

energy right[®] Program

Heat Pump Plan

Requirements for Alternative Load Calculation Method

All heating and cooling load calculation methods shall:

1. Be based on “Manual J Load Calculation for Residential Winter and Summer Air Conditioning” Seventh Edition, by Air Conditioning Contractors of America.
2. Be capable of calculating heating and cooling loads for each room and the whole house.
3. Provide printed results showing the following information:
 - total sensible and latent heat gains
 - total heat loss
 - all heat transfer areas
 - heat transfer coefficients or multipliers (HTMs)
 - design conditions
 - number of people and heat gains from people
 - other internal heat gains
 - duct gain and loss
 - infiltration rates
 - company name or name of software

To be placed on TVA’s list of acceptable load calculation methods, please forward the following evidence to, TVA, P.O. Box 292409, OCP 2F, NASHVILLE, TN 37229, telephone 615-232-6755 fax 615-232-6810:

1. Copy of information (i.e., software instructions) describing the load calculation method.
2. Example copy of a completed load calculation.

After receiving the above information, your proposed method will be reviewed and you will be notified whether it was found to be acceptable for use in TVA’s Energy Efficient Heat Pump Program.

TVA’s evaluation requires the software’s load analysis to be compared to the loads determined by “Right J” or another approved software.

TVA has three (3) sample homes that may be used in generating load comparisons.