



# HVAC Performance Verifier

*Certification*



# *the* Need

- In North America:
  - More than 50 percent of energy consumed in the home is related to space heating/cooling and water heating.
  - Department of Energy (DOE) estimates that more than 30 percent of that energy usage is wasted
  - Function of improperly sized, installed, or serviced systems.



# *the* Response

- NATE and the Residential Energy Services Network (RESNET):
  - Collaborated on a new certification:
    - *the HVAC Performance Verifier*



# *the* Credential

- HVAC Performance Verifier certification
  - Augments existing whole house energy efficiency certifications to:
    - Further demonstrate the rater has the knowledge and skills necessary, specifically in rating HVAC performance



# *the* Exam

- Content includes:
  - Current industry-determined and approved design standards, codes, and energy efficiency research
    - Measures the rater's ability to verify proper performance of
      - Load Calculation;
      - Duct Sizing;
      - Sealing of Ducts;
      - Ventilation and Infiltration Diagnosis;
      - Charging of System Refrigerant Component; and
      - Hydronics Distribution Systems



# Becoming a NATE

*Certified Technician*



# Everything You Wanted To Know

- What is certification?
- Certification vs. Certificate
- NATE: Who We Are
- NATE Partners
- Elements of a Profession
- KATES
- What distinguishes NATE?
- Recertification
- Why Pursue Certification?
- NATE Examinations
- How do I Study?



# What is Certification?

- ***Certification*** - a **voluntary** process to recognize ***individuals*** for meeting standards set by a third party
- ***Accreditation*** - a **voluntary** process to recognise ***institutions or organizations*** for meeting standards set by a third party
- ***Licensure*** - a **mandatory** governmental requirement necessary for ***individuals*** to practice in a particular profession





# What is Certification?

- Certification assures the public that an individual demonstrates specific knowledge required of a technician at a certain level.
  - Academic degrees and educational certificates do not certify demonstrated knowledge of the HVACR industry.



# Certification vs. Certificate

- Results from an assessment process
  - For individuals
  - Typically requires work experience
  - Indicates mastery of knowledge usually assessed through an exam
  - Awarded by third-party, standard-setting organization
- Results from an educational process
  - For individuals
  - For newcomers and experienced professionals
  - Indicates completion of a course or series of courses with a specific focus
  - Awarded by educational programs or institutions



# Certification vs. Certificate

- Standards set by a thorough, defensible, industry-wide process resulting in outline of required knowledge or skills
- Typically results in a designation, for example: NATE certified
- Has on-going requirements in order to maintain; holder must continue to demonstrate he/she meets requirements
- Course content set a variety of ways (dean, faculty, instructor)
- Usually listed on a resume detailing education; may issue a document to hang on the wall
- Is the end result; demonstrates knowledge of course content at the end of a set period in time



# North American Technician Excellence: *who we are*

- North American Technician Excellence (NATE) is an independent certifying body for the HVACR industry.
- NATE is the nation's largest industry-endorsed, non-profit certification organization for heating, ventilation, air conditioning and refrigeration technicians.
- NATE was created in 1997



# NATE: *who we are*

- Our envisioned future
  - HVACR industry technicians are recognized as trustworthy, reliable, professional, knowledgeable and efficient by home and business owners.
- Core purpose
  - To certify professional competence and instill confidence
- Vision
  - A NATE patch is proudly worn on every technician's shirt



# NATE: *who we are*

- Core Values and Focus: Technicians

We are committed to stimulating an environment of continuous learning and applied knowledge that leads to excellence in job performance and job satisfaction. We pledge to help technicians realize their true potential.



# *NATE: who we are*

- Governed by HVACR professionals appointed by the NATE's Board of Trustees
- NATE works with a consortium of industry representatives including manufacturing, distributing, contracting, educators and utilities
- More than 30,000 + active certificants



# NATE Partners

- Affordable Comfort Institute (ACI)
- Air Conditioning Contractors of America (ACCA)
- Air-Conditioning, Heating, and Refrigeration Institute (AHRI)
- Air Movement and Control Association International (AMCA)
- American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc. (ASHRAE)
- Eastern Heating & Cooling Council (EHCC)
- Heating, Air Conditioning & Refrigeration Distributors International (HARDI)
- The Heating, Refrigeration, and Air Conditioning Institute of Canada (HRAI)
- Hydronics Industry Alliance (HIA)
- Indoor Air Quality Association (IAQA)
- Institute of Heating and Air Conditioning Industries (IHACI)
- International Ground Source Heat Pump Association (IGSHPA)
- National Air Duct Cleaners Association (NADCA)
- National Air Filtration Association (NAFA)
- National Association of Oil and Energy Service Professionals (OESP)
- National Energy Management Institute (NEMI, an organization representing Sheet Metal Contractors and Sheet Metal Workers)
- Partnership for Air Conditioning, Heating, and Refrigeration Accreditation (PAHRA)
- Plumbing-Heating-Cooling-Contractors–National Association (PHCC)
- Refrigeration Service Engineers Society (RSES)
- RESNET
- Service Roundtable
- SkillsUSA
- UltimateAir Inc.





