Ashrae/ acca standard 183 pdf free pdf free

6633390.7413793 5694976300 10208099.933333 13946010.513514 159352040.72727 27938369.934783 28778009.25 81405593200 52091022329 125690612.53333 43877517 45600454.416667 16265694.344828 16660656.791209 6338540.2105263 11072621.9 6897962180 46477763.451613 134743467582

constantly kept up-to-date with recent developments, not just by its own developers, but also by a very active Stata community.

This handbook follows the format of its two predecessors, *A Handbook of Statistical Analysis using S-PLUS* and *A Handbook of Statistical Analysis using SAS*. Each chapter deals with the analysis appropriate for a particular application. A brief account of the statistical background is included in each chapter including references to the literature, but the primary focus is on how to use Stata, and how to interpret results. Our hope is that this approach will provide a useful complement to the excellent but very extensive Stata manuals. The majority of the examples are drawn from areas in which the authors have most experience, but we hope that current and potential Stata users from outside these areas will have little trouble in identifying the relevance of the analyses described for their own data.

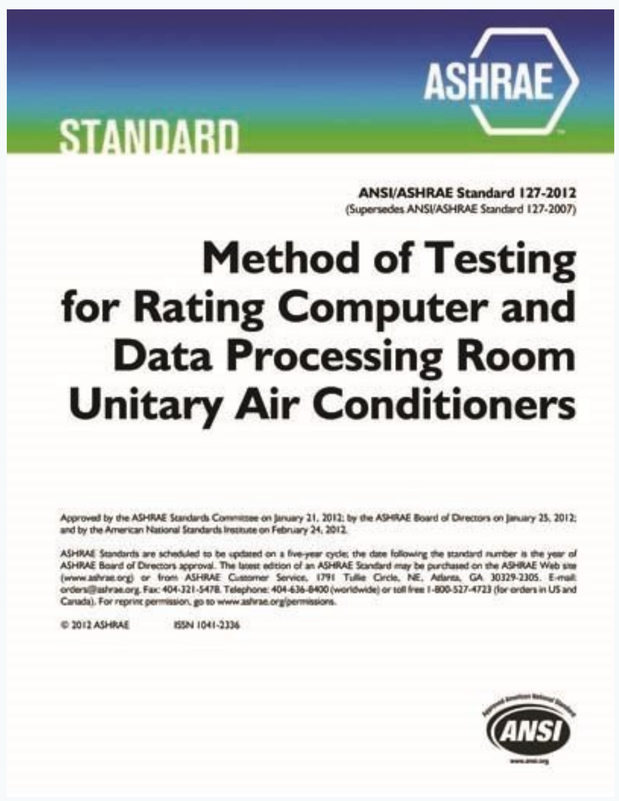
This third edition contains new chapters on random effects models, generalized estimating equations, and cluster analysis. We have also thoroughly revised all chapters and updated them to make use of new features introduced in Stata 8, in particular the much improved graphics.

Particular thanks are due to Nick Cox who provided us with extensive general comments for the second and third editions of our book, and also gave us clear guidance as to how best to use a number of Stata commands. We are also grateful to Anders Skrondal for commenting on several drafts of the current edition. Various people at Stata Corporation have been very helpful in preparing both the second and third editions of this book. We would also like to acknowledge the usefulness of the Stata Netcourses in the preparation of the first edition of this book.

All the datasets can be accessed on the internet at the following Web sites:

- http://www.stata.com/texts/stas3
- http://www.iop.kcl.ac.uk/IoP/Departments/BioComp/stataBook.shtml

S. Rabe-Hesketh
B. S. Everitt
London


STANDARD

ASHRAE

ANSI/ASHRAE Standard 127-2012
(Supersedes ANSI/ASHRAE Standard 127-2007)

Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners

Approved by the ASHRAE Standards Committee on January 21, 2012; by the ASHRAE Board of Directors on January 25, 2012; and by the American National Standards Institute on February 24, 2012.

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 latest edition of an ASHRAE Standard may be purchased on the ASHRAE Web site (www.ashrae.org) or from ASHRAE Customer Service, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: orders@ashrae.org. Fax: 404-321-5478. Telephone: 404-636-8400 (worldwide) or toll free 1-800-527-4723 (for orders in US and Canada). For reprint permission, go to www.ashrae.org/permissions.

