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| ASHRAE Technical FAQ |
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| ID  | 78 |
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| Question  | How can I calculate heating and cooling loads for a residential facility? |
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| Answer  | Use the methodology given in the [2021 ASHRAE Handbook - Fundamentals](https://www.techstreet.com/ashrae/standards/2021-ashrae-handbook-fundamentals-i-p?product_id=2224991), Chapter [F17](https://www.techstreet.com/ashrae/standards/f17-residential-cooling-and-heating-load-calculations-i-p?product_id=2225701)or in [ACCA Manual J Eighth Edition](http://www.techstreet.com/cgi-bin/detail?product_id=1703840).ASHRAE develops procedures and methods for calculating heating and cooling loads. These are documented in the Handbook of Fundamentals. The methods are adapted and expanded by software vendors and other organizations such as ACCA (Air Conditioning Contractors of America).The handbook and/or individual chapters of the handbook may be purchased and downloaded at [www.ashrae.org](http://www.ashrae.org) or by calling 1-800-527-4723 in the USA and Canada or 1-404-636-8400 worldwide.ACCA information can be found at [www.acca.org](http://www.acca.org).  |
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| ASHRAE Pubs  | [2021 ASHRAE Handbook - Fundamentals](https://www.techstreet.com/ashrae/standards/2021-ashrae-handbook-fundamentals-i-p?product_id=2224991), Chapter [F17](https://www.techstreet.com/ashrae/standards/f17-residential-cooling-and-heating-load-calculations-i-p?product_id=2225701) |
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| Topic References  | load calculations, residential heating load, cooling load, size, tons |
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|  | Cognizant ASHRAE Committees | Refer to Organization |
| 1 | [TC 4.1](http://tc0401.ashraetcs.org/) | [ACCA](http://www.acca.org)  |
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