

Joseph Lstiburek, Ph.D., P.Eng, ASHRAE Fellow

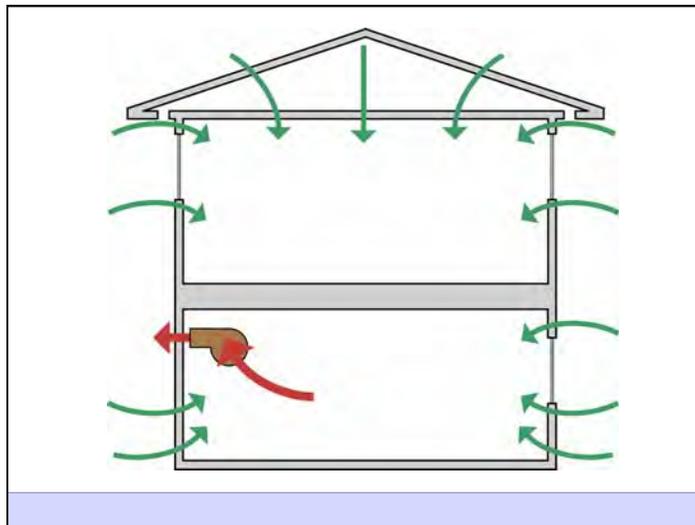
Building Science

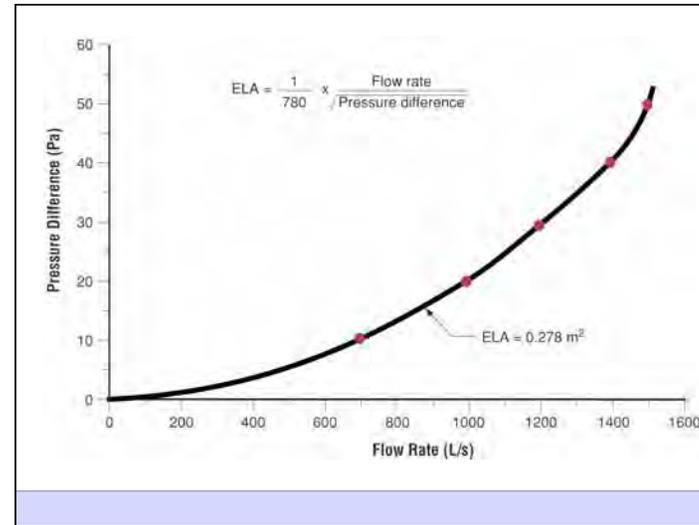
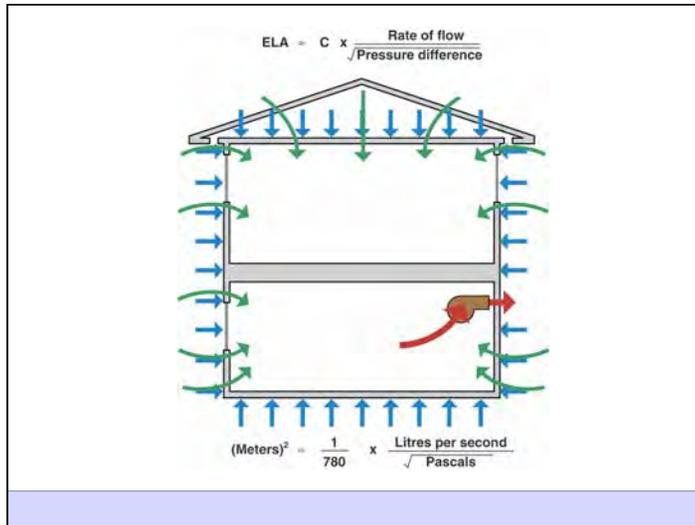
HVAC

presented by www.buildingscience.com

Air Barrier Metrics

Material	0.02 l/(s-m ²)@75 Pa
Assembly	0.20 l/(s-m ²)@75 Pa
Enclosure	2.00 l/(s-m ²)@75 Pa





Duct Leakage Should Be Less Than 5% of Rated Flow As Tested by Pressurization To 25 Pascals