# Elements of a Profession

- Most professions possess the following:
  - Recognized body of knowledge (Knowledge Areas of Technician Expertise– KATES)
  - Continuing education
  - Code of conduct
  - Research studying the industry
  - Certification for technicians in the industry



# Knowledge Areas of Technician Expertise

- Based on a job analysis
- Study of HVACR practice
- The survey listed the HVACR duties and the knowledge which might be required to be a NATE certified technician. Respondents are asked:
  - how frequently they perform HVACR tasks; and
  - how important those tasks and knowledge areas are for successful service outcomes on a job.
- Results are the Knowledge Areas of Technician Expertise (KATES) required to be an effective NATE certified technician



# What Distinguishes NATE certified technicians?

- Certification Requires:
  - Passing rigorous examinations
  - Candidates adhere to the *Code of Conduct*
- Commitment to ongoing development by certification maintenance



# Certification Maintenance

- Certificants are required to keep current with the ever changing aspects of the HVAC industry
- **NATE HVAC Performance Verifier** certification is valid for three (3) years
  - candidates are sent a notice to the last address on record several times at regular intervals prior to the deadline for recertification



# Certification Maintenance

- Must submit written application
- Must apply for and be granted recertification in order to continue using the NATE credential
- Certification is maintained by:
  - Completing 18 continuing education hours (CEH) in your specialty and apply for recertification before your certification lapses



# Why Pursue Certification?

## Credibility

NATE certification serves as an impartial, third party endorsement of your knowledge and experience. It adds to your credibility as a rater and sets you apart from other technicians.



# Why Pursue Certification?

## Achievement

NATE certification is a reflection of personal achievement because the individual has displayed mastery of his or her field by meeting requirements and standards set in the HVACR/Rating industries.



# Why Pursue Certification?

## Commitment

Receiving NATE certification shows your peers, supervisors and customers your commitment to your chosen career and your ability to perform to set standards. The NATE certification program seeks to stimulate an environment of continuous learning and applied knowledge that leads to excellence in job performance and job satisfaction.





# Why Pursue Certification?

## Advancement

NATE certification can give you the “edge” when being considered for a promotion or other career opportunities. The NATE certification clearly identifies you as a technician who has demonstrated mastery of HVACR principles and techniques based on accepted best practices.



# Why Pursue Certification?

- **Recognition**

As a NATE certified technician, you can expect increased recognition from your peers for taking that extra step in your career.

- **Personal Satisfaction**

NATE certification is a step toward defining yourself beyond a job description while gaining a sense of personal satisfaction.



# Why Pursue Certification?

## Responsibility, Knowledge, & Skills

- NATE certification indicates your willingness to invest in your own professional development.
- NATE certification showcases your individual mastery by confirming mastery of knowledge in the field.
- Certification maintenance is required every three years, proving you keep current in the HVACR industry.



# Why NATE Certification?

NATE certificants typically:

- Have higher salaries
- Are considered more valuable to their employer
- Are in greater demand
- Are preferred among customers



# Eligibility Requirements



- HERs certificant in good standing with RESNET
- Agree to abide by Code of Conduct



# Examination

- 100 questions
- Multiple-choice questions
- Developed by subject matter experts in the HVACR industry in conjunction with a professional testing agency



# Tests Candidates' Knowledge of:

- HVAC load calculations
- Equipment Selection
- Duct system design
- Installation Practices
- Airflow Measurements
- Diagnostic Procedures

Whole-Systems Approach to the Conditioned Environment



# How Exam was Developed



- NATE Knowledge Areas of Technician Expertise (KATES) are identified by committees of subject matter experts
- RESNET subject matter experts provided guidance on questions
- RESNET subject matter experts chose questions based on current practices and standards
- Questions reviewed by several subject matter experts



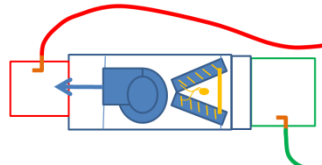
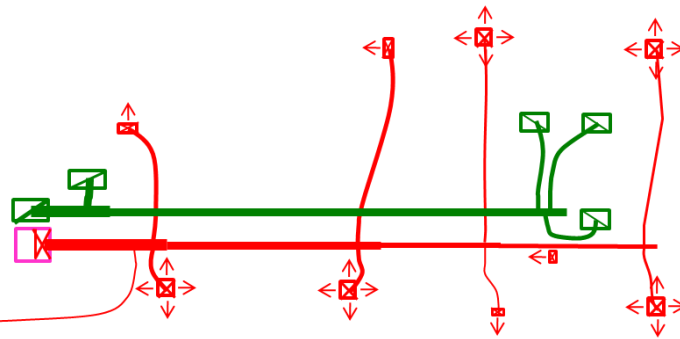
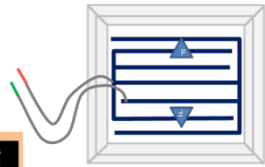
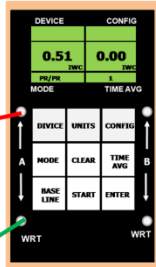