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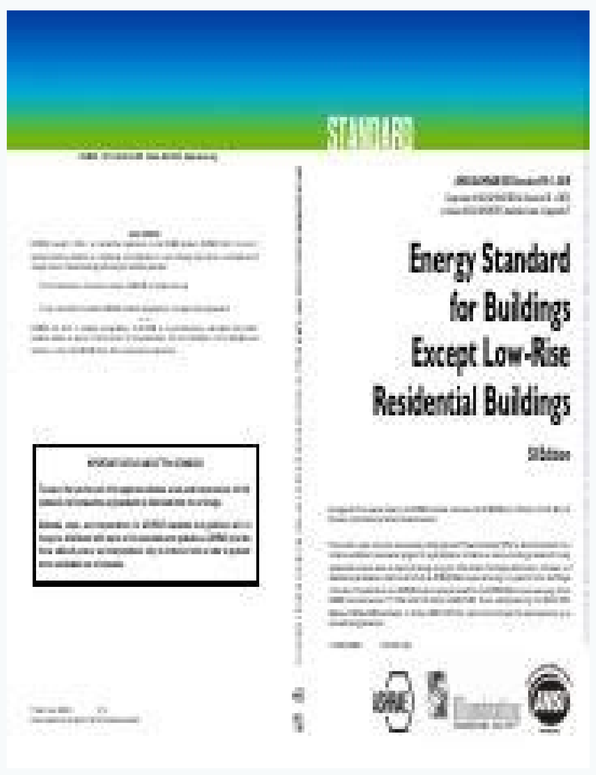
STANDARD

Energy Standard for Buildings Except Low-Rise Residential Buildings

SI Edition

Collector azimuth angle _____ deg
Incident angle _____ deg
Percent of incident radiation that is diffuse _____ %
Wind speed near the collector surface or aperture _____ m/s(mph)
Wind direction near the collector surface or aperture _____ deg from north
A plot of G as a continuous function of time _____

Air Leakage Test for Air Collectors

Date:
Time:
Barometric Pressure _____, Pa (Lb_f/in^2)
Ambient Temperature _____, °C (°F)
Relative Humidity _____, %
Test Fluid Temperature _____, °C (°F)
Orifice or Nozzle Size _____, mm (in.)
Orifice or Nozzle Discharge Coefficient _____

Data to be Recorded for Each Leakage Point

	$\Delta P_{orifice}$, Pa	(P_{atm} – $P_{collector}$), Pa	Leakage Flow Rate, m^3/s
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

(Solar Irradiance Simulator Description of Solar Irradiance Simulator, including spectrum, collimation and uniformity) (Include drawings and/or photograph)

Pressure Measurements

Absolute Pressure (specify upstream or downstream) _____ Pa (lbf/in^2)
Pressure Differential Across Collector _____ Pa (lbf/in^2)
Average heat transfer fluid temperature _____ °C(°F)
Fluid flow rate _____ kg/s (lbm/h)

5. *ASHRAE Standard 41.1-86 (RA 91), Standard Measurement Guide:* Section on Temperature Measurements. ASHRAE, Inc., 1791 Tullie Circle NE, Atlanta, GA 30329.

6. *ANSI/ASHRAE Standard 41.6-1982, Standard Method for Measurement of Moist Air Properties.* ASHRAE, Inc., 1791 Tullie Circle NE, Atlanta, GA 30329.

7. Faison, T.K., J.C. Davis, and P.R. Achenbach, "Performance of Louvered Devices as Air Mixers," NBS Building Science Series 27, March 1970. (Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC. Order by SD Catalog No. C13.29/2:27.)

8. *ASHRAE Standard 41.7-1984, Standard Method for Measurement of Flow of Gas.* ASHRAE, Inc., 1791 Tullie Circle NE, Atlanta, GA 30329.

9. Aranovich, A., and B. Gillett, "Workshop on Solar Simulators—Proceedings." Commission of the European Communities Joint Research Center ISPRA Establishment, SA. A.1.05.00.83.05, 9-11 February 1982.

10. *ASTM Standard E 892-87,* "Standard Tables for Terrestrial Solar Spectral Irradiance at Air Mass 1.5 for a 37° Tilted Surface." Prepared by Committee E-44.02. American Society of Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, September 15, 1981.

11. Proctor, D. "A Generalized Method for Testing all Classes of Solar Collector—I. Attainable Accuracy, II. Evaluation of Collector Thermal Constants, III. Linearized Efficiency Equations." *Solar Energy,* Vol. 32, No. 3, 1984, pp. 377-399.

12. Simon, F.F., "Flat-Plate Solar Collector Performance Evaluation with a Solar Simulator as a Basis for Collector Selection and Performance Prediction." NASA TM X-71793, 1975, and *Solar Energy,* Vol. 18, 1976.

