

DUCT SYSTEM DESIGN CONSIDERATIONS

(Part 2)

by Roger W. Franklin, CEM

INTRODUCTION

One of the most important components of any HVAC system is the duct system. The layout and sizing of the ductwork and the selection and location of air-circulating devices (fans, registers, and diffusers) are critical to the overall system performance. The best mechanical manufacturers will produce unsatisfactory systems unless they are installed with a duct system properly designed for them. In some cases, HVAC equipment failure can result from a duct system or installation that is poor. The duct system is made up of all duct, the supply system and the return system. Duct systems that contain components as equally important as ensuring that the installed HVAC system will provide the proper environmental conditions and humidity to keep the comfort needs of the building occupants.

It must be the first priority of the duct system designer to make sure that air is not drawn or supplied at different than proper amount or air being at the

proper velocity through a properly selected terminal device (grille, register, or diffuser) to maintain room rates or zones of the structure properly for the occupants comfort. The only valid method of determining the system air requirements is to complete a room-by-room load gain and load loss calculation, such as an ACCA Manual J load calculation. The conditioned air also must be delivered to the room in such a way as to make sure that the primary airflow does not come in contact with the room occupants. The primary airflow should be delivered into the unoccupied zone of each room (see Figure 1). On the surface this may sound like a bad idea, but it can be accomplished by giving close attention to the details and following a few simple rules of good duct system layout and design.

DUCT SYSTEM LAYOUT CONSIDERATIONS

You must take into account the physical layout and characteristics of the structure. Start with where the ducts are laid out and location of the duct system to load (supply) the space. The possibility of using multiple systems (two or more, or air mechanically controlled, zones) within the structure may result in the conditioned

Small single floor structures

Structures with less than 1,000 to 1,500 sq feet including single floor plans and basements need to be efficient at one system, so using air flow rates as found in Figure 1 is critical as there are no other air sources in the geographic center of the structure. However, if the flow rate is insufficient or if the intake or handle or fanless location introduces extremely long duct runs, either during or the use of less or more conditioned area (see Figure 2) or more (Figure 3) show a small single floor residence. The intake location of the duct system (Duct) is located near the geographic center of the structure. Note that the location of the thermostat (T).



Figure 1. "Unoccupied zone" of a room

Duct System Design Considerations Rses

L Darling-Hammond



Duct System Design Considerations Resources:

Building Systems Design, 1961 New Scientist, 1978-10 **ASHRAE Journal**, 1992 Government Reports Announcements & Index, 1978 **Guidelines for Improved Duct Design and HVAC Systems in the Home** Lane M. Collins, Danielle E. Martinez, 2012 Heating and cooling losses from forced air ducts can result in high energy costs lead to thermal comfort problems and in some extreme situations result in serious health and safety concerns Reducing air leakage and conductive losses from ducts can be a straight forward way to reduce energy use and improve comfort in homes This book discusses the basics of air distribution and duct design strategies to seal and insulate ducts in existing homes accurate heating and cooling load calculations and HVAC equipment sizing **HVAC Duct Design** Charles Nehme, 2023-01-19 HVAC duct is a system of metal or flexible tubes that are used to distribute heated or cooled air throughout a building They are typically made of sheet metal fiberglass or plastic and come in a variety of sizes They are connected to registers diffusers and grilles which help to regulate the air flow and temperature Duct sizing is the process of ensuring that the right size of ducts and fittings is used in a ventilation system This process involves calculating the air volume velocity and pressure drop of the system and then selecting the appropriate size of ducts and fittings to accommodate that air volume velocity and pressure drop The first principle of HVAC duct design is selecting the right size and type of components The size and type of components are determined by the desired airflow static pressure and other criteria Proper sizing helps to ensure that the system can adequately heat or cool the space The components should also be selected based on the desired sound level ease of installation and other design considerations HVAC Ductwork book HVAC Rectangular Duct HVAC Duct Design **HVAC Duct Pressures and Static Regain** Charles Nehme, 2025-07-04 The efficient and effective distribution of air is the lifeblood of any modern building directly impacting occupant comfort indoor air quality and critically energy consumption Yet the principles governing airflow within HVAC ductwork specifically pressures and the concept of static regain are often misunderstood or underutilized even by seasoned professionals This oversight can lead to oversized fans excessive energy bills persistent noise issues and ultimately systems that fail to deliver their intended performance Having dedicated over three decades to navigating the complexities of HVAC and MEP systems across diverse global markets from intricate industrial facilities to expansive commercial developments and detailed residential projects I've witnessed firsthand the profound impact that meticulous duct design can have My career has been a continuous journey of understanding how theoretical principles translate into practical high performing and sustainable built environments This book is a distillation of that experience aimed at bridging the gap between fundamental aerodynamic principles and their real world application in HVAC design My primary motivation in writing this guide stems from a recognition of a persistent challenge in our industry the tendency to simplify duct design at the expense of true optimization While various duct sizing methods exist the often overlooked power of static regain when properly understood and applied offers unparalleled opportunities for achieving