# How Do I Study?

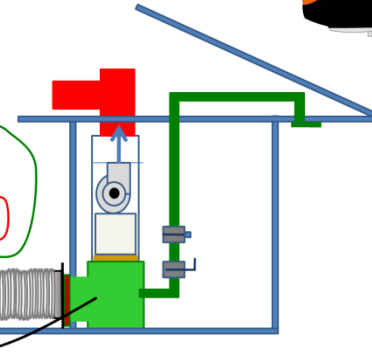
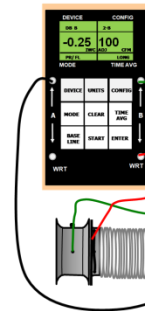
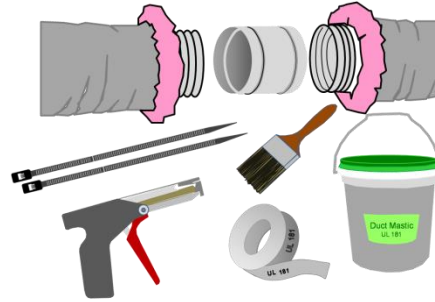
- NATE HVAC Performance Verifier exam measures mastery of knowledge needed to carry out HVAC tasks performed on the job - not a prescribed set of texts (*such as are used to in academic settings*).
- Honestly evaluate your knowledge of the HVAC industry
- Determine what they need to study
  - Exam preparation needs can be different from one candidate to another



# Things You May Want to Know



- A) Starting Collar Rectangular Metal to Round
- B) Starting Collar Rectangular Duct Board to Round
- C) Starting Collar W/Seal Round to Round
- D) Un-Insulated Register Box W/Collar
- E) Insulated Register Box W/Collar





# Question Distribution



<u>Section Area Description</u>	<u>Section Percentage</u>
Load Calculation	15%
Equipment Selection	5%
Duct Systems & Airflow	51%
Indoor Air / Environment Performance	9%
System Performance	20%

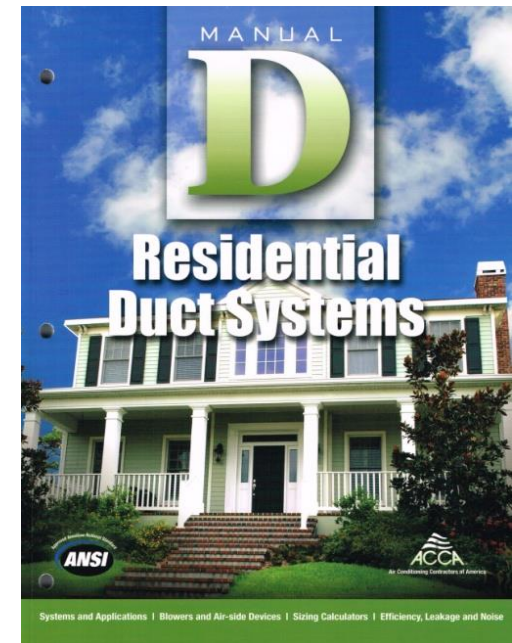
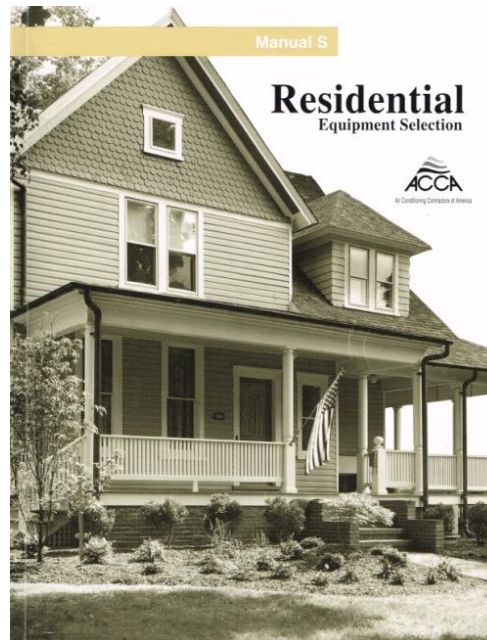
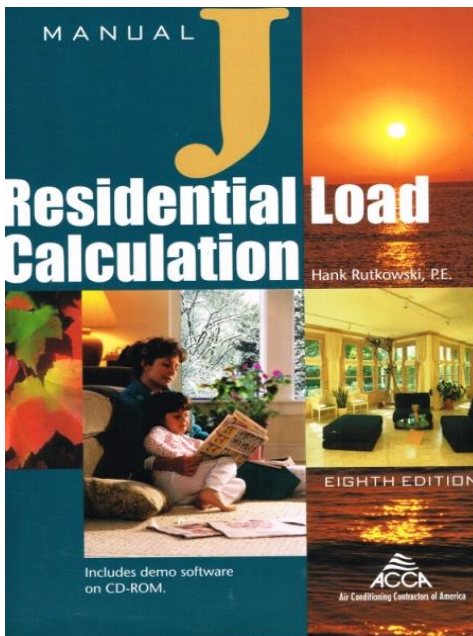


