

Las estufas de gas producen cantidades peligrosas de contaminantes del aire, incluidos los óxidos de nitrógeno (NOx), el monóxido de carbono (CO) y la materia particulada (PM), que a menudo superan los estándares del aire ambiente exterior. Estos contaminantes pueden tener efectos duraderos y dañinos en el cuerpo humano. Los niños, las personas de bajos ingresos y las comunidades negras y latinas se encuentran entre los más vulnerables.

**NOx**

- Disminución del funcionamiento cognitivo
- Infecciones respiratorias
- Asma

**CO**

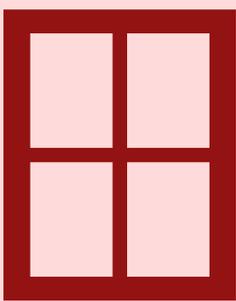
- Fatiga, problemas de visión, mareos, náuseas
- Dolor en el pecho
- Muerte



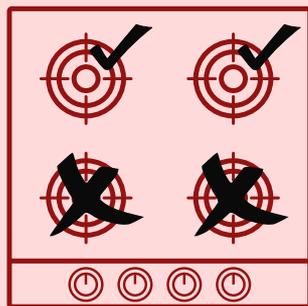
**PM**

- Agrava el asma y atrofia el desarrollo pulmonar
- Ataques cardíacos, arritmias, insuficiencia cardíaca congestiva
- Accidente cerebrovascular isquémico, retraso en el desarrollo

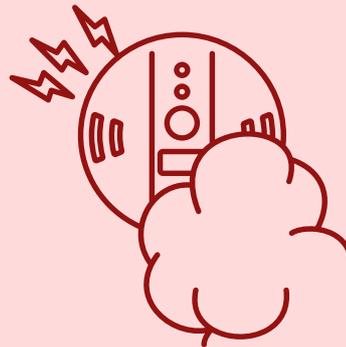
Para reducir el riesgo de exposición, la ventilación es clave. Cualquier acción que aumente el flujo de aire, desde abrir una ventana hasta usar una campana extractora, ayudará a reducir la concentración de contaminantes del aire en su hogar. Pruebe cualquiera de las estrategias de mitigación que se presentan a continuación. Si es posible, cambiar de una estufa de gas a una estufa de inducción eléctrica abordará la causa raíz de la contaminación del aire por combustibles fósiles.



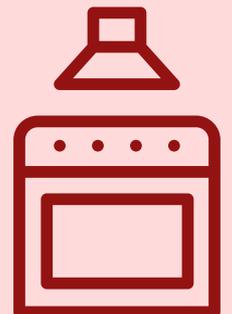
**ABRIR UNA VENTANA**



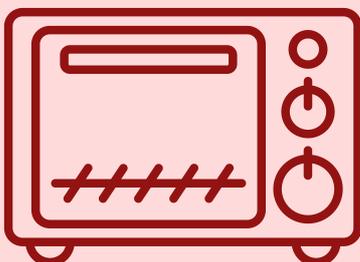
**COCINAR EN LAS HORNILLAS DE ATRÁS**



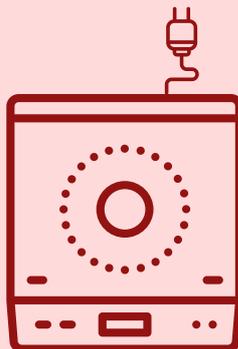
**INSTALAR Y MANTENER EL DETECTOR DE CO**



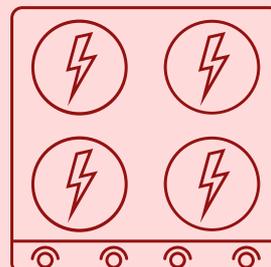
**UTILIZAR UNA CAMPANA EXTRACTORA**



**UTILIZAR ELECTRODOMÉSTICOS COMO UN HORNO TOSTADOR**



**PROBAR UN QUEMADOR DE INDUCCIÓN ENCHUFABLE**



**CAMBIAR A UNA ESTUFA ELÉCTRICA DE INDUCCIÓN**

Obtenga más información en la página web de Soluciones de los PSR:



