



ASHRAE ACRONYMS

A2L	Mildly flammable, low global warming potential refrigerant
A2LA	American Association for Laboratory Accreditation
AAAS	American Association for the Advancement of Science
AABC	Associated Air Balance Council
AACE	American Association of Cost Engineers
AAES	American Association of Engineering Societies
AAF	Argentina Association of Refrigeration
AASA	ASHRAE Associate Society Alliance
ABBE	Advisory Board on Built Environment
ABET	Accreditation Board for Engineering and Technology
ABMA	American Boiler Manufacturers Association
ABOK	Russian Association of Heating, Air-Conditioning and Ventilation
ABRAVA	Brazilian Association of Refrigeration, Air-Conditioning, Ventilating and Water Treatment
AC	air conditioning
ACAIRE	Colombian Association of Air-Conditioning & Refrigeration
ACCA	Air Conditioning Contractors of America
ACEC	American Consulting Engineering Companies
ACGIH	American Conference of Governmental and Industrial Hygienists
ACI	American Concrete Institute
ACS	American Chemical Society
ACTECIR	Catalan Association of Technicians in Energy, Air-Conditioning, and Refrigeration
ADI	Air Distributing Institute
AEDG	Advanced Energy Design Guide
AEE	Association of Energy Engineers
AEIC	Association of Edison Illuminating Companies
AFCR	Romanian Association for Heating, Refrigerating and Air-Conditioning
AFFI	American Frozen Food Institute
AGA	American Gas Association
AGCA	Associated General Contractors of America
AHA	American Hospital Association
AHAM	Association of Home Appliance Manufacturers
LATVAC	Association of Heat, Gas & Water Technology Engineers of Latvia
AHMA	American Hotel-Motel Association
AHR EXPO	International Air Conditioning Heating, Refrigerating Exposition
AHRI	Air-Conditioning, Heating and Refrigeration Institute
AI	Action item
AIA	American Institute of Architects
AIAH	American Industrial Hygiene Association



AICARR	Italian Association of Air-Conditioning, Heating and Refrigeration
AICHe	American Institute of Chemical Engineers
AICVF	French Association of Heating & Ventilation Engineers
AID	Airborne Infectious Disease
AIP	American Institute of Physics
AIPE	American Institute of Plant Engineers
AIRAH	Australian Institute of Refrigeration, Air-conditioning and Heating
AIVC	Air Infiltration and Ventilation Center
ALA	American Lighting Association
ALI	ASHRAE Learning Institute
AMCA	Air Movement and Control Association
AMERIC	Mexican Association of Companies in the Industry of Building Installations
AMORTS	Assistant Manager of Research and Technical Services
ANMC	American National Metric Council
ANS	American National Standards
ANS	American Nuclear Society
ANSI	American National Standards Institute
API	American Petroleum Institute
APPA	Association of Higher Education Facility Officers (formerly known as Association of Physical Plant Administrators)
ARC	Assistant Regional Chair
ARCFCP	The Alliance for Responsible CFC Policy
AREP	Alliance for Responsible Energy Policy
ARWI	Air-Conditioning and Refrigeration Wholesalers International
ASA	Acoustical Society of America
ASAE	American Society of Association Executives
ASBRAV	South Brazilian Association of Refrigeration, Air Conditioning, Heating and Ventilation
ASCE	American Society of Civil Engineers
ASEE	American Society for Engineering Education
ASES	American Solar Energy Society
ASHE	American Society for Healthcare Engineering
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASQC	American Society for Quality Control
ASSE	American Society of Safety Engineers
ASTE	American Society of Test Engineers
ASURVAC	Uruguay Association of Refrigeration, Ventilation, Air Conditioning and Heating
ATEAAR	Ecuadorian Technical Association of Conditioned Air and Refrigeration
ATECYR	Spanish Technical Association of Air Conditioning and Refrigeration
ATIC	Royal Association of Heating, Ventilation, Air Conditioning and Related Systems
AWMA	Air and Waste Management Association
AWWA	American Water Works Association

