



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).

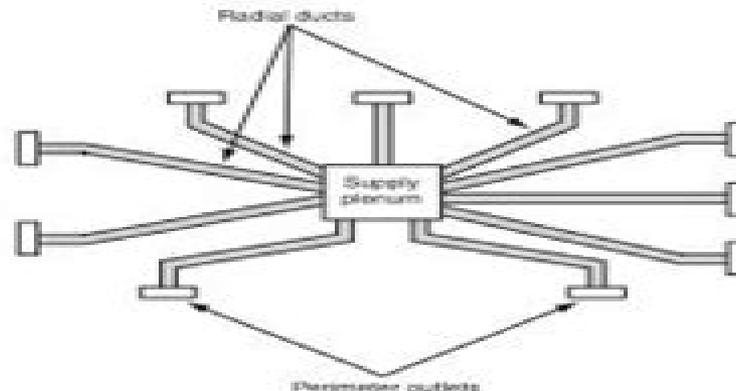


Figure 1. Radial duct system

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**Sheet Metal and Air Conditioning
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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 **ASHRAE Design Guide for Duct Systems** Herman Behls, 2019 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. *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 underappreciated 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.

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

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 [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, 1977 **HVAC Duct System Design**
Sheet Metal and Air Conditioning Contractors' National Association, 1977 **Residential Duct Systems** Ronald K.
Yingling, Donald F. Luebs, Ralph J. Johnson, 1981 HVAC Duct System Design Tables & Charts, 1981 *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 - Design of Air-Conditioning Ducts** A. Bhatia,2014-08-29 HVAC ducts can be best described as arteries of the central air conditioning system These play an important role in keeping the whole HVAC system fit and achieving comfortable conditions throughout its life span Defects in a duct system can waste hundreds of dollars a year by forcing your HVAC system to run longer than necessary Ductwork problems also make certain rooms too hot or too cold at different times of the year while introducing dirt and bad odors into your forced air system This book is a short course on HVAC duct design and fundamentals The book includes a multiple choice quiz at the end which is designed to enhance the understanding of the course content

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