

Sizing of Heating, Ventilation & Air Conditioning Equipment

with

The Icynene Insulation System®

The design of a heating, ventilating, and air-conditioning system that is compatible with an Icynene® insulated home is an important factor in achieving:

- personal comfort
- maximum indoor air quality
- long term durability of the HVAC equipment
- proper indoor humidity levels

The extremely low air infiltration rates (approximately 0.1 ACH with whole house installation) achieved with by The Icynene Insulation System® must be considered when designing a heating, ventilation, and air conditioning system for the structure. It is recommended that the following procedures be implemented:

1. A heat loss and heat gain calculation is generated for the structure so as to precisely size the HVAC system. We recommend the use of a recognized calculation program / standard to properly size the equipment: ACCA-Manual J or other approved methods.
2. Ventilation to supply fresh air and exhaust stale indoor air must be provided for in the HVAC system. We recommend the use of a recognized standard for calculating the proper amount of ventilation to be used to introduce fresh air into the house - ASHRAE 62.2-2003 or manufactured approved method.

In order for your mechanical contractor to design the correct heating, ventilation, and air-conditioning system for your structure, you must inform them that The Icynene Insulation System® has been installed.



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