

A jumper duct balances pressure by allowing air to flow between the great room and the master bedroom.

The range hood exhausts cooking odors through a roof vent.

The ERV supplies fresh air to the main living space and exhausts stale air from the kitchen and bathrooms.

Stale air is exhausted by the ERV through a gable vent on the opposite side of the house from the fresh air intake.

Dehumidifier

Heat pump

Whole-house air purifier

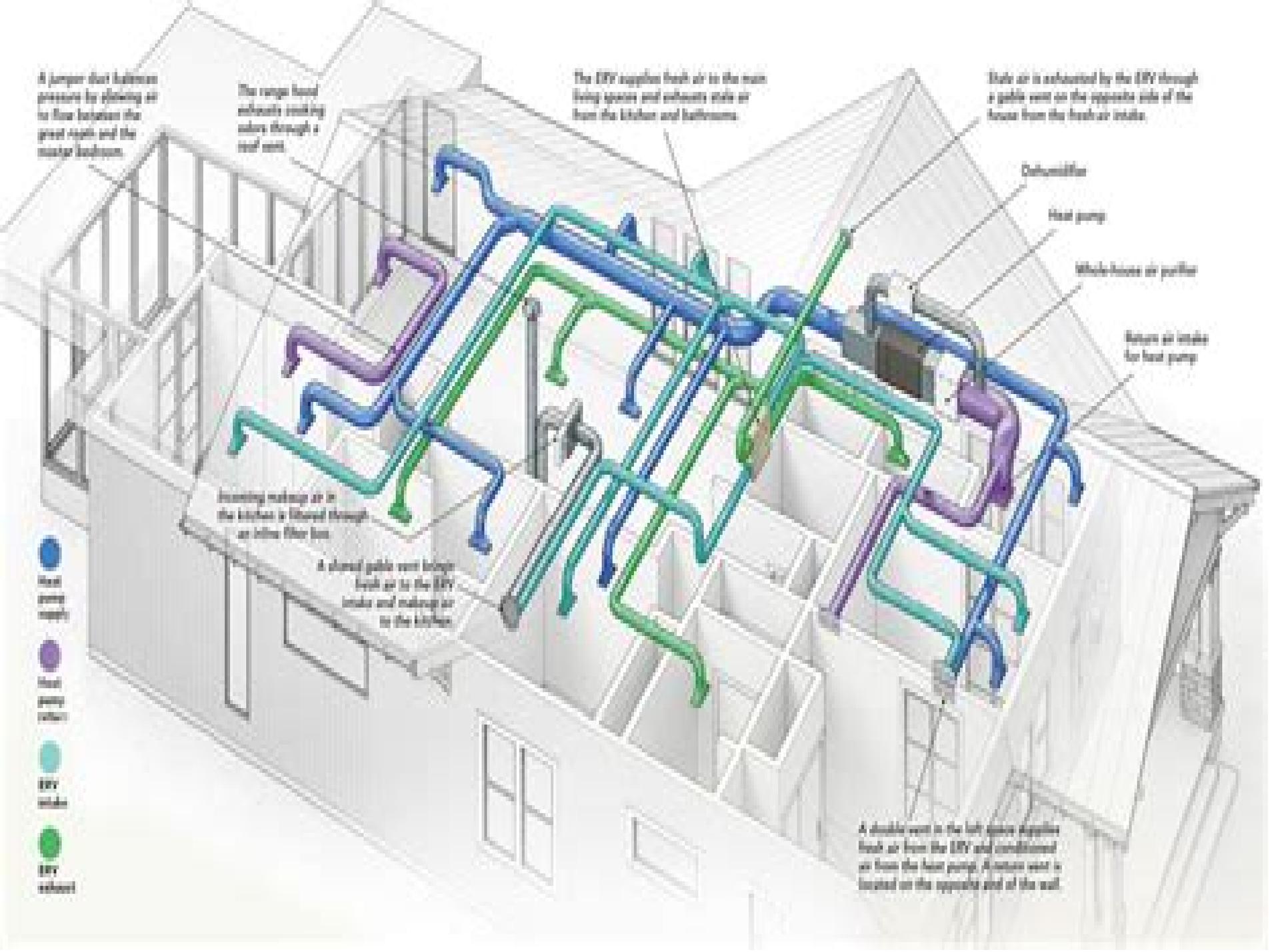
Return air intake for heat pump

Incoming makeup air in the kitchen is filtered through an ultra-fine filter.

A closed gable vent brings fresh air to the ERV intake and makeup air to the kitchen.

A double vent in the left space supplies fresh air from the ERV and conditioned air from the heat pump. A return vent is located on the opposite end of the wall.

