

## What makes SpacePak such a breath of fresh air

The basic difference between SpacePak and other air conditioning systems is the way SpacePak actively circulates air within the room and throughout the structure's entire living/working space. Circulating the air more effectively is what makes a home with SpacePak central air so uniformly comfortable: no cold or warm spots, no drafts, more humidity removed. Conventional central air systems merely drop cold air in at the ceiling; the distribution of cool air is haphazard, leading to over-cooling in some spots and drafts in others. Window units or mini-splits require noisy fans within the living space to blow the air around, and there is no overall circulation of the home's air.

## How SpacePak does what it does

A central cooling system designed to actively circulate air can use smaller ducts than conventional systems; a smaller duct diameter keeps the air moving consistently—like pouring water from a pitcher. This smaller duct allows SpacePak to use flexible tubing to distribute the air instead of bulky sheet metal ductwork.

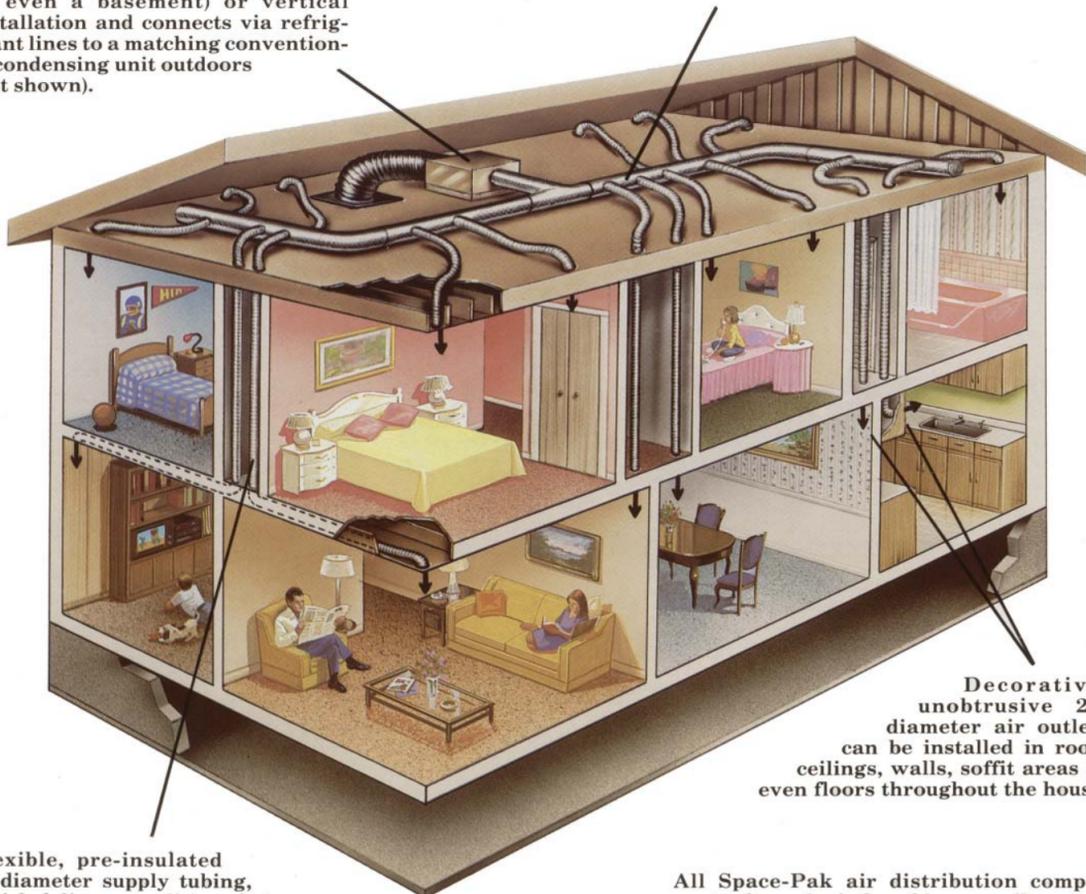
This tubing is seamless, so it doesn't waste energy through leaks like sheet metal. And it's flexible, so passages have no corners to accumulate dust, pollen, or mold. The tubing's narrow diameter allows it to be placed in the spaces behind walls, floors, and ceilings: it can be installed with virtually no disruption to livability, nor to interior architectural features.

