

# Read Book Static Regain Method Duct Design

## Static Regain Method Duct Design

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service.

Umrah Khan -  
????????? ???????  
????????? | ??? ?????  
????????? ...

The equal friction  
method for sizing air  
ducts is often preferred

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because it is quite easy to use. The method can be summarized to.

Compute the necessary air volume flow ( $\text{m}^3/\text{s}$ , cfm) in every room and branch of the system;

Use 1) to compute the total air volume ( $\text{m}^3/\text{s}$ , cfm) in the main system;

Determine the maximum acceptable airflow velocity in the main duct

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VAV System Duct Main Design - Taylor Engineering  
Proposed HVAC System Using Vari-Flow & VAV Diffusers And Regain Duct Design For California State Office Building 8 & 9 Renovation. The proposed system eliminates the use of dual duct VAV boxes. The building is exposure

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zoned as illustrated. A primary thermostat for each zone controls the four perimeter zones.

Duct System Design  
Guide - McGill AirFlow

BACK TO BASICS:

DUCT DESIGN . ...

- Duct Sizing Tools and Methods
- Recommended Duct Velocities and Noise Effects
- Duct Fitting

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Pressure Losses • Do  
and Don'ts of Duct  
Design • Duct  
Applications • AS 4254 .  
... Static Regain •  
Supply air only •  
Decrease in velocity  
pressure

SMACNA Technical  
Service - [utahashrae.org](http://utahashrae.org)  
Static Regain Method  
Duct Design Static  
regain - Method for



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Duct Design Whenever there is an enlargement in the cross-sectional area of the duct, the velocity of air decreases, and the velocity pressure is converted into static pressure. The increase in static pressure due to a decrease in velocity pressure is known as static regain.

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Regain Method  
Duct Design

Duct Design, Level 1:  
Fundamentals

Duct System Design  
Guide First Edition

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Duct System Design i

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means — graphic, electronic, or mechanical, including photocopying,

HVAC: Handbook of Heating, Ventilation and Air Conditioning  
Static regain method for duct sizing can be effective in certain applications. Sizing is counter-intuitive, however. As air is

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distributed off the main duct, the duct stays the same size, or actually increases in size. On occasion, this will aid to deliver more air to the end of overly long or contorted ductwork runs.

Existing Duct Sizing  
Methods

Design of Ductwork  
Systems Agenda 09:15

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Arrival - Registration /  
coffee / tea 09:30

Session 1 Introduction

Duct Sizing Methods:

Relationship between

volume, size, air velocity

and resistance Static,

velocity and total

pressures and pressure

diagram Constant

friction, constant

velocity and static

regain methods

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Design of Ductwork  
Systems - 2020

- Stairwell

Pressurization System  
Design, Duct Designing

By Equal Friction

Method, Velocity

Reduction Method,

Static Regain Method

Following SMACNA

Standards. • ESP

calculations for fans,

blowers and evaporator

cooling coil selection. •

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Designing of Toilet,  
Kitchen Ventilation and  
Stairwell Pressurization  
System. ??? ?????? ???  
...

Static Regain:  
Forgotten HVAC  
Software Feature -  
Design ...  
The Static Regain  
method of duct sizing is  
based on Bernoulli's  
equation, which states

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that when a reduction of velocities takes place, a conversion of dynamic pressure into static pressure occurs. This is used as the major principle for sizing the ducts so that the increase in static pressure at each branch offsets the friction loss in the succeeding section of the duct.



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Ductwork sizing, calculation and design for efficiency ... the static pressure loss due to friction in that section is offset by the static pressure regain resulting from a reduction in duct velocity at the beginning of that section. Neither method has a strong rationale for why it should be used to size ducts!

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Clearly, there is no intrinsic value to having the same

HVAC - How to Size and Design Ducts

- Duct Design –Static Regain ... Duct Design Fundamentals Static Pressure (ps) •Measure of the static energy of air flowing •Air which fills a balloon is a good example of static

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pressure • Equally exerted in all directions  
• The atmospheric pressure of air is a static pressure = 14.696 psi at sea level. ...

Static Regain - BCH  
Mechanical, Inc.  
8-9 Duct System Design  
8-9 Design  
Considerations 8-12  
Duct Design Methods  
8-13 Duct Design

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Procedures 8-13  
Automated Duct Design  
8-14 Duct Fitting  
Friction Loss Example  
8-14 Equal Friction  
Method Example 8-15  
Resistance in Low  
Pressure Duct System  
Example 8-15 Static  
Regain Method Example  
8-17 Fitting Loss  
Coefficients

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Static Regain Method  
Duct Design

Static regain - Method  
for Duct Design.

Whenever there is an enlargement in the cross-sectional area of the duct, the velocity of air decreases, and the velocity pressure is converted into static pressure. The increase in static pressure due to a decrease in velocity

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pressure is known as static regain. In an ideal case, when there are no pressure losses, the increase in static pressure ( $\Delta p_s$ ) is exactly equal to the decrease in velocity pressure ( $\Delta p_v$ ) and the total pressure ( $p_t$ ) remains ...

BACK TO BASICS:

DUCT DESIGN

The Static Regain

*Page 22/30*

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method [1] is widely used by practising HVAC engineers. Most duct design software packages incorporate this method and it is described in virtually every duct design text book 2, 3, 4, 5, 6, 7, 8, 9, 10. Conceptually it is easy to understand and the calculations can be done by hand.

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Static regain - Method  
for Duct Design -  
Ques10

Static Pressure is the pressure that causes air in the duct to : flow. Static pressure is the outward push of air against duct surfaces and is a measure of resistance when air moves through an object like duct work.



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Measured in inches of water column (in-wc), it acts equally in all directions and is independent of velocity.

2. Velocity pressure

HVAC System Designs for VAV Diffusers - Static Pressure ... static regain, is presented in the related TDP-505, Duct Design, Level 2. Although many

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other duct sizing methods exist (e.g. velocity reduction, T-method, extended plenum, constant velocity, static regain), none are widely used by designers and are beyond the scope of this training module.

Problems with the Static  
Regain method -  
ScienceDirect

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Much more complex than equal friction, static regain can be used to design systems of any pressure or velocity. Duct velocities are systematically reduced over the length of the distribution layout, which allows the velocity pressure to convert to static pressure, offsetting friction losses in the

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succeeding section of duct.

Static Regain Method  
Duct Design -  
[amber.greekdiaries.me](http://amber.greekdiaries.me)  
Methods of ductwork design. There are many different methods used to design ventilation systems, the most common ways being:  
Velocity reduction  
method: (Residential or

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small commercial installations) Equal friction method: (Medium to large sized commercial installations) Static regain: Very large installations (concert halls, airports and industrial)

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