# Reference Materials



American National Standards Institute (ANSI) / Air Conditioning Contractors of America (ACCA) Manuals - "J", "S", and "D" - Latest Editions

<http://www.acca.org/>



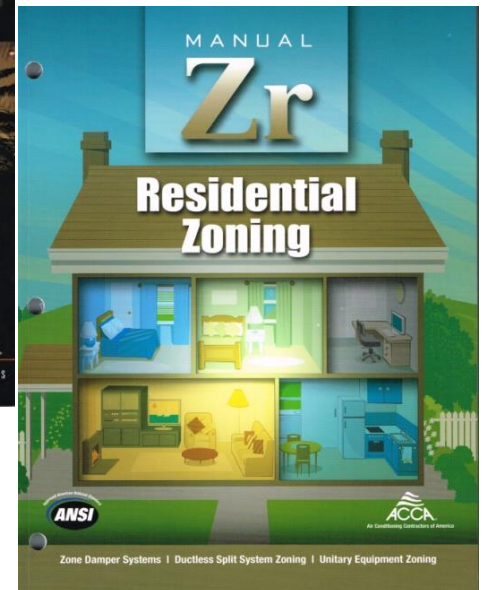
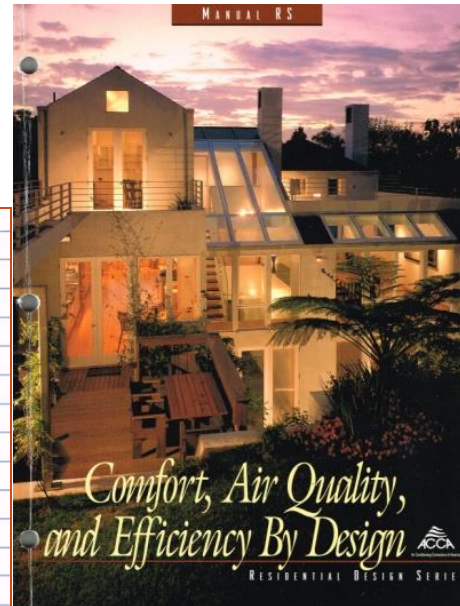
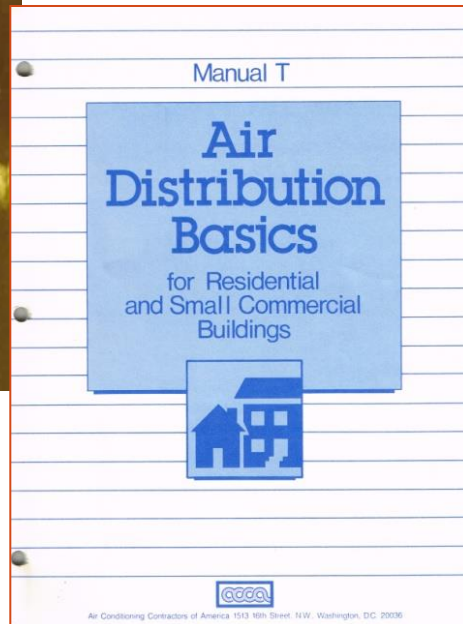
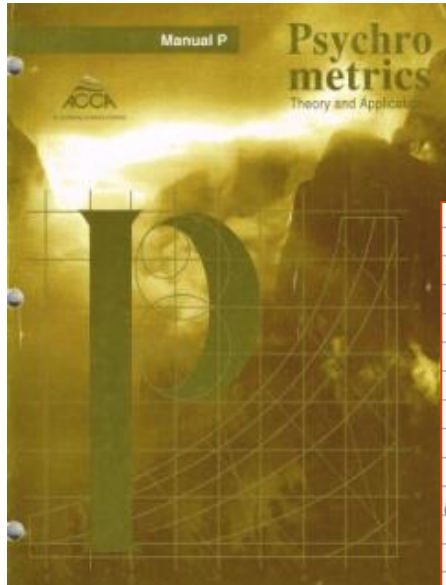


# Reference Materials



ACCA Manuals "P", "T", "RS", and "Zr" - Latest Editions

<http://www.acca.org/>





# Reference Materials



For Homeowners For Building Managers

Standards & Codes Education Events

Technical Manuals

Quality Standards

ANSI Standards

Building Codes

Approved Software

ACCA Speed-Sheets

Other Standards



# Reference Materials



Technical Manuals - ACCA

File Edit View Favorites Tools Help

MSN Calcs-Plus (2) CPS Energy - Woodside C... Energy\_Rule\_Dev FCRC-FBC (2)

