



## DUCT SYSTEM DESIGN CONSIDERATIONS Part 1

by Roger M Hensley, CMS

### TYPES OF SUPPLY DUCT SYSTEMS

There are several basic types of supply and return duct systems. Any one of the system types, or a combination of different types, can be utilized to fit the needs of a particular structure. The general types of supply duct systems include:

- radial system
- extended plenum system
- reducing plenum system
- reducing trunk system
- perimeter loop system.

#### Radial system

The radial duct system in its simplest form consists of a central supply plenum that feeds a number of individual branch ducts arranged in a generally radial pattern (see Figure 1). It also can be designed and sized so that each individual run leaving the plenum can feed two or more supply outlets. This is frequently the case because of the number of supply outlets required to condition the structure successfully and the amount of space at the plenum available for takeoffs. The radial system commonly is applied in attics, crawl spaces, and in slab on grade installations (with the ducts embedded in the slab). It can be used with upflow, downflow, or horizontal air handlers and furnaces.

#### Extended plenum system

The extended plenum duct system (see Figure 2 on the next page) generally consists of one or two box-like pieces of ductwork extending from the main

plenum at the indoor unit. This extended plenum has the same dimensions (height and width) from the starting collar to the end of the run. Branch runs to feed the supply outlets are tapped into the extended plenum(s). The best results are achieved when the maximum length of the extended plenum is not greater than 24 ft from the air handler or furnace. If two plenums are used, this total length can be extended to 48 ft (see Figure 3 on the next page). If longer distances are required based on the physical layout of the structure, consideration should be given to using one of the other designs discussed below (such as the reducing plenum or the reducing trunk duct system). There is another area of concern with the extended plenum system—because of the higher velocities in the plenum, it is possible that the branches closest to the indoor blower may not feed the desired amount of air (cfm).

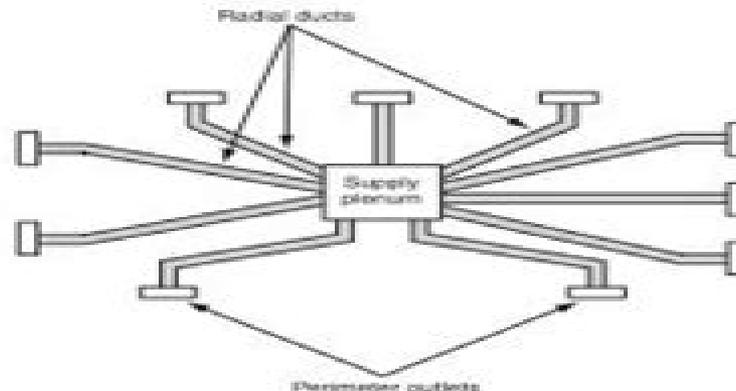


Figure 1. Radial duct system

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**Hank Rutkowski**



## **Duct System Design Considerations Resources:**

**Building Systems Design**, 1961    **New Scientist**, 1978-10    **ASHRAE Journal**, 1992    *Government Reports Announcements & Index*, 1978    **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

**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    **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    **Residential Duct Systems** Hank Rutkowski, 2011    [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 **Mastering Duct Design for HVAC Systems**

Charles Nehme, Welcome to the world of duct design Whether you re an engineer embarking on your career in HVAC systems a contractor seeking to refine your craft or an architect aiming for a deeper understanding of building systems this book is your guide to mastering the art and science of ductwork Efficient and effective duct design is the invisible backbone of a comfortable and healthy indoor environment It ensures the conditioned air warm or cool reaches the right spaces in the right quantities Yet duct design can often be an under appreciated aspect of HVAC systems Poorly designed ducts can lead to a cascade of problems from wasted energy and discomfort to noise complaints and even code violations This book aims to bridge that gap We ll delve into the fundamentals of airflow duct materials and pressure drop calculations equipping you with the core knowledge for effective design But knowledge alone isn t enough We ll explore practical applications guiding you through the specific considerations for residential commercial and industrial buildings You ll learn how to optimize airflow minimize noise and prioritize energy efficiency in your designs This book is not just about the mechanics it s about the bigger picture We ll discuss the latest trends and technologies shaping the future of duct design from sustainable materials to powerful design software We ll also explore the critical role of codes and standards in ensuring safe and efficient systems By the end of this journey you ll be equipped to design ductwork that not only meets technical requirements but also delivers optimal comfort minimizes environmental impact and aligns with best practices So grab your pencil or fire up your design software and let s embark on this exploration of the fascinating world of duct design **HVAC Duct System Design** ,1981

HVAC Systems Duct Design Sheet Metal and Air Conditioning Contractors' National Association (U.S.),1981 HVAC Systems Duct Design Smacna,2006 *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 *HVAC Duct System Design* Sheet Metal and Air Conditioning Contractors' National Association,1977 *HVAC Duct System Design* ,1977 *Hvac Duct System Design* ,1977 **Commercial Low Pressure, Low Velocity Duct System Design** Hank Rutkowski,1990 **HVAC Duct System Design Tables & Charts** ,1981 *Residential Duct Systems* Ronald K. Yingling,Donald F. Luebs,Ralph J. Johnson,1981

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