00 | 0.44 | 8.00 | 51.75 | 42.00 | 0.50 | 0.38 |
| 48 | 52.44 | 51.56 | 48.44 | 67.00 | 19.00 | 0.44 | 8.00 | 60.75 | 48.00 | 0.50 | 0.38 |
| 54 | 58.50 | 57.25 | 54.25 | 84.00 | 24.00 | 0.56 | 12.00 | 67.75 | 60.00 | 0.50 | 0.38 |
| 60 | 64.50 | 63.25 | 60.50 | 84.00 | 24.00 | 0.56 | 12.00 | 70.50 | 60.00 | 0.50 | 0.38 |

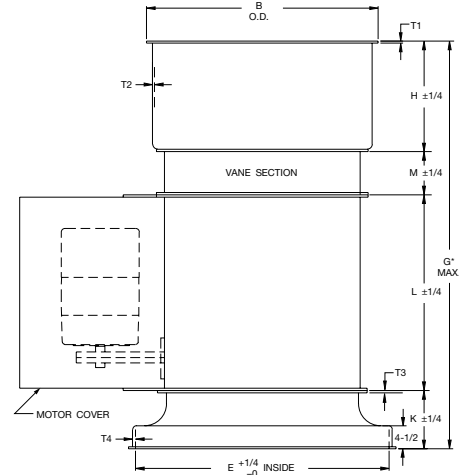
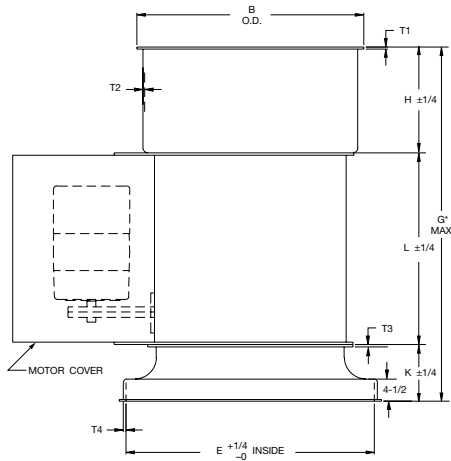
Dimensions in inches.

R-8756-00-G

R-10101-00

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION.

Fiberglass Roof Ventilators



*Includes allowance for gasketing between sections

NOTES:

1. 316 stainless steel shaft.
2. Propeller end cover plate fitted with shaft seal.
3. Bearings are sealed pillow block type with grease tubes extending to outside of fan housing.
4. Motor cover is standard.

Model PRVF

| SIZE | CFM** | B | E | G* | H | K | L | STACK CAP | | BASE | |
|------|-------|-------|-------|-------|-------|-------|-------|-----------|------|------|------|
| | | | | | | | | T1 | T2 | T3 | T4 |
| 14 | 1200 | 20.50 | 24.88 | 33.25 | 6.00 | 8.13 | 18.38 | 0.25 | 0.09 | 0.31 | 0.16 |
| 16 | 2000 | 22.50 | 27.88 | 35.13 | 8.00 | 8.00 | 18.38 | 0.25 | 0.09 | 0.31 | 0.16 |
| 18 | 2700 | 24.50 | 29.88 | 35.13 | 8.00 | 8.00 | 18.38 | 0.25 | 0.09 | 0.38 | 0.19 |
| 24 | 4700 | 31.00 | 35.81 | 42.25 | 11.00 | 9.50 | 21.00 | 0.25 | 0.13 | 0.38 | 0.19 |
| 30 | 7600 | 39.00 | 43.81 | 52.50 | 14.00 | 10.00 | 27.75 | 0.25 | 0.13 | 0.38 | 0.19 |
| 36 | 11000 | 45.00 | 49.81 | 56.50 | 18.00 | 10.00 | 27.75 | 0.25 | 0.13 | 0.50 | 0.25 |
| 42 | 15000 | 51.00 | 55.81 | 61.00 | 21.00 | 11.50 | 27.75 | 0.25 | 0.13 | 0.50 | 0.25 |
| 48 | 19600 | 58.00 | 61.81 | 67.25 | 24.00 | 10.50 | 32.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 54 | 24000 | 65.00 | 70.00 | 75.50 | 27.00 | 11.75 | 36.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 60 | 29500 | 72.00 | 78.00 | 78.50 | 30.00 | 11.75 | 36.00 | 0.25 | 0.13 | 0.50 | 0.25 |

Dimensions in inches.

