



# AIR CONDITIONING TECHNOLOGY

## Library Resources

January 2012

# **AIR CONDITIONING TECHNOLOGY LIBRARY RESOURCES**

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**AIR CONDITIONING TECHNOLOGY**  
**CGTC Library Resources**  
**January 2012**

**Print Books:**

Air Conditioning Systems : Principles, Equipment, and Service / J. Moravek.  
TH 7687 .A4833 2001

Air Conditioning the Cool and E-Z Way / C. Gavel.  
TH 7687 .G85 2001

ASHRAE Guide for Buildings in Hot and Humid Climates / L. Harriman.  
TH 7687 .A785 2009

ASHRAE Handbook : Fundamentals.  
TH 7201 .A82 2009

ASHRAE Handbook : Heating, Ventilating, and Air Conditioning Applications.  
TH 7005 .A82 2011

ASHRAE Handbook : Heating, Ventilating, and Air Conditioning Systems & Equipment.  
TH 7005 .A825 2000

ASHRAE Handbook : Refrigeration.  
TP 490 .A75 2010

ASHRAE Standard : Methods of Testing for Rating Heat-Operated Unitary Air  
Conditioning and Heat-Pump Equipment.  
TH 7005 .A74 2002

Basic Refrigeration & Charging Procedures / J. Tomczyk.  
TP 492 .T67 2003

Basic Refrigeration : Principles, Practice, Operation : A Simplified Presentation of the  
Fundamentals of Refrigeration. / G. King.  
TP 492 .K5 1986

Blueprints and Plans for HVAC / F. Miller.  
TH 7345 .M558 2008

Challenge of Recycling Refrigerants / K. Manz.  
TP 492.7 .M343 1995

Code Check HVAC : A Field Guide to Heating and Cooling / R. Kardon.  
TH 7466.5 .K38 2002

Commercial Load Calculation : Manual N, 5th ed. / ACCA.  
TH 7688 .C64 R88 2009

Commercial Refrigeration for Air Conditioning Technicians, 2nd ed. / D. Wirz.  
TP 496 .W57 2010

Control Systems for Heating, Ventilating, and Air Conditioning / R. Haines.  
TH 7466.5 .H34 2003

Dampers and Airflow Control / L. Felker.  
TH 7683 .L7 F45 2009

Doolin's Trouble Shooters Bible : Air Conditioning, Refrigeration, Heat Pumps, Heating.  
TH 7687.7 .D66 1989

Electrical Code Reference, 2nd ed. / D. Sandefur.  
TK 260 .S53 2012

Electricity and Controls for HVAC/R / S. Herman.  
TK 4035 .A35 H47 2006

Electricity, Electronics, and Control Systems for HVAC / T. Kissell.  
TK 4035 .A35 K568 2008

Electricity for Air Conditioning and Refrigeration Technicians / E. Mahoney.  
TK 4035 .A35 M33 2000

Electricity for Refrigeration, Heating, and Air Conditioning / R. Smith.  
TK 153 .S57 2003

Electronic HVAC Controls Simplified / S. Aglow.  
TH 7226 .A34 1988

EPA Certification Exam Preparatory Manual : For Air Conditioning & Refrigeration Technicians / ESCO Institute.  
TH 7687.5 .E6 2000

Faber and Kell's Heating and Air Conditioning of Buildings / D. Oughton.  
TH 7222 .O44 2002

Fine Tuning Air Conditioning Systems and Heat Pumps / L. Miles.  
TH 7687.7 .M55 1995

Fine Tuning Air Conditioning and Refrigeration Systems / B. Langley.  
TH 7687.7 .L372 2002

First Century of Air Conditioning / H. Will.  
TH 7215 .F78 1999

Four R's : Recovery, Recycling, Reclaiming, Regulation / R. Jazwin.  
TD 887.F67 J38 1992

Fundamentals of Air Conditioning Systems / B. Langley.  
TH 7687.7 .L373 2000

Fundamentals of Natural Gas Cooling / R. Sweetser.  
TP 492.7 .S87 1996

Guide to Natural Gas Cooling / American Gas Association.  
TH 7687.85 .A44 1994

Guide to the HVAC/R Certification and Competency Tests / R. Featherstone.  
TH 7015 .F43 2001

