

HeatCAD® 2021 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.

Download the free 30-day trial at:

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

<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>

## 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	Project Wizard helps you set up new projects quickly	•	•
9	Custom Tables can be added to drawings for display of key design data	•	•
10	<b>NEW</b> Insert Images to help show design/project details	•	•
11	Support for both IP (US) units and SI (Metric) units	•	•
12	Drawings and design reports can be printed or exported to PDF files	•	•
13	Report Packages lets you assemble multiple reports into a single PDF	•	•
14	Saving of Equipment Report items for documenting of HVAC equipment	•	•
15	Export to Excel features for all 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 with an 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 with Freehand draw tools	•	•
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	<b>NEW</b> Merge Rooms to reduce unit loads in small areas	•	•
34	<b>NEW</b> Easily add Clerestory Walls and Windows	•	•
35	<b>NEW</b> Rotate drawings temporarily or permanently	•	•

# Load Calculations

		Pro	MJ8
36	ASHRAE 2017 residential heat loss calculations performed as you draw	•	•
37	CSA F280-12 (R2017) residential heating and cooling load calculations	•	•
38	ACCA-Approved Manual J calculations for residential heating and cooling loads (8 <sup>th</sup> Edition Version 2.5)		•
39	Manual J advanced calculations support		•
40	Manual J block and room load calculations		•
41	Manual J AED (Adequate Exposure Diversity) calculations and graphs		•
42	Manual J Peak Load Procedure option		•
43	Manual J October cooling load evaluation automatically performed		•
44	Manual J estimated room CFM		•
45	Manual J calculations for Infiltration for <b>Maximum ACH50 values</b>		•
46	Manual J Review step to assist with project analysis and review		•
47	Manual J approved report formats		•
48	Create custom climate locations and save for reuse on other projects	•	•
49	Ability to specify rooms heated by radiant, baseboard, forced air or other heat	•	•
50	Automatic calculation of required supplemental heat for radiant heated rooms	•	•
51	R-value lists for all major structural components	•	•
52	<b>Custom Construction Library</b> to save your custom construction items for re-use	•	•

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