

## STOL SERIES 18' (5.5M) HVLS FAN

| Technical Specifications                |  |
|---|--|
| <b>Model</b>                            | STOL-1855  |
| <b>Diameter</b>                         | 18 FT / 5.5 Meters   |
| <b>Number of Airfoils</b>               | 6 STOL Airfoils  |
| <b>Airfoil Finish</b>                   | Anodized Aluminum  |
| <b>Frame &amp; Mounting Finish</b>      | 1/4" Black Powder Coated Steel   |
| <b>Wingtip</b>                          | 6 Standard SBF Wingtips (Red)  |
| <b>Installed Weight</b>                 | 265 lb (120 kg)  |
| <b>Maximum Speed</b>                    | 54 RPM   |
| <b>Air Displacement</b>                 | 187,965 CFM / 5,323 CMM  |
| <b>Available Input Power</b>            | 115 VAC (99-126 VAC) 25A Peak @ 48-62 Hz 1 Phase   |
|   | 240 VAC (198-264 VAC) 16.8A Peak @ 48-62 Hz 1 Phase  |
|   | 240 VAC (198-264 VAC) 13.2A Peak @ 48-62 Hz 3 Phase  |
|   | 480 VAC (342-528 VAC) 7.6A Peak @ 48-62 Hz 3 Phase   |
|   | 575 VAC (450-660 VAC) 3.7A Peak @ 48-62 Hz 3 Phase   |
| <b>Reducer</b>                          | Premium Viton double lip output seals, lifetime synthetic oil, robust 1.25" dia. output shaft, lubed for life, painted SB Blue |
| <b>Nominal Motor Horsepower</b>         | 1.5 HP (1.12 kW)   |
| <b>Motor RPM</b>                        | 1735 RPM   |
| <b>Speed Controller Options</b>         | UltraLite, Yoke, VLD, Touch 'N' Go, AutoPilot, Radar   |
| <b>Controller Connection</b>            | 10V DC Analog  |
| <b>VFD Enclosure</b>                    | NEMA1, IP 10 metal enclosure with hinged door. NEMA 4x, IP 66 available  |
| <b>VFD Motor Supply Cable</b>           | 25 feet / 7.62 Meters  |
| <b>Safety Components</b>                | Airfoil Boomerang Brackets (6), Guy Wires (4), Safety Cable (1), Safety Z Brackets (6)   |
| <b>Disconnect Switch</b>                | 25A lockable   |
| <b>dBA at Max. RPM</b>                  | < 45 dBA*  |
| <b>Recommended Airfoil Clearance</b>    | Horizontal from Wingtips: 33" (0.83 Meters)  |
|   | Vertical from Mounting Point: 72" (1.8 Meters)   |
| <b>Extension Bar</b>                    | 1 FT standard, available in 1 FT increments up to 10 FT  |
| <b>Motor Pallet Dimensions/Weight</b>   | 30.5"x33"x30.5" (0.77 x 0.83 x 0.77 Meters) / 228 lbs (103 kg)   |
| <b>Airfoil Pallet Dimensions/Weight</b> | 24"x8'6"x17" (0.60 x 2.59 x 0.43 Meters) / 130 lbs (59 kg)   |
| <b>Certification</b>                    | ANSI/UL 507  |
|   | CAN/CSA C22.2 No. 113-10   |
|   | CE, C-Tick   |

\*dBA values were obtained from sound testing at maximum speed in a controlled environment. Actual results may vary.



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# STOL SPECIFICATIONS

## APPROVALS

- ETL
- CE
- C-Tick

## AIRFOILS

- Equipped with 6 airfoils
- Extruded anodized aluminum
- High performance STOL design

## GEARBOX

- Precision finished gears for low noise & long service life
- Sealed with lifetime synthetic oil
- Robust 3" output shaft for strength
- Nylon bushing on input

## CONSTRUCTION

- Mounting is to be 1/4" powder coated steel
- All construction is to be protected from the elements
- Stainless steel safety brackets

## VFD

- NEMA1, IP 10 metal enclosure with hinged door. (NEMA 4x, IP 66 available)
- Factory assembled & programmed
- Minimum start/stop torque loads

## WINGTIP FENCE

- Equipped with 6 wingtip fences
- Constructed of nylon 66
- Redirect outward airflow into downward airflow

## MOTOR

- Totally enclosed, fan cooled (TEFC)
- IP55 rating
- Class F insulation
- 1.5HP (1.12 kW) nominal horsepower

## STANDARD LIMITED WARRANTY

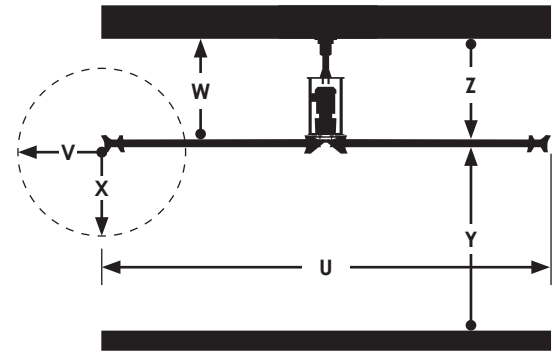
- 3 year: Motor & Reducer
- 1 year: Electronics
- Lifetime: Airfoil
- Extended warranties available.

# STOL SERIES SAFETY CLEARANCES & DROP HEIGHT<sup>1</sup>

| MODEL #   | DIAMETER [U]  | SIDE [V] | ABOVE [W] | BELOW [X] | MIN. AIRFOIL HEIGHT [Y] | AIRFOIL DROP HEIGHT [Z] |
|-----------|---------------|----------|-----------|-----------|-------------------------|-------------------------|
| STOL-1855 | 18 Ft (5.5 m) | 33"      | 39"       | 33"       | 10'                     | 49"                     |

<sup>1</sup> All dimensions are based on a standard 1 ft. extension bar.

Safety Clearances & Drop Height



# STOL SERIES MAX EFFECTIVE DIAMETER

| DISTANCE FROM CENTER     | AIR VELOCITY <sup>2</sup>    | COOLING SENSATION <sup>2</sup> |
|--------------------------|------------------------------|--------------------------------|
| 0' - 20' (0-6.1m)        | 620 - 900 fpm<br>3 - 4.5 m/s | 14 - 15°F<br>8 - 10°C          |
| 21' - 40' (6.2-12.2m)    |                              |                                |
| 41' - 60' (12.3-18.3m)   | 340 - 620 fpm<br>1.7 - 3 m/s | 9 - 15°F<br>5 - 8°C            |
| 61' - 80' (18.4-24.4m)   |                              |                                |
| 81' - 100' (24.5-30.5m)  | 0 - 340 fpm<br>0 - 1.7 m/s   | 0 - 9°F<br>0 - 5°C             |
| 101' - 120' (30.6-36.6m) |                              |                                |

<sup>2</sup> Stated values are estimations based on standard installation at maximum power. Values such as building layout, obstructions, ceiling height, and drop ceiling height may effect these numbers.