R-13429-00-J

Model TAHF

| SIZE | CFM** | B | E | G* | H | K | L | STACK CAP | | BASE | |
|------|-------|-------|-------|-------|-------|-------|-------|-----------|------|------|------|
| | | | | | | | | T1 | T2 | T3 | T4 |
| 12 | 1200 | 19.63 | 23.88 | 35.00 | 6.00 | 8.25 | 20.00 | 0.25 | 0.09 | 0.31 | 0.16 |
| 15 | 1800 | 22.50 | 27.88 | 36.75 | 8.00 | 8.00 | 20.00 | 0.25 | 0.09 | 0.31 | 0.16 |
| 18 | 2700 | 24.50 | 29.88 | 40.75 | 8.00 | 8.00 | 24.00 | 0.25 | 0.09 | 0.38 | 0.19 |
| 22 | 4700 | 29.50 | 33.81 | 43.75 | 11.00 | 7.63 | 24.00 | 0.25 | 0.13 | 0.38 | 0.19 |
| 25 | 7600 | 33.25 | 37.81 | 54.75 | 12.00 | 10.00 | 32.00 | 0.25 | 0.13 | 0.38 | 0.19 |
| 29 | 7600 | 37.25 | 43.81 | 59.25 | 14.00 | 8.50 | 36.00 | 0.25 | 0.13 | 0.38 | 0.19 |
| 33 | 11000 | 41.25 | 46.81 | 64.25 | 17.00 | 10.50 | 36.00 | 0.25 | 0.13 | 0.38 | 0.25 |
| 38 | 15000 | 46.50 | 51.81 | 73.00 | 19.00 | 11.25 | 42.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 43 | 19600 | 51.50 | 56.81 | 76.50 | 22.00 | 11.75 | 42.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 48 | 19600 | 58.00 | 61.81 | 83.25 | 24.00 | 10.50 | 48.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 54 | 24000 | 65.00 | 70.00 | 99.25 | 27.00 | 11.75 | 60.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 60 | 29500 | 72.00 | 78.00 | 102.5 | 30.00 | 11.75 | 60.00 | 0.25 | 0.13 | 0.50 | 0.25 |

Dimensions in inches.