Guide to the NATE/ICE Certification Exams, 3rd ed. / R. Featherstone.  
TH 7015 .F43 2010

Handbook of Air Conditioning and Refrigeration / S. Wang.  
TH 7687 .W27 2000

Handbook of Heating, Ventilation, and Air Conditioning / J. Kreider.  
TH 7225 .K74 2001

Handbook of HVAC Design / N. Grimm.  
TH 7011 .H36 1990

Heat & Cold : Mastering the Great Indoors / B. Donaldson.  
TH 7215 .D66 1994

Heat Pump Systems : Principles and Applications : Manual H / H. Rutkowski & ACCA.  
TJ 262 .R88 1984

Heat Pump Technology / B. Langley.  
TJ 262 .L36 2002

Heat Pumps : Theory and Service / L. Miles.  
TH 7638 .M55 1994

Heat Pumps : HVACR 401 / E. Silberstein.  
TH 7638 .S562 2012

Heating and Air Conditioning / A. Carson.  
TH 7222 .C37 2000

Heating and Cooling / by the editors of Time-Life Books.  
TH 7224 .H43 1995

Heating and Cooling Essentials / J. Killinger.  
TH 7012 .K55 2003

Heating Handbook / C. Powers.  
TH 7225 .P63 1999

Heating Technology : Principles, Equipment, and Application / D. Swenson.  
TH 7222 .S94 1983

Heating, Ventilating, and Air Conditioning : Analysis and Design / F. McQuiston.  
TH 7222 .M38 1988

Heating, Ventilating, and Air Conditioning Fundamentals / R. Havrella.  
TH 7223 .H37 1995

How to Design Heating-Cooling Comfort Systems / J. Olivieri.  
TH 7222 .O4 1987

How to Solve Your Refrigeration and Air Conditioning Service Problems / C. Geist.  
TP 492.7 .G37 1986

HPAC&V Contractor's Reference Book and License Review / J. Gladstone.  
TH 7222 .G53 1991

Humidity Control : A Humidification Guide for Residential, Commercial, and Industrial Applications / I. Stepnich.  
TH 7687.8 .S74 1988

HVAC Code Reference / American Contractor's Exam Services.  
TH 7225 .H82 2011

HVAC Control Systems / R. Auvil.  
TH 7466.5 .A88 2007

HVAC Engineer's Handbook / F. Porges.  
TH 7225 .P584 2001

HVAC : Equations, Data, and Rules of Thumb / A. Bell.  
TH 7225 .B45 2000

HVAC Field Guide to Heating and Cooling (Code Check) / R. Kardon.  
TH 7466.5 .K38 2002

HVAC Fundamentals, 2007 ed. / S. Sugerman.  
TH 7345 .S795 2007

HVAC : Handbook of Heating, Ventilation and Air Conditioning for Design and Implementation / A. Vedavarz.  
TH 7011 .V46 2007

HVAC Heating, Ventilating, and Air Conditioning, 2004 ed. / S. Swensen.  
TH 7012 .S94 2004

HVAC Instant Answers / P. Curtiss.  
TH 7011 .C87 2002

HVAC Licensing Exam Study Guide / R. Miller.  
TH 7015 .M55 2007

HVAC Retrofits : Energy Savings Made Easy / H. Wendes.  
TH 7335 .W46 1994

HVAC Systems and Components Handbook / N. Grimm.  
Ref TH 7011 .H83 1998

HVAC Systems Design Handbook, 5th ed. / R. Haines.  
TH 7345 .H35 2010

HVAC Systems Evaluation : Comparing Systems, Solving Problems, Efficiency & Maintenance / H. Colen.  
TH 7015 .C65 1990

HVAC Systems : Operation, Maintenance, & Optimization / S. Monger  
TH 7015 .M65 1992

HVAC Technician Certification Exam Guide, 2nd ed. / N. Christopherson.  
TH 7015 .C545 2009

HVAC Trainee Guides : Level One, Two, Three and Four, 3rd ed. / NCCER.  
TH 7012 .H83 2008 [4 vol.]

