

PsychroMouse provides a graphically oriented way to speed up the process of calculating psychrometric properties. Enter design parameters-outside air volume, room exhaust air volume, room return air volume, sensible cooling load, and altitude-quickly and easily. Room and outside temperatures (drybulb and wetbulb) are entered by clicking on a psychrometric chart. Within seconds, eighteen psychrometric properties are computed for room air, outside air, entering air and leaving air. The psychrometric chart and a table of computations may be printed. Adjustments for altitude are made automatically.

PsychroMouse works on Macintosh 512K and later models. The disk is not copy protected and upgrades will be provided to registered owners for the cost of media and shipping. The list price of PsychroMouse is \$79.95. TechWare, Inc. also offers a program, HVAC, which provides a rapid means for computation of heating and cooling loads per the methods described in the ASHRAE GRP 158 manual. The list price of HVAC is \$395.

For more information, write TechWare, Inc., 806 Forest, Olathe, Kansas 66061 or call (816) 782-1249.

The open, save and print functions of PsychroMouse are disabled in the demonstration version. Additionally, the input parameters (altitude, cooling load, and cfm's) are preset.

To operate the program, double-click on the application icon as is generally done with Macintosh programs. Choose New from the File menu in order to activate the Windows menu. Ordinarily, Project Information is next chosen from under the Windows menu.

Apple File Edit Windows

Psychrometric calculations by
Jane Doe

Client:

Address:

Project: Untitled

Hddress:

Zone:

Date: 08/13/87

Designer:

OK

Project parameters are defined by choosing the Project Parameters item under the Windows menu. The default values may not be changed in the demonstration version of PsychoMouse.

File Edit Windows

Modify or Accept Default Values

Project Location:

Altitude (Ft):

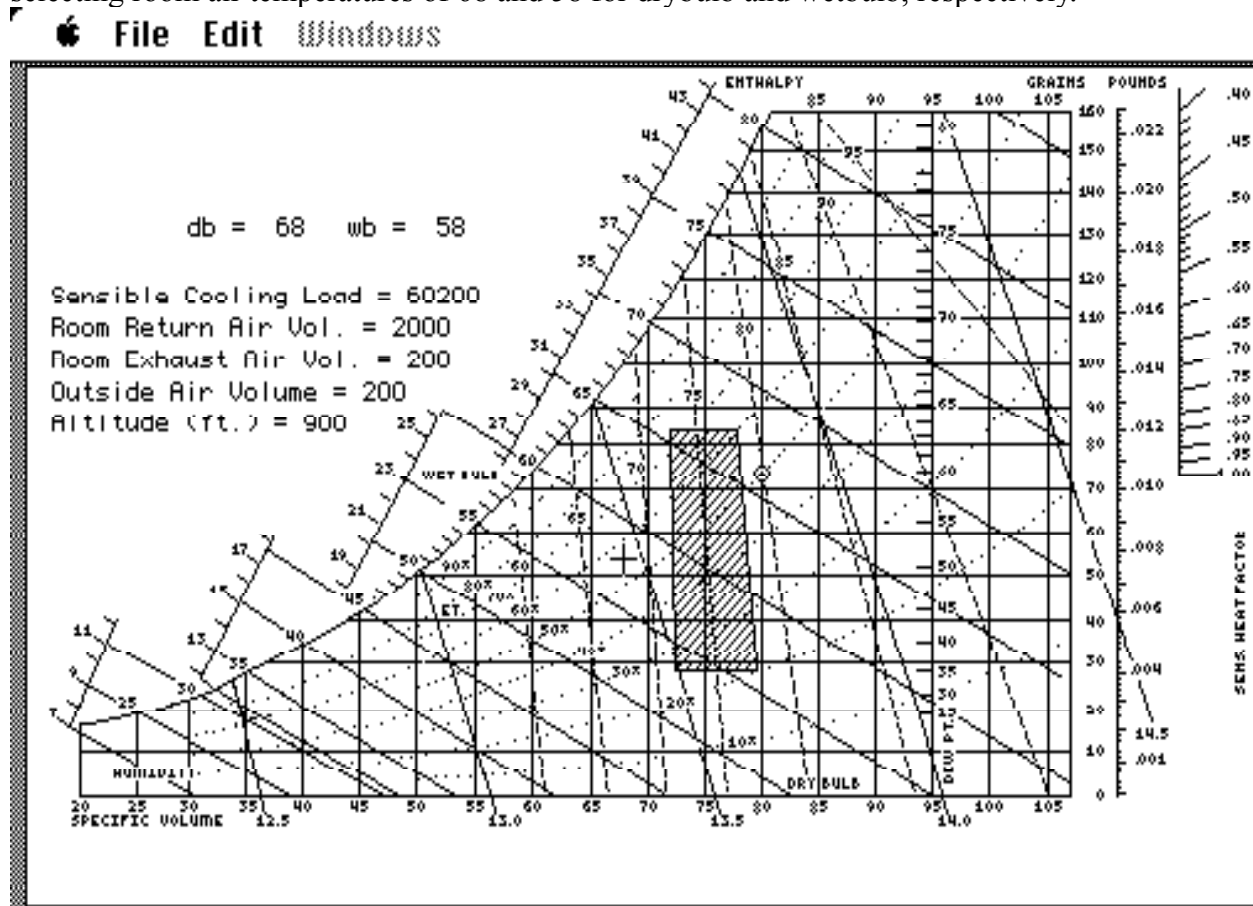
Sensible Cooling Load (BTU/Hr):

