

### **Equipment Selection with Off-The-Charts<sup>®</sup>, if load calc was done with Elite Rhvac<sup>®</sup>:**

(This is a guide if you want to use OTC in conjunction with Rhvac<sup>®</sup>, to assist in equipment selection. This process is NOT endorsed in any manner by Elite Software. (This is an alternate to using the “Manual S” tool in Elite, which is ACCA’s time-consuming spreadsheet using hard to find expanded product data.)

See the detailed instructions on the “Start Tab” of OTC for full help on the individual steps of OTC.)

1. Enter client information and outdoor design parameters, using info from tabs on Elite “General project data” window.
2. Enter home indoor design conditions, to match those in Elite “System Data window”
3. Enter btu/hr results of heating and cooling load calculation for each system sheet, to match that on Elite “Load Preview window”.
4. Enter rough tonnage and btu number, to get target AHRI numbers to make note of.\*
5. In Elite “System Data” window, go to the Equipment tab, and then pick the Cooling tab.
6. Click “Select Cooling Equipment”. Click “all zeros”. The AHRI recommended range from OTC, goes into the min. and max. boxes. Choose your brand, and enter the first few letters of the model series in “outdoor model”. Click “find equipment”.
7. Highlight a unit at random, or find the furnace you’re using (click the column header), and then on the OTC sheet for that system, enter those model numbers into the appropriate blue cells, and the ARI cert. #. In OTC, make note of the “Final optimal Airflow”, and the final resulting total, sensible and latent btu equipment performance #'s down by the “Pass” indicators. Also note the heating minimum airflow if you have entered gas furnace data.
8. Now, in Elite, click “select” in “System Data” equipment window, and enter these OTC btu performance #'s on the appropriate “adjusted” capacity lines.
9. Then to adjust airflow, while still in “System Data”, click the design tab again and change the “System Air Type” to Fixed. Enter the OTC optimal cooling and heating airflow numbers you made note of, for System CFM and System CFM Htg., to correct the airflow in Elite. This also may slightly affect Elite’s manual D for either Tabular or Drawing Board duct sizing. (Go back to the “Design” tab, “Duct load Factors” and refresh)
10. Refresh the Load Preview window; the airflows will match the OTC optimal flow.
11. Be sure to check off “Equipment Data” in your reports selection, so the selection detail will show up. Check the “Manual S” report too to show the OTC interpolation.
12. Back on the OTC sheet, to keep everything consistent when finished, you may want to update the btu entry numbers for load calculation from Elite again, even though it likely won’t affect anything.
13. Print each system sheet from OTC and attach them to your Rhvac report. Remember to export your OTC work to your job file, to save before closing it.

3/11/16