# Referencias

1. Nigel Bruce and Kirk R Smith, *WHO IAQ guidelines: household fuel combustion – Review 4: health effects of household air pollution (HAP)*, 2014, <https://www.who.int/airpollution/guidelines/household-fuel-combustion/evidence/en/>.
2. U.S. Environmental Protection Agency. (2016). *Integrated Science Assessment for oxides of nitrogen—Health criteria (EPA/600/R-15/068)*. [https://cfpub.epa.gov/si/si\\_public\\_file\\_download.cfm?p\\_download\\_id=526855&Lab=NCEA](https://cfpub.epa.gov/si/si_public_file_download.cfm?p_download_id=526855&Lab=NCEA)
3. U.S. Environmental Protection Agency. (2020c). *Carbon monoxide's impact on indoor air quality*. <https://www.epa.gov/indoor-air-quality-iaq/carbon-monoxides-impact-indoor-air-quality>
4. U.S. Environmental Protection Agency. (2020b). *Particulate matter (PM) pollution: Health and environmental effects of particulate matter (PM)*. <https://www.epa.gov/pm-pollution/health-and-environmental-effects-particulate-matter-pm>
5. "NAAQS Table," US Environmental Protection Agency, <https://www.epa.gov/criteria-air-pollutants/naaqs-table>
6. "Nitrogen Dioxide & Health," California Air Resources Board, <https://ww2.arb.ca.gov/resources/nitrogen-dioxide-and-health>
7. Singer BC, Pass RZ, Delp WW, Lorenzetti DM, Maddalena RL. *Pollutant concentrations and emission rates from natural gas cooking burners without and with range hood exhaust in nine California homes*. *Building and Environment*. 2017;122:215-229. doi:10.1016/j.buildenv.2017.06.021
8. Garcia E, Berhane KT, Islam T, McConnell R, Urman R, Chen Z, Gilliland FD. *Association of Changes in Air Quality With Incident Asthma in Children in California, 1993-2014*. *JAMA*. 2019 May 21;321(19):1906-1915. doi: 10.1001/jama.2019.5357. PMID: 31112259; PMCID: PMC6537847.
9. Weiwei Lin, Bert Brunekreef, and Ulrike Gehring, "Meta-analysis of the effects of indoor nitrogen dioxide and gas cooking on asthma and wheeze in children," *International Journal of Epidemiology*, Volume 42, Issue 6, (December 2013): 1724–1737, <https://doi.org/10.1093/ije/dyt150>.
10. T.M. Michney, and L. Winling. "New Perspectives on New Deal Housing Policy: Explicating and Mapping HOLC Loans to African Americans." *Journal of Urban History* (2019): DOI: 10.1177/0096144218819429
11. R.A. Mohl. "The Expressway Teardown Movement in American Cities: Rethinking Postwar Highway Policy in the Post-interstate Era." *Journal of Planning History* 11 (2012): 89–103.
12. J. Greer. "The Home Owners' Loan Corporation and the Development of the Residential Security Maps." *Journal of Urban History* 39 (2013): 275–296
13. Gary Adamkiewicz et al., "Moving Environmental Justice Indoors: Understanding Structural Influences on Residential Exposure Patterns in Low-Income Communities," *American Journal of Public Health*. 2011, <https://www.ncbi.nlm.nih.gov/pubmed/21836112>.
14. Diana Hernández and Stephen Bird, *Energy Burden and the Need for Integrated Low-Income Housing and Energy Policy*, *Poverty Public Policy*, November 2010, p. 6, <https://www.ncbi.nlm.nih.gov/pubmed/27053989>.
15. Nadia N Hansel et al., "A Longitudinal Study of Indoor Nitrogen Dioxide Levels and Respiratory Symptoms in Inner-City Children with Asthma," *Environmental Health Perspectives* Volume 116 Number 10, October 2008, p. 1430, <https://ehp.niehs.nih.gov/doi/10.1289/ehp.11349>.