R-13429-00-J

Model VAHF

| SIZE | CFM** | B | E | G* | H | K | L | M | STACK CAP | | BASE | |
|------|-------|-------|-------|--------|-------|-------|-------|-------|-----------|------|------|------|
| | | | | | | | | | T1 | T2 | T3 | T4 |
| 12 | 1200 | 19.63 | 23.88 | 41.25 | 6.00 | 8.25 | 20.00 | 6.00 | 0.25 | 0.09 | 0.31 | 0.16 |
| 15 | 1800 | 22.50 | 27.88 | 43.00 | 8.00 | 8.00 | 20.00 | 6.00 | 0.25 | 0.09 | 0.31 | 0.16 |
| 18 | 2700 | 24.50 | 29.88 | 47.00 | 8.00 | 8.00 | 24.00 | 6.00 | 0.25 | 0.09 | 0.38 | 0.19 |
| 22 | 4700 | 29.50 | 33.81 | 51.63 | 11.00 | 7.63 | 24.00 | 8.00 | 0.25 | 0.13 | 0.38 | 0.19 |
| 25 | 7600 | 33.25 | 37.81 | 66.50 | 12.00 | 10.00 | 32.00 | 10.50 | 0.25 | 0.13 | 0.38 | 0.19 |
| 29 | 7600 | 37.25 | 43.81 | 70.50 | 14.00 | 8.50 | 36.00 | 11.00 | 0.25 | 0.13 | 0.38 | 0.19 |
| 33 | 11000 | 41.25 | 46.81 | 79.50 | 17.00 | 10.50 | 36.00 | 15.00 | 0.25 | 0.13 | 0.38 | 0.25 |
| 38 | 15000 | 46.50 | 51.81 | 88.25 | 19.00 | 11.25 | 42.00 | 15.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 43 | 19600 | 51.50 | 56.81 | 95.75 | 22.00 | 11.75 | 42.00 | 19.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 48 | 19600 | 58.00 | 61.81 | 102.50 | 24.00 | 10.50 | 48.00 | 19.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 54 | 24000 | 65.00 | 70.00 | 123.75 | 27.00 | 11.75 | 60.00 | 24.00 | 0.25 | 0.13 | 0.50 | 0.25 |
| 60 | 29500 | 72.00 | 78.00 | 126.75 | 30.00 | 11.75 | 60.00 | 24.00 | 0.25 | 0.13 | 0.50 | 0.25 |

Dimensions in inches.

R-13428-00-H

**MINIMUM CFM REQUIRED FOR FULL OPEN DAMPER OPERATION.

DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION.



Model TCWPF

Fiberglass fans, where indicated on drawings and schedules, shall be Model TCWPF Type FG Direct Drive Panel Fans as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota, and shall be of the size and capacity indicated in the fan schedule. Model TCWPF fans shall be tested in accordance with ANSI/ASHRAE 51 and ANSI/AMCA 210 test codes and shall be guaranteed by the manufacturer to deliver at the rated published performance levels. In addition, each unit shall be factory run tested prior to shipment.

CONSTRUCTION — The fan housing shall be constructed of a fire-retardant polyester resin with ASTME-84 Class 1 flame spread of <25, reinforced with fiberglass cloth, mat with integral flanges, and constructed with a solid FRP motor base that is reinforced with solid FRP support struts. Stainless steel airstream hardware shall be used for maximum corrosion resistance.

PROPELLER — The Model TCWPF Type FG 7-bladed propeller shall be constructed using glass cloth impregnated with vinyl ester resin. Propellers shall be statically and dynamically balanced to ensure quiet operation.

MOTORS — Fan motors shall be foot-mounted NEMA Design B, heavy duty industrial, continuous duty, variable-torque and shall be provided with the enclosure type, voltage, phase and hertz as listed in the fan schedule. Unless otherwise specified, all motors shall be equipped with ball bearings for heavy duty performance. Motor bearings shall have a minimum L-10 life, defined by AFBMA, of at least 40,000 hours (200,000 hours average life).

BALANCING — The propeller assembly shall be statically and dynamically balanced in accordance with ANSI/AMCA 204 “Balance Quality and Vibration Levels for Fans” to Fan Application Category BV-3, Balance Quality Grade G6.3. In addition, belt driven fan propellers shall be balanced on their fan shaft after final assembly in the fan casing, in the manufacturing facility, to the following peak velocity values, filter-in, at the fan test speed:

| Fan Application Category | Rigidly Mounted (in./s) | Flexibly Mounted (in./s) |
|--------------------------|-------------------------|--------------------------|
| BV-3 | 0.15 | 0.20 |

FINISH — All fans shall be coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal the surface and provide a smooth finish. Optional resins and finishes include: Vinyl Ester, Surface Veil and Fire-Retardant Resin.