Room Design Return Air Volume (CFM):

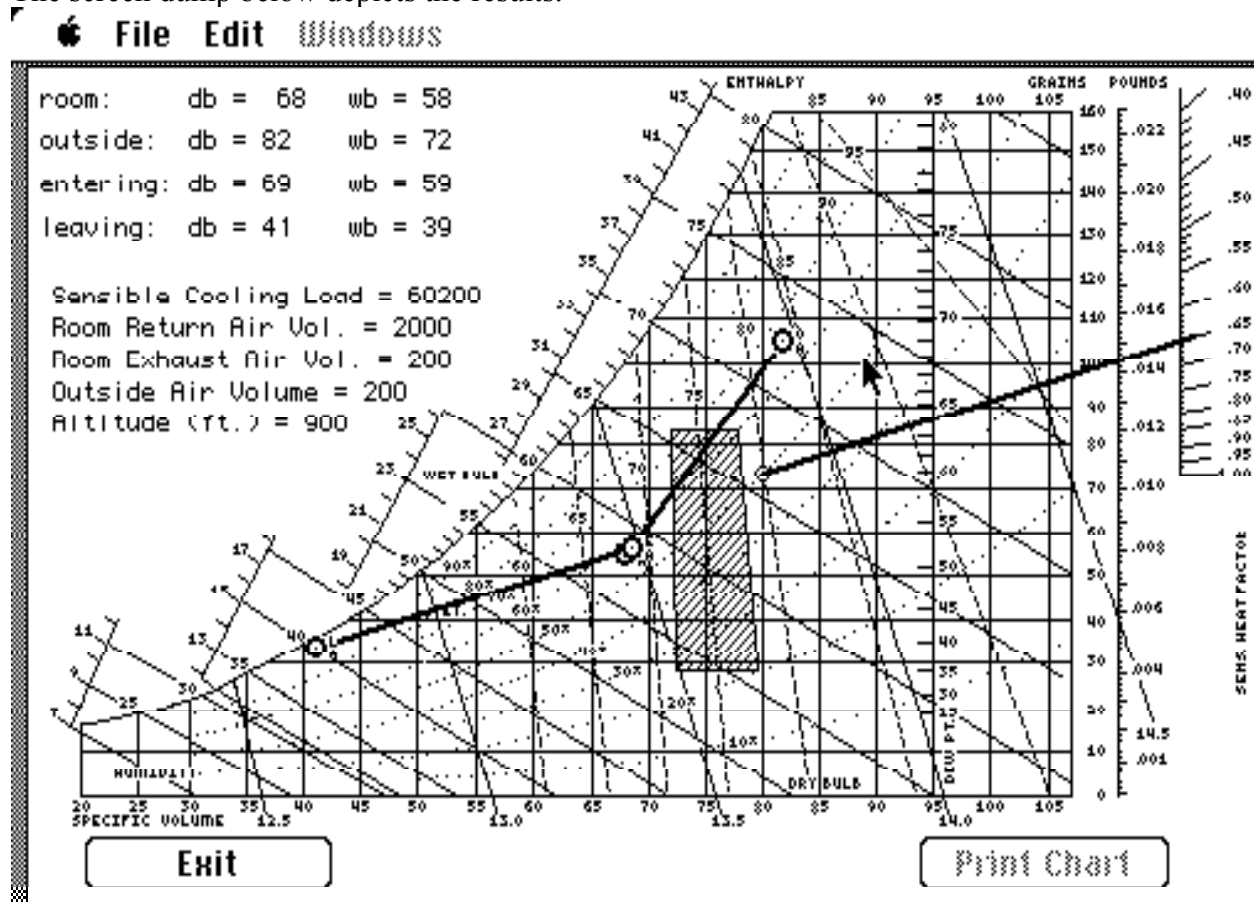
Room Design Exhaust Air Volume (CFM):

