

2018 DETAILED CODE REFERENCES TO ACCA MANUALS (updated 25 April 2018)

Code Body	Code	Edition	ACCA Reference	2018 Code Statement
<p align="center">International Association of Plumbing and Mechanical Officials (IAPMO)</p>	<p align="center">Uniform Mechanical Code (UMC)</p>	<p align="center">2018</p>	<p align="center">{2018 UMC §102.3.1 & §1013.3} [ACCA/ASHRAE 180 Inspection and Maintenance of Commercial Building HVAC Systems]</p> <p align="center">{2018 UMC §102.3.2} [ACCA 4 QM Maintenance of Residential HVAC Systems]</p> <p align="center">{2018 UMC §302.1.2 & §302.2} [Manual Q Low Pressure Low Velocity Duct Systems Design]</p> <p align="center">{2018 UMC §302.1.2 & §302.2} [Manual N Commercial Load Calculations]</p> <p align="center">{2018 UMC §314.1(2)} [ACCA Manual B Balancing and Testing Air and Hydronic Systems]</p> <p align="center">{2018 UMC §601.2 & §E502.4.4 & §607.2.2} [Manual D Residential Duct Systems]</p> <p align="center">{2018 UMC §E503.4.5} [ACCA/ASHRAE 183 Peak Heating and Cooling Load Calculations in Buildings Except Low-Rise Residential Buildings]</p> <p align="center">{2018 UMC §E607.2(1)} [Manual J Residential Load Calculation- 8th Ed.]</p> <p align="center">{2018 UMC §E607.2(3)} [Manual S – 2014: Residential Equipment Selection]</p>	<p><u>102.3.1 Commercial HVAC Systems (in Chapter 1 – ADMINISTRATION):</u> Commercial HVAC systems both existing and new, and parts thereof shall be inspected and maintained in operating condition in accordance with ASHRAE/ACCA 180...</p> <p><u>102.4.2 Residential HVAC Systems (in Chapter 1 – ADMINISTRATION):</u> Residential HVAC systems both existing and new, and parts thereof shall be inspected in accordance with ACCA 4 QM...</p> <p><u>302.1.2 Standards:</u> ... A list of accepted mechanical system material standards is referenced in Table 1701.1. A list of additional standards, publications, practices and guides that are not referenced in specific sections of this code appear in Table 1701.2. The documents indicated in Table 1701.2 shall be permitted in accordance with Section 302.2 (Alternate Materials...)</p> <p><u>314.1(2) General (in Section 314 – Balancing):</u> Heating, ventilating, and air-conditioning systems (including hydronic systems) shall be balanced in accordance with one of the following methods: (2) ACCA Manual B</p> <p><u>601.2 Sizing Requirements (in Chapter 16 – DUCT SYSTEMS):</u> Duct systems shall be sized in accordance with ACCA Manual D listed in Table 1701.1, or by other approved methods.</p> <p><u>1013.1 General (in Chapter 10 – BOILERS and PRESSURE VESSELS):</u> The Authority Having Jurisdiction shall inspect boilers and pressure vessels operated under permit in accordance with ASHRAE/ACCA 180 at such intervals as deemed necessary, but not less frequently than noted.</p> <p><u>1105.1 Human Comfort (in Chapter 11 – REFRIGERATION):</u> ... Cooling equipment used for human comfort in dwelling units shall be selected to satisfy the calculated loads determined in accordance with the reference standards in Chapter 17 or other approved methods.</p> <p>Chapter 17 Referenced Standards Table 1701.1 Referenced Standards</p> <ul style="list-style-type: none"> - ACCA Manual D-2016 - ACCA 4 QM-2013 - ASHRAE/ACCA 180-2012 <p>Chapter 17 Referenced Standards Table 1701.2 Standards, Publications, Practices, and Guides</p> <ul style="list-style-type: none"> - ACCA Manual B-2009 - ACCA Manual J-2016 - ACCA Manual N-2012 - ACCA Manual Q-2003 - ASHRAE/ACCA 183-2007 (RA 2011)

Code Body	Code	Edition	ACCA Reference	2018 Code Statement
<p>International Association of Plumbing and Mechanical Officials (IAPMO)</p>	<p>Uniform Swimming Pool, Spa, and Hot Tub Code (USPSHTC)</p>	<p>2018</p>	<p>{2018 USPSHTC §301.2.2} [ACCA 10 Manual SPS HVAC Design for Swimming Pools and Spas]</p>	<p>301.2.2 Standards. A list of additional standards, publications, practices and guides that are not referenced in specific sections of this code appear in Table 1001.2. The documents indicated in Table 1001.2 shall be permitted in accordance with Section 301.3.</p> <p>Chapter 10 Referenced Standards 1001.2 Standards, Publications, Practices, and Guides. The standards, publications, practices and guides listed in Table 1001.2 are not referenced in other sections of this code. The application of the referenced standards, publications, practices and guides shall be as specified in Section 302.1.2. The promulgating agency acronyms are found at the end of the table.</p> <p>Chapter 10 Referenced Standards Table 1001.2 Standards, Publications, Practices, and Guides - ACCA 10 Manual SPS-2010</p>

