

# Vortex® Fans

14" to 26"



## Vortex Fans

Aerotech variable speed, direct drive Vortex® fans are built from the ground up to provide maximum performance and efficiency. High quality materials are used throughout to withstand tough environments. The streamlined fiberglass housing is smooth both inside and out and has a tough gel-coat exterior for easy maintenance. The rotationally-molded poly discharge cone is highly impact resistant and provides a smooth transition for the exhaust air. Vortex fans are styled to enhance the appearance of any production facility.

Plastic and aluminum shutters are available to match all requirements. Plastic shutters are offered in two versions, belled-inlet for highest airflow and standard for best value. Both utilize Aerotech's proven, rugged blade and hinge rod design. Stainless steel clips hold the shutter securely in the fan housing and allow for easy removal.

All the features work together to provide top performance, reduced utility bills, maximum durability and longest life. Aerotech Vortex fans are the best you can own and will prove their value year after year. Contact your Aerotech Representative or the Aerotech office for more information.

## PRODUCT INFORMATION

- Fiberglass housing is extremely rugged and corrosion resistant, maintains shape and color
- Roto-molded poly discharge cone is highly impact resistant and is Rifled™ for added performance
- Cast aluminum airfoil propeller has a stall-limiting design which prevents motor overload and increases airflow and efficiency
- Available belled-inlet plastic shutter for increased performance
- Direct drive with high efficiency variable speed motor
- Three phase models may be used on variable frequency drives at all voltages
- Stainless steel hardware ensures maximum corrosion protection
- Housing bottom slopes out toward exterior drain holes to keep building drier
- Motor support and outlet guard have two layers of corrosion protection, polyester powder coat over zinc electro-plating, for extra durability in tough environments

| <b>Performance Information: Direct Drive Fan complete with belled inlet plastic shutter, discharge cone and outlet guard</b> |           |          |          |          |              |         |          |          |          |          |          |          |          |          |          |      |
|--|-----------|----------|----------|----------|--------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|  |           |          |          |          |              | 0.0" sp |          | 0.05" sp |          | 0.10" sp |          | 0.15" sp |          | 0.20" sp |          |      |
| Catalog No.  | Prop Dia. | Motor HP | Prop RPM | Max. BHP | Shutter Type | CFM     | CFM Watt | CFM      | CFM Watt | CFM      | CFM Watt | CFM      | CFM Watt | CFM      | CFM Watt | AFR  |
| <b>Single Phase Motors</b>   |           |          |          |          |              |         |          |          |          |          |          |          |          |          |          |      |
| VX14F1CT   | 14"       | 1/8      | 1,650    | 0.13     | Belled       | 2,060   | 14.1     | 1,950    | 12.9     | 1,830    | 11.9     | 1,710    | 10.8     | 1,490    | 9.2      | 0.76 |
| VX16F1CT   | 16"       | 1/4      | 1,670    | 0.23     | Belled       | 3,370   | 14.5     | 3,180    | 13.5     | 2,990    | 12.5     | 2,790    | 11.5     | 2,500    | 10.4     | 0.79 |
| VX18F1CT   | 18"       | 1/3      | 1,660    | 0.39     | Belled       | 4,580   | 11.8     | 4,430    | 11.3     | 4,240    | 10.5     | 4,040    | 9.8      | 3,830    | 9.1      | 0.86 |
| VX24F1CT   | 24"       | 1/3      | 1,080    | 0.37     | Belled       | 6,650   | 16.5     | 6,210    | 15.0     | 5,850    | 13.7     | 5,380    | 12.5     | 4,930    | 11.2     | 0.79 |
| VX26F1CT   | 26"       | 1/3      | 1,060    | 0.39     | Belled       | 7,990   | 20.3     | 7,470    | 18.3     | 6,870    | 16.3     | 6,220    | 14.4     | 5,460    | 12.6     | 0.73 |
| <b>Three Phase Motors</b>  |           |          |          |          |              |         |          |          |          |          |          |          |          |          |          |      |
| VX24F3CT   | 24"       | 1/3      | 1,140    | 0.46     | Belled       | 6,880   | 15.8     | 6,560    | 14.7     | 6,150    | 13.5     | 5,780    | 12.3     | 5,470    | 11.6     | 0.83 |
| VX26F3CT   | 26"       | 1/3      | 1,130    | 0.49     | Belled       | 8,950   | 18.8     | 8,480    | 17.2     | 7,940    | 15.6     | 7,550    | 14.5     | 6,960    | 13.0     | 0.82 |

| <b>Performance Information: Direct Drive Fan complete with standard plastic shutter, discharge cone and outlet guard</b> |           |          |          |          |              |         |          |          |          |          |          |          |          |          |          |      |
|--|-----------|----------|----------|----------|--------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
|  |           |          |          |          |              | 0.0" sp |          | 0.05" sp |          | 0.10" sp |          | 0.15" sp |          | 0.20" sp |          |      |
| Catalog No.  | Prop Dia. | Motor HP | Prop RPM | Max. BHP | Shutter Type | CFM     | CFM Watt | CFM      | CFM Watt | CFM      | CFM Watt | CFM      | CFM Watt | CFM      | CFM Watt | AFR  |
| <b>Single Phase Motors</b>   |           |          |          |          |              |         |          |          |          |          |          |          |          |          |          |      |
| VX14F1CP   | 14"       | 1/8      | 1,650    | 0.13     | Std.         | 2,020   | 13.8     | 1,910    | 12.6     | 1,790    | 11.6     | 1,660    | 10.5     | 1,440    | 8.9      | 0.75 |
| VX16F1CP   | 16"       | 1/4      | 1,670    | 0.23     | Std.         | 3,300   | 14.2     | 3,100    | 13.2     | 2,900    | 12.1     | 2,700    | 11.1     | 2,400    | 10.0     | 0.77 |
| VX18F1CP   | 18"       | 1/3      | 1,660    | 0.39     | Std.         | 4,450   | 11.5     | 4,300    | 11.0     | 4,120    | 10.2     | 3,940    | 9.6      | 3,740    | 8.9      | 0.87 |
| VX24F1CP   | 24"       | 1/3      | 1,080    | 0.37     | Std.         | 6,490   | 16.1     | 6,090    | 14.7     | 5,740    | 13.4     | 5,250    | 12.2     | 4,760    | 10.8     | 0.78 |
| VX26F1CP   | 26"       | 1/3      | 1,060    | 0.39     | Std.         | 7,800   | 19.9     | 7,290    | 17.8     | 6,740    | 16.0     | 6,070    | 14.1     | 5,280    | 12.2     | 0.72 |
| <b>Three Phase Motors</b>  |           |          |          |          |              |         |          |          |          |          |          |          |          |          |          |      |
| VX24F3CP   | 24"       | 1/3      | 1,140    | 0.46     | Std.         | 6,710   | 15.4     | 6,400    | 14.3     | 6,030    | 13.2     | 5,670    | 12.1     | 5,340    | 11.3     | 0.83 |
| VX26F3CP   | 26"       | 1/3      | 1,130    | 0.49     | Std.         | 8,690   | 18.2     | 8,230    | 16.7     | 7,750    | 15.2     | 7,370    | 14.2     | 6,820    | 12.8     | 0.83 |

Abbreviations:

- AFR - Airflow ratio
- Std. - Standard