



DA09

AIR CONDITIONING LOAD ESTIMATION AND PSYCHROMETRICS

DESIGN APPLICATIONS MANUAL



Airah Application Manual Da09 Air Conditioning

Vincent Aherne F.AIRAH



Airah Application Manual Da09 Air Conditioning:

DA09 Air Conditioning Load Estimation and Psychrometrics, Fourth Edition Vince Aherne, 2022-10 This is the fourth edition of the AIRAH air conditioning load estimation manual. The method outlined in this edition continues to follow the principles of the Carrier Method of load estimation originally developed by the Carrier Corporation prior to 1972 but has incorporated several modifications not included in the original version. The manual provides a range of information and design data that can be used in any load estimation calculation. The method outlined is not the only load estimation method available nor the latest but the Carrier Method does have a long history of use in Australia through the CAMEL software and lends itself well to manual calculations for simple rooms, zones and buildings. Those new to load estimation are advised to conduct a few completely manual load calculations prior to reliance on any software method. This promotes a better understanding of the load estimation processes and the impact that individual loads have on the design of air conditioning services. The topic of building heating and cooling load estimation is explored in detail in this manual and the psychrometrics of the fundamental air conditioning processes which are needed to design systems that will provide specified indoor design conditions for a defined range of occupancies and climate profiles are explained. Although this is a load estimation and not an air conditioning design manual, it does draw strong connections between the choices a building system designer or load estimator makes and the magnitude of the cooling and heating loads. This edition provides additional guidance on the load implications of building design elements, strategies for reducing the loads, climate appropriate architecture and controlling the use and overuse of safety and engineering design factors in both the load estimation and subsequent air conditioning design calculations.

DA09 - Air Conditioning Load Estimation and Psychrometrics Vincent Aherne F.AIRAH, 2019-12

AIRAH Design Data Manual Australian Institute of Refrigeration, Air Conditioning and Heating, 1978 *AIRAH Design Data Manual*, 1978 *The Australian Institute of Refrigeration Air Conditioning & Heating (Inc)* William Lane, 1995 Many heating, ventilation and air conditioning HVAC systems use heated or cooled water to provide comfort conditions within buildings. Owners, managers and operators rely on these hydronic systems to operate their buildings to support their processes or to enable other systems. Hydronic systems in HVAC are designed to deliver pre-calculated amounts of heated or cooled water down sometimes complex piped distribution systems all controlled by dynamic and responsive comfort controls. To have any chance of performing as the designer intended, these systems must be tested, adjusted and balanced TAB after installation and importantly the water distribution quantities must be measured, adjusted and verified against the design TAB. TAB is the process of making an HVAC system perform as efficiently as the designer intended and it helps HVAC systems operate more effectively providing maximum comfort at the lowest energy cost possible. The performance of any equipment in centralised HVAC systems is dependent on many parameters but sufficient water flow is one of the most significant. To understand the best way to approach a system water balance, the TAB technician must understand how the system is intended

to operate This knowledge transfer is the responsibility of the system designer and it is important that the designer clearly communicates the intended operation and performance of the system and how it is to be verified This is the starting point of the TAB process This application manual considers the entire water balancing story Starting from an explanation of where TAB sits in the overall commissioning process the manual takes us through the fundamentals of water flow and measurement what needs to be done before TAB how to approach a water balance for a range of different system types and what to do after the water balance has been successfully completed including recording and witnessing results *The Australian Institute of Refrigeration Air Conditioning & Heating (Inc.)* William Lane, 1995 Air based heating ventilation and air conditioning systems provide comfort conditions within buildings support many processes and enable many systems Owners managers and operators rely on these often complex systems to operate their buildings and successfully run their businesses HVAC systems are designed to deliver pre calculated amounts of conditioned air down sometimes complex air distribution systems all controlled by dynamic and responsive comfort controls In order for them to have any chance of performing as the designer intended these systems must be tested adjusted and balanced TAB after installation and importantly the air distribution quantities must be measured adjusted and verified against the design To understand the best way to air balance a system the technician must understand how the system is intended to operate This knowledge transfer is the responsibility of the system designer and it is important that the designer clearly communicates the intended operation and performance of the system and how it is to be verified This is the starting point of the TAB process This application manual considers the entire air balancing story Starting from an explanation of where TAB sits within the overall commissioning process the manual takes us through the fundamentals of air measurement what needs to be done before TAB how to approach an air balance for a range of system types and what to do after the air balance has been successfully completed including recording and witnessing results *AIRAH Technical Handbook* Australian Institute of Refrigeration, Air Conditioning and Heating, Phil Wikinson, 2007 *DA19 HVAC&R Maintenance* Vincent Aherne F.AIRAH, 2019-10 **DA06 - Guide to Applying Fire, Smoke and Air Dampers - - to AS 1668. 1, AS 1682. 1 and AS 1682. 2** Vincent Aherne F.AIRAH, 2019-11 [AIRAH Technical Handbook 2021 Sixth Edition](#) Vince Aherne, Ben Adamson, Richard Aynsley, Paul Bannister, Graham Carter, 2021-03 For more than three decades now this handbook has been an integral part of AIRAH's service to its members and it is with much pride that AIRAH provides this newly revised edition This edition of the handbook sees a back to basics approach and a return to focusing on the engineering fundamentals of the science of HVAC R Most of the charts graphs equations calculators application tables and guidelines have been incorporated into the core handbook sections for ease of reference The larger data tables and more descriptive engineering and management materials are all grouped in a series of virtual appendices

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