



BIGGER ISN'T ALWAYS BETTER.

Most people do not understand that oversized HVAC (Heating, Ventilation, and Air Conditioning) units use more energy and contribute to comfort issues and high moisture levels. Consumers often add extra tonnage in order to make sure they have enough. In reality, that's where the problems begin. Combined with entry-level equipment and undersized ducts, your system never performs.

Today's homes are interactive systems that are made up of multiple products. In order to design your HVAC systems you must consider the thermal boundaries, proper location and levels of insulation, required airflow, available static pressure, fresh air ventilation, and air sealing.

Properly sized, designed, installed and commissioned HVAC systems have the potential to save a homeowner as much as 50% on their utility bills while increasing comfort, improving equipment durability and improving indoor air quality!

HVAC DESIGN SERVICES:

- **Manual J** Load Calculations
- **Manual S** Equipment Selection
- **Manual D** Duct Designs
- **Manual T** Register & Grille Layout

Commissioning & Testing Services Also Available



MAINTENANCE
SERVICES



HOME
TESTING



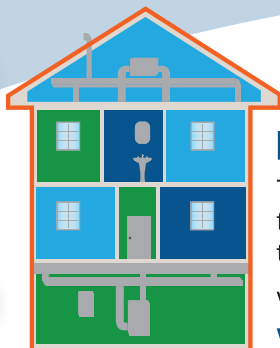
INSULATION
SERVICES



CLOSED
CRAWLSPACES



HVAC
DESIGN



DID YOU **KNOW?**

The most efficient environment for your HVAC system is **INSIDE** the conditioned space.

Visit us online for more information:
www.WeTestOthersGuess.com



HVAC MYTHS EXPLAINED:

- To determine the proper size unit needed in a home, you take the square footage and divide by 500. A 2,000 square foot home / 500 = 4 ton unit.

FALSE Unfortunately for homeowners, this has been the standard practice of HVAC contractors for far too long. The lack of understanding the homes systems lead to numerous problems: discomfort, high humidity, mold/mildew, high utility cost and premature equipment failure.

- Manual J, S, D & T's are not required by code.

FALSE The IRC (International Residential Code), Manufacturers, Alabama Board of Heating, Air Conditioning, and Refrigeration Contractors, and Energy Star ALL require them. The problem is that most HVAC Contractors do not perform them. Why? Most building inspectors don't enforce this section of the code! The result: more tonnage meaning higher sales revenues for the contractors.

- On the hottest days of the year, my air conditioner should be operating continually (or almost continuously).

TRUE It is always more efficient and more comfortable for your air conditioner to be sized correctly so that it runs continuously. If your unit isn't running, it is not dehumidifying the air.

SYNERGY HVAC DESIGN PROCESS:

STEP 1: We meet with you to review your blueprints extensively, discuss your goals and most importantly, your budget.

STEP 2: Synergy performs the following:

- **Manual J** Load Calculations
Heat Load: Room by Room and Whole-House Summary
- **Manual S** Equipment Selection
ARI Equipment Certification
- **Manual D** Duct Designs
Complete Duct Sizing Report with Schematic of Locations, CFM & Duct Sizes
- **Manual T** Register & Grille Layout

STEP 3: Synergy provides you (or your contractor) with the complete manuals.

The cost for HVAC Design is **\$0.15 / sq ft** or \$350 minimum. Commissioning and DET Testing also available. Contact Synergy for additional information.

**FREE
ESTIMATES**

BY LICENSED & TRAINED
HOME PERFORMANCE
SPECIALIST



**Building Performance Institute Certified,
NAHB Green Building Professional Certified, State of AL HVAC
Licensed #10069 and State of AL Homebuilders Licensed.**



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