BACnet	Building Automation and Control Networks
BAR	Board-Approved Rules
BCA	Building Commissioning Association
BCA	Building and Construction Authority of Singapore
BCAP	Building Codes Assistance Project
BEPS	Building Energy Performance Standards
BLAST	Building Load Analysis and System Thermodynamics (computer program)
BNL	Brookhaven National Laboratory
BOCA	Building Officials and Code Administrators International, Inc.
BOD	Board of Directors
BOD/ExCom	Board of Directors/Executive Committee
BOG	Board of Governors
BOMA	Building Owners and Managers Association International
BSI	British Standards Institute
BSR	Board of Standards Review (part of ANSI)
BSRIA	Building Services Research and Information Association
BTECC	Building Thermal Envelope Coordinating Council
CABO	Council of American Building Officials
CAE	Certified Association Executive
CAMEE	Council of American Mechanical and Electrical Engineers
CAR	Chinese Association of Refrigeration
CARB	California Air Rescue Board
CARI	Council of Air Conditioning and Refrigeration Industry
CBE	Center for the Built Environment
CBT	Center for Building Technology (NIST)
CCHVAC	China Committee of Heating, Ventilating and Air Conditioning
CCI	Clinton Climate Initiative
CDC	Centers for Disease Control (HHS)
CEC	California Energy Commission
CEC	Conferences and Expositions Committee
CEN	Committee for European Normalization
CESSE	Council of Engineering and Scientific Society Executives
CFA	Consumer Federation of America
CFC	Chlorofluorocarbon(s)
CFR	Center for Fire Research (NIST)
CGA	Canadian Gas Association
CGBC	Canada Green Building Council
CIB	International Council for Building Research, Studies and Documentation
CIBSE	Chartered Institution of Building Services Engineers
CII	Confederation of Indian Industry
CIS	Code Interaction Subcommittee (of Standards Committee)
CMA	Chemical Manufacturers Association
CMEA	Cyprus Mechanical Engineers Association
CMES	Mexico Green Building Council



CNV	Chair Not Voting
CO	Coordinating Officer
CO2	Carbon Dioxide
Co-RP	Research project led by another nonprofit focused on the built environment and co-funded by ASHRAE
CPSC	Consumer Product Safety Commission
CRC	Chapters Regional Conference
CRMA	Commercial Refrigerator Manufacturers Association
CSA	Canadian Standards Association
CSB	Construction Standards Board, ANSI
CSI	Construction Specifications Institute
CSME	Canadian Society for Mechanical Engineering
CSO	Chief Staff Officer
CTI	Cooling Tower Institute
CTTC	Chapter Technology Transfer Committee
CV	Chair Voting
DAL	Director-at-Large
DANVAK	Danish Society of Heating, Ventilating and Air-Conditioning Engineers
DHW	Domestic Hot Water
DITAR	Cooling and Air Conditioning Technical Division (Chile)
DKV	German Association of Refrigeration and Air-Conditioning Engineers
DL	Distinguished Lecturers
DMG	Data Management Group
DOAS	Dedicated Outdoor Air System
DOE 2	A computer program for building energy analysis (from the U.S. Dept. of Energy)
DOT	Department of Transportation
DRC	Director and Regional Chair
DRSC	Document Review Sub-committee
DSA	Distinguished Service Award
ECB	Energy Cost Budget
ECC	Electronic Communications Committee
EI	Edison Electric Institute
EFRIARC	Portuguese Association of Refrigeration and Air-Conditioning
EH	Environmental Health Committee (also EHC)
EHC	Engineers Environmental Health Committee (also EHC)
EHS	Environmental Health and Safety
EIA	Energy Information Administration (DOE)
EIB	Emerging Issue Brief
EISA	Energy Independence and Security Act
EPA	U.S. Environmental Protection Agency
EPRI	Electric Power Research Institute
ESA	Exceptional Service Award
ESME	Egyptian Society of Mechanical Engineers

ESP	Energy Simulation Program
ETE	Scientific Society for Building - ETL Testing Laboratories
ETS	Environmental Tobacco Smoke
EUI	Energy Use Index
CECOMAF	Committee of Manufacturers of Refrigeration Equipment
EX	Ex-Officio
ExCom	Executive Committee (also Ex)
EXER	Energy Analysis for Sustainable Buildings
EX-O	Ex-Officio Member from the Board of Directors
ExSC	Executive Standards Council (of ANSI)
FACA	Federal Advisory Committee Act
FASHRAE	Fellow of ASHRAE
FGI	Facility Guidelines Institute
FI	Formaldehyde Institute
FINVAC	Finnish Association of Heating, Ventilating, and Air-Conditioning Societies
FMI	Food Marketing Institute
FMRC	Factory Mutual Research Corporation
FTC	Federal Trade Commission
FY	Fiscal Year
FYE	Fiscal Year Ending
GAMA	Gas Appliance Manufacturers Association
GAME	Greening ASHRAE Meetings and Expositions
GATT	General Agreement on Tariffs and Trade
GBA	Green Building Alliance
GBCB	Green Building Council Brazil
GBI	Green Building Initiative
GCCA	Global Cold Chain Alliance
GEMS	Generalized Engineering Modeling and Simulation
GIA	Grant-in-Aid
GMA	Grocery Manufacturers of America
GOST	USSR Standards Institute (Gosudarstvennyy Standard)
GPC	Guideline Project Committee
GRAS	Generally Recognized as Safe (FDA/HHS)
GRI	Gas Research Institute
GRMI	Global Refrigerant Management Initiative
GRP	Government Co-sponsored Research Project (archaic)
GSAE	Georgia Society of Association Executives
GSPE	Georgia Society of Professional Engineers
GWP	Global Warming Potential
HARDI	Heating, Air-Conditioning and Refrigeration Distributors International
HBDP	High-Performance Building Design Professional
HCFC	Hydro fluorocarbon
HFDP	Healthcare Facility Design Professional
HI	Hydronics Institute

