

IAQ Problem	Solution Goals	Product Solution Options		
		Primary Solution	Secondary Solution	Advanced Solution
Particulate Matter <i>"Elevated"</i>	1. Daily average below 10 $\mu\text{g}/\text{m}_3$ 2. Hourly average below 40 $\mu\text{g}/\text{m}_3$	MERV 8 or better media filter -or- Electronic Air Cleaner (EAC)	Add a Bypass HEPA filter	1. Add UV germicidal lights shining on coil 2. Add an HRV/ERV to exhaust contaminated air
Volatile Organic Compounds <i>"Moderately or Significantly Elevated"</i>	Daily average below 350 $\mu\text{g}/\text{m}_3$	Photo Catalytic Oxidation (PCO) device -or- Bypass HEPA filter with activated carbon	Add HRV/ERV -or- Add outside air duct with a mechanical damper	
Carbon Dioxide <i>"Higher than recommended"</i>	Below 1000 PPM	Fresh air duct with a mechanical damper	HRV/ERV	
Relative Humidity <i>"Higher than recommended"</i>	Keep below 55% RH	1. Add A/C if none exists 2. Check sizing to ensure long run times	Add 2 stage cooling -and- Advanced control (with humidistat)	1. Add a whole home dehumidifier 2. Add slight positive pressure the house 3. Eliminate duct leakage
Relative Humidity <i>"Below the recommended range"</i>	Keep above 25% RH	Bypass humidifier	Upgrade to powered humidifier	Upgrade to steam humidifier
Temperature <i>"Above" or "Below the recommended range"</i>	Keep inside the comfort range 68-81 °F	1. Programmable Thermostat 2. Constant fan (low speed)	2 stage cooling/heating with variable speed fan	Zoning
Carbon Monoxide <i>"Elevated"</i>	Below 5 PPM	Identify the combustion source, and add vent or fix venting problem		