HVAC Troubleshooting Guide / R. Miller.  
TH 7012 .M528 2009

HVAC/R 101 / Air Conditioning Contractors of America.  
TP 490 .M66 2009

HVAC/R Professional's Field Guide to Heat Pump Systems & Service / R. Jazwin.  
TH 7638 .J39 1990

HVAC/R Professional's Field Guide to Medium and High Efficiency Gas Furnaces /  
TH 7466.G3 J38 2003

HVAC/R Terminology : A Quick Reference Guide / R. Wirtz.  
TH 7007 .W57 2006

Hydronic System Design and Operation : A Guide to Heating and Cooling with Water /  
E. Hansen.  
TH 7467 .H36 1985

Hydronics Technology / J. Duncan.  
TH 7467 .D86 1995

Hydronics : The Art of Cooling and Heating with Water / G. Clark.  
TH 7687 .C53 1986

Industrial Refrigeration / W. Stoecker.  
TP 492 .S788 1988

Insulation Handbook / R. Bynum.  
TH 1715 .B96 2001

Journeyman General Mechanical Examination : An Illustrated Review with Questions  
and Answers / by J. Gladstone.  
TJ 151 .G53 1988

Licensed Operator's Key to Refrigeration / W. Cooper.  
TP 492 .C68

Managing People in the HVAC/R Industry / H. McKew.  
HD 9683 .A2 M35 1995

Mechanical Cost Data / RS Means.  
TH 435 .M435 2003

Mechanical Estimating Guidebook.  
TH 7687.5 .G556 1995

Mechanical Estimating Guidebook for Building Construction / J. Gladstone.  
TH 7687 .G55 1987

Modern Refrigeration and Air Conditioning / A. Althouse.  
TP 492 .A43 2000

Modern Soldering & Brazing Techniques / E. Lieberman.  
TT 267 .L54 1988

National Plumbing & HVAC Estimator / J. Thomson.  
TH 6235 .N38 2011

Practical Drafting for the HVAC Trades / J. Traister.  
TH 7331 .T7 1984

Practical Problems in Mathematics for Heating and Cooling Technicians / R.DeVore.  
TH 7226 .D48 2009

Principles and Applications of Direct Digital Controls : Understanding and Implementing  
DDC Technology in Refrigeration Applications / I. Stepnich.  
TP 492.7 .S78 1989

Principles of Air Conditioning / P. Lang.  
TH 7687 .L29 1995

Principles of Refrigeration / C. Olivo.  
TP 492 .O55 1990

Radiant Heating and Cooling Handbook / R. Watson.  
TJ 260 .W335 2002

Refrigerant Management : The Recovery, Recycling, & Reclaiming of CFC's / B.  
Langley.  
TD 887.C47 L36 1994

Refrigerant Transition and Recovery Certification : Program Manual for HVAC/R  
Technicians / Delta-T Solutions, Inc.  
TP 492.7 D58 2001

Refrigeration and air-conditioning / G. Hundy.  
TP 492 .T75 2008

Refrigeration and Air Conditioning : An Introduction to HVAC/R / L. Jeffus.  
TP 492 .R377 2004

Refrigeration and Air Conditioning Technology / B. Whitman.  
TP 492 .W6 2009

Refrigeration Fundamentals : A Workbook Approach / W. Gorman.  
TP 492 .G66 1991

Refrigeration, Home and Commercial / E. Anderson.  
TP 492 .A583 1990

Refrigeration Licenses Unlimited / C. Carrico.  
TP 492 .C35 1992

Refrigeration Principles and Systems : An Energy Approach / E. Pita.  
TP 492 .P48 1991

Residential Duct Systems : Manual D, 3rd ed. / Air Conditioning Contractors of America.  
TH 7683 .D8 R47 2009

Residential Load Calculation : Manual J, 8th ed. / Air Conditioning Contractors of America.  
TH 7688 .H6 R88 2006