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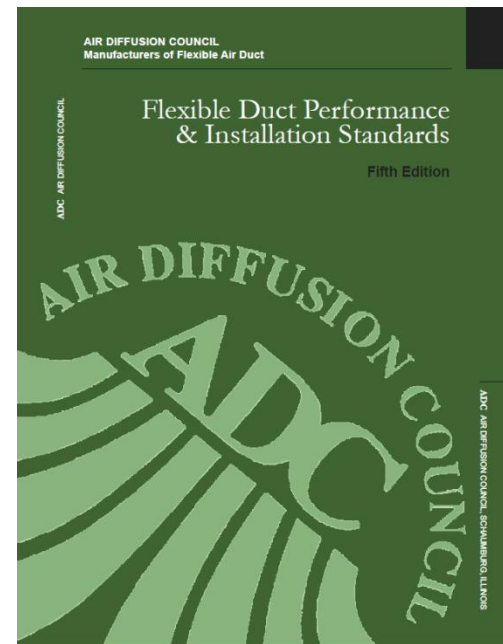
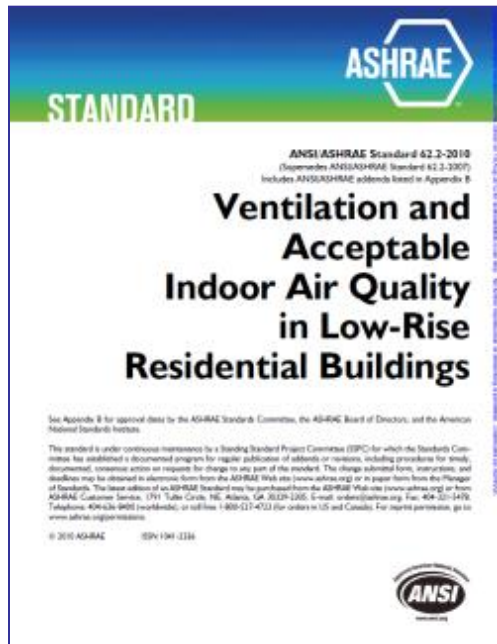


ASHRAE Standard  
62.2 – Latest Edition  
with Addendum

<http://www.techstreet.com/publishers/33>

Air Diffusion Council: Flexible  
Duct Performance & Installation  
Standards, Installation Guidelines

<http://www.flexibleduct.org>







# Reference Materials



The screenshot shows a web browser window with the URL <http://www.techstreet.com/publishers/33>. The page title is "Page Not Found - ACCA" and the browser tab is labeled "ASHRAE". The website header includes "Looking for Techstreet Subscriptions?" with a phone number "1-800-699-9277" and links for "Need Help?", "Log in", and "Create Account". The main heading is "TECHSTREET® STORE" with the tagline "Standards connect the world. We connect you to standards.™" and the Thomson Reuters logo. Navigation elements include a "SHOP by Publisher" dropdown, a "SEARCH for" input field with a search icon, a "MY ACCOUNT" dropdown, and a shopping cart icon. A large blue banner features the ASHRAE logo and text: "ASHRAE standards establish consensus for test methods and performance criteria. These include voluntary consensus standards for Method of Measurement or Test, Standard Design and Standard Practice. Consensus standards define minimum values or acceptable performance. ASHRAE is accredited by the American National Standards Institute (ANSI) and follows ANSI's requirements for due process and standards development." Below this is a section titled "MOST POPULAR FROM ASHRAE" with three product cards: 1) "ASHRAE 62.1-2013 Ventilation for Acceptable Indoor Air Quality" priced from \$79.00; 2) "ASHRAE 90.1-2013 (I-P) Energy Standard for Buildings Except Low-Rise Residential Buildings" priced from \$135.00; 3) "ASHRAE 189.1-2011 Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings" priced from \$119.00. A fourth card on the right is titled "STREAMLINE YOUR STANDARDS MANAGEMENT" with a lightbulb icon and the text "Powerful tools for easy, company-wide". The browser's address bar shows "120%" zoom.



# Reference Materials



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**Spring 2014 ADC Meeting**  
Doubletree DFW Airport North  
Tuesday-Wednesday, May 20-21, 2014 in Irving, TX



Click on the image above to visit the hotel's website.

