

Model 112 Proportional Speed Fan



(112000-100 'Mini' Proportional Speed Fan – photo courtesy of California ARB)

Webber EMI manufactures Proportional Speed Fans for use in specialty vehicle testing applications and based upon specific customer requirements.

The Model 112 Proportional Speed Fan is designed to interface with a motorcycle and ATV's chassis dynamometer to replicate airflow across a dynamic range and at a given road speed. Using this system, accurate assessment of small engine performance and emission characterization is possible in a testing laboratory.

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The Webber EMI Model 112 Proportional Speed Fan is designed to meet or exceed both US EPA CFR 86.508-78 and California-specific test requirements.

Using a user-provided 4-20ma, 0-10v or -10 to +10v signal, this system delivers uniform air speed proportional to dynamometer roll speed.

Given this control flexibility and its 0 - 80 mph / 130 kph dynamic operating range, this Fan is designed to support testing & development activities around the world.



Shown on optional portable dyno platform.



Shown with optional portable dyno platform.

In its standard configuration, the Model 112 fan system incorporates a full width discharge blower with a 24" stainless steel discharge nozzle that accurately shapes air flow across the system's dynamic speed range.

In standard form, the system also includes heavy-duty poly-clad locking wheels, personnel handles for easy movement and anchoring eye bolts for securing the system during high speed operation.

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Proportional Fan System with optional platform.

Unit Features and Specifications

<i>Dimensions</i>	<i>Approx. 66" H x 48" W x 54" D</i>
<i>Weight</i>	<i>Approx. 1000 lbs</i>
<i>Power Requirement</i>	<i>25 hp, 480 VAC, 40 amp</i>
<i>Rated Speed</i>	<i>0 - 80 mph (Synchronous mode operation)</i>
<i>Blower</i>	<i>32,000 cfm-rated blower</i>
<i>Discharge nozzle</i>	<i>24" stainless steel w/shaping cells</i>
<i>Drive Type</i>	<i>Belt drive system</i>
<i>Digital Displays</i>	<i>Motor speed (Hz) or Air speed (mph / kph)</i>
<i>Rate Control Modes</i>	<i>Synchronous: Controlled by dynamometer speed signal Manual: Controlled by drive keypad</i>
<i>Wheels</i>	<i>Heavy-duty locking poly-clad casters</i>
<i>Safety Guards</i>	<i>All moving parts guarded for safe operation</i>
<i>Tie Downs</i>	<i>Eye bolts for secure system tie down during operation</i>