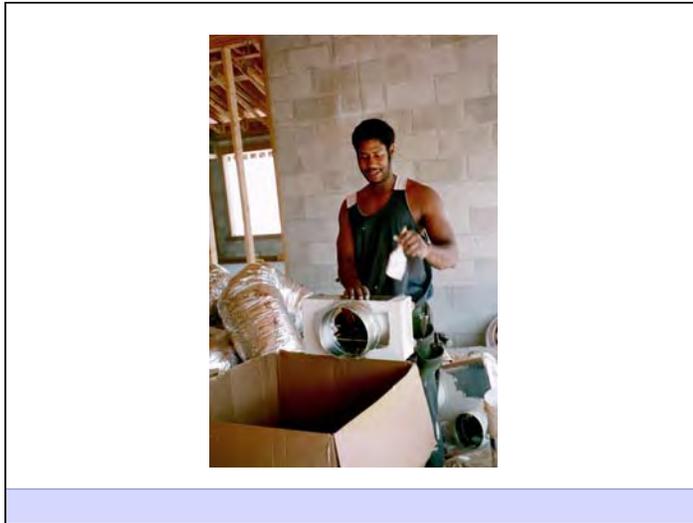


Figure 3.12
Ductwork and Air Handlers in Basements

- No air pressure differences result in a house with an air handler and ductwork located in a basement if there are no leaks in the supply ducts, the return ducts or the air handler and if the amount of air delivered to each room equals the amount removed

