2022 Denver Green Code
Explanatory Video Series

CE15: Fan System Power

Community Planning & Development
Office of Climate Action, Sustainability and Resiliency
CE15: Fan System Power

Why is this a priority in Denver?

- As HVAC systems have become more efficient, fan energy consumption has become a bigger part of overall system energy consumption.
- Improving fan efficiency and reducing fan power creates energy and associated cost savings in HVAC systems.
CE15: Fan System Power

Project Requirements

- Reduce power of fans in HVAC systems 10% below DEC Table C403.8.1(1)
- Meet the fan efficiency requirements of DEC Section C403.8.3
  - Total efficiency at design point of operation must be ± 10% of maximum total fan efficiency
- Minimum efficacy for fans in bathrooms and utility rooms at any airflow rate is 6.0 cfm/watt (compare to 2.8-3.5 cfm/watt in DEC)

Note: Projects that select CE15 for LMU compliance cannot use DEC C406.17 for C406 compliance
<table>
<thead>
<tr>
<th>Phase</th>
<th>What’s required?</th>
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<tr>
<td>Permit</td>
<td>• Submit completed DGC LMU and DEC Checklists</td>
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<td>• Provide design documents containing fan equipment schedules with fan type, power, and efficiency listed</td>
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<td>• Provide COMcheck report and/or supplemental calculations</td>
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Where can I learn more?

Visit Denvergov.org/GreenCode to:

- Link to the 2022 Denver Green Code
- Download the DGC Checklists
- Watch other videos in this series
- Register for DGC Virtual Office Hours
- Find additional resources for your project

Denver Energy Code links: Code & Policies | Checklists | Resources & Trainings

For Green Buildings Ordinance, visit Denvergov.org/GreenRoofs