Service Agreement Dynamics : How to Design, Price, and Successfully Implement HVAC/R Service Agreement Programs / S. Howard.  
HD 9683 .A2 H68 1989

Servicing Commercial Refrigeration Systems / R. Schneider.  
TP 492.7 .S36 1991

Starting in Heating and Air Conditioning Service / C. Carrico.  
TH 7012 .S73 1992

Three Thousand Questions & Answers for HVAC/R Licensing Examinations /  
TH 7015 .D86 1989

Ventilation of Buildings / H. Awbi.  
TH 7653 .A92 2003

**AIR CONDITIONING TECHNOLOGY**  
**CGTC Library Resources**  
**January 2012**

**Print Magazine Subscriptions:**

**[Air Conditioning, Heating, & Refrigeration News](#)**

ISSN 0002-2276

**[HPAC Engineering : Heating, Piping & Air Conditioning](#)**

ISSN 1527-4055

**[Southern PHC Magazine \(Plumbing, Heating & Cooling\)](#)**

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**Video/DVD Resources:**

**Bergwall Series:**

Basic Air Conditioning : Introduction to Fundamentals  
Basic Air Conditioning : Cooling Equipment Operations  
Basic Air Conditioning : Electrical Controls  
Basic Air Conditioning : Troubleshooting

**Carrier Corporation : Air Conditioning Fundamentals Series (GTAC-1):**

GTAC1-1 Introduction to Air Conditioning  
GTAC1-2 Temperature / Pressure  
GTAC1-3 The Refrigeration Cycle  
GTAC1-4 Systems  
GTAC1-5 Compressors  
GTAC1-6 Condensers  
GTAC1-7 Evaporators  
GTAC1-8 Metering Devices  
GTAC1-9 Electrical & Refrigerant Controls  
GTAC1-10 Accessories

**Carrier Corporation : Air Conditioning Advanced Series (GTAC-2):**

GTAC2-1A Refrigerant Characteristics  
GTAC2-2A Refrigerants Oils  
GTAC2-3 Refrigerant Piping  
GTAC2-4 System Dehydration  
GTAC2-5A Charging, Recovery, Recycling and Reclamation  
GTAC2-6 Installation Procedures  
GTAC2-7 Heat Pumps  
GTAC2-8 Part Load  
GTAC2-9 Troubleshooting

**Carrier Corporation : Electricity Fundamentals Series (GTE2):**

GTE2-1 Introduction to Electricity  
GTE2-2 Electrical Components and Their Symbols  
GTE2-3 Wiring Diagrams  
GTE2-4 Wiring Diagram Exercises

GTE2-5 Electric Meters and Their Uses  
GTE2-6 Alternating Current Fundamentals  
GTE2-7 Motor Fundamentals and Motor Protection  
GTE2-8 Electronic Devices and Circuits  
GTE2-9A Electrical Troubleshooting

**Carrier Corporation : Skills Training Series (SK):**

SK1-02 Metering Devices  
SK2-02 Add-On Air Conditioning Installation  
SK3-02 Gas Furnace Replacement  
SK4-02 Advanced Troubleshooting  
SK5-02 Electrical Test Instruments  
SK6-02 Air Conditioning Tune-Up  
SK14-02 Electrical Troubleshooting  
SK15-02 Residential Condensing Unit Replacement  
SK16-02 Hermetic Compressor Replacement  
SK17-02 Brazing  
SK18-02 Evacuation and Charging  
SK19-02 Air Measurement

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**Full Text Journals Online via [GALILEO](#):**