balanced airflow reducing fan energy and ensuring quieter operations This is not just about avoiding problems it s about elevating HVAC systems to a higher standard of efficiency and reliability This book is intended for HVAC engineers designers consultants and technicians anyone involved in the design installation commissioning or troubleshooting of air distribution systems Whether you are a student just embarking on your engineering journey a professional seeking to deepen your understanding or an experienced practitioner looking for advanced optimization strategies this resource aims to provide clarity practical methodologies and actionable insights We will begin by establishing a solid foundation in the basic fluid dynamics of airflow and the critical definitions of static velocity and total pressures From there we will explore various pressure loss mechanisms and delve into the comparative analysis of different duct sizing methods with a particular emphasis on the theory and practical application of the static regain method Subsequent sections will guide you through advanced design considerations the crucial interaction between fans and duct systems strategies for maximizing energy efficiency and an overview of the latest tools standards and best practices It is my sincere hope that this book empowers you to approach HVAC duct design with greater confidence precision and a renewed appreciation for the elegant interplay of pressures that dictates the performance of our buildings vital organs By mastering these principles you will not only enhance your projects but also contribute to a more sustainable and comfortable built world Charles Nehme Global HVAC and MEP Consultant Commercial Low Pressure, Low Velocity Duct System Design Hank Rutkowski,1990 **How to Design HVAC Duct Systems that Maximize Efficiency and Eliminate Noise** Charles Nehme , The design of an HVAC ducting system is both an art and a science A well designed system ensures optimal airflow distribution energy efficiency and most importantly a noise free indoor environment However many HVAC systems suffer from common issues such as inefficient airflow excessive pressure drops and unwanted noise problems that stem from poor duct design choices In this book *How to Design HVAC Ducting System Layout for Efficiency and No Sound* I aim to bridge the gap between theory and practical application Whether you are an HVAC engineer designer contractor or facility manager this book will serve as a comprehensive guide to designing ducting systems that maximize efficiency while eliminating noise related disturbances Throughout my career in HVAC engineering I have encountered countless projects where poorly designed duct layouts led to excessive energy consumption comfort issues and customer complaints about noise By applying the principles outlined in this book such as proper duct sizing strategic routing airflow balancing and sound attenuation techniques you can design systems that not only perform efficiently but also operate quietly This book is structured to take you through each aspect of duct design starting from airflow fundamentals and duct material selection to advanced noise control strategies and smart system optimizations Practical case studies and troubleshooting tips are also included to help you avoid common pitfalls and implement best practices By the end of this book you will have the knowledge and confidence to design HVAC ducting systems that deliver efficiency comfort and silence meeting both technical and occupant satisfaction requirements Let s

begin the journey toward smarter quieter and more efficient HVAC duct design Charles Nehme HVAC Consultant Author

Duct Systems Design Guide Herman Behls, 2021 Provides engineers and other design professionals with the tools and knowledge to design duct systems so that fans are properly sized minimize the installed cost of the ductwork minimize system generated noise and minimize the fan energy consumption of commercial and industrial duct systems **HVAC**

