

Proportional Speed Fan



100000-100 Proportional Speed Fan

Webber EMI manufactures Proportional Speed Fans for use in specialty vehicle testing applications based upon customer requirements. These Fans are designed to interface with vehicle chassis and/or engine dynamometers and to replicate airflow through a vehicle's radiator or across an engine directly correspondent to system road speed. In this way, accurate assessment of vehicle & engine systems performance and emission characterization is possible within the testing laboratory.

The Webber EMI Proportional Speed Fan is designed to provide the user with the capability of addressing all 'fixed' or 'proportional' output air speed testing needs utilizing a single air handling system.

In its standard configuration, this Fan includes four (4) customer-specified 'fixed' output airflow settings and two (2) choices with regard to 'proportional' output airflow performance. Given this control flexibility and its 0 - 90 mph operating range, this Fan is capable of supporting a company's testing & development activities around the world.



The Fan has been specifically designed to support testing in accordance with the new US-06 test procedure, while also addressing the 'fixed rate' 5,300 and 15,000 cfm airflow settings required to support the current test regulations.

Across its full dynamic range, the Fan's discharge air nozzle design and new control package serve to provide uniform air distribution with minimal response delay.

In addition, to accommodate different vehicle heights, the Fan also incorporates a full 12" of vertical adjustment.

Unit Features and Specifications

<i>Dimensions</i>	<i>~108" H x 78" W x 66" D</i>
<i>Weight</i>	<i>~3,350 lbs</i>
<i>Power Requirement</i>	<i>75 hp, 480 VAC, 100 amp</i>
<i>Rated Speed</i>	<i>0 - 90 mph (Synchronous mode operation)</i>
<i>Blower</i>	<i>60,000 cfm-rated blower</i>
<i>Discharge nozzle</i>	<i>Electrically powered, height-adjustable</i>
<i>Drive Type</i>	<i>Belt-pulley drive system</i>
<i>Digital Displays</i>	<i>Air speed: mph and cfm Dynamometer roll speed: mph</i>
<i>Rate Control Modes</i>	<i>Synchronous: Controlled by dynamometer speed signal Manual (fixed): 5300 cfm and 15,000 cfm outputs Additional: Two customer-selected settings</i>
<i>Wheels</i>	<i>Heavy-duty poly-clad, casters</i>
<i>Communications Port</i>	<i>RS-232 serial port for remote computer control</i>
<i>Safety Guards</i>	<i>All belts, pulleys & air handling ducts guarded for safe operation</i>