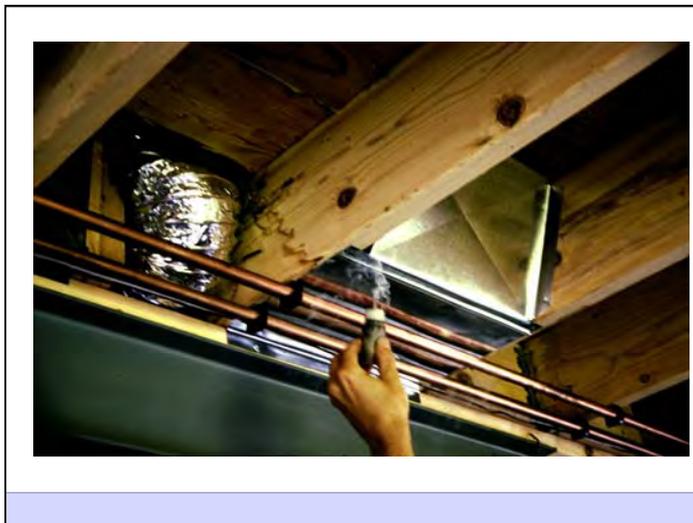
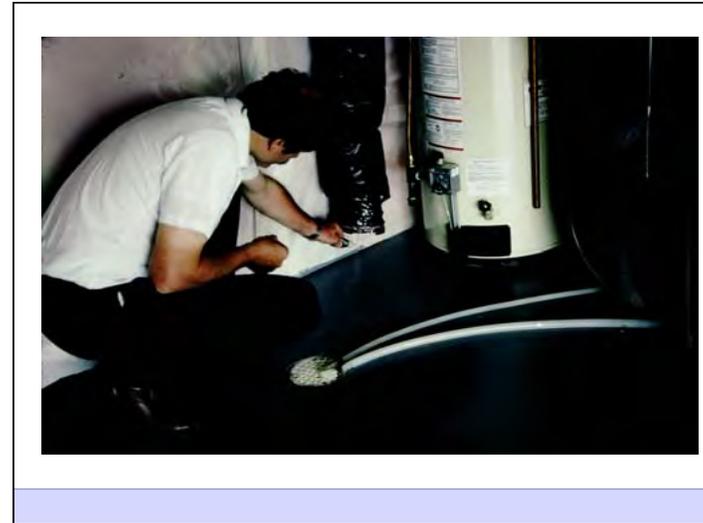
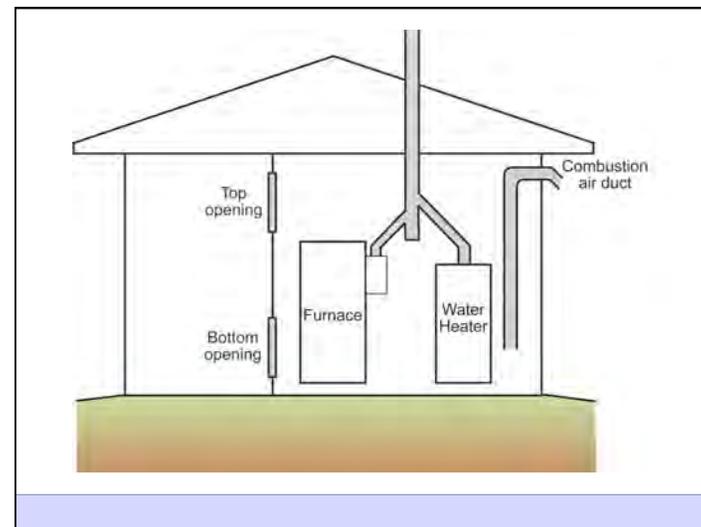
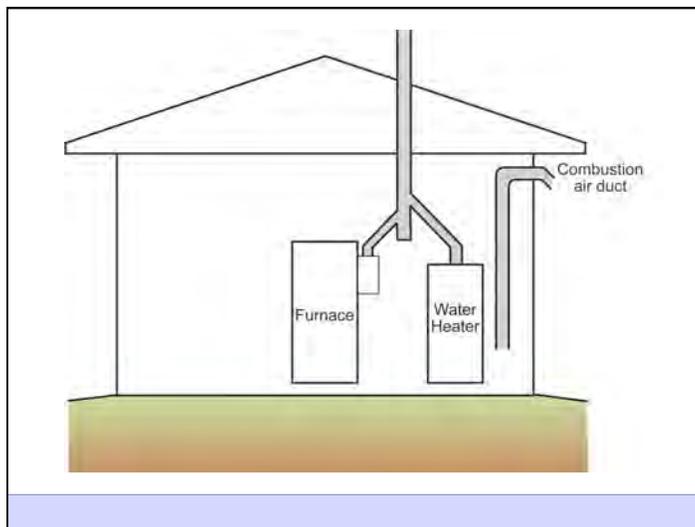
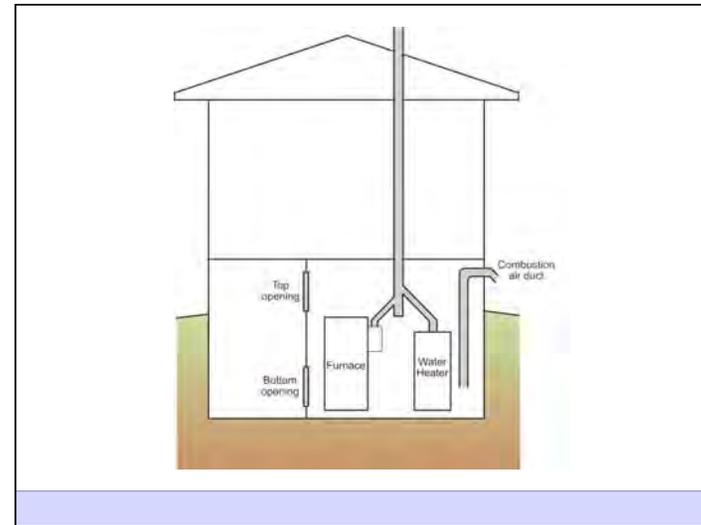
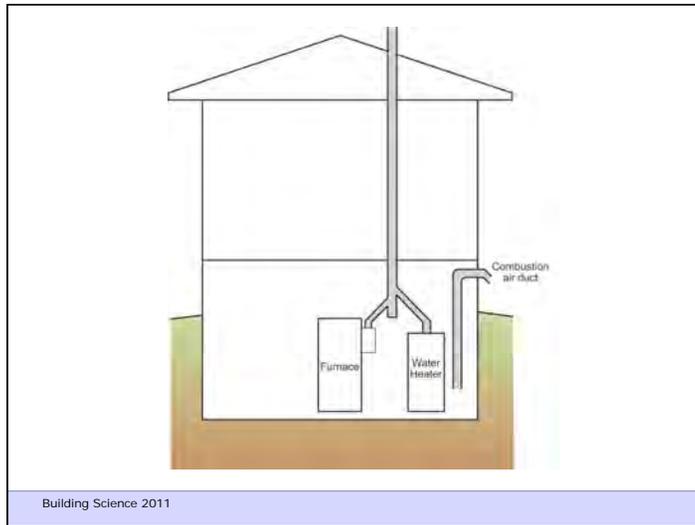


