

# Model 112 LD/MD Proportional Speed Fan

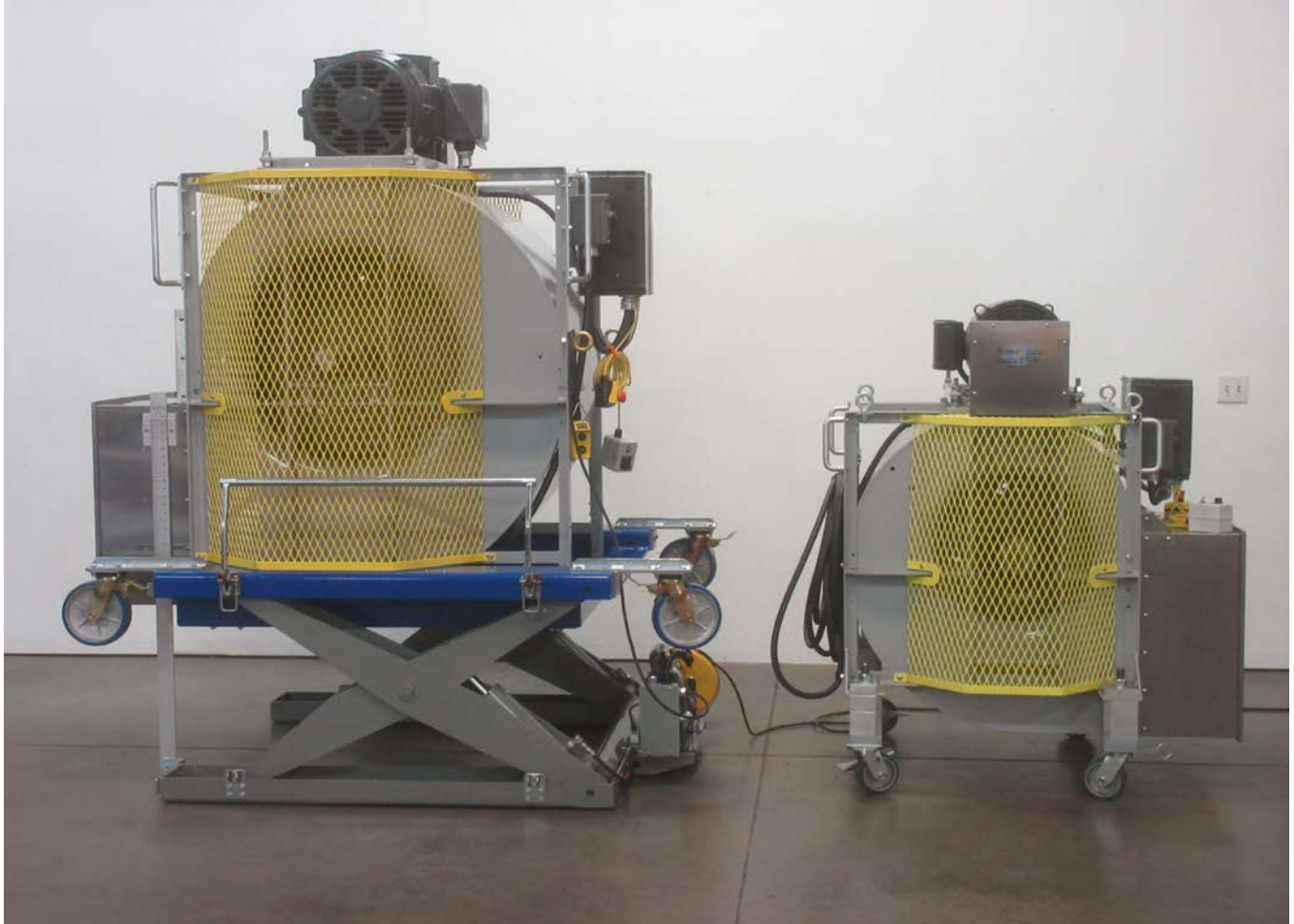


*(112-40 LD/MD Proportional Speed Fan – photo courtesy of California ARB)*

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

*The Model 112-40 Proportional Speed Fan is designed to interface with the clients Chassis dynamometer to replicate airflow across a dynamic range and at a given road speed. Using this system, accurate assessment of engine performance and emission characterization is possible in a testing laboratory.*

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*Model 112-40 on Scissor Lift shown with the smaller counterpart 112-15.*

*The Webber EMI Model 112 Proportional Speed Fan is designed to meet or exceed both US EPA CFR Parts 86 and 1066, as well as 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.*

*The Webber EMI fans have flow linearity that is within 3mph at the test speeds of 75 MPH and less than 1mph at slower road speeds. All well within CFR requirements.*

*Given this control flexibility and its 0 - 80 mph / 130 kph dynamic operating range, the fan comes mounted on a hydraulic powered scissor lift for maximum flexibility and mobility in our customers testing cells.*

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## *Unit Features and Specifications*

<i>Dimensions</i>	<i>Approx. 60" W x 65" L x 76" H</i>
<i>Weight</i>	<i>Approx. 2600 lbs</i>
<i>Power Requirement</i>	<i>40 hp, 480 VAC, 60 amp</i>
<i>Rated Speed</i>	<i>0 - 80 mph (Synchronous mode operation)</i>
<i>Blower</i>	<i>38,000 cfm-rated blower</i>
<i>Discharge nozzle</i>	<i>25" x 31.75" (5.51 sq-ft) stainless steel w/shaping cells</i>
<i>Drive Type</i>	<i>Cogged 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>
<i>Lift</i>	<i>Hydraulic Powered Scissor Lift. Mounted unit on separate power circuit.</i>