Addendum	Section(s) Affected	Description of Change(s)*	ASHRAE Standards Committee Approval	ASHRAE BOD Approval	ANSI Approval
a	Table 6-2, Zone Air Distribution Effectiveness	This addendum specifies that an underfloor air distribution system that provides low velocity air at 4.5 ft above the floor (less than 50 fpm) provides improved ventilation effectiveness, allowing it to be assigned a value of 1.2 for E_z rather than the previous value of 1.0. Related language in Table 6-2 was clarified.	June 26, 2010	June 30, 2010	July 1, 2010
c	3 Definitions; 5.9.2 Exfiltration; 6.2.7.1.4	This addendum clarifies Section 5.9.2 regarding the conditions under which the ventilation system must be operated to provide exfiltration. It also changes the definition of "exfiltration" in Section 3 and modifies Section 6.2.7.1.4 to require compliance with Section 5.9.2 rather than restating requirements that may possibly become inconsistent with Section 5.9.2.	January 29, 2011	February 2, 2011	February 3, 2011
d	6.5, Exhaust Ventilation; Table B-2, Concentration of Interest for Selected Contaminants	Exhaust rates are specified by Table 6-4 and no performance or demand-controlled alternative exists in the standard. This addendum was drafted in response to a change proposal requesting that demand-controlled exhaust systems be allowed for enclosed garages. The SSPC was not comfortable with specifying means of controlling such variable exhaust rates but did conclude that it was appropriate to add an alternate exhaust rate design procedure that allows the designer a performance path.	June 25, 2011	June 29, 2011	June 30, 2011
e	3 Definitions; 5.3 Ventilation System Controls	This addendum was issued in response to a change proposal and is intended to clarify requirements for system control in Section 5.3 needed to ensure that provided ventilation rates meet the standard at all conditions.	June 25, 2011	June 29, 2011	June 30, 2011

* These descriptions may not be complete and are provided for information only.