<u>Journal Title</u>	<u>GALILEO Database</u>
<a href="#">Air Conditioning, Heating, &amp; Refrigeration News</a> ISSN 0002-2276	EBSCOhost Business Source ProQuest Career & Technical
<a href="#">ASHRAE Journal</a> ISSN 0001-2491	EBSCOhost Academic Search Premier
<a href="#">Contracting Business (HVACR systems)</a> ISSN 0279-4071	ProQuest Career & Technical
<a href="#">HPAC Engineering : Heating, Piping &amp; Air Conditioning</a> ISSN 1527-4055	ProQuest Career & Tech
<a href="#">Heating-Plumbing, Air Conditioning</a> ISSN 0017-9418	ProQuest ABI/Inform Complete
<a href="#">HVAC &amp; R Research</a> ISSN 1078-9669	ProQuest Career & Technical
<a href="#">Plumbing and Mechanical</a> ISSN 8750-6041	ProQuest Career & Technical
<a href="#">Process Cooling and Equipment</a> ISSN 1525-9498	EBSCOhost Business Source Premier
<a href="#">Reeves Journal (Plumbing Heating Cooling)</a> ISSN 0048-7066	EBSCOhost Business Source Premier ProQuest ABI/Inform Complete

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**[Electronic Books \(eBooks from EBSCOhost\):](#)**

Air Conditioning and Refrigeration / R. Miller.  
McGraw-Hill Professional. 2006.

Audel HVAC Fundamentals / J. Brumbaugh.  
John Wiley & Sons, Inc. (US), 2004.

Building Ventilation : The State of the Art / M. Santamouris.  
Earthscan Ltd. 2006.

Careers in Plumbing, Heating, and Cooling / E. Lytle.  
Rosen Publishing Group, 1995.

Chemical Treatment for Cooling Water / A. Mathie.  
Fairmont Press, 1998.

Combined Heating, Cooling & Power Handbook : Technologies & Applications : an  
Integrated Approach to Energy Resource Optimization / N. Petchers.  
Fairmont Press, 2003.

Damp Indoor Spaces and Health /  
National Academies Press, 2004.

Electrical Applications for Air Conditioning & Refrigeration Systems / B. Langley.  
Fairmont Press, 2000.

Electrician's Instant Answers / D. Tuck.  
McGraw-Hill Professional, 2003.

Evaporative Air Conditioning : Applications for Environmentally Friendly Cooling / Bom.  
World Bank, 1999.

Geothermal HVAC : Green Heating and Cooling / B. Howard.  
McGraw-Hill Professional. 2011

Guide to Energy Management / B. Capehart.  
Fairmont Press, 2002.

HVAC Fundamentals / S. Sugarman.  
Fairmont Press, 2004.

HVAC Inspection Notes : Inspecting Commercial, Industrial, and Residential Construction / G. Taylor.  
McGraw-Hill Professional, 2005.

HVAC Instant Answers / P. Curtiss.  
McGraw-Hill Professional, 2002.

Indoor Air Quality : Guide for Facility Managers / E. Bas.  
Fairmont Press, 2004.

Indoor Environment Handbook : How to Make Buildings Healthy and Comfortable / P. Bluysen.  
Earthscan Ltd. 2009.

Integrated Buildings : The Systems Basis of Architecture / L. Bachman.  
John Wiley & Sons, Inc. (US), 2003.

Managing Indoor Air Quality / H. Burroughs.  
Fairmont Press, 2004.

My House Is Killing Me! : The Home Guide for Families With Allergies and Asthma /  
Johns Hopkins University Press, 2001.

Practical Controls : A Guide to Mechanical Systems / S. Calabrese.  
Fairmont Press, 2003.

Refrigeration: Home and Commercial / R. Miller.  
John Wiley & Sons, Inc. (US), 2004.

Smart Materials and New Technologies : For the Architecture and Design Professions /  
M. Addington.  
Elsevier, 2005.

Testing and Balancing HVAC Air and Water Systems / S. Sugarman.  
Fairmont Press, 2006.


Ventilation and Airflow in Buildings : Methods for Diagnosis and Evaluation / C. Roulet.  
Earthscan Ltd. 2008.

Ventilation for Control of the Work Environment / W. Burgess.  
John Wiley & Sons, Inc. (US), 2004.

