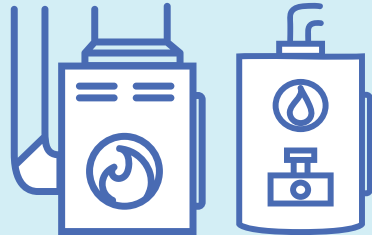


Air District Appliance Rules – Furnaces and Water Heaters

Amendments to two Air District rules will support improvements to regional air quality and public health –

Regulation 9, Rule 4: Nitrogen Oxides from Fan Type Residential Central Furnaces, and Regulation 9, Rule 6: Nitrogen Oxides Emissions from Natural Gas-Fired Boilers and Water Heaters.

The rule changes will not apply to gas appliances used for cooking, such as gas stoves.



The amended rules will affect Bay Area households that use natural gas appliances – roughly 2/3 of all households currently – and will:

- Improve overall regional air quality from the outdoor venting of these appliances

- Prevent up to 85 premature deaths per year
- Lower PM_{2.5} exposure, particularly in communities of color
- Avoid up to \$890M per year in health impacts due to air pollution exposure:
 - About 60% of benefits can be achieved through elimination of NO_x and secondary PM_{2.5} emissions by switching to zero-NO_x appliances.
 - About 40% of benefits can be achieved through additional elimination of primary PM_{2.5} emissions by switching to fully zero-emission appliances.
 - Currently, the only zero-NO_x appliances available are electric appliances.

Health impacts from short- and long-term exposure

NO_x

- Coughing, wheezing, difficulty breathing
- Asthma
- Increased susceptibility to respiratory infections



PM_{2.5}

- Asthma and other respiratory conditions
- Neurological disease
- Heart attack
- Stroke
- Lung cancer
- Premature death



Compliance Timeline

The rule amendments will apply only to new appliances, and do not mandate retrofitting of existing appliances.

2027 – only zero NO_x water heaters can be sold or installed in the Bay Area.

2029 – only zero NO_x furnaces can be sold or installed in the Bay Area.

2031 – only zero NO_x large commercial water heaters can be sold or installed in the Bay Area.



For more information:
baaqmd.gov/building-appliances



**BAY AREA AIR QUALITY
MANAGEMENT DISTRICT**

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