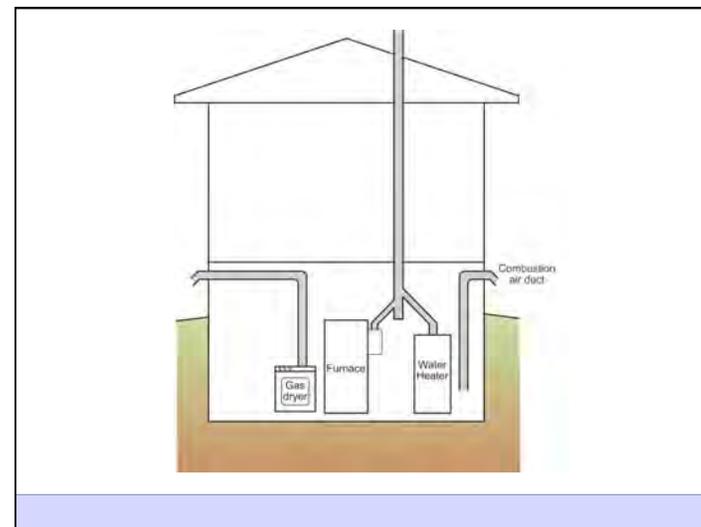
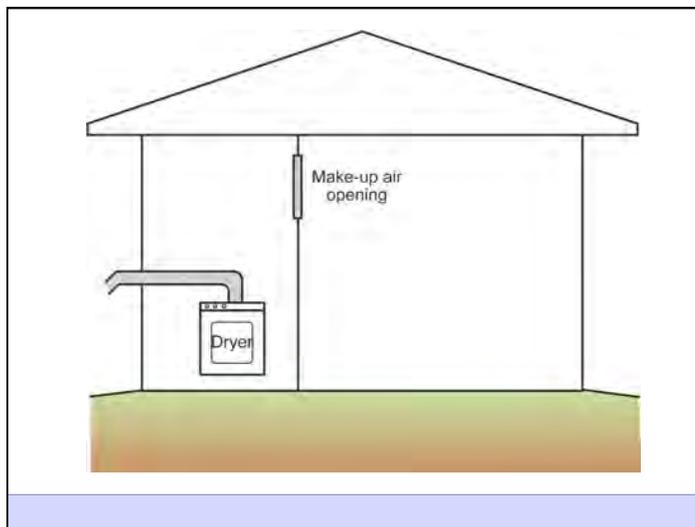
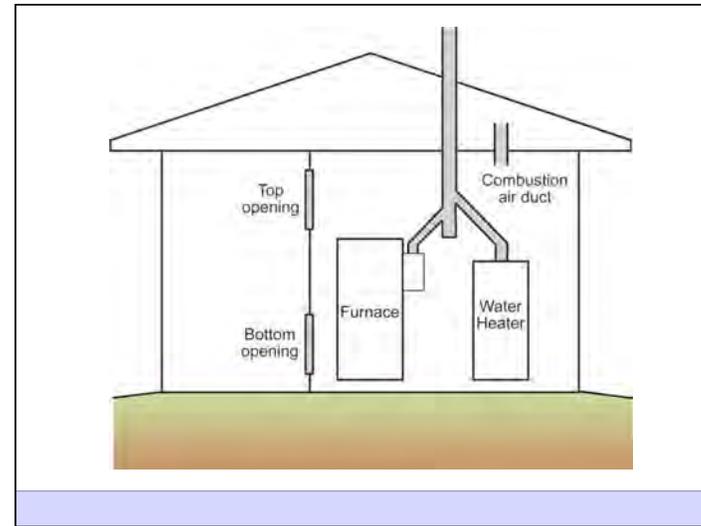
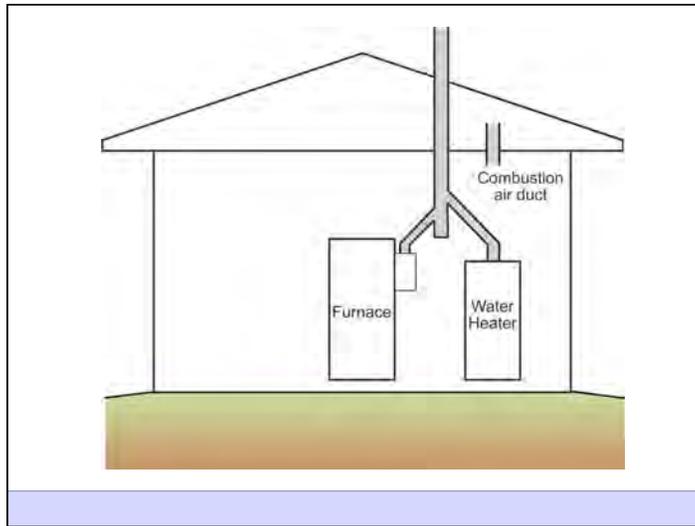
Figure 3.14
Leaky Ductwork and Air Handlers in Basements

