

Static Regain Method Duct Design

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StaticRegain.net - Your Complete Source for Static Regain

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BACK TO BASICS: DUCT DESIGN • Duct Sizing Tools and Methods • Recommended Duct Velocities and Noise Effects • Duct Fitting Pressure Losses • Do and Don ' ts of Duct Design • Duct Applications • AS 4254 Static Regain • Supply air only • Decrease in velocity pressure

Static Regain: Forgotten HVAC Software Feature - Design ...

Methods of ductwork design. There are many different methods used to design ventilation systems, the most common ways being: Velocity reduction method: (Residential or small commercial installations)

Equal friction method: (Medium to large sized commercial

installations) Static regain: Very large installations (concert halls, airports and industrial)

[Titus Timeout Podcast - What is Static](#)

[Regain?Video 15: Methods of Duct sizing](#)

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[\(HD\) how to use friction chart for duct](#)

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[Mapping Demonstration How to Calculate Air](#)

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[Sizing Step By Step With McQuay Duct Sizer](#)

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[CALCULATION Calculating Cooling Loads and](#)

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Velocities Duct Sizing (using equal friction method)

What is Static Regain? This design methodology sizes the supply duct system to obtain uniform static pressure at all branches and outlets. 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 succeeding section of duct.

Existing Duct Sizing Methods - Lawrence Berkeley National ...

Uni-Duct software employs the static regain design method enhanced by the total pressure method to design efficient supply systems. It creates static regain designs, analyzes pressure requirements, and determines a system's design leg or critical path (path of maximum static pressure requirement).

Problems with the Static Regain method - ScienceDirect

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 pressure is known as static regain. In an ideal case, when there are no pressure losses, the increase in static pressure (Δp_s) is exactly equal to the decrease in velocity pressure (Δp_v) and the total pressure (pt) remains ...

[Titus Timeout Podcast - What is Static Regain? - YouTube](#)

What is Static Regain? - StaticRegain.net

Static regain design provides a cost savings by efficiently moving air.

Installation time is reduced compared to rectangular ductwork.

Labor costs can be drastically reduced. See if static regain will

increase your next project's Profit margins.

[Ductwork sizing, calculation and design for efficiency...](#)

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 succeeding section of duct.

Ductwork Design Program | Energy-Models.com

The equal friction method for sizing air ducts is often preferred because it is quite easy to use. The method can be summarized to. Compute the necessary air volume flow (m^3/s , cfm) in every room and branch of the system; Use 1) to compute the total air volume (m^3/s , cfm) in the main system; Determine the maximum acceptable airflow velocity in the main duct

[Static Regain Method Duct Design | hsm1.signority](#)

Tsal developed a life-cycle cost-based duct design method called the T-method. 6. in the 1980s, but its simplified techniques for calculating both first costs and energy costs were deemed to be so inaccurate, the T-method was removed from Chapter 21 in 2013. Instead, Chapter 21 lists two duct sizing methods: Equal Friction (EF).

[Static regain - Method for Duct Design - Ques10](#)

Static regain is the third sizing method for ductwork included in Design Master HVAC. It is most often used in the high pressure ductwork between the main AHU and the VAV boxes. The calculation works by keeping the static pressure

in the ductwork constant throughout the system. The air velocity is decreased so that the velocity pressure drop matches the total pressure drop in the system. Sizing ductwork using the static regain method results in small ducts and a system that is nearly ...

[VAV System Duct Main Design - Taylor Engineering](#)

This week's topic answers the question, "What is static regain?"

[PDH Courses Online. PDH for Professional Engineers. PDH ...](#)

The Static Regain method of duct sizing is based on Bernoulli's equation, which states that when a reduction of velocities takes place, a conversion of dynamic pressure into static pressure occurs.

Duct Sizing - Equal Friction Method

The basic principle of the static regain method is to size a duct run so that the increase in static pressure at each take off just offsets the loss due to friction in the succeeding section of duct. Static regain the air remains constant as it travels through a diverging section of duct from A to B. Now $P_{total} = P_{static} + P_{velocity}$.

BACK TO BASICS: DUCT DESIGN - AIRAH

[Titus Timeout Podcast - What is Static Regain?](#)[Video 15: Methods of Duct sizing](#)[Ductwork Design Webinar](#) duct design methods [HVAC DUCT DESIGNING - EQUAL FRICTION METHOD](#)[HVAC Duct Design Explained - HVAC Simplified \(HD\)](#) how to use friction chart for duct design Static Regain [Duct Design \u0026 Numerical Method of Duct Design 8 Minute HVAC - Duct Pressure Overview](#) [Duct Design:- The complete course](#) [Static Pressure Explained](#) [Static Pressure Testing and Mapping Demonstration](#) [How to Calculate Air Changes per Hour CFM \u0026 Air Flow](#) [HVAC DESIGNING CLASS 1](#) [Titus Timeout Podcast - Supply, Return, Ventilation, and Exhaust Air](#) [Air Duct Calculators \(Ductulator\)](#) [Duct Sizing Step By Step With McQuay Duct Sizer](#) [EXTERNAL | STATIC | PRESSURE | ESP | CALCULATION](#) [Calculating Cooling Loads and Room CFM](#) [System Design - Duct Sizing PART 4](#) [DIFFERENT METHOD OF DUCT DESIGN](#) [Problem on Duct Design](#) [Duct Design \u0026 Sizing for a Particular System using \(Equal Friction Method\)](#) [HVAC online Training - HVAC Mechanical Engineer Interview 70 Question \u0026 Answers](#) [Problem Solving Sizing Rectangular Duct Based on Recommended Velocities](#) [Duct Sizing \(using equal friction method\)](#)

McGill AirFlow LLC

Static Regain Sizing Method For this method, a section of the duct system is sized so that the increase in static pressure due to velocity reduction from its upstream section, offsets the friction loss in the section. As in the other sizing methods, the program starts sizing with the first section.

Static Regain Method Duct Design

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DESIGN OF AN EFFETIVE LOW PRESSURE VAV AIR DISTRIUTION SYSTEM

The Static Regain method is widely used by practising HVACfn2engineers. 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.

Static Regain - BCH Mechanical, Inc.

01-04-21 - Panama Canal: History, Design and Lessons Learned 01-05-21 - Introduction to Control and Instrumentation 01-06-21 - Construction Management Primer 01-07-21 - Biological Wastewater Treatment I: Activated Sludge . [View All Webinars](#)

The velocity and pressure classification of ductwork; Application of various materials and shapes that provide the most cost effective alternative; Various supply air duct configurations; The various duct sizing methods - velocity method, equal friction method or static regain method; The interaction between fan and duct system