

DETAILED CODE REFERENCES TO ACCA STANDARDS – 2015

Code Body	Code	ACCA Reference	Code Statement
International Association of Plumbing and Mechanical Officials	Uniform Mechanical Code	<p style="text-align: center;"> {2015 UMC §102.3.1 & §1013.3} [ACCA/ASHRAE 180 Inspection and Maintenance of Commercial Building HVAC Systems] </p> <p style="text-align: center;"> {2015 UMC §102.3.2} [ACCA 4 QM Maintenance of Residential HVAC Systems] </p> <p style="text-align: center;"> {2015 UMC §302.1.2 & §302.2} [Manual Q Low Pressure Low Velocity Duct Systems Design] </p> <p style="text-align: center;"> {2015 UMC §302.1.2 & §302.2} [Manual N Commercial Load Calculations] </p> <p style="text-align: center;"> {2015 UMC §314.1(2)} [ACCA Manual B Balancing and Testing Air and Hydronic Systems] </p> <p style="text-align: center;"> {2015 UMC §601.2 & §E502.4.4 & §607.2.2} [Manual D Residential Duct Systems] </p> <p style="text-align: center;"> {2015 UMC §E503.4.5} [ACCA/ASHRAE 183 Peak Heating and Cooling Load Calculations in Buildings Except Low-Rise Residential Buildings] </p> <p style="text-align: center;"> {2015 UMC §E607.2(1)} [Manual J Residential Load Calculation-8th Ed.] </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>102.3.2 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. </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 used with blower-type equipment that are portions of a heating, cooling, absorption, evaporative cooling, or outdoor-air ventilation system shall be sized in accordance with an approved standard 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 - ACCA Manual B-2009 - ACCA Manual D-2009 - ACCA Manual J-2011 - ACCA Manual N-2012 - ACCA Manual Q-2003 - ACCA 4 QM-2013 - ASHRAE/ACCA 180-2012 - ASHRAE/ACCA 183-2007 (RA 2011) </p>

International Code Council	International Residential Code	<p>{2015 IRC §M1401.3} [Manual J Residential Load Calculation – 8th Ed.]</p> <p>{2015 IRC §M1401.3} [Manual S Residential Equipment Selection]</p> <p>{2015 IRC §M1601.1 and §M1602.2 } [Manual D 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>
	International Energy Conservation Code	<p>{2015 IECC §R403.7} [Manual J Residential Load Calculation-8th Ed.]</p> <p>{2015 IECC §R403.7 } [Manual S 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>
	International Mechanical Code	<p>{2015 IMC §603.2} [Manual D Residential Duct Systems]</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>