

Terry's Brennan's Recommendations for Residential Ventilation

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Local Exhaust for Point Sources		
dryer	vented to outside; condensing dryer exempt	
kitchen range	vented to outside; may be used as part of general ventilation	hood as large as cook-top; intermittent HVI 40/100 cfm/ft range minimum against wall/ island; Terry 40-50 fpm perimeter velocity; thermostat control
bathrooms	vented to outside; may be used as part of general ventilation	20 cfm continuous - 80 cfm high speed on motion sensor in all cases
combustion devices	fan powered exhaust or sealed combustion	
General Ventilation Depending on Conditioning System		
house has central ahu and ductwork	outdoor air to return side of AHU	continuous or semi-continuous operation; must run at least every 3 hours for at least 30 min
HRV, ERV	exhaust from baths, kitchen (not range hood), laundry ducted separately, not through air handler ductwork; use MERV 8+ filters to protect exchange core; minimal flex duct; low wattage fans	
non recovery	interlock motorized damper; include MERV 8+ filter if location bypasses AHU filter	size furnace and AC correctly to increase runtime; use control to fill in ventilation only operation
house has no central ahu and ductwork		
hydronic or electric baseboard or radiant slab	central exhaust with pickups in bedrooms or bedroom closets or fully ducted HRV-ERV with supplies in bedrooms or bedroom closets	bathrooms: pickups through central exhaust, HRV-ERV or individual fans with motion detector boost in either case
houses or units <1000 ft2 sealed to 2 ach 50 or less	central exhaust with one or two pick-ups and passive inlets in bedrooms	run continuously in apartment buildings; semi-continuously but at least once every three hours for at least 30 minutes
ductless split low temperature heat pumps with variable compressor???	OA in floor or ceiling mounted units or fully ducted HRV-ERV with supplies in bedrooms or bedroom closets	bathrooms as in Local exhaust