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[Online Videos via FILMS ON DEMAND:](#)

To access FILMS ON DEMAND from the Macon, Milledgeville, Crawford, Monroe or Putnam campus/centers:

1. Go the CGTC Library Services website: [www.centralgatech.edu/library](http://www.centralgatech.edu/library)
2. Select the FILMS ON DEMAND graphic 
3. Select "Technical Education" from the left navigation column
4. Select "Heating, Ventilating, Air Conditioning" (under "Building & Technical Trades")
5. "Heating, Ventilating, Air Conditioning" has 8 videos, the first three listed are:
  - Residential Air Conditioning (21 minutes)
  - Residential Heating and Ventilation (24 minutes)
  - HVAC (Career Overview) (15 minutes)
  - also see "Electrical Wiring" (under "Building & Technical Trades")

Off-Campus Users will be prompted for a GALILEO password after step "2." above.  
To obtain the GALILEO Password:

1. Login to accessCGTC (<https://accesscgtc.centralgatech.edu>)
2. Select the "Learning & Library" tab
3. Look in the right column for the "GALILEO Password" window

\*Alternate, direct access to FILMS ON DEMAND from Off-Campus:

1. Go to: <http://digital.films.com>
2. Enter the following "User ID/Email" and "Password" info (in all lowercase letters) and then click the Login button:
  - **User ID/Email:** cgtc
  - **Password:** library

**AIR CONDITIONING TECHNOLOGY**  
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**Air Conditioning & HVAC Web Sites:**

Air Conditioning, Heating, and Refrigeration Institute (AHRI)  
[www.ahrinet.org](http://www.ahrinet.org)

Air Conditioning Contractors of America  
[www.acca.org](http://www.acca.org)

Air Infiltration and Ventilation Centre (AIVC)  
[www.aivc.org](http://www.aivc.org)

Air Movement & Control Association  
[www.amca.org](http://www.amca.org)

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)  
[www.ashrae.org](http://www.ashrae.org)

The Buildings Technology Program (U.S. Department of Energy )  
[www.eere.energy.gov/buildings](http://www.eere.energy.gov/buildings)

Cool Careers - Hot Jobs (HVACR industry career links)  
[www.coolcareers.org](http://www.coolcareers.org)

Efficiency Technologies (EffTec) (Includes online HVAC Terms Dictionary)  
[www.efftec.com](http://www.efftec.com)

Home Ventilating Institute  
[www.hvi.org](http://www.hvi.org)

HVACMall.com  
[www.hvacmall.com](http://www.hvacmall.com)

HVACNews.com  
<http://hvacnews.com>

IEA Heat Pump Centre  
[www.heatpumpcentre.org](http://www.heatpumpcentre.org)

Indoor Air Quality Association  
[www.iaqa.org](http://www.iaqa.org)

North American Technician Excellence, Inc. (NATE) – HVACR Certification  
[www.natex.org](http://www.natex.org)

Plumbing-Heating-Cooling Contractors Association  
[www.phccweb.org](http://www.phccweb.org)

Refrigeration Service Engineers Society (RSES) – HVACR Training  
[www.rses.org](http://www.rses.org)

Underwriter' Laboratories – HVAC/R Section  
[www.ul.com/hvacr](http://www.ul.com/hvacr)

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**Full Text Databases Online via GALILEO:**

Part of the Database Offerings in [GALILEO](#), Georgia's Virtual Library

**EBSCOhost full-text journal databases:**

[Academic Search Complete](#)  
[Advanced Placement Source](#)  
[Business Source Complete](#)  
[MasterFILE Premier](#)  
[Science and Technology Collection](#)  
[Vocational and Career Collection](#)

**ProQuest full-text journal databases:**

[ABI/Inform Complete \(American Business Index\)](#)  
[Career & Technical Education](#)  
[Research Library](#)

**Westlaw Campus Research business and legal database**

FOR ASSISTANCE accessing any online database, eBook, online journal, or other resource please contact the CGTC Library at: [library@centralgatech.edu](mailto:library@centralgatech.edu).

The CGTC Student Library Handbook provides an overview and step-by-step instruction for the EBSCOhost, ProQuest, and eBook databases at:  
[www.centralgatech.edu/library/student\\_library\\_handbook.pdf](http://www.centralgatech.edu/library/student_library_handbook.pdf)