Outside Design Air Volume (CFM):

The main function of the program is activated by choosing Psychrometric Chart from under the Windows menu. A psychrometric chart is displayed for the user to select drybulb and wetbulb values of room and outside air. The screen dump below shows the chart with the cursor in the position for selecting room air temperatures of 68 and 58 for drybulb and wetbulb, respectively.



Clicking results in selection of the temperature and placement of a marker. Next the drybulb and wetbulb temperatures of outside air are selected by clicking on the appropriate position on the chart. The screen dump below depicts the results.



The reduced-size screen dump below illustrates the display following selection of the Psychrometric Summary choice under the Windows menu.

File Edit Windows

PSYCHROMETRIC SUMMARY for Centerview

| Properties | Room | Outside | Enter Unit | Leave Unit |
|---------------|------------|----------|------------|------------|
| Vol. (CFM) | 2,000.0000 | 200.0000 | 2,200.0000 | 2,200.0000 |
| db (F) | 68.0000 | 82.0000 | 69.2325 | 41.4345 |
| wb (F) | 58.0000 | 72.0000 | 59.2325 | 39.7772 |
| wb Dep. (F) | 10.0000 | 10.0000 | 10.0000 | 1.6574 |
| dp (F) | 51.5295 | 67.9997 | 52.9076 | 38.0312 |
| dp Dep. (F) | 16.4715 | 14.1113 | 16.3349 | 3.4034 |
| rh (%) | 54.0564 | 62.4340 | 56.0964 | 97.2180 |
| sh (gr/lb) | 58.5283 | 105.9758 | 61.6092 | 34.6233 |
| sh (lb/lb) | .0094 | .0151 | .0099 | .0010 |
| ah (gr/cf) | 4.2490 | 7.5067 | 4.4693 | 2.6509 |
| ah (lb/cf) | .0004 | .0003 | .0004 | .0004 |
| sv da (cf/lb) | 13.7746 | 14.1174 | 13.7849 | 13.0608 |
| sv mx (cf/lb) | 13.9598 | 14.4611 | 13.9800 | 13.1647 |
| d da (lb/cf) | .0726 | .0708 | .0725 | .0766 |
| d mx (lb/cf) | .0716 | .0692 | .0715 | .0760 |
| p db (in Hg) | .0000 | .0000 | .0000 | .0000 |
| p wb (in Hg) | .3191 | 1.1024 | .7205 | .2620 |
| H. (BTU/Lb) | 25.6492 | 36.2971 | 26.2263 | 15.2842 |

Exit Print Summary