Meeting Info. Site Search Site Map

McKirahan Web Productions

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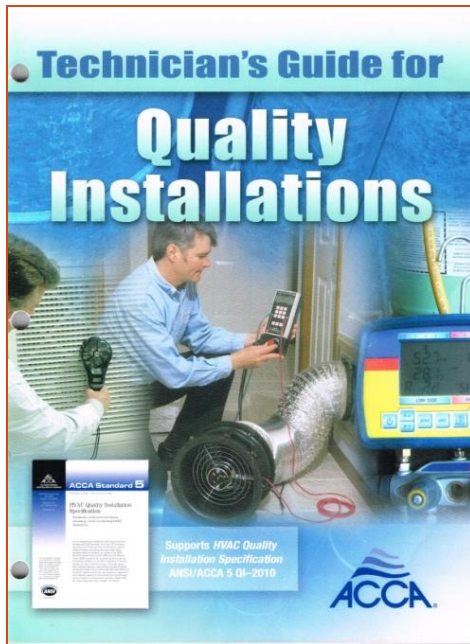
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# Reference Materials



## ACCA Technician Guide for Quality Installation (Support Document for Standard 5)



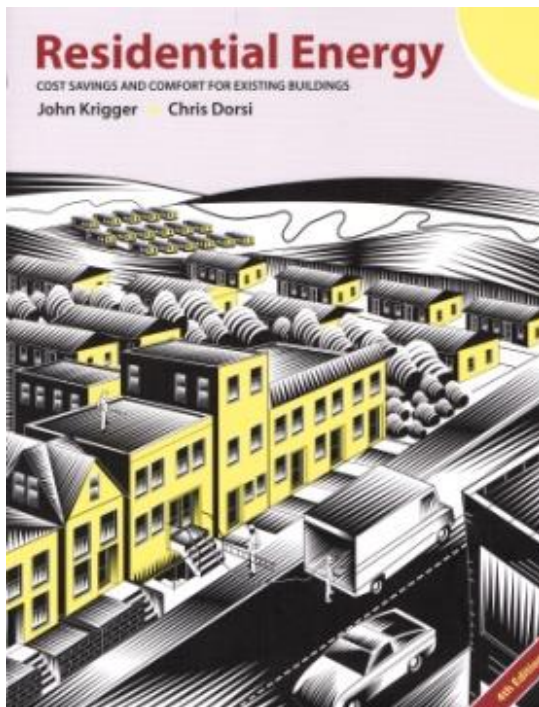
<http://www.acca.org>






# Reference Materials



## Residential Energy (Krigger & Dorsi)



## Energy Star V3

	ENERGY STAR Certified Homes, Version 3 (Rev. 07) Inspection Checklists for National Program Requirements		
	ENERGY STAR Certified Homes, Version 3 (Rev. 07) HVAC System Quality Installation Contractor Checklist <sup>1</sup>		
Home Address: _____		City: _____	State: _____
System Description <sup>2</sup> _____		Cooling system for temporary occupant load? <sup>3</sup> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>1. Whole-Building Mechanical Ventilation Design <sup>4</sup></b>	<b>Builder Verified <sup>5</sup></b>	<b>Cont. Verified <sup>6</sup></b>	<b>N/A</b>
1.1 Ventilation system installed that has been designed to meet ASHRAE 62.2-2010 requirements including, but not limited to, requirements in Items 1.2-1.5. <sup>7</sup>	<input type="checkbox"/>	<input type="checkbox"/>	-
1.2 Ventilation system does not utilize an intake duct to the return side of the HVAC system unless the system is designed to operate intermittently and automatically based on a timer and to restrict outdoor air intake when not in use (e.g., motorized damper).	<input type="checkbox"/>	<input type="checkbox"/>	-
1.3 Documentation is attached with ventilation system type, location, design rate, and frequency and duration of each ventilation cycle.	<input type="checkbox"/>	<input type="checkbox"/>	-
1.4 If present, continuously-operating vent. & exhaust fans designed to operate during all occupiable hours.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ENERGY STAR Certified Homes, Version 3 (Rev. 07) HVAC System Quality Installation Rater Checklist <sup>1</sup>		
Home Address: _____		City: _____	State: _____
1. Review of HVAC System Quality Installation Contractor Checklist <sup>2</sup>		<b>Must Correct</b>	<b>Rater Verified</b>
1.1 HVAC System Quality Installation Contractor Checklist completed in its entirety and collected for records, along with documentation on ventilation system (1.3), full load calculations (2.18), and AHRI certificate (3.13).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2 Review the following parameters related to system cooling design, selection, and installation from the HVAC Contractor Checklist (Contractor Checklist Item # indicated in parenthesis): <sup>3</sup>			
1.2.1 Outdoor design temperatures (2.4) are equal to the 1% and 99% ACCA Manual J design temperatures for contractor-designated design location <sup>4</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2.2 Home orientation (2.5) matches orientation of rated home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2.3 Number of occupants (2.6) equals number of occupants in rated home <sup>5</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2.4 Conditioned floor area (2.7) is within ±10% of conditioned floor area of rated home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2.5 Window area (2.8) is within ±10% of calculated window area of rated home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Reference Materials