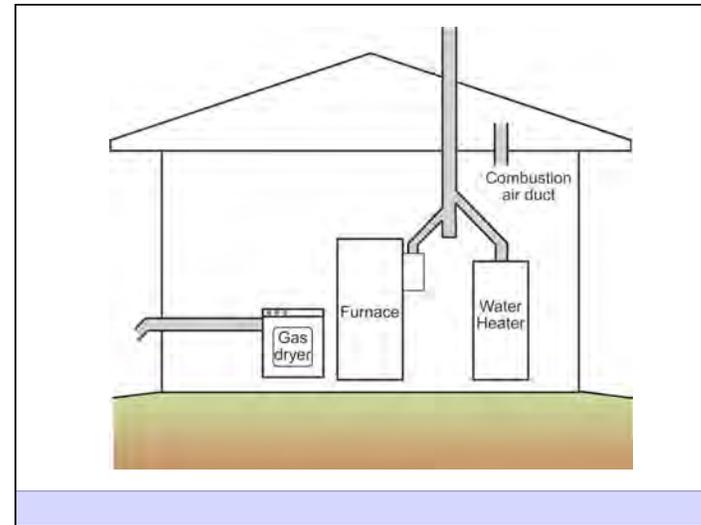
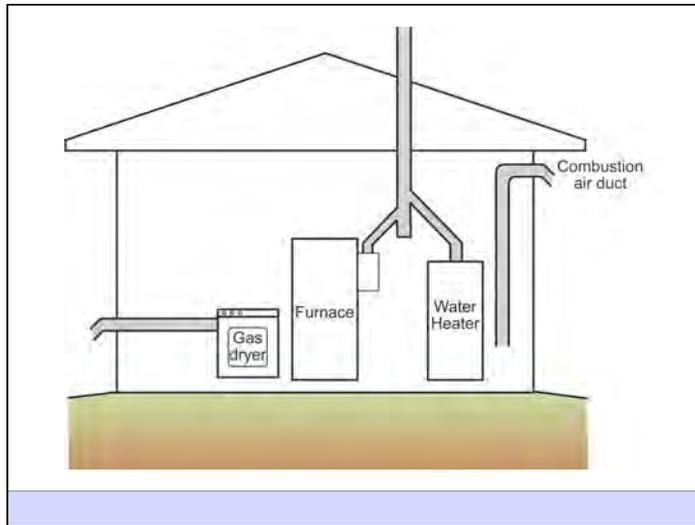
- Air pressurization patterns in a house with leaky ductwork in the basement