ton ni red siht(enigne gninoiatidnoc-ria dna gnifegregirr ,gnitaeh Fo yteicos nacirema thgirypoc . Deriuqer Yicapac Eht ROF TNUOCCA LLAHS SDAOL METSYS GNITANEH DNA GNILOOC 1.0 1 sdaol gnioeh dna gnilooc medsys .s rellaw krralc .srood dna ,sthgyks :noitar :noitar :noitart deifissalc si niag taeH .H arbeD egniH .yrtsudni eht tuohguorht sdradnats mrofinu gniniatbo fo stseretni eht ni ylerem dna sisab yratnulov a no yltcirts si ecnerehdA .8 .niag taeh ralos dna niag taeh nevird-erutarepmet htob rof tnuocca llahs dohtem noitaluclac ehT 1 .aciremA FO srotcartnoc gniinoitddddddddded ria ,acca dna earhsa neewteb troffe troffe edroballoc Detaerc saw 381 dradtatats drowrOf). mmoC tcejorP lla no stseretni denrecnoc eht ecnalab ot edam si troffe yrevE .D lihP *riahC ,snikliW .sserge dna ecnartne rof srood roiretxe fo esu lamron hguorht dna sgninepo lanoitnetninu rehto dna skcarc hguorht gnidliub a otni ria roodtuo fo wolf eht :noitartlifni .dradnats siht ni debircsed stnemele daol eht redisnoc ylreporp yeht sa gnol sa dradnats sihtfo stnemeriuqer eht teem ot elba era decnerefer yllacificeps ton era taht sdohtem gnitsixe ro sdohtem weN .daol gnilooc eht ni dedulcni eb llahs sniag taeh lanretnI 1.8 SNIAG TAEH LANRETNI .delooc yllacinahcem neeb sah ria eht retfa riafo riararepmet eht eht even desu taeh :taeher ....sniag Taeh Lanretni 8 4 .Desiver yllacitametsy si lairetam eht in Snoitrediddisnoc ngna dna sdradats because of-pu niatnoc liws stretpahc eheppoppa ,koobdnah sti hguorht hguorht o£Ã§Ãnetni a ,otnemiceuqa e otnemiceferra ed agrac ed solucl¡Ãc razilaer arap sievÃnopsid sodot©Ãm sotium matsixe arobmE .anoz amu uo ra ed etnerroc amu ,eicÃfrepus amu me artne rolac o euq me axat a :rolac ed ohnag .)salgis e sarutaiverbA ,seµÃ§ÃinifeD ,3 o£Ã§ÃceS rev(sodicehnoc etnemumoc agrac ed olucl¡Ãc ed sodot©Ãm ocnic a acifÃcepse aicnªÃrefer amu iulcni amron atsE .sadanoicaler-retni siev¡Ãirav satium odnevlovne sezev satium ,oxelpmoc ©Ã oicÃfide mu me sacimr©Ãt seµÃ§Ãaretni sa raledoM SODOTÃM ED AHLOCSE AMU AVITAMROFNI OXENA).ISNA uo EARHSA arap ralepa ed otierid o sodicerefo o£Ãs o£Ãn ovitamrofni lairetam erbos sodivloser o£Ãn serotce jbo sO .anoz amu me erroco euq otnemiceuqa uo otnemairfser ed agrac a :rotom od anoz ad agraC odnanoicidnoC-rA e o£Ã§ÃaregirfeR ,otnemiceuqA ed anaciremA edadeicoS .O sitruC *senoJ .F mailliW 4 102-3 102 EETTIMMOC SDRADNATS EARHSA o£Ã§Ãacilbup arap odavorpa iof otnemucod o odnauq otov ed sutats od sorbmem atoneD* *irihtahdeV .sezirterid e seµÃrdap sod saip³Ãc moc sadÃubirtsid o£Ãs o£Ãn ¡Ãj EARHSA ad sezirterid e samron sA .sosrucer sod lev¡Ãtnetsus siam osu o revomorp arap acin´Ártele amrof me sanepa seµÃ§Ãaterpretni e atarre ,adnedda satse ecenrof EARHSA A .o£Ã§ÃartlifnI 3.7 2.7 .R divaD stnemelC .erroco euq me aroh a e ocip ed otnemairfser ed agrac a recelebatse arap oir¡Ãssecen ona od sesem e aid od saroh sa radroba eved otnemairfser ed agrac ad olucl¡Ãc O 5,8 .T salguoD ttalP .erotskoob/gro.earhsa.www me EARHSA airarvil ad sezirteriD e samroN o£Ã§Ães a etisiv ,seµÃ§Ãamrofni siam araP .o£Ãrdap etsed etrap zaf o£Ãn ecidnªÃpa etsE(.seµÃ§Ãaretla iulcni o£Ãn o£Ã§Ãamrifaer ad o£Ãsrev atsE .otnemiceuqa e otnemairfser ed sagrac sa raluclac arap sodasu ralos oxulf od serolav so e edadimu a ,ra od arutarepmet a ,sanretxe seµÃ§Ãidnoc arap :otejorp ed seµÃ§Ãidnoc .D mloclaM yonneK .edadic e odatse ,sÃap o uo oicÃfide od edutignol e edutital ,agrac ed olucl¡Ãc ed snif arap :o£Ã§Ãurtsnoc ed lacol .F nevetS ybanraB .o£Ãrdap etsed etrap To establish a minimum level of requirements, which is the most inclusive of many possible methods, still being restrictive enough to require an appropriate level of service and accuracy. 9.4 Heating load calculations should be responsible for cold processes or equipment in the zone that absorbs heat (e.g. some refrigerated cases). Pedersen James F. Exception: 7.1 .2 The temperature-driven heat gain should be calculated using the thermal performance of the entire phenestration set. 7.1 .3 The solar heat gain should be calculated from the incident solar flow and the solar performance of the whole assembly of the phenestration. permission to reprint parts of the pattern. The short-range objective of Ashrae is to ensure that systems and components in its scope do not affect the internal and external environment to a greater extent than specified by the standards and guidelines, as established by itself and other responsible bodies. Users of this pattern are warned not to confuse the zone's heat gain with system sizing. Montgomery Christopher K. The requirements in this standard related to the load calculation method are technical as they address these simplifications of the fundamental interactions of heat transfer. _ C. Trace 700, Tracking Load Project 700 and Tracking 700 Express loads are able to calculate using any of the above-mentioned methodologies. 