

**INTERPRETATION IC 90.1-2004-13 OF
ANSI/ASHRAE/IESNA STANDARD 90.1-2004
Energy Standard for Buildings Except Low-Rise Residential Buildings**

Date Approved: October 12, 2007

Request from: Heather Camden (E-mail: camden@eceng.com), E&C Engineers & Consultants Inc., 1010 Lamar, Suite 650, Houston, Texas 77002.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IESNA Standard 90.1-2004, Section 6.5.7.2(a), regarding fume hood VAV.

Background: In larger research laboratory spaces where there are one or two fume hoods there are times where the reduction of the exhaust and make-up air volumes to 50% or less of design values would require the reduction of exhaust to less than the ASHRAE Standard 62.1 requirement of 1 cfm/sqft.

Interpretation: It is not the intent of Section 6.5.7.2 (a) to reduce the exhaust air flows to less than the ASHRAE Standard 62.1 required exhaust air flows of 1 cfm/sqft. The paragraph should read, "(a) Variable air volume hood exhaust and room supply systems capable of reducing exhaust and make-up air volume to the greater of 50% or less of design values, or the ASHRAE 62.1 minimum requirements."

Question: Is this interpretation correct?

Answer: No

Comment: Reduction of exhaust and make-up air volumes by 50% is one of three methods by which large lab exhaust systems (over 15,000 cfm) can comply with 6.5.7.2.