Code Compliant Combustion Air

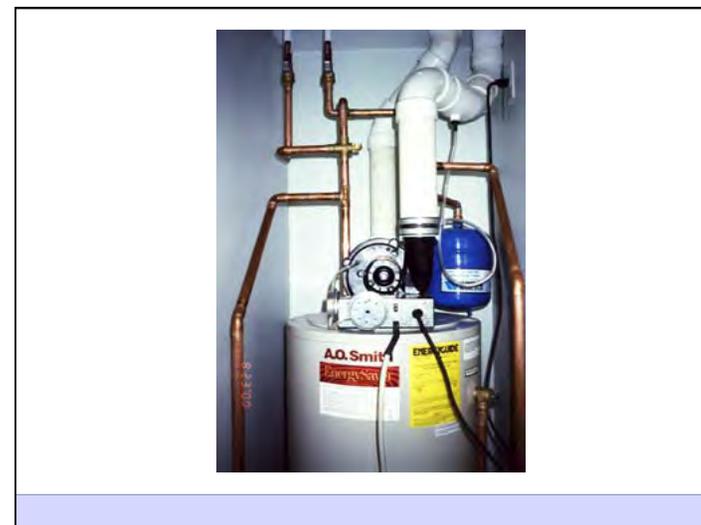


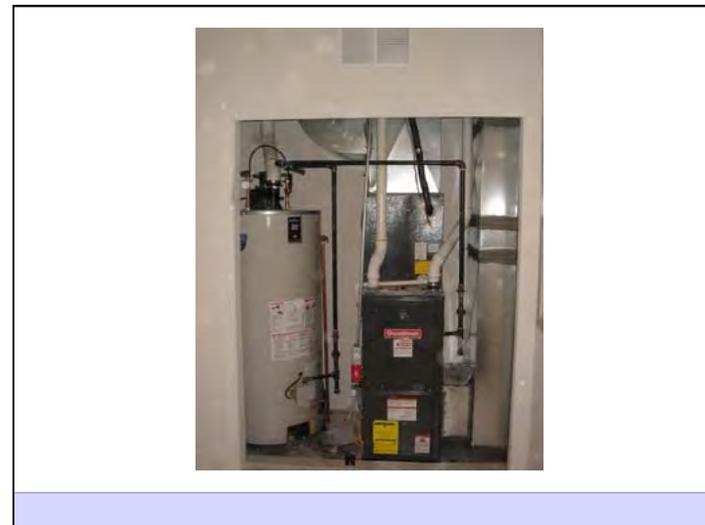
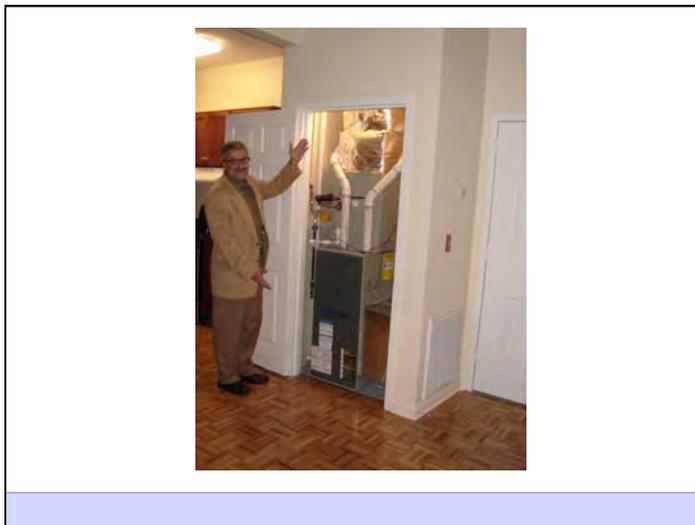
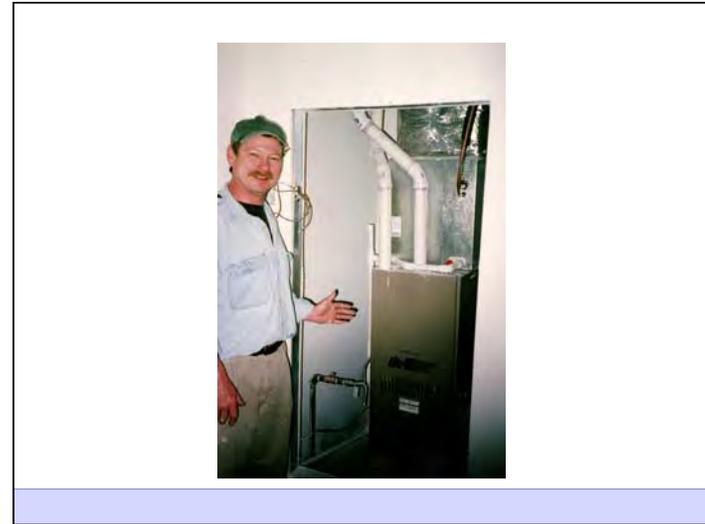


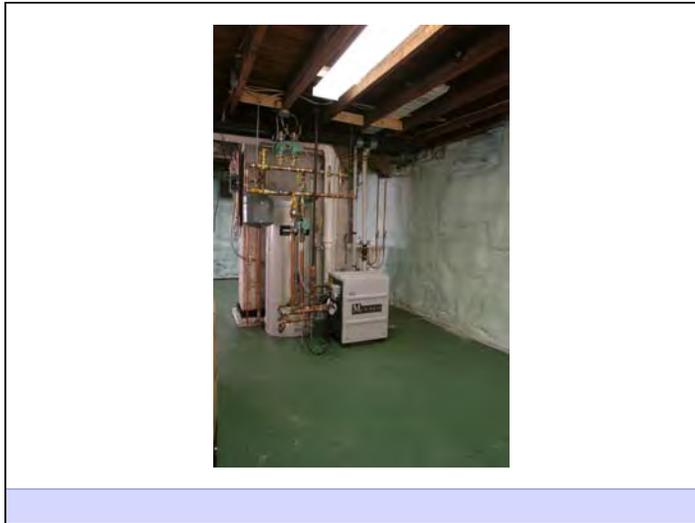


Sealed Combustion Appliances

Building Science Corporation







Control Pressures