## Consortium for Energy Efficiency: Efficient Installation and Maintenance Practices for Residential HVAC Systems

### **Specification of Energy-Efficient Installation and Maintenance Practices for Residential HVAC Systems**

**White Paper**

**Consortium for Energy Efficiency  
One State Street, Suite 1400  
Boston, MA 02109-3507**

**Rick Karg  
R.J. Karg Associates  
John Krigger  
Saturn Resource Management  
July 2000**

[ftp://66.195.117.239/public/Tech\\_Service/2008%20Airon%20Supply%20Service%20Update/Whitepapers/energy%20white%20paper.pdf](ftp://66.195.117.239/public/Tech_Service/2008%20Airon%20Supply%20Service%20Update/Whitepapers/energy%20white%20paper.pdf)



# Reference Materials



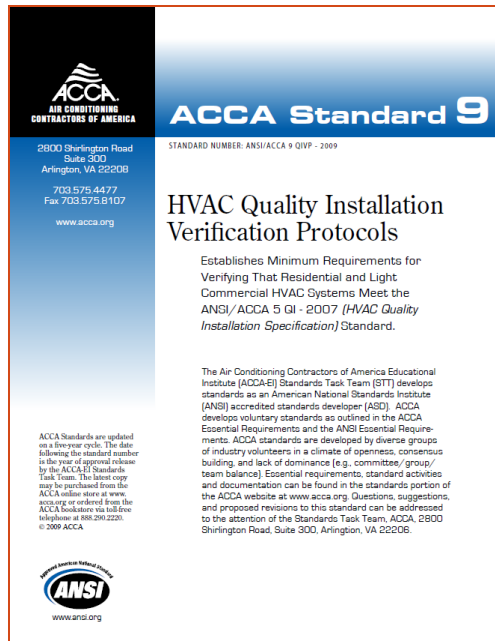
## ACCA Standard 9 HVAC Quality Installation Verification Protocols

<http://www.acca.org>

## ASHRAE 152

## Method of Test for Determining the Design and Seasonal Efficiencies of Residential Thermal Distribution Systems

<http://www.techstreet.com/publishers/33>



**ACCA**  
AIR CONDITIONING  
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**ACCA Standard 9**

STANDARD NUMBER: ANSI/ACCA 9 QVP - 2009

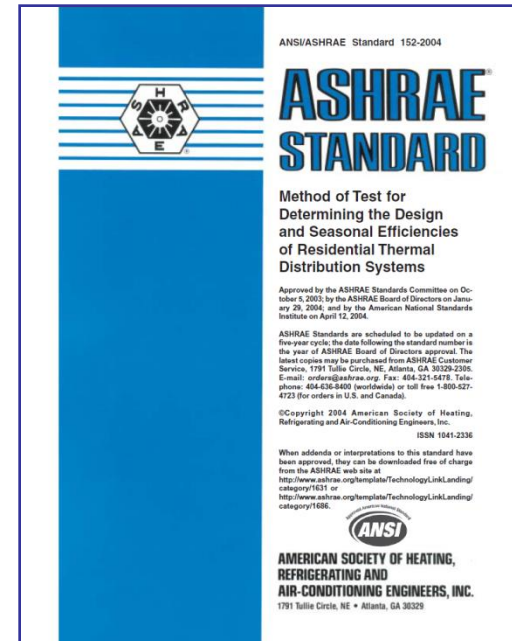
**HVAC Quality Installation  
Verification Protocols**

Establishes Minimum Requirements for  
Verifying That Residential and Light  
Commercial HVAC Systems Meet the  
ANSI/ACCA 5 QI - 2007 (*HVAC Quality  
Installation Specification*) Standard.

The Air Conditioning Contractors of America Educational  
Institute (ACCA-EI) Standards Task Team (STT) develops  
standards as an American National Standards Institute  
(ANSI) accredited standards developer (ASD). ACCA  
develops voluntary standards as outlined in the ACCA  
Essential Requirements and the ANSI Essential Require-  
ments. ACCA standards are developed by diverse groups  
of industry volunteers in a climate of openness, consensus  
building, and lack of dominance [e.g., committee/group/  
team balance]. Essential requirements, standard activities  
and documentation can be found in the standards portion of  
the ACCA website at [www.acca.org](http://www.acca.org). Questions, suggestions,  
and proposed revisions to this standard can be addressed  
to the attention of the Standards Task Team, ACCA, 2800  
Shirlington Road, Suite 300, Arlington, VA 22208.

ACCA Standards are updated  
on a five-year cycle. The date  
following the standard number  
is the year of approval release  
by the ACCA-EI Standards  
Task Team. The latest copy  
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INSTITUTE  
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ANSI/ASHRAE Standard 152-2004

**ASHRAE  
STANDARD**

**Method of Test for  
Determining the Design  
and Seasonal Efficiencies of  
Residential Thermal  
Distribution Systems**

Approved by the ASHRAE Standards Committee on Oc-  
tober 5, 2003; by the ASHRAE Board of Directors on Janu-  
ary 29, 2004; and by the American National Standards  
Institute on April 12, 2004.

