



LOCAL VENTILATION EXHAUST	WHOLE BUILDING VENTILATION	WHOLE HOUSE FAN
<p>Required for <b>all dwelling units</b> per Building Energy Efficiency Standards Mandatory Measures §150.0(o) Indoor Air Quality and per ASHRAE 62.2.</p> <p>A local mechanical exhaust system installed in each kitchen and bathroom to remove moisture and odors at the source through intermittent or continuous operation.</p> <p><b>Unless serving as WBV, no HERS verification required for local ventilation exhaust.</b></p> <p>Exhaust system must be vented to outside w/ proper diameter and length of duct.</p> <p>Intermittent ventilation rate of <math>\geq 100</math> cfm for kitchens range hoods and <math>\geq 50</math> cfm for bathrooms.</p> <p>Fans shall be rated at a maximum of 3 sones.</p> <p>Unless serving as WBV, bathroom fans must be controlled by humidity control in compliance w/ Green Building Standards Code. Humidity control must be labeled and may utilize automatic or manual adjustment. Humidity control shall be capable of adjustment between relative humidity of <math>\leq 50\%</math> to a maximum of 80%. Humidity control may be separate component to the exhaust fan and is not required to be integral.</p> <p>Bathroom exhaust fans must be ENERGY STAR compliant.</p> <p><u>Alternative method</u>: Continuous ventilation exhaust systems permitted in kitchens and bathrooms w/ additional requirements.</p> <p>Clothes dryer exhausts must be vented to outside.</p>	<p>Required for <b>all dwelling units</b> per Building Energy Efficiency Standards Mandatory Measures §150.0(o) Indoor Air Quality and per ASHRAE 62.2.</p> <p>A fan or system of fans dedicated to exhaust ventilation, supply ventilation or a combination of both to provide for outdoor air to indoor space.</p> <p><b>Additions <math>\leq 1000</math> ft<sup>2</sup> are exempt.</b></p> <p><b>HERS verification of airflow rate required.</b></p> <p>Continuous fan rate = <math>0.01 \times \text{CFA} + 7.5 \times (\text{BR}'s + 1)</math></p> <p>Continuous operation of FAU fan not permitted for compliance.</p> <p>Fan must be vented to outside w/ proper diameter and length of duct.</p> <p>Fan shall be rated at a maximum of 1 sone.</p> <p>Controls must be provided with an override which is readily accessible to the occupants and labeled.</p> <p>A compliant local bathroom exhaust fan operating continuously may provide both local and whole building ventilation in a single room provided all WBV requirements are met.</p> <p><u>Alternative method 1</u>: Intermittent ventilation permitted w/ additional requirements.</p> <p><u>Alternative method 2</u>: Central fan integrated ventilation system permitted w/additional requirements and <b>additional HERS verification required</b> for air handler fan efficacy and duct leakage.</p>	<p>Required for <b>Single Family Dwellings only</b> per Building Energy Efficiency Standards Prescriptive Approach §150.1(c)12 Ventilation Cooling.</p> <p><u>Note</u>: May not be required per Performance Approach.</p> <p>A fan, typically installed in the attic, that pulls outdoor air through open windows and doors, up into attic, exhausting air to outside through attic vents to cool the attic and indoor space in lieu of A/C.</p> <p><b>Additions <math>\leq 1000</math> ft<sup>2</sup> are exempt.</b></p> <p><b>Not required in CZ's 6 &amp; 16.</b></p> <p><b>No HERS verification required.</b></p> <p>Provide one or more fans w/ total air flow rate <math>\geq 2</math> cfm/ft<sup>2</sup> of CFA.</p> <p>Provide 1 ft<sup>2</sup> of attic ventilation per 375 cfm.*</p> <p>Must be listed in CEC Appliance Efficiency Directory. <a href="http://www.appliances.energy.ca.gov">www.appliances.energy.ca.gov</a></p> <p>Installer shall provide homeowner with a one page "How to operate your whole house fan" information sheet.</p> <p><u>Alternative method</u>: Central fan ventilation cooling systems or night ventilation systems may comply w/ additional requirements and <b>HERS verification required</b> for air handler fan efficacy and duct leakage.</p> <p>*Attic ventilation requirement for whole house fan will typically exceed attic ventilation requirement for Building Code compliance.</p>