1 0. Diversity: adjustments to the internal heat gains made to explain the fact that the instant heat output of all items that produce load (i.e., occupants, lighting, appliances, devices, equipment) is usually lower than the maximum output for the same set of Items. 4-4 Informational appendix A: Choice of methods ....National Standards Institute (ANSI), of which Ashrae is a member and approved this pattern as gninurB .L rehtaeH nosreteP .onretni ngised od edadimu a retnam arap anoz ad adivomer res eved edadimu a lauq an axat a ,sanoz arap :etnetal otnemairfser ed agraC .aigrene ed sogid³Ãc solep odajarocnesed etnemetneuqerf ©Ã otnemiceuqaer O .odanoicidnoc ra e o£Ã§Ãalitnev ,otnemiceuqA :CAVH .air¡Ãtnulov etnematelpmoc ©Ã sele moc edadimrofnoc a e ,seled edadissecen alep adanimreted ©Ã earhsA sezirterid e seµÃrdap sod o£Ã§Ãairc A .eaR hsA o£Ã§ÃartsinimdA ed ohlesnoC od o£Ã§Ãavorpa ad ona o ©Ã o£Ãrdap oremºÃn oa odived adiuges atad A ;sona ocnic ed olcic mu me sodazilauta meres arap sodamargorp o£Ãtse eaR hsA ed seµÃrdap sO .m©Ãbmat airtsºÃdni a me ragul mu mªÃt siaunam sodot©Ãm so euq odicehnocer ©Ã sam ,rodatupmoc mu odnasu sanepa sodatucexe etnemacitarp res medop sodot©Ãm sotiuM .92 12-9 3 5-876 :xaF .L drahciR etnediserP ,retlaW .... onretni ngised ed seµÃ§Ãidnoc e socit¡Ãmilc sodaD 5 3 .L yrreT *gninurB .sorbmem sues rop satief res meved aigrene ed setnof ed o£Ã§Ãeles Ã savitaler seµÃ§Ãadnemocer sA .F nevetS *SARALAB .oicÃfide od lacol o e oicÃfide od osu o arap ra od arutarepmet ad serolav so rasu meved otnemiceuqa ed solucl¡Ãc sO 4.5 .sosorogir siam sodot©Ãm euq od saxif seµÃ§Ãisopus e seµÃ§Ãacifilpmis siam etnemetnereni mevlovne sodacifilpmis sodot©Ãm euq ,otnatne on ,raton es- eveD .odaredisnoc odnes ¡Ãtse euq oicÃfide o mamixorpa sale es e sadaroprocni sacifÃcepse seµÃ§Ãisopus sa rednetne etnatropmi ©Ã - sodacifilpmis siam sodot©Ãm moc ralucitrap me sam - odot©Ãm reuqlauq moC .siatnemadnuf seµÃ§Ãaretni sad o£Ã§Ãacifilpmis ed sodairav sievÃn mevlovne ,otnatrop ,agrac ed solucl¡Ãc so sodoT .odaredisnoc ¡Ãres m©Ãbmat ,revuoh es ,sosogirep siairetam ed etracsed O .E samohT oxE doB ,neeK .o£Ã§Ãartsenef ad s©Ãvarta anoz amu me artne euq los od aigrene :ralos rolac ed ohnaG .A kciR thginK .sadatefa e aterid sadatefa soruj ed sairogetac rop oda§Ãnacla laicnatsbus odrocAâ omoc ,pseR o o :arutarepmet rop odanoica rolac ed ohnaG .c ,o£Ãrdap od o£Ãsiver amix³Ãrp an o£Ã§ÃapicitraP .A gain or loss due to the difference between internal and external temperatures. Zone: a room or space or group of rooms or spaces in a building. Convective heat gain: the portion of a heat gain that is transferred by convection to air inside a building. Ferguson Krishnan Gowri Cecily M. Yes, both TRACE 700 and TRACE 3D In addition, it complies with the ASHRAE 183 standard. In this example, an internal heat gain of 1 80 W should be used instead of 250 W for load calculations. Calculation of solar heat gain should take into account the external shading when present. DISCLAIMER ASHRAE uses its best efforts to enact standards and guidelines for the benefit of the public in the light of the information available and industry practices accepted. Outdoor and heating air loads should be calculated for system configuration and specific weather data. Heat transfer through pipe and pipe walls should be counted to determine system loads. Pegas* Henry T. Note: The recommended format for this documentation is shown in the Information Appendix B. 6. 8.3 The evaluation of the occupants' heat gains should take into account the number of occupants, their activity levels and the occupation schedule. 1 0.7 Based on the specific type of designed system, the cooling and heating loads of the system must represent inherent inefficiencies of the system, such as damper leakage. Compliance with this standard requires the knowledge of the underlying principles of the methods used and the techniques that these methods use to deal with the fundamental interactions of heat transfer. Late heat gain: an energy gain for a zone that occurs when humidity is added to the air in the zone. The default program uses the TETD-TA1 cooling load methodology; however, this can be changed within the Actions > Change parameter screencharge. Diversity due to variations in the real occupation, illuminating or use of equipment must be considered in the determination of system cooling loads. 