Duct System Design, 1981 *The Structural Design of Air and Gas Ducts for Power Stations and Industrial Boiler*

Applications, 1995-01-01 From the selection applications and properties of various structural materials to the maintenance examination of existing duct systems this committee report reviews the structural analysis and design of air and flue gas ductwork for power stations and large industrial boiler applications Written by and for structural and mechanical engineers the book begins with an overview of major ductwork equipment ductwork arrangement and behavior such as thermal expansion internal trusses and struts and the effects of the arrangement on loads Plate design and stiffener location drawing fabrication and construction techniques the affects of insulation and lagging on the structural design of ducts are among the issues addressed **Residential Duct Systems** Hank Rutkowski, 2011 **HVAC Duct System Design**, 1977 **HVAC**

Duct System Design Sheet Metal and Air Conditioning Contractors' National Association, 1977 Diagnosing Airflow Issues in Ducts and Vents Charles Nehme, Airflow is the lifeblood of any HVAC system Properly designed and maintained ductwork ensures comfort energy efficiency and optimal system performance Yet airflow issues in ducts and vents are among the most common and frustrating challenges faced by homeowners facility managers and HVAC professionals alike This book was born out of years of field experience addressing airflow problems across a diverse range of HVAC systems in residential commercial and industrial settings From simple obstructions to complex system imbalances the issues may vary but the principles of diagnosis remain the same In these pages I aim to provide a comprehensive guide to identifying and resolving airflow problems in ducts and vents You ll find practical advice diagnostic techniques and illustrative case studies to help you navigate the complexities of airflow management Whether you re an HVAC technician a building manager or simply a curious homeowner this book will equip you with the knowledge to troubleshoot and improve airflow performance By understanding the root causes and implementing effective solutions you can ensure a healthier more efficient and comfortable environment

Let s get started on the journey to mastering airflow diagnostics Charles Nehme HVAC Systems Duct Design Sheet Metal

and Air Conditioning Contractors' National Association (U.S.), 1981 **Hvac Duct System Design**, 1977 Structural

Design of Air and Gas Ducts for Power Stations and Industrial Boiler Applications Air and Gas Duct Structural Design

Committee, 2020 Abstract Prepared by the Air and Gas Duct Structural Design Committee of the Energy Division of ASCE Structural Design of Air and Gas Ducts for Power Stations and Industrial Boiler Applications Second Edition assists structural engineers in the layout and performance of the structural analysis and design of air and flue gas ductwork for natural gas coal oil reciprocating internal combustion engines RICE and all other fossil fuel power stations and industrial

boiler applications Air and flue gas ducts are unique structures yet the structural analysis and design of ductwork is not currently addressed or governed by any national code or design standard Topics include Flow damper and expansion joint ductwork arrangement considerations and impacts on the structural design Material selection behavior and performance of carbon steel stainless steel and alloys for elevated temperatures and in corrosive environments including creep rupture temper embrittlement and graphitization phenomena Air and flue gas ductwork unique loading cases and means of considering these loads in ASD and LRFD load combinations Truss and finite element structural analysis modeling techniques Strength design methods incorporating the AISC stability requirements P delta impacts Longitudinal tangential and hoop stress considerations for the design of circular ductwork Thermal and vibration considerations including thermal gradients and vortex shedding of internal elements Thermal insulation systems Toggle duct behavior and expansion joint considerations and Structural assessment and reinforcement of ductwork as a result of changing operating conditions or ductwork modification This fully updated report also discusses drawing and specification content fabrication and construction techniques and considerations duct support means and special considerations regarding the design of duct support structures Preventative maintenance examinations and inspections for the purpose of condition assessment and ascertaining the structural integrity of the ducts also are discussed This new edition will be a valuable tool for structural engineers to understand the structural behavior of a duct system and in analyzing and designing its many structural components *HVAC Duct System Design Tables & Charts* ,1981

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