Code Body	Code	Edition	ACCA Reference	2018 Code Statement
<p style="text-align: center;">International Code Council (ICC)</p>	<p style="text-align: center;">International Residential Code (IRC)</p>	2018	<p style="text-align: center;">{2018 IRC §M1401.3 and §N1103.7} [Manual J – 2016: Residential Load Calculation – 8th Ed.]</p> <p style="text-align: center;">{2018 IRC §M1401.3 and §N1103.7} [Manual S – 2014: Residential Equipment Selection]</p> <p style="text-align: center;">{2018 IRC Table R301.2(1), §M1601.1 and §M1602.2} [Manual D – 2016: Residential Duct Systems]</p>	<p>M1401.3 Equipment and appliance sizing. Heating and cooling equipment and appliances shall be sized in accordance with ACCA Manual S or other approved sizing methodologies based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.</p> <p>Exception: Heating and cooling equipment and appliance sizing shall not be limited to the capacities determined in accordance with Manual S where either of the following conditions applies:</p> <ol style="list-style-type: none"> 1. The specified equipment or appliance utilizes multistage technology or variable refrigerant flow technology and the loads calculated in accordance with the approved heating and cooling calculation methodology are within the range of the manufacturer’s published capacities for that equipment or appliance. 2. The specified equipment or appliance manufacturer’s published capacities cannot satisfy both the total and sensible heat gains calculated in accordance with the approved heating and cooling calculation methodology and the next larger standard size unit is specified. <p>M1601.1 Duct design. Duct systems serving heating, cooling and ventilation equipment shall be installed in accordance with the provisions of this section and ACCA Manual D, the appliance manufacturer’s installation instructions or other approved methods.</p> <p>M1602.2 Return air openings. Return air opening for heating, ventilation and air conditioning systems shall comply with all of the following: ... 3. Return and transfer opening shall be sized in accordance with the appliance or equipment manufacturers’ installation instructions, Manual D or the design of the registered design professional.</p> <p>N1103.7 (R403.7) Equipment sizing and efficiency rating (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on <i>building</i> loads calculated in accordance with ACCA Manual J or other <i>approved</i> heating and cooling calculation methodologies. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.</p> <p style="text-align: center;">TABLE R301.2(1) <u>CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA</u></p> <p style="text-align: center;">(table data not shown)</p> <p style="text-align: center;"><u>MANUAL J DESIGN CRITERIA n</u></p> <p>n. The jurisdiction shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the jurisdiction.</p>
	<p style="text-align: center;">International Energy Conservation Code (IECC)</p>	2018	<p style="text-align: center;">{2018 IECC §R403.7} [Manual J – 2016: Residential Load Calculation-8th Ed.]</p> <p style="text-align: center;">{2018 IECC §R403.7} [Manual S – 2014: Residential Equipment Selection]</p>	<p>R403.7 Equipment sizing and efficiency rating (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.</p>

Code Body	Code	Edition	ACCA Reference	2018 Code Statement
	International Mechanical Code (IMC)	2018	<p>{2018 IMC §312.1} [ANSI/ASHRAE/ACCA 183 – 2007 (reaffirmed 2014): Peak Cooling and Heating Load Calculations in Buildings Except Low-rise Residential Buildings]</p> <p>{2018 IMC §601.5(4) and §603.2} [Manual D – 2016: Residential Duct Systems]</p>	<p>312.1 Load calculations. Heating and cooling system design loads for the purpose of sizing systems, appliances and <i>equipment</i> shall be determined in accordance with the procedures described in the ASHRAE/ACCA Standard 183.</p> <p>601.5 Return air openings. Return air openings for heating, ventilation and air-conditioning systems shall comply with all of the following:</p> <p>4. Return and transfer openings shall be sized in accordance with the appliance or equipment manufacturer’s installation instructions, ACCA Manual D or the design of the registered design professional.</p> <p>603.2 Duct sizing. Ducts installed within a single dwelling unit shall be sized in accordance with ACCA Manual D, the appliance manufacturer’s installation instructions or other approved methods. Ducts installed within all other buildings shall be sized in accordance with the <i>ASHRAE Handbook of Fundamentals</i> or other equivalent computation procedure.</p>