ASHRAE Standards are scheduled to be updated on a  
five-year cycle; the date following the standard number is  
the year of ASHRAE Board of Directors approval. The  
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category/1631 or  
<http://www.ashrae.org/template/TechnologyLinkLanding/>  
category/1606.

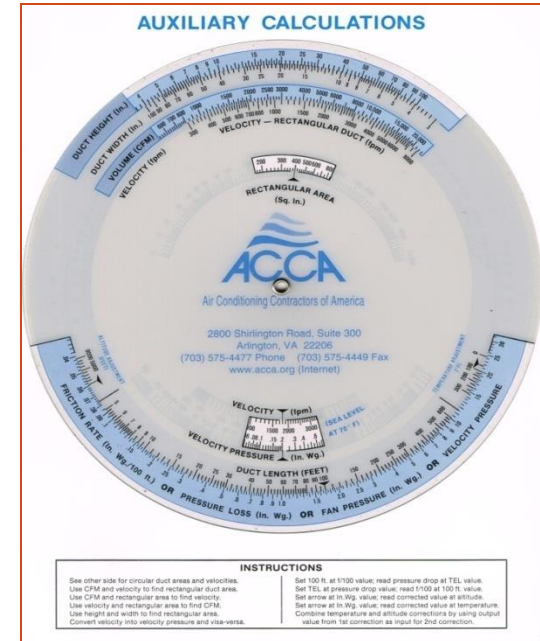
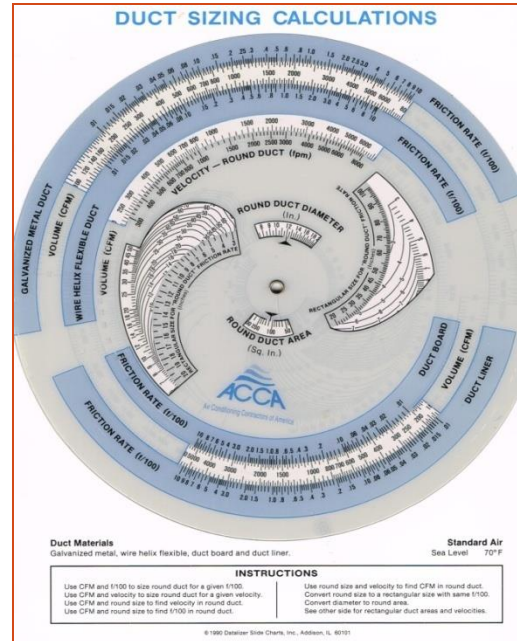
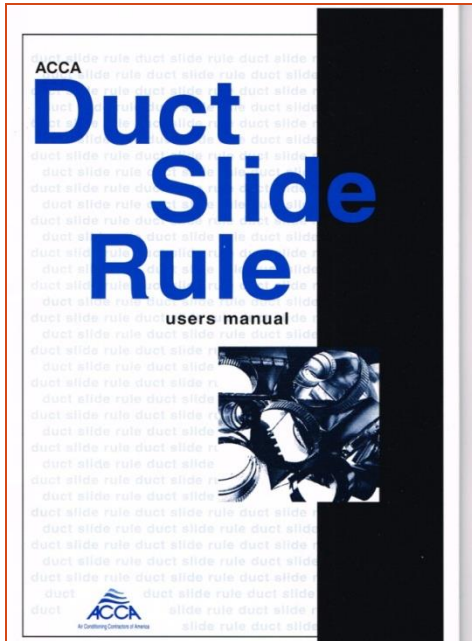
**ANSI**  
**AMERICAN SOCIETY OF HEATING,  
REFRIGERATING AND  
AIR-CONDITIONING ENGINEERS, INC.**  
1791 Tullie Circle, NE • Atlanta, GA 30329



# Reference Materials



## ACCA Duct Slide Rule



<http://www.techstreet.com/publishers/33>



# Regarding Prep. & Review Courses



- **Any** educational programs will help support your overall knowledge base, thus helping you prepare for an exam.
- Candidates should not expect a course to “teach to the exam” and tell you how to answer questions on the exam.
- Each candidate’s study plan should be as unique as that candidate’s own experiences.
- To locate a RESNET Training Organization:
  - [http://www.resnet.us/professional/programs/training\\_providers](http://www.resnet.us/professional/programs/training_providers)
- To locate NATE Recognized Training Providers:
  - [http://www.natetesting.com/natex/ceu\\_courses\\_search.asp](http://www.natetesting.com/natex/ceu_courses_search.asp)





# Taking the Test



- Contact the nearest RESNET Training Organization
  - [http://www.resnet.us/professional/programs/training\\_providers](http://www.resnet.us/professional/programs/training_providers)

# Questions



# NATE Program Information

- For more information: [www.natex.org](http://www.natex.org)
- Please call with any questions at 1-877-420-6283



# RESNET Program Information

- For more information: [www.resnet.us](http://www.resnet.us)
- Please call with any questions at: 770-529-3630