ACCESSORIES — The fan(s) shall be furnished complete with:

- Inlet Guard – Square Motor Side Expanded Metal (304SS/316SS)
- Outlet Guard – Round Prop Side Expanded Metal (304SS/316SS)
- FRP Shutter Extension Sleeve
- FRP Automatic Shutter
- Optional Mounting Flange
- Stainless Steel Mounting Adapter
- Stainless Steel Automatic Shutter





Model PRVF

Fiberglass fans, where indicated on drawings and schedules, shall be Model PRVF Type FG Belt Driven Roof Ventilators as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota, and shall be of the size and capacity indicated in the fan schedule. Model PRVF fans shall be tested in accordance with ANSI/ASHRAE 51 and ANSI/AMCA 210 test codes and guaranteed by the manufacturer to deliver at the rated published performance levels. In addition, each unit shall be factory run tested prior to shipment.

CONSTRUCTION — The fan housing shall be constructed of a fire-retardant polyester resin with ASTME-84 Class 1 flame spread of <25, reinforced with fiberglass cloth, and mat with integral flanges. The flanges are designed to ensure housing concentricity, housing strength and to permit duct mounting. Fan shall include a fiberglass stack cap constructed with a one-piece wind band with drain channels and drain holes. Fan shall include a one-piece fiberglass curb base with seamless construction. Tapered gussets interlocked into the outer housing shall support the bearing base and drive enclosure. A Viton type shaft seal and Teflon wear plate, to protect the shaft and bearings, shall be supplied as standard. The motor base shall be constructed of mild steel and bolted between gussets integral with the fan housing flanges. The motor cover shall be constructed of fiberglass and shall be supplied as standard. The motor base shall be finished with a gray air dried epoxy paint.

Bearings and belts are enclosed in an air insulated fiberglass housing to protect them from the airstream gases, fumes and vapors.

PROPELLER — The Model PRVF Type FG propeller shall be constructed using glass cloth impregnated with vinyl ester resin and shall be secured to a 316 stainless steel fan shaft by a stainless steel retainer bolt and washer. Propellers shall be statically and dynamically balanced to ensure quiet operation.

BEARINGS — Model PRVF belt driven fans shall be supplied with pillow block type bearings with lubrication lines extended to the outside of the fan housing for easy maintenance. Bearings shall have a minimum L-10 life as defined by AFBMA of at least 20,000 hours (100,000 hours average life). Bearings and belts shall be enclosed in an air-insulated fiberglass housing for protection.

DRIVE — All drive selections on Model PRVF belt driven fans shall be designed with a 1.4 service factor, unless otherwise specified. Sheaves shall be cast iron with static conducting belts. Belt adjustment shall be accomplished with an adjustable motor slide rail base.

MOTORS — Belt driven fan motors shall be NEMA Design B, standard industrial, continuous duty, ball bearing, variable torque and shall be provided with the enclosure type, voltage, phase and hertz as listed in the fan schedule. Unit shall be supplied with a bolt-on fiberglass motor cover.

BALANCING — The propeller assembly shall be statically and dynamically balanced in accordance with ANSI/AMCA 204 “Balance Quality and Vibration Levels for Fans” to Fan Application Category BV-3, Balance Quality Grade G6.3. In addition, belt driven fan propellers shall be balanced on their fan shaft after final assembly in the fan casing, in the manufacturing facility, to the following peak velocity values, filter-in, at the fan test speed:

| Fan Application Category | Rigidly Mounted (in./s) | Flexibly Mounted (in./s) |
|--------------------------|-------------------------|--------------------------|
| BV-3 | 0.15 | 0.20 |

FINISH — All fiberglass parts shall be coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal the surface and provide a smooth finish. Optional resins and finishes include: Vinyl Ester, Surface Veil and Fire-Retardant Resin. All steel parts shall be finished with a gray air-dried epoxy paint.