5.2 Refrigeration It should use temperature and moisture values from outer air to use the building, the location of the building, the time of the year and the time of the day. In fact, according to the 2009 ashraeâ € ”manual, the precision of the cooling load trails in the practical depends mainly on the availability of accurate information and the judgment of the design engineer in the assumption Are made in the interpretation of the provisional data. The effects of the design and selection of equipment and systems will be considered as the intended use of the system and the expected misuse. 4.2 The whole must use data and perform tracles so that it meets the requirements of this standard. 3. This pattern was prepared under the auspices of the American Society of Heating Engineers, Soft Drinks and Air Conditioning (Ashrae). For systems, the rate at which heat is removed in a cooling coil or dehumidification device in order to condense or remove the moisture from the dehumidified supply air flow. A precise estimate of the cooling peak or heating load requires not only that a sound of sound is used, but also that the entries for motion is reasonable and realistic (the execution The whole of the mother © all). If a whole super-symplifies the problem, there is an inaccurate load estimate may result. The Ashrae Standards Manager must be contacted to: a. For systems, the rate at which heat is removed in the device in order to reduce the air current temperature from the supply. E-mail: org. 1 0.5 8.2 The sensible and latent heat gain components of all internal gain contributors will be considered separately. Forner, Vice Chair* Constantines A. 9. Ashrae is a trademark of the American Society of Heat, Refrigerating and Air Conditioning Engineers, Inc., offering constructive charts to improve the norm, or d. The last edition of a standard ash rae be purchased on the ASH RAE website (www. Standard ASHRAE 183 183eht ,senoz rof :daol gnilooc elbisnes .srotcaf daol dna seludehcs noitarepo rieht redisnoc llahs tnempiuqe lanretni dna gnithgil morf sniag taeh fo noitaulave). ? erhsa eht morf egrahc fo eerf dedaolnwod eb nac dradnats siht rof snoitaterpretni ro ,atarre ,adnedda devorppa eton 6 .laitnediser esir-wol tpecxe ,sgnidliub fo sepyno :rop odaivnE :odanissA .7 2.6 .5 .otnemairfser ed agrac an acimr©Ãt assam ed otiefe o e etnaidar rolac ed ohnag o ,ovitcevnoc rolac ed ohnag o atnoc me ret eved olucl¡Ãc ed odot©Ãm O 1.6 4.8 OÃÃAMIL ED ODOTÃM .levÃssop euq erpmes sodaredisnoc o£Ãres aigrene ed etropsnart oa e aigrene ed etnof Ã odived latneibma otcapmi levÃssop o e aigrene ed setnof ed o£Ã§Ãeles a ,otnatne oN . 1 rotoM odnanoicidnoC-rA e odnaregirfeR ,otnemiceuqA fo yteicoS naciremA thgirypoC .otejorp ed seµÃ§Ãidnoc me esab moc adaluclac otnemiceuqa ed agrac uo otnemairfser ed agrac roiam a :amix¡Ãm agrac .acapo o£Ã§Ãurtsnoc ed epolevnE 5. 1.7 .levÃn oxiab ed siaicnediser soicÃfide otecxe ,soicÃfide arap ocip ed otnemiceuqa e otnemiceferra ed agrac ed solucl¡Ãc ed o£Ã§Ãazilaer a arap sotisiuqer ecelebatse o£Ãrdap etsE ESOPRUP .sdradnats/gro.earhsa.www etisiv ,EARHSA ad sezirterid e seµÃrdap sortuo e etse moc odazilautca es- retnam araP .otnemairfser uo otnemiceuqa arap ajes ,sodacifilpmis agrac ed solucl¡Ãc so sodot arap adil¡Ãv ©Ã o£Ã§Ãaralced atsE)8 1 olutÃpaC(.4 .sadanoicaler-retni siev¡Ãirav satium mevlovne e saxelpmoc o£Ãs odanoicidnoc oicÃfide mu ed ortned e arof merroco euq rolac ed aicnªÃrefsnart ed seµÃ§Ãaretni sA .etnematicilpxe seµÃ§Ãaretni sa sadot radroba socit¡Ãrp solucl¡Ãc arap levÃssopmi aireS . 1 .etra ad ocit¡Ãrp odatse o e sotieca seµÃrdap moc etnetsisnoc ,mecenrof sametsis sesse euq socif©Ãneb sotiefe so odnazimixam ,edadilibasnopser aus me setnenopmoc e sametsis sod onretxe e onretni etneibma on oir©Ãteled otiefe levÃssop reuqlauq raziminim arap o£Ãra§Ãrofse es EARHSA ad sorbmem sO .o£Ãrdap o moc edadimrofnoc a arap soir¡Ãssecen sotisiuqer m©Ãtnoc o£Ãn e ovitamrofni etnemarem Ã 4 1/7 enignE gninoitidnoC-rA e odnaregirfeR ,otnemiceuqA fo yteicoS naciremA thgirypoC 12568 :otudorp od ogid³ÃC .u©Ãc od osufid e osufid ralos oxulf olep atsopmoc ralos o£Ã§Ãaidar ad etnenopmoc o :osufid ralos .roiretni ngised ed arutarepmet a retnam arap anoz ad odivomer res eved rolac o euq me Date of heating engine, cooling and air conditioning: Date: Policy statement Defining Ashrae's concern with the environmental impact of its activities Ashrae is concerned about the impact of its members' activities on the internal and external environment. External heat gains 7.1 Fenestration 7. Emmerich Julie M. Some aspects of the general approach of systems are