

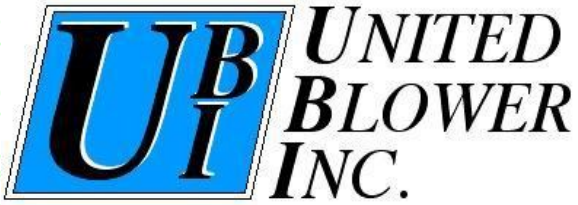
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**MASTER DISTRIBUTOR**

# TNE HIGH-SPEED TURBO BLOWERS



<p><b>AFFORDABILITY</b></p> <ul style="list-style-type: none"> <li>• Low Capital investment achieved by the use of effective modular design</li> <li>• Strong cost-conscious ethic</li> </ul>	<p><b>HP RANGE/MAX PRESSURE</b></p> <ul style="list-style-type: none"> <li>• 20 hp to tandem 150 hp Units/35 psig</li> </ul>
<p><b>INPUT POWER</b></p> <ul style="list-style-type: none"> <li>• 380-480V, 50-60 Hz, 3Ph</li> </ul>	<p><b>LUBRICANTS</b></p> <ul style="list-style-type: none"> <li>• None Required</li> </ul>
<p><b>AIREND/IMPELLER</b></p> <ul style="list-style-type: none"> <li>• Single Stage/Centrifugal</li> </ul>	<p><b>VARIABLE FREQUENCY DRIVE</b></p> <ul style="list-style-type: none"> <li>• Sensorless Vector Control</li> </ul>
<p><b>MOTOR TYPE</b></p> <ul style="list-style-type: none"> <li>• High-Speed PMSM (Permanent Magnet Synchronous Motor)</li> </ul>	<p><b>NOISE LEVEL</b></p> <ul style="list-style-type: none"> <li>• Below 80 +/- 2 dbA @ 3ft. Freefield</li> </ul>
<p><b>BEARING</b></p> <ul style="list-style-type: none"> <li>• Advanced Bump Type Air Foil Bearing</li> <li>• Superior choice up to hp</li> </ul>	<p><b>AIR INLET FILTER</b></p> <ul style="list-style-type: none"> <li>• Dual filter system to maximizes efficiency reliability</li> </ul>
<p><b>SUCTION INLET</b></p> <ul style="list-style-type: none"> <li>• Louvered Inlet (Pipe Inlet Optional)</li> </ul>	<p><b>DRIVE SHAFT/IMPELLER MATERIAL</b></p> <ul style="list-style-type: none"> <li>• Inconel/Aluminum</li> </ul>



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## **TNE HIGH-SPEED TURBO BLOWERS**



### **High-Efficiency Airend**

- \* Unrivaled efficiency in the same class, comparable to the efficiency of medium to large size turbo blowers.
- \* Full three-dimensional back-swept impeller design.
- \* Single/dual vaned diffuser for maximum efficiency and wide operating range with a compact size.
- \* Wide range of off-design with no efficiency drop.

### **High Speed Permanent Magnet Synchronous Motor**

- \* High efficiency air-cooled permanent-magnet synchronous motor.
- \* Ultra-high speed, up to 100,000 RPM for high pressure applications.
- \* Optimization of air end for all local conditions.
- \* Wide range of speed with no efficiency drop.

### **Rotor Dynamics**

- \* Robust rotor design supporting the optimum aerodynamic performance.
- \* Direct-drive by high-speed PMSM (Max 100,000 RPM).
- \* Rotor integrated air bearing design.