ACCESSORIES — The fan(s) shall be furnished complete with:

- Stack Cap Bird Screen
- Spark Resistant Construction
- Bolted Inspection Door
- Exterior 316 Stainless Steel Hardware



Model TAMF

Fiberglass fans, where indicated on drawings and schedules, shall be Model TAMF Type FG Belt Driven Tubeaxial Fans as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota, and shall be of the size and capacity indicated in the fan schedule. Model TAMF fans shall be tested in accordance with ANSI/ASHRAE 51 and ANSI/AMCA 210 test codes and guaranteed by the manufacturer to deliver at the rated published performance levels. In addition, each unit shall be factory run tested prior to shipment.

CONSTRUCTION — The fan housing shall be constructed of a polyester resin reinforced with fiberglass cloth and mat with integral flanges. The flanges are designed to ensure housing concentricity, housing strength and to permit duct mounting. Tapered gussets interlocked into the outer housing shall support the bearing base and drive enclosure. A shaft seal fitted with a rotary elastomeric seal that rides against a PTFE wear plate to protect the shaft and bearings, shall be supplied as standard. The motor base shall be constructed of mild steel and bolted between gussets integral with the fan housing flanges. The motor cover shall be constructed of fiberglass and shall be supplied as standard. The motor base shall be finished with a gray air dried epoxy paint.

Bearings and belts are enclosed in an air insulated fiberglass housing to protect them from the airstream gases, fumes and vapors.

PROPELLER — The Model TAMF Type FG propeller shall be constructed using glass cloth impregnated with vinyl ester resin and shall be secured to a 316 stainless steel fan shaft by a stainless steel retainer bold and washer. Propellers shall be statically and dynamically balanced to ensure quiet operation.

BEARINGS — Model TAMF belt driven fans shall be supplied with pillow block type bearings with lubrication lines extended to the outside of the fan housing for easy maintenance. Bearings shall have a minimum L-10 life as defined by AFBMA of at least 20,000 hours (100,000 hours average life). Bearings and belts shall be enclosed in an air-insulated fiberglass housing for protection.

DRIVE — All drive selections on Model TAMF belt driven fans shall be designed with a 1.4 service factor, unless otherwise specified. Sheaves shall be cast iron with static conducting belts. Belt adjustment shall be accomplished with an adjustable motor slide rail base.

MOTORS — Belt driven fan motors shall be NEMA Design B, standard industrial, continuous duty, ball bearing, variable torque and shall be provided with the enclosure type, voltage, phase and hertz as listed in the fan schedule. Unit shall be supplied with a bolt-on fiberglass motor cover.

BALANCING — The propeller assembly shall be statically and dynamically balanced in accordance with ANSI/AMCA 204 “Balance Quality and Vibration Levels for Fans” to Fan Application Category BV-3, Balance Quality Grade G6.3. In addition, belt driven fan propellers shall be balanced on their fan shaft after final assembly in the fan casing, in the manufacturing facility, to the following peak velocity values, filter-in, at the fan test speed:

| Fan Application | Rigidly Mounted | Flexibly Mounted |
|-----------------|-----------------|------------------|
| Category | (in./s) | (in./s) |
| BV-3 | 0.15 | 0.20 |

FINISH — All fiberglass parts shall be coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal the surface and provide a smooth finish. Optional resins and finishes include Vinyl Ester, Surface Veil and Fire-Retardant Resin. All steel parts shall be finished with a gray air-dried epoxy paint.

ACCESSORIES — The fan(s) shall be furnished complete with:

- Fiberglass Curb Base
- Companion Flanges (stainless steel/steel/aluminum)
- Fiberglass Stack Cap
- Stack Cap Bird Screen
- OSHA Type Inlet/Outlet Guard
- Bolted Inspection Door
- Horizontal Support Legs
- Spark Resistant Construction
- Exterior 316 Stainless Steel Hardware

TYPICAL SPECIFICATIONS



Model

TAHF | VAHF

Fiberglass fans, where indicated on drawings and schedules, shall be Model TAHF Type TF (Tubeaxial) or VAHF Type TF (Vaneaxial) Belt Driven Fans as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota, and shall be of the size and capacity indicated in the fan schedule. Model TAHF and VAHF fans shall be tested in accordance with ANSI/ASHRAE 51 and ANSI/AMCA 210 test codes and guaranteed by the manufacturer to deliver at the rated published performance levels. In addition, each unit shall be factory run tested prior to shipment.