HIS	Information Handling Services
HPAC	Heating/Piping/Air Conditioning (periodical)
HRAI	Heating, Refrigerating and Air-Conditioning Institute of Canada
HVAC&R	Heating, Ventilating, Air-conditioning and Refrigerating
HVI	Home Ventilating Institute
IACSC	International Association of Cold Storage Contractors
IAI	International Alliance for Interoperability
IAPMO	International Association of Plumbing and Mechanical Officials
IAQ	Indoor Air Quality
IAQA	Indoor Air Quality Association
IARW	International Association of Refrigeration Warehouses
ICBO	International Conference of Building Officials
ICC	International Code Council
ICHMT	International Centre for Heat and Mass Transfer
ICR	International Congress of Refrigeration
ICSP	Interagency Committee for Standardization Policy
ICVAC	Icelandic Heating, Ventilating and Sanitary Association (Associate society in Iceland)
IDEA	International District Energy Association
IEA-DHC	International District Heating and Cooling Association
IEC	International Electro technical Commission; International Exposition Company
IEEE	Institute of Electrical and Electronics Engineers
IEEE-SA	Electrical and Electronic Standards Board, ANSI
IEQ	Indoor Environmental Quality
IEQ-GA	Indoor Environmental Quality Global Alliance
IES	Illuminating Engineering Society
IFMA	International Facility Management Association
IGBC	Indian Green Building Council
IGR	Innovative Research Grant
IIAR	International Institute of Ammonia Refrigeration
IICRC	Institute Inspection of Cleaning and Restoration Certification
IIR	International Institute of Refrigeration
IISE	Institute of Industrial and Systems Engineers
ILM	International Liaison Member
IMACA	International Mobile Air Conditioning Association
IOR	Institute of Refrigeration (UK)
I-P	Inch-pound system of units
IRHACE	Institute of Refrigeration, Heating and Air-Conditioning Engineers of New Zealand, Inc.
ISA	Instrument Society of America
ISES	International Solar Energy Society
ISHRACE	Israel Society of Heating, Refrigeration & Air-Conditioning Engineers
ISHRAE	Indian Society of Heating, Refrigerating and Air-Conditioning Engineers
ISIAQ	International Society of Indoor Air Quality and Climate

ISO	International Organization for Standardization
ISO/DIS	ISO/Draft International Standards
ITCC	Interstate Truckload Carriers Conference
JAR	Japanese Association of Refrigeration
JARIA	Japanese Refrigeration and Air Conditioning Industry Association
JSRAE	Japan Society of Refrigeration and Air-Conditioning Engineers
KGH	Serbian Society of Heating, Ventilating, Air-Conditioning, and Refrigerating
KNVVK	Royal Dutch Association of Refrigeration
LAFI	The Icelandic Heating, Ventilating and Sanitary Association
LANL	Los Alamos National Laboratory
LBNL	Lawrence Berkeley National Laboratory
LEED	Leadership in Energy and Environmental Design
LITES	Lithuanian Thermo technical Engineers' Society
LIVI	Finnish Association of Civil Engineers
LMC	Life Members Club
MBO	Management by Objectives
MCAA	Mechanical Contractors Association of America
MCO	Manual for Chapter Operations
MHI	Manufactured Housing Institute
MIMA	Mineral Insulation Manufacturers Association
MMACS	Mobile Air Conditioning Society
MOP	Manual of Procedures
MOR	Manager of Research
MORP	Manual of Recommended Practice
MORTS	Manager of Research and Technical Services
MOS	Manager of Standards
MOT	Method of Test
MPAG	Manual for Processing ASHRAE Guidelines
MPAS	Manual for Processing ASHRAE Standards
MPS	Minimum Property Standards
MSCA	Mechanical Service Contractors of America
MTG	Multi-disciplinary Task Group
MTS	Manager of Technical Services
MVMA	Motor Vehicle Manufacturers Association of the United States
NAA	National Aeronautics Association
NAAB	National Architectural Accrediting Board
NAC	National Asbestos Council
NACE	National Association of Corrosion Engineers
NACME	National Action Council for Minorities in Engineering
NADCA	National Air Duct Cleaners Association
NAE	National Academy of Engineering of the United States of America
NAFA	National Air Filtration Association
NAHB	National Association of Home Builders of the United States
NAIMA	North American Insulation Manufacturers Association

