

## Tools and Resources

“Range Hood Buying Guide. Getting Started.” (Summary of key features of range hoods). [Consumer Reports](#). May 2017.

Installation guides and training videos for kitchen ventilation. Building America Solutions Center, Pacific Northwest National Labs, U.S. Department of Energy, 2017. <https://basc.pnnl.gov/building-components/browse/180327>.

- Kitchen Exhaust Guide describes how to install efficient kitchen exhaust systems.
- Air Sealing Bathroom and Kitchen Exhaust Fans Guide describes how to air seal bathroom and kitchen exhaust fans.

“First Deal with the Manure and Then Don't Suck.” BSI-070. Recommendations for designing residential range hoods and ventilation systems. J. Lstiburek, Building Science Corporation, Westford, MA. <https://buildingscience.com/documents/insights/bsi-070-first-deal-with-the-manure>.

“Kitchen Ventilation Systems – Part 2.” Builders Brief 0412. Jellen, A., Turns, Brian Wolfgang, B. 2012b. Pennsylvania Housing Research Center. University Park, PA. <http://www.phrc.psu.edu/assets/docs/Publications/BB0412.pdf>

“How to Provide Makeup Air for Range Hoods: If your kitchen has a powerful exhaust fan, it may be making your indoor air worse” and Related Articles. [Green Building Advisor](#), June 8, 2015, Martin Holladay.

“Range Hood Make-Up Air Specifier.” Interactive tool for meeting building codes in several states make-up air for domestic range hoods in dwelling units. [Broan, 2018](#).

Healthy Indoor Air Quality Guides and Checklist Tool for energy upgrades and retrofits, Single- and Multi-Family. EPA and DOE. See local exhaust ventilation topics. <https://www.epa.gov/indoor-air-quality-iaq/energy-savings-plus-health-indoor-air-quality-guidelines-multifamily-building> and related links.

Cooking Up Indoor Pollution. W. Nicole, [Environmental Health Perspectives](#), 122: A27, 2014. (News article on LBNL modeling study of health risks from gas stove and on electric stove emissions).

CARB, 2016. [Cooking and Range Hoods](#). Summary, seminar, reports, etc.

Residential kitchen ventilation and indoor air quality videos:

- Lawrence Berkeley National Laboratory, 2013: <https://www.youtube.com/watch?v=aFep5DDMhpl>.
- University of Colorado, 2017: <https://www.youtube.com/watch?v=qkC-JsyA1FM>.
- “[Fresh Air for a Healthier Home. The consumer’s guide to ventilation systems](#) .” Washington State University Energy Program and Northwest Clean Air Agency, 2016. Segment 6 of short video series, Upgrading Existing Homes, addresses kitchen ventilation. Building Efficiency Program, 2015 Washington State Energy Code. <http://www.energy.wsu.edu/BuildingEfficiency/EnergyCode.aspx>

Development of the Industry’s First Smart Range Hood. Research project to develop very quiet, highly effective range hood with automatic controls using a pollutant sensor. U.S. Department of Energy, 2017. <https://energy.gov/eere/buildings/downloads/development-industry-s-first-smart-range-hood>.