CONSTRUCTION — The fan housing shall be constructed of a polyester resin reinforced with fiberglass cloth and mat with integral flanges. The flanges are designed to ensure housing concentricity, housing strength and to permit duct mounting. Tapered gussets interlocked into the outer housing shall support the bearing base and drive enclosure. Straightening vanes (Model VAHF Only) constructed of laminated glass and resin shall be interconnected to the inner and outer shell. A shaft seal fitted with a rotary elastomeric seal that rides against a PTFE wear plate to protect the shaft and bearings, shall be supplied as standard. The motor base shall be constructed of mild steel and bolted between gussets integral with the fan housing flanges. The motor cover shall be constructed of fiberglass and shall be supplied as standard. The motor base shall be finished with a gray air dried epoxy paint.

Bearings and belts are enclosed in an air insulated fiberglass housing to protect them from the airstream gases, fumes and vapors.

PROPELLER — The Model TAHF and VAHF fiberglass Type TF, 7-bladed propeller shall be constructed using glass cloth impregnated with vinyl ester resin and shall be secured to a 316 stainless steel fan shaft by a stainless steel retainer bolt and washer. Propellers shall be statically and dynamically balanced to ensure quiet operation.

BEARINGS — Model TAHF and VAHF belt driven fans are to be supplied with pillow block type bearings with lubrication lines extended to the outside of the fan housing for easy maintenance. Bearings shall have a minimum L-10 life as defined by AFBMA of at least 20,000 hours (100,000 hours average life). Bearings and belts shall be enclosed in an air-insulated fiberglass housing for protection.

DRIVE — All drive selections on Model TAHF and VAHF belt driven fans shall be designed with a 1.4 service factor, unless otherwise specified. Sheaves shall be cast iron with static conducting belts. Belt adjustment shall be accomplished with an adjustable motor slide rail base.

MOTORS — Belt driven fan motors shall be NEMA Design B, standard industrial, continuous duty, ball bearing, variable torque and shall be provided with the enclosure type, voltage, phase and hertz as listed in the fan schedule. Unit shall be supplied with a bolt-on fiberglass motor cover.

BALANCING — The propeller assembly shall be statically and dynamically balanced in accordance with ANSI/AMCA 204 “Balance Quality and Vibration Levels for Fans” to Fan Application Category BV-3, Balance Quality Grade G6.3. In addition, belt driven fan propellers shall be balanced on their fan shaft after final assembly in the fan casing, in the manufacturing facility, to the following peak velocity values, filter-in, at the fan test speed:

| Fan Application Category | Rigidly Mounted (in./s) | Flexibly Mounted (in./s) |
|--------------------------|-------------------------|--------------------------|
| BV-3 | 0.15 | 0.20 |

FINISH — All fiberglass parts shall be coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal the surface and provide a smooth finish. Optional resins and finishes include Vinyl Ester, Surface Veil and Fire-Retardant Resin. All steel parts shall be finished with a gray air-dried epoxy paint.

ACCESSORIES — The fan(s) shall be furnished complete with:

- Fiberglass Curb Base
- Companion Flanges (stainless steel/steel/aluminum)
- Fiberglass Stack Cap
- Stack Cap Bird Screen
- OSHA Type Inlet/Outlet Guard
- Bolted Inspection Door
- Horizontal Support Legs
- Spark Resistant Construction
- Exterior 316 Stainless Steel Hardware



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RADIAL BLADED FANS | RADIAL TIP FANS | HIGH EFFICIENCY INDUSTRIAL FANS | PRESSURE BLOWERS
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