

HeatCAD® 2023 is a drawing-based software for the fast and accurate calculation of residential heating and cooling loads. The Standard Edition provides ASHRAE heat loss calculations and CSA heating and cooling load calculations (residential). The MJ8 Edition also provides ACCA®-Approved Manual J® calculations for residential heating and cooling loads. HeatCAD delivers advanced features including integrated load calculations, automatic detection of unheated surfaces, and 3D CAD views.

- |                             |  |
|-----------------------------|--|
| <b>Professional Edition</b> | <ul style="list-style-type: none"> <li>▪ Floorplan drawing and importing (PDF, AutoCAD, JPG)</li> <li>▪ Automated heat loss calculations as you draw</li> <li>▪ ASHRAE residential heat loss calculations</li> <li>▪ CSA residential heating / cooling load calculations</li> <li>▪ Files compatible with LoopCAD® for radiant system designs</li> <li>▪ 3D drawing views</li> </ul> |
|-----------------------------|--|

- |                    |   |
|--------------------|---|
| <b>MJ8 Edition</b> | <ul style="list-style-type: none"> <li>▪ All features in Professional Edition, <i>plus...</i></li> <li>▪ ACCA-Approved Manual J (8<sup>th</sup> Edition) residential heating and cooling load calculations</li> </ul> |
|--------------------|---|

Download the free 30-day trial at:

[www.HeatCAD.com/Downloads](http://www.HeatCAD.com/Downloads)

## General

		Pro	MJ8
1	Perform room-by-room residential heating and cooling* load calculations as you draw	•	•
2	Perform ACCA-Approved Manual J8 residential heating and cooling load calculations		•
3	Easy to learn - previous CAD experience not required	•	•
4	Stand-alone program: AutoCAD <sup>1</sup> is not required	•	•
5	Enhanced New Project Wizard makes project setup easier than ever	•	•
6	Quickly create new floor plan drawings or import existing drawings (PDF <sup>2</sup> , AutoCAD, JPG)	•	•
7	3D Views automatically generated as you draw in 2D	•	•
8	Custom Tables can be added to drawings for display of key design data	•	•
9	Insert Images to help show design/project details	•	•
10	Support for both IP (US) units and SI (Metric) units	•	•
11	Drawings and design reports can be printed or exported to PDF files	•	•
12	Report Packages lets you assemble multiple reports into a single PDF	•	•
13	Notes Library lets you save and reuse frequently used notes	•	•
14	Saving of Equipment Report items for documenting of HVAC equipment	•	•
15	Export to Excel features for key design data and materials lists	•	•
16	Video Tutorial gets you up and running fast	•	•
17	Online Help file and PDF User's Guide	•	•
18	Free program updates and technical support included with active subscription	•	•

\* Cooling loads available with CSA or Manual J calculation methods only.

# Floorplan Drawing

		Pro	MJ8
19	Importing of AutoCAD, PDF and Scanned Drawing files for use as a drawing template	•	•
20	Enhanced wall tools include Curve Wall and Wall Bump-Out	•	•
21	Easy drawing of rooms with predefined shapes or freehand	•	•
22	Draw in-room objects like stairs and cabinets	•	•
23	Smart dimension labels automatically display dimensions and allow in-place editing	•	•
24	Snap to outline of existing floorplan drawing ensures proper vertical alignment	•	•
25	Multi-selection of objects for fast setting of common properties	•	•
26	3D view automatically generated, allowing easy verification of sizes for windows, etc.	•	•
27	Multiple floorplan drawings accessible via Excel-style tabs	•	•
28	Advanced PDF Scaling option for drawings that do not display dimensions	•	•
29	Edit positioning of imported drawings	•	•
30	Mirror Drawing function allows flipping of entire floorplan drawing along any axis	•	•
31	Enhanced text objects and labels, including leader arrows	•	•
32	Notes Library lets you save and reuse frequently used notes	•	•
33	Merge Rooms to reduce unit loads for small areas	•	•
34	Easily add Clerestory Walls and Windows	•	•
35	Rotate drawings temporarily or permanently	•	•

# Load Calculations

		Pro	MJ8
36	ASHRAE 2017 residential heat loss calculations performed as you draw	•	•
37	CSA F280-12 (R2021) residential heating and cooling load calculations	•	•
38	<b>NEW</b> CSA F280-12 Annex D Summary Report	•	•
39	ACCA-Approved Manual J calculations for residential heating and cooling loads (8 <sup>th</sup> Edition Version 2.5)		•
40	Manual J advanced calculations support		•
41	Manual J block and room load calculations		•
42	Manual J AED (Adequate Exposure Diversity) calculations and graphs		•
43	Manual J Peak Load Procedure option		•
44	Manual J October cooling load evaluation automatically performed		•
45	Manual J estimated room CFM		•
46	Manual J calculations for Infiltration for <b>Maximum ACH50 values</b>		•
47	Manual J Review step to assist with project analysis and review		•
48	Manual J approved report formats		•
49	Create custom climate locations and save for reuse on other projects	•	•
50	Ability to specify rooms heated by radiant, baseboard, forced air or other heat	•	•
51	Automatic calculation of required supplemental heat for radiant heated rooms	•	•
52	R-value lists for all major structural components	•	•

		Pro	MJ8
53	<b>Custom Construction Library</b> to save your custom construction items for re-use	•	•
54	Input of custom R-values or U-values	•	•
55	Support for cold partitions with editing of cold side temperatures	•	•
56	Optional manual input of heat loads on a room basis	•	•
57	Project Wizard guides you through the setup of construction defaults for your project	•	•
58	<b>Project Templates</b> to save your common project settings for re-use	•	•
59	Estimated Air Flow (CFM) calculations	•	•
60	Graphical views of calculated unit heat load data via color shading of rooms	•	•
61	Spreadsheet style view of data provides easy review and analysis	•	•
62	Heat loss summary and detailed report options	•	•