-  ERV intake
-  ERV exhaust
-  ERV supply
-  ERV exhaust



# Hvac System Design Guide

**Michael Myers, Roger Haines**



## Hvac System Design Guide:

Air-conditioning System Design Manual Walter T. Grondzik, 2007 The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems It is also usable in conjunction with fundamental HVAC R resource material as a senior or graduate level text for a university course in HVAC system design The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components This second edition represents an update and revision of the manual It now features the use of SI units throughout updated references and the editing of many illustrations Helps engineers quickly come up with a design solution to a required air conditioning system Includes issues from comfort to cooling load calculations New sections on Green HVAC systems deal with hot topic of sustainable buildings

HVAC Systems Design Handbook, Fifth Edition Michael Myers, Roger Haines, 2009-10-09 A complete fully revised HVAC design reference Thoroughly updated with the latest codes technologies and practices this all in one resource provides details calculations and specifications for designing efficient and effective residential commercial and industrial HVAC systems HVAC Systems Design Handbook Fifth Edition features new information on energy conservation and computer usage for design and control as well as the most recent International Code Council ICC Mechanical Code requirements Detailed illustrations tables and essential HVAC equations are also included This comprehensive guide contains everything you need to design operate and maintain peak performing HVAC systems Coverage includes Load calculations Air and fluid handling systems Central plants Automatic controls Equipment for cooling heating and air handling Electrical features of HVAC systems Design documentation drawings and specifications Construction through operation Technical report writing Engineering fundamentals fluid mechanics thermodynamics heat transfer psychrometrics sound and vibration Indoor air quality IAQ Sustainable HVAC systems Smoke management

Small HVAC System Design Guide Pete Jacobs, Architectural Energy Corporation, California Energy Commission. Public Interest Energy Research Program (PIER), New Buildings Institute, Inc, 2003

HVAC Systems Design Handbook Roger W. Haines, C. Lewis Wilson, 1994 The all in one book that will help identify new solutions in HVAC systems applications Table of Contents HVAC Engineering Fundamentals Design Procedures Load Calculations Design Procedures General Concepts for Equipment Selection Air Handling Systems Fluid Handling Systems Automatic Controls Cooling Heating Air Handling Electrical Features of HVAC Systems Design Documentation and Follow Up Technical Report Writing and Specifications Writing Index Illustrations

Heating, Ventilating, and Air-conditioning Design Guide for Department of Energy Nuclear Facilities, 1993 Learn to design HVAC systems for nuclear facilities that meet DOE criteria This is the only definitive guide that currently exists with respect to HVAC design Information that will satisfy code and regulatory requirements contributions from contractor reps from each of the seven major DOE sites and specific recommendations for points of confusion that have existed for over 20 years

**HVAC Design**

**Guide for Tall Commercial Buildings** Donald E. Ross,2004 Tall commercial office buildings present a series of design problems that differ from those that are found in other projects in the built environment HVAC Design Guide for Tall Commercial Buildings provides guidance in both understanding the HVAC design problems of tall commercial office buildings and in detailing their alternative solutions

**The Building Environment** Vaughn Bradshaw,2010-09-29 Get the updated guide to active and passive control systems for buildings To capitalize on today s rapidly evolving specialized technologies architects designers builders and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building The Building Environment Active and Passive Control Systems Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort safety and energy efficiency of buildings From active HVAC systems to passive methods lighting to on site power generation this updated edition explains how to strategically plan for and incorporate effective efficient systems in today s buildings It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world s environment The Building Environment goes beyond the ABCs of HVAC and covers On site power generation including wind turbines solar photovoltaic cells fuel cells and more Plumbing systems fire protection signal systems conveying systems and architectural acoustics Procedures and or formulas for performing heat loss heat gain and energy use calculations determining the rate of heat flow calculating solar energy utilization doing load calculations and more Details on the latest building codes and standards references New information on the sustainable design of building systems and energy efficiency including new technologies The latest thinking and data on a building s impact on the environment indoor air quality and sick building syndrome Design economics including the payback period life cycle cost comparative value analysis and building commissioning A practical on the job tool for architects designers builders engineers contractors and other specialists this Third Edition is also a great reference for architecture students who will lead tomorrow s design teams

HVAC Design Sourcebook W. Larsen Angel,2011-11-07 THE DEFINITIVE GUIDE TO HVAC DESIGN This practical manual describes the HVAC system design process step by step using photographs drawings and a discussion of pertinent design considerations for different types of HVAC components and systems Photographs of HVAC components in their installed condition illustrate actual size and proper configuration Graphical representations of the components as they should appear on construction drawings are also included Learn how to design HVAC systems accurately and efficiently from this detailed resource HVAC DESIGN SOURCEBOOK COVERS The design process HVAC load calculations Codes and standards Coordination with other design disciplines Piping valves and specialties Central plant equipment and design Air system equipment and design Piping and ductwork distribution systems Terminal equipment Noise and vibration control Automatic temperature controls Construction drawings

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