NAM	National Association of Manufacturers
NAPHCC	National Association of Plumbing-Heating-Cooling Contractors
NAS	National Academy of Sciences
NATE	North American Technician Excellence, Inc.
NCEES	National Council of Examiners for Engineering and Surveying
NCI	National Cancer Institute
NCIAQ	National Coalition on Indoor Air Quality
NCMA	National Concrete Masonry Association
NCMA	National Contract Management Association
NCS/BCS	National Conference of States on Building Codes and Standards
NEBB	National Environmental Balancing Bureau
NEC	National Electrical Code
NEHA	National Environmental Health Association
NEMA	National Electrical Manufacturers Association
NFI	National Fisheries Institute
NFPA	National Fire Protection Association
NGWA	National Ground Water Association
NHAW	North American Heating and Air Conditioning Wholesalers Association
NIBS	National Institute of Building Sciences
NIEHS	National Institute of Environmental Health Science
NIH	National Institute of Health
NIOSH	National Institute of Occupational Safety and Health
NIST	National Institute of Standards and Technology
NOFR	Notice of Final Rulemaking
NOPR	Notice of Proposed Rulemaking
NORVAC	Norwegian Association of Heating Ventilating & Sanitary Engineers (also, NORSK VVS)
NPA	National Particleboard Association
NPP	National Program Plan (for Building Thermal Envelope Systems)
NRCA	National Roofing Contractors Association
NREL	National Renewable Energy Laboratory
NSAE	National Society of Architectural Engineers
NSPE	National Society of Professional Engineers
NTIS	National Technical Information Service
NVKL	Refrigeration Association of the Netherlands
NVM	Non-voting member
NWS	National Weather Service (NOAA, Commerce)
NZEB	Net zero energy building
ODS	Ozone Depleting Substances
OEA	Order of Engineers and Architects (Lebanon)
OEKKV	Austrian Air Conditioning and Refrigeration Society
ORNL	Oak Ridge National Laboratory
OSHA	Occupational Safety and Health Administration (U.S. Dept. of Labor)
OUS/C	Outside United States and Canada

PAC	Political Action Committee
PAGA	Procedures for ASHRAE Guidelines Actions
PAHRA	Partnership for Air Conditioning, Heating, Refrigeration Accreditation
PAOE	Presidential Award of Excellence
PASA	Procedures for ASHRAE Standards Actions Under the ANSI Organization Method Publishing Council
PCVM	Project Committee Voting Member
PD	Position Document
PDC	Professional Development Committee
PDS	Professional Development Seminars
PE	Professional Engineer (registered)
PEAC	President-Elect Advisory Committee
PEC	Publishing and Education Council
PERSI	Practice, Education, Research for Sustainable Infrastructure
PES	Project Evaluation Subcommittee
PDH	Professional Development Hours
PIE	Practicing Institute of Engineering
PINS	Project Initiation Notification System (of ANSI)
PL	Planning Committee (also PLC)
PM	Particulate Matter
PMS	Project Monitoring Subcommittee (for research projects)
PMSC	Project Monitoring Subcommittee Chairman
PNNL	Pacific Northwest National Laboratories (Battelle)
PO	Purchase Order
PPIS	Planning, Policy and Interpretations Subcommittee (of Standards Committee)
PRAHA	Promoting Low-GWP Alternatives for the High Ambient Countries
PRSP	Peer review scoring program
PSCV	Project Subcommittee Voting Member
PSVARE	Philippine Society of Ventilating, Air Conditioning & Refrigerating Engineers
PZITS	Polish Association of Sanitary Engineers and Technicians
RAC	Research Administration Committee
RAL	Region-at-Large
REHVA	Federation of European Heating and Air Conditioning Associations
RETA	Refrigerating Engineers and Technicians Association
RFP	Request for proposal
RMCR	Region Members Council Representative
ROB	Rules of the Board
RP	Research Project (contracted)
RP	Research Promotion Committee (or RP)
RPS	Research Planning Subcommittee (of Research Administration Committee)
RSES	Refrigeration Service Engineers Society
RTAR	Research Topic Acceptance Request
RVC	Regional Vice Chair
SAE	Society of Automotive Engineers

