



SIZING OF HEATING AND COOLING EQUIPMENT AND DUCTS
- FOR COMMERCIAL PROJECTS -

INSTRUCTIONS

This form shall be completed and submitted to the field inspector for the following commercial projects:

- new construction
- additions
- complete remodels
- complete new ac systems

Please note the form must be presented before the final mechanical inspection can be approved.

CODE INFORMATION

Below are excerpts from the 2012 Uniform Mechanical Code (UMC) and the 2015 International Energy Conservation Code pertaining to this requirement:

***601.2 (2012 UMC) Sizing Requirements.** 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 Chapter 17, or by other approved methods.*

***C403.2.1 (2015 IECC) Calculation of heating and cooling loads.** Design loads associated with heating, ventilating and air conditioning of the building shall be determined in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure using the design parameters specified in Chapter 3. Heating and cooling loads shall be adjusted to account for load reductions that are achieved where energy recovery systems are utilized in the HVAC system in accordance with the ASHRAE HVAC Systems and Equipment Handbook by an approved equivalent computational procedure.*

***C403.2.2 (2015 IECC) Equipment sizing.** The output capacity of heating and cooling equipment shall be not greater than the loads calculated in accordance with Section C403.2.1. A single piece of equipment providing both heating and cooling shall satisfy this provision for one function with the capacity for the other function as small as possible, within available equipment options.*

PROJECT AND CONTRACTOR INFORMATION

Address: _____	Company Name: _____
Project Number: _____	Contractor License: _____

HVAC EQUIPMENT SELECTION

<u>Cooling Equipment:</u>	<u>Heating Equipment:</u>
Type: _____	Type: _____
Total Cooling Capacity: _____	Total Heating Output: _____

ACKNOWLEDGEMENT

I declare for the above mentioned address, the output capacity of heating and cooling equipment shall be not greater than the loads calculated in accordance with Section C403.2 of the 2015 IECC ***unless exceptions 1 & 2 apply***. I declare for the above mentioned address the duct sizing shall be installed in accordance with Chapter 17 of the UMC, or by other approved methods.

Printed Name: _____ Date: _____

Signature: _____