

# Typical Specifications

<b>Model:</b>	<b>CM</b>
<b>Description:</b>	Fan shall be a belt drive single width, single inlet, backward inclined, centrifugal vent set.
<b>Standard Construction:</b>	The fan shall be solidly built, housing joints shall be welded intervals. The unit shall be subjected to a coil coating process, where the steel is treated chemically to ensure the adherence of the polyester paint. Subsequently, powder coating is bonded to the parts through an electrostatic process, where after baking the piece takes on its highest characteristics corrosion resistance, with great adhesion properties and impact resistance.
<b>Wheel:</b>	CM backward inclined wheels shall be designed for maximum efficiency and quiet operation and shall be of the non-overloading type. Wheels shall be constructed of heavy gauge steel, with blades welded to the spun inlet ring and backplate. All wheels shall be protected with a durable polyester powder coat finish. All wheels shall be statically and dynamically balanced in accordance with ISO 1940 and AMCA Standard 204-G2.5 Standards.
<b>Motors and Electrical:</b>	Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.
<b>Bearings and Shaft:</b>	Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing selected for a minimum L50 life in excess of 500,000 hours at maximum cataloged operating speed. Blower shaft shall be hot rolled and accurately turned, ground, polished, and ring gauged for accuracy. Shafting shall be sized for a critical speed of at least 138% of maximum RPM.
<b>Belts and Drives:</b>	Belts shall be oil and heat resistant, non-satic type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower. The motor sheave must be selected for the specified fan RPM.
<b>Certifications:</b>	Fan shall be listed by Underwriters Laboratories (cULus 705) for US and Canada when specified in the fan schedule. For restaurant applications, fan shall be listed by Underwriters Laboratories (cULus 762) for US and Canada when specified in the fan schedule. For smoke control systems, fan shall be listed by Underwriters Laboratories (cULus 793), designed to to withstand inlet temperatures of 500°F for 4 hours and 1000°F for 45 minutes. CM units shall be licensed to bear the AMCA certified ratings seal for sound and air performance, except on size CM-10.
<b>Warranty:</b>	Manufacturer's warranty shall apply for a period of 1 year (housing, bearings, shaft, and wheel) and 1 year (motor). See warranty certificate for details.
<b>Product:</b>	Fan shall be model CM as manufactured by Soler & Palau USA of Jacksonville, Florida, a division of Soler & Palau Ventilation Group.