SAIRAC	South African Institute of Refrigeration and Air-Conditioning
SAREK	Society of Air Conditioning and Refrigerating Engineers of Korea
SBCCI	Southern Building Code Congress International
SCANVAC	Scandinavian Federation of Heating, Air Conditioning and Sanitary Engineering Associations
SDL	Self-Directed Learning courses
SEAP	Simplified Energy Analysis Procedure
SEE	Society of Environmental Engineers
SEIA	Solar Energy Industries Association
SEREF	Solar Energy Research and Education Foundation
SES	Standards Engineering Society
SFPE	Society of Fire Protection Engineers
SGPC	Standing Guideline Project Committee
SH	Section Head (of Research Administration Committee)
SHASE	Society of Heating, Air-Conditioning & Sanitary Engineers of Japan
SI	International System of Units (System international d'unités)
SITHOK	Slovenian Society of Refrigerating, Heating and Air-Conditioning Engineers
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SMWIA	Sheet Metal Workers International Association
SNC	Society Nominating Committee
SOEH	Society for Occupational and Environmental Health
SP	Special Project
SPC	Standard Project Committee
SPLS	Standards Project Liaison Subcommittee (of Standards Committee)
SPO	Strategic Plan Objective
SRC	Society Rules Committees
SRCC	Solar Rating and Certification Corporation (see SEIA)
SRS	Standards Reaffirmation Subcommittee (under Standards Committee)
SSPC	Standing Standard Project Committee
SSTP	Slovak Society of Environmental Technology
StdC	Standards Committee
StdC/ExCom	Standards Committee/Executive Committee
SVOC	Semi-Volatile Organic Compound
SWEDVAC	Swedish Society of Heating and Air-Conditioning Engineers
SWKI	Swiss Association of Heating and Air Conditioning Engineers
SY	Society Year
SYBUNT	Some Years, But Not This (Year), (fundraising term)
TAC	Technical Activities Committee
TAPPI	Technical Association of the Pulp and Paper Industry
TC	Technical Committee; Technology Council
TCA	Truckload Carriers Association
TEC	Technical Evaluation Committee
TECFRIO	Asociacion Nacional Capitulo Tecnico de ASOFRIO (Associate society of Venezuela)

TEE	Technical Chamber of Greece
TEGA	Technical, Energy and Government Activities Committee
TG	Task Group
TIMSA	Thermal Insulation Manufacturers and Suppliers Association
TISP	The Infrastructure Security Partnership
TPS	Title, Purpose, and Scope
TRACE	Trane Air Conditioning Economics (computer program for building energy consumption and life cost analysis)
TRG	Technical Resource Group
TRP	Tentative Research Project
TRRF	The Refrigeration Research Foundation
TTMD	Turkish Society of Heating, Ventilation Air Conditioning and Sanitary Engineers
TVVL	Dutch Society for Building Services
UBC	Uniform Building Code
UCA	Unvented Combustion Appliances
UFAD	Underfloor Air Distribution
UFFI	Urea-Formaldehyde Foam Insulation
UFFVA	United Fresh Fruit & Vegetable Association
UL	Underwriters Laboratories, Inc.
UNEP	United Nations Environmental Programme, Division of Technology, Industry and Economics
URP	Unsolicited Research Proposal
US/TAG	U.S. Technical Advisory Group (for ISO or IEC standards)
USACE	U.S. Army Corps of Engineers
USDOC	U. S. Department of Commerce
USDOD	U. S. Department of Defense
USDOE	U.S. Department of Energy
USGBC	United States Green Building Council
USGSA	U.S. General Services Administration
USHUD	U. S. Department of Housing and Urban Development
USMA	United States Metric Association
USN/CIE	U.S. National Committee of the International Commission on Illumination
USNC/CIB	U.S. National Committee for the International Council for Building Research, Studies and Documentation
USNC/IIR	U.S. National Committee for the International Institute of Refrigeration
USNC/WEC	U.S. National Committee of the World Energy Conference
USOFAC	U.S. Department of Treasury's Office of Foreign Assets Control
UV	Ultra Violet
UVGI	Ultra Violet Germicidal Irradiation
VC	Vice Chair
VDI	The Association of German Engineers
VRF	Variable Refrigerant Flow
WHO	World Health Organization
WS	Work Statement



WYEC	Weather Year for Energy Calculations
YEA	Young Engineers in ASHRAE