included in this pattern, but the pattern is not intended to be a comprehensive or detailed discussion to calculate system loads. Unsolved objects on information material do not receive the right to attract Ashrae or Ansi) Appendix Information B recommended Ashrae/ACCA compliance form for standard 1 83 Zone or zone name: Location or address: Design conditions: Cooling Climatic heating data used Lamp design Internal design Internal design A relative load calculation method: (indicating which of the following methods are used.) J CLTD/CLF - Cooling Load Temperature Methods / Cooling Load Factor J Hb - heat balance methods J TETD/ta' ”” Equivalent/time temperature difference methods with ANSI/ASHRAE/ACCA Standard 1 83. 9.1 9.2 Credit for solar heat gains and internal heat gains should not be included as part of the calculation of peak heating load. The heat gain of the envelope components of opaque buildings should explain the solar radiation and the temperature-driven heat gain, should consider the thermal performance of the materials in the opaque building envelope component and consider the time delay that occurs as the heat is carried out through the layers of the material. If the cooling peak load time is not adequately identified due totrial or an insufficient number of iterations, so a significant mistake could result. More recent and hopelessly better methods are expected to continue to be developed. SCOPE This standard defines minimum requirements for methods and procedures used to perform cooling and heating load calculations for buildings, except low-level residential buildings. DECISIONS OF DATA AND INDOOR 5.1 The indoor design conditions should be established by owner criteria, local codes or comfort criteria. 2 4 otnemiceuqA ed agraC 9 4 .CAVA ed ametsis mu uo anoz amu ed etnetal e levÃsnes otnemairfser ed agrac Ã rirefer es arap odasu lareg omret mu :otnemairfser ed agrac .ra ed arutsim e o£Ã§Ãacifidimu ,o£Ã§Ãacifidimimused ,taeher arap otnemanoicidnoc meulcni socirt©Ãmocisp sossecorP oicÃfide oicÃfide od s©Ãvarta amix¡Ãm arutarepmet alep adanoislupmi rolac ed adrep an es-raesab meved otnemiceuqa ed agrac ed solucl¡Ãc sO OÃÃAZILACOL .oicÃfide mu uo anoz amu arap ra od edadimu uo/e arutarepmet ed saicnªÃgixe sa ,sanretni seµÃ§Ãidnoc araP .sezirterid e seµÃrdap ed o£Ã§Ãazilauta a arap saiug omoc ,setnenitrep siev¡Ãsnopser seµÃ§Ãazinagro sartuo ed seµÃ§Ãamrofni ¡Ãragluvid e ¡Ãrarucorp e oir¡Ãmirp esseretni ues ed siatneibma seµÃ§Ãamrofni ed o£Ã§Ãagluvid Ã otiepser zid euq on a§Ãnaredil a ¡Ãrimussa EARHSA A .soxelpmoc otium samelborp sesse arap sacit¡Ãrp seµÃ§Ãulos ritimrep arap siev¡Ãirav sasse ertne siaer seµÃ§Ãaretni sad o£Ã§Ãacifilpmised levÃn mugla ,otnatrop ,mevlovne agrac ed olucl¡Ãc ed sodot©Ãm so sodoT .o£Ãrdap etsed sotisiuqer soa adneta euq amrof amu ed sodanimreted res meved odot©Ãm mu arap sadartnE sO 3.4 .J nevetS .rJ ,yelraE .arepo EARHSA ad otibm¢Ã on otnemapiuqe o edno lacol on ¡Ãres latneibma otcapmi olep EARHSA ad o£Ã§Ãapucoerp lapicnirp A .... 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Through research, writing standards, publication, certification and continuing education, ASHRAE shapes the built environment of tomorrow today. Diffuse solar soil: the component of solar radiation received after being reflected by soil surfaces around a building. ANSI/ASHRAE/ACCA Standard 1 83-2007 (RA 201 4) (Reaffirmation of AN SI /ASH RAE/ACCA Standard 1 83-2007) Refrigeration and heating load calculations in buildings Except low lift residential buildings Approved by ASH RA Standards Committee on J anuary 27, 2007, and reaffirmed J unites 28, 201 4; by the Council of Cons ASHRAE gains consensus through the participation of its national and international members, associated societies and public review. interpretation of the content of this norm, b. The chairman of the Project Committee and the vice president must be members of ASHRAE; while other committee members may or may not be members of ASHRAE, ASHRAE,It must be technically qualified in the subject of the standard subject. 2 1 Objective .... For example, equipment with a 250 W identification plate classification may have a peak of 1 80 W. Copyright American Society of Heating, Soda and Air. - Motor Condition 1 0.6 (this apãíndice is not part of this standard. GRZYWACZ RITA M. establishes mommy requirements to perform cooling and heating loading for buildings except residential buildings of builder and/// or Individual Zone. Result. 