

HVAC AIR DUCT LEAKAGE TEST MANUAL



**SHEET METAL AND AIR CONDITIONING CONTRACTORS'
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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

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

A Practical Guide to Ductwork Leakage Testing Heating and Ventilating Contractors' Association,1983

Air Leakage Detection in Various Cross Sectioned Air Ducts and Research on Manufacturing Methods for Airtightness Çiğdem Aydın,İzmir Institute of Technology. Mechanical Engineering,2004 Air ducts and related equipments are important components of climate and ventilation systems in order to distribute clean air necessary for the occupied space to whole system and to control thermal comfort Despite of Turkish standards on air duct are present studies on energy consumption associated with air leakage are very rare in Turkey on the contrary to many developed countries In this study the subject of preventing energy losses related to the leakage which causes inefficient working condition has been investigated Firstly air duct system and quality requirements have been explained and the main standards have been analyzed for airtightness of air distribution systems as well Secondly duct system measurements have been conducted by choosing two different approaches One approach covers leakage calculation of a single duct by using European Standard called Eurovent whereas the other one divides the system into single sections and uses the Power Law Model for calculation of leakage occurred in each section Single duct leakage measurements were made on 300 mm and

1000 mm diameter circular ducts and 300 mm by 250 mm and 1000 mm by 500 mm flanged joint rectangular ducts for positive internal pressures Test results showed that duct leakage depends on the method of duct fabrication method of sealing workmanship and static pressure differential Furthermore calculated leakage factors were under the allowable leakage limits in classification C for rectangular and circular ducts that were produced by Venco A Comparing rectangular to circular ducts both had the same length of seam and surface area the leakage from circular ducts was less than 80% from rectangular ducts The air leakage from all test ducts with the same lock seam type decreases whereas the surface area increases Branched duct leakage measurements were made on 300 mm and 630 mm diameter circular ducts and 300 mm by 200 mm and 500 mm by 300 mm rectangular ducts and also air distribution system for positive internal pressures Test results showed that fittings in a system cause sudden changes in static pressure therefore duct leakage depends on fitting locations The leakage rate in Spiro sealed system was less than 5% Trelleborg sealed system The leakage measured in this study showed that seam leakage accounts from 14% to 20% of the total in the two rectangular ducts and from 8% to 13% for the round ducts with Pittsburgh and Spiral lock seams These data show that the joints are the major source of duct leakage Improvement in duct construction leading to duct systems with less leakage will need to focus on better joints Keywords airtightness duct system air duct leakage duct leakage model ductwork test procedure and methods *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 *High Pressure Duct Construction Standards* SMACNA., *Hvac Duct Systems Inspection Guide, 3rd Edition*, 2006 **The SMACNA Duct Design Calculator** Sheet Metal and Air Conditioning Contractors' National Association (U.S.),1988 *Fibrous Glass Duct Construction Standards 7th Ed* Smacna,2003-06

Low Pressure Duct Construction Standards SMACNA., **LABORATORY EVALUATION OF THE DELTA Q TEST FOR DUCT LEAKAGE.**, 2003 Using a residential size duct system in a controlled laboratory setting the repeatability and accuracy of the Delta Q test for air leakage in residential duct systems have been measured More than 100 Delta Q tests were performed These were compared with results using fan pressurization and also with results of a procedure Delta Q Plus

that uses leakage hole size information to select the leakage pressures to be used in the Delta Q algorithm. The average error in supply or return leakage for the fan pressurization test was 6.4% of system fan flow. For the Delta Q test it was 3.4% of fan flow while for Delta Q Plus it was 1.9% of fan flow.

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