

HVAC AIR DUCT LEAKAGE TEST MANUAL



**SHEET METAL AND AIR CONDITIONING CONTRACTORS'
NATIONAL ASSOCIATION, INC.**

U.S.

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System Air Leakage Test Standard 1st Ed. 2020 Smacna,2020-08-20 **Duct and Envelope Testing** Erik

Rasmussen,Randy F. Petit, Sr.,John Diem,2015-01-01 To comply with the International Energy Code most states now require duct testing for both new construction and retrofit Duct and Envelope Testing provides an in depth understanding of envelope and duct leakage testing procedures methods of expressing results and terminology This five section manual provides an understanding of the terminology and building science affecting energy efficiency The tools and testing procedures used to evaluate a building s envelope and duct systems are covered in detail The manual provides the methods for expressing and recording envelope or duct leakage test results and explains what the numbers mean to the home owner and local code officials The manual contains a worksheet for each section [Alternative Procedure to Home Energy Rating System Rater Nonresidential Duct Leakage Test Verification](#) Joe Loyer,2017 [Duct Leakage Testing](#) John Diem,Erik Rasmussen,Randy F. Petit, Sr.,2015-05-01 To comply with the International Energy Code most states now require duct testing for both new construction and retrofit Duct leakage testing provides an in depth understanding of duct leakage testing procedures methods of expressing results and terminology Building Science is the study of a building s interaction between the structure and its components A structure s occupants mechanical systems and the surrounding outdoor environment all play a role in the performance of a building Duct Leakage Testing covers Duct leakage testing methods or total leakage Leakage to the outside using a duct pressurization tester Modified blower door subtraction methods [DW143 Guide to Good Practice](#) Building and Engineering Services Association,2013 **A Practical Guide to Ductwork Leakage Testing** Heating and Ventilating Contractors' Association,2000 **Reducing Uncertainty for the DeltaQ Duct Leakage Test** ,2004 The thermal distribution system couples the HVAC components to the building envelope and shares many properties of the buildings envelope including moisture conduction and most especially air leakage performance Duct leakage has a strong influence on air flow rates through building envelopes usually resulting in much greater flows than those due to natural infiltration because unbalanced duct air flows and leaks result in building pressurization and depressurization As a tool to estimate this effect the DeltaQ duct leakage test has been developed over the past several years as an improvement to existing duct pressurization tests It focuses on measuring the air leakage flows to outside at operating conditions that are required for envelope infiltration impacts and energy loss calculations for duct systems The DeltaQ test builds on the standard envelope tightness blower door measurement techniques by repeating the tests with the system air handler off and on The DeltaQ test requires several assumptions to be made about duct leakage and its interaction with the duct system and building envelope in order to convert the blower door results into duct leakage at system operating

conditions This study examined improvements to the DeltaQ test that account for some of these assumptions using a duct system and building envelope in a test laboratory The laboratory measurements used a purpose built test chamber coupled to a duct system typical of forced air systems in US homes Special duct leaks with controlled air flow were designed and installed into an airtight duct system This test apparatus allowed the systematic variation of the duct and envelope leakage and accurate measurement of the duct leakage flows for comparison to DeltaQ test results This paper will discuss the laboratory test apparatus design construction and operation the various analysis techniques applied to the calculation procedure and present estimates of uncertainty in measured duct leakage

A Practical Guide to Ductwork Leakage Testing Heating and Ventilating Contractors' Association,1983 High Pressure Duct Construction Standards SMACNA.,

Development of a New Duct Leakage Test ,2001 Duct leakage is a key factor in determining energy losses from forced air heating and cooling systems Several studies Francisco and Palmiter 1997 and 1999 Andrews et al 1998 and Siegel et al 2001 have shown that the duct system efficiency cannot be reliably determined without good estimates of duct leakage Specifically for energy calculations it is the duct leakage air flow to outside at operating conditions that is required Existing test methods either precisely measure the size of leaks but not the flow through them at operating conditions or measure these flows with insufficient accuracy The DeltaQ duct leakage test method was developed to provide improved estimates of duct leakage during system operation In this study we developed the analytical calculation methods and the test procedures used in the DeltaQ test As part of the development process we have estimated uncertainties in the test method both analytically and based on field data and designed automated test procedures to increase accuracy and reduce the contributions of operator errors in performing field tests In addition the test has been evaluated in over 100 houses by several research teams to show that it can be used in a wide range of houses and to aid in finding limits or problems in field applications The test procedure is currently being considered by ASTM as an update of an existing duct leakage standard Fibrous Glass Duct

Construction Standards 7th Ed Smacna,2003-06 *Hvac Duct Systems Inspection Guide, 3rd Edition* ,2006 **Low**

Pressure Duct Construction Standards SMACNA., *The SMACNA Duct Design Calculator* Sheet Metal and Air Conditioning Contractors' National Association (U.S.),1988 Duct Leakage Repeatability Testing ,2014 The purpose of this report is to evaluate the repeatability of the three most significant measurement techniques for duct leakage using data from the literature and recently obtained field data We will also briefly discuss the first two factors The main question to be answered by this study is to determine if differences in the repeatability of these tests methods is sufficient to indicate that any of these methods is so poor that it should be excluded from consideration as an allowed procedure in codes and standards The three duct leak measurement methods assessed in this report are the two duct pressurization methods that are commonly used by many practitioners and the DeltaQ technique These are methods B C and A respectively of the ASTM E1554 standard Although it would be useful to evaluate other duct leak test methods this study focused on those test

methods that are commonly used and are required in various test standards such as BPI 2010 RESNET 2014 ASHRAE 62.2
2013 California Title 24 CEC 2012 DOE Weatherization and many other energy efficiency programs **Round Industrial**
Duct Construction Standards 3rd Ed. 2013 Smacna, 2013-12

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