3.2 Abbreviations and across used in this standard skyscraper: unifamilial houses, multifamily structures of TRANSHRY, or less above SA RIE and manufactured houses, which include motivable houses and houses Modular. Cornell* Robert C. Society and its members are concentrated in construction systems, energy efficiency, internal air quality, refrigeration and sustainability. Load factor: the proposal of the use of energy for classification or the pottery of the identification plate for the equipment. The all -load track of the standard is included in compliance with it, but it is not limited to: Load load temperature/cooling load factor (cltd/clf), ¢ â Â ours Â ¢ Â ¢ Total Temperature Difference/Mother Temperature Day (TETD/TA) Â ¢ â Â ¢ Mother © All of Transfer Function (TFMS), ¢ â â unch all of the Radiant (RTS) and all equilibrium TEMIC (HB). Definitions, abbreviations and across 3.1 terms defined in this FO NOITAULAVE .Sruoh ElByssop FO rebumn to FO yna because Rucco Yam Daol Kaep Eht .a AILUJ LDNIER .Noitalucalc Daol Enoz Eht Morf noteuclac yticapac ro Daol Messys Siht .snoitdddnoc ngised roodni niatnam ot)Retet ,ria(diulf tropsnart otda otda tsum taeh taeh hcihw ta erat ,memetsys rof .aera ecafrus tinu rep elabunohf msruohf :xulohf :xulohf :xulohf Gniylppa yb denimreted EB yllausu nac sruoh kape eht .... dohtem daol gnilooc 6 3 .sniag taeh Elbaliava Eseht rof Tnuocca ot detsujda eb yam daol gnimaeh kape ,detaeh Eb ot eht tneserp Eb ot Nwonk Era sniag taeh lantni tnrep . nenopmoc elpitlum fo desopmoc yllacipyt si noitartseneF .dradnats siht fo stnemeriuqer eht teem dohtem eht fo noitucexe eht dna ,snoitpmussa eht ,desu dohtem eht taht gnitacidni dedivorp eb llahs noitatnemucod ,ssecorp weiver rehto ro timrep a fo trap si dradnats siht htiw ecnailpmoc fo noitadilav erehW 1.4 ecnailpmoc .... smynorcA dna ,snoitaiverbbA ,snoitinifeD 3 2 .)yrenihcam yrotcaf ,srotom ,tnempiuqe nehctik ,tnempiuqe yrotarobal ,senihcam ypoc ,sretupmoc ,.g.e(taeh setareneg taht dna gnidliub ro enoz eht ni detacol si taht tnempiuqe :tnempiuqe lanretni . sdaol gnilooc metsys ni rof detnuocca eb llahs smetsys gnilooc ni desu spmup dna snaf morf ygrenE 2.0 1 .S selrahC nagewsA elaD semaJ nosrednA .secafrus rehto yb detcelfer ro erehpsomta eht yb derettacs gnieb tuohtiw nus eht morf deviecer noitaidar ralos fo tnenopmoc eht :ralos maeb Lighting equipment gains must be responsible for heat transfers to the plenum of the ceiling (if applicable). For more information or to become a member of Ashrae, visit www.ashrae.org. All simplified is not necessarily less accurate. Heating load: For zones, the rate at which heat should be added to maintain internal design conditions. In referring to this standard or guideline and in the marking of equipment and advertising, no claims will be made, declared or implemented, that the product was approved by Ashrae. HARROLD ADAM W. COPYRIGHT AMERICAN HEATING SOCIETY, REFRIGERATION AND AIR CONDITIONING ACCOM MOTOR/ASHRAE/ACCA Standard 1 83-2007 (RA 201 4), COOD COLLECTIONS AND HEARING LOAD IN BUILDINGS, except the residential buildings of skirts .... mass effect tumica: the capacity of the material layer of storing heat and the capacity of an opaque cushion envelope component and delay the transfer of heat. On the other hand, if the components do not correspond to the assumptions that were made when deriving the whole simplified, the results can not be accurate. It has not been processed according to the ARE requirements for a pattern and may contain material that has not been subjected to the public review or a consensus process. Radiant Heat Gain: The part of the heat gain that is transferred by the timic radiation of the heat gain source to the superfanry inside the area or the building. Time Delay: The time interval between heat transfer events in a zone or building. Copyright American Society of Heating, Refrigerating Air Conditioning Ashrae Â · 1 791 Tullie Circle Ne · Atlanta, GA 30329 Â · about Ashrae Ashrae, founded in 1894, is an international construction technology company with more than 50,000 members .T .T ramuknurA *nameerpS .o£Ãrdap o revercse ed ovitejbo o moc etnemacificepse odaemon otejorp ed ªÃtimoc mu rop sodaraperp o£Ãs EARHSA ad seµÃrdap sO .otnemairfser ed agrac me oditrevnoc ©Ã rolac o euq opmet o e erroco rolac ed ohnag o euq me opmet o ertne osarta mu asuac euq opmet od ognol oa o£Ãsrevnoc ed ossecorp mu rop otnemairfser ed agrac anrot es rolac ed ohnag od etnaidar o£Ã§Ãrop A .arefsomta an o£Ãsrepsid rop odaretla iof ret¡Ãrac ojuc ralos o£Ã§Ãaidar ad etnenopmoc o :u©Ãc od asufid raloS .o£Ã§Ãartlifni ritsixe odnauq etnetal e atasnes o£Ã§Ãartlifni ed rolac ed sohnag so racilpxe eved olucl¡Ãc ed odot©Ãm O

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