# SPACEPAK®

A MESTEK COMPANY

Deluxe, compact, blower coil unit, which produces cool, conditioned air, can be located in nearly any horizontal application (like an attic as shown or even a basement) or vertical installation and connects via refrigerant lines to a matching conventional condensing unit outdoors (not shown).

Pre-assembled, pre-insulated plenum, which can be installed in nearly any manner or direction to fit a home's structure or shape, delivers the conditioned air to individual room supply tubing.



Flexible, pre-insulated 2"-diameter supply tubing, which delivers conditioned air to each room, can be threaded from floor to floor through closets, between wall studs or ceiling joists.

Decorative, unobtrusive 2"-diameter air outlets can be installed in room ceilings, walls, soffit areas or even floors throughout the house.

All Space-Pak air distribution components, from the indoor blower coil to each room air outlet, are simply snapped and locked together for a sealed, long-lasting, air-tight installation.

## A system you build around the space you have... or want

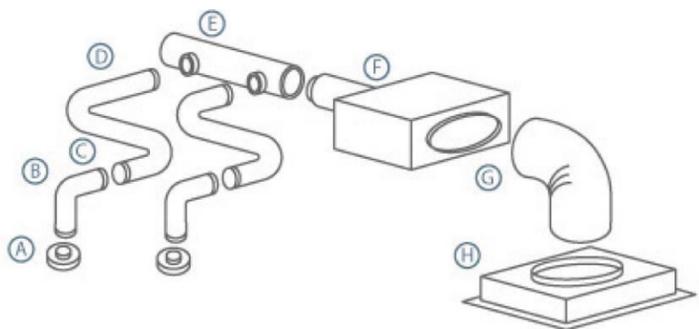
SpacePak can be installed into either new construction or an existing structure. Either way, the simplicity of SpacePak's sized-to-fit tubular ducts requires just a fraction of the installation time/cost associated with having sheet metal ductwork fabricated and installed. No other company has more experience designing and building central air systems with the flexibility to fit into virtually any building. SpacePak is ideal for:

- historic buildings
- buildings without existing ductwork
- buildings that utilize radiant heat systems
- open floor plans
- log homes
- brownstones or row houses
- lofts
- additions
- modular homes

## The basics of a SpacePak system

While every installation is configured specially to the individual home's unique requirements, fundamentally the SpacePak system consists of the following components as labeled in the diagram below. Each one is briefly described below.

- A. Outlets
- B. Sound Attenuators
- C. Kwik Connects
- D. Flexible Ducts
- E. Plenum
- F. Fan Coil Unit
- G. Return Air Duct
- H. Return Air Box/PurePak Air Cleaner (optional)



A. Outlets: How the conditioned air enters the living space. These 5" diameter outlets (the size of a music CD; much smaller than conventional register grilles) can be placed in the ceiling, wall, or floor.

B. Sound Attenuators: Short lengths of flexible, baffled tubing to help make the SpacePak system even more quiet.

C. Kwik Connects: A no-tools-required system that quickly and easily joins the flexible ducts to sound attenuators and the plenum. Kwik Connects virtually eliminate leakage, improving efficiency, and greatly reduce install time.

D. Flexible Ducts: These flexible, narrow, tubular ducts enable SpacePak to bring central air throughout the house within the normal space between walls, ceilings, or floors: no extensive renovation work. The number of ducts required depends on the number of rooms and building size.

E. Plenum: Carries air to the different ducts which distribute it throughout the house. The plenum fits within the attic, basement, or crawl space where the fan coil unit is installed.

F. Fan Coil Unit: The fan distributes air through the plenum; the coils cool (or heat and cool) the air, depending on individual needs and system configuration. Connects to external condenser for cooling; SpacePak is compatible with most condenser brands.

G. Return Air Duct: Supplies air to the fan coil unit as the SpacePak system circulates air throughout the house.

H1. Return Air Box: Allows air to circulate from the living space to the fan coil unit. Typical installations require only one return air box per house.

H2. PurePak Air Cleaner (optional): A patented design that replaces the standard return air box. While 4–6" pleated filters are not effective at removing contaminants smaller than three microns (such as bacteria, auto exhaust, cooking smoke, dust, or paint pigments), PurePak captures contaminants as small as 0.3 microns with 97% effectiveness.