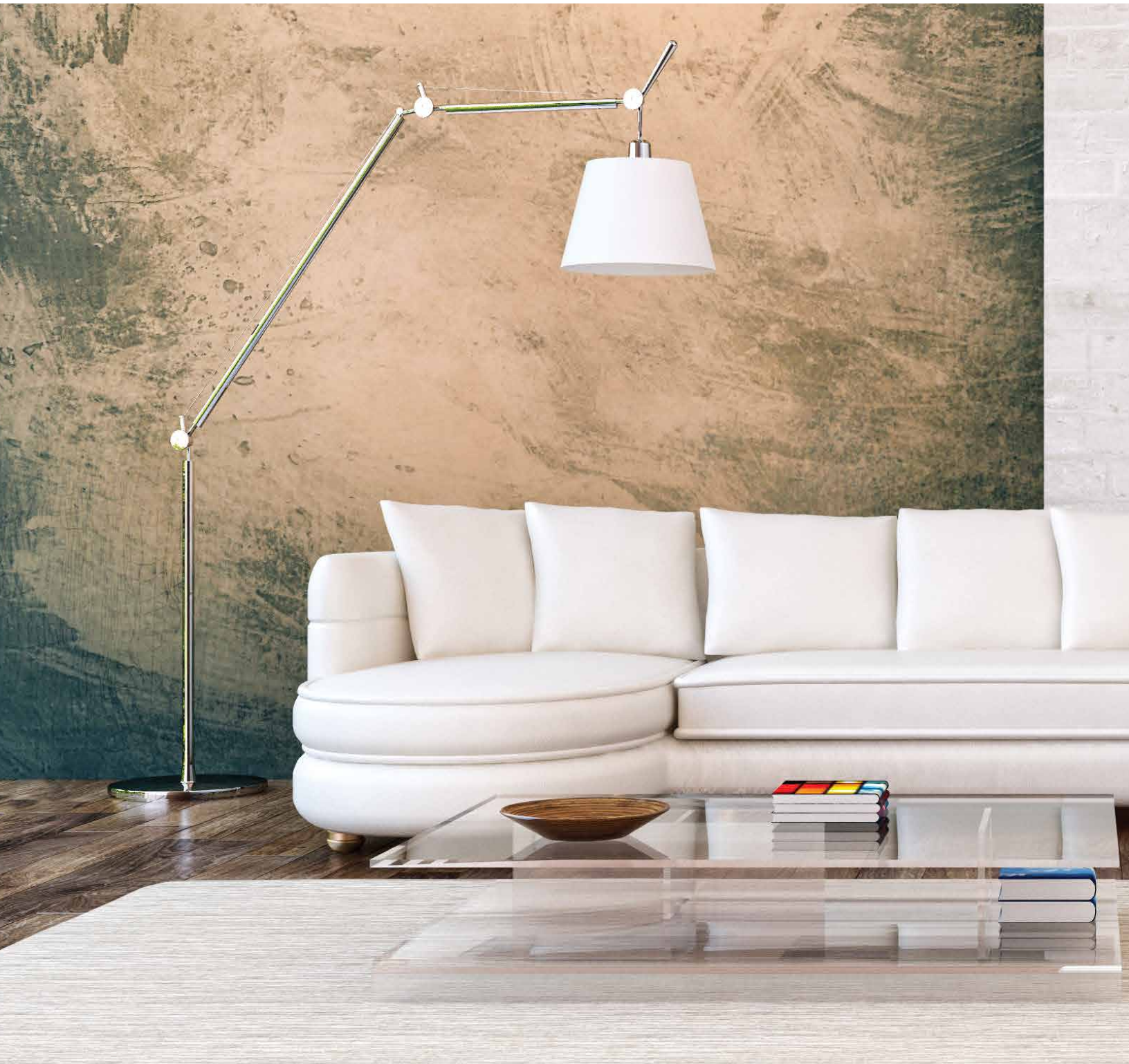




Ventilation Solutions

Fresh Air Solutions for Ductless Heating & Cooling





We can fill your home with healthy, fresh air

Indoor Air Pollution is real, and it can pose a number of problems for your home, your loved ones and pets.

We know the secret of proper ventilation.

Proper Ventilation

The Environmental Protection Agency (EPA) estimates that the air in your home can be as much as 10 times more polluted than outside air.

What it means to you

Good ventilation protects you, your family, and your guests from unpleasant odors, irritating pollutants, and potentially dangerous gases like carbon monoxide.

A well-designed and properly operated ventilation system also prevents the growth of mold and mildew, which can cause or aggravate allergic reactions and lung problems such as asthma. Because people generally spend about 90% of their time inside, indoor air pollution can actually be a bigger health risk than outdoor air pollution.

What it means to your home

Good ventilation protects your home from damage by working to eliminate excess moisture from the air. Too much moisture rots window sills and attic eaves, peels paint, and invites insect infestation. Damp insulation in walls and ceilings means lost heat, higher fuel bills, and destructive mold growth. Carpeting, wallpaper, electronic equipment, and furniture can all be damaged by excess moisture.

Proper Filtration

Air pollution isn't just car exhaust or factory smoke. Dust mites, mold spores, pollen, and pet dander in the air inside your home can cause problems if your family has allergies or asthma.

Using HEPA filters can trap these pollutants and may help bring allergy relief.

Only you can control the sources of pollutants in your home, but Fantech's Filtration System can help provide ventilation and filtration solutions so your family can breathe easier.

Clean, fresh air comes in all sizes

Fantech provides an added solution for better indoor air quality with the Whole House HEPA Filtration System. This small, compact unit can be installed on the existing ductwork of your furnace/air handler or can be used as an independent system mounted in the attic, crawl space or closet.

2,2200 sq.ft.

The system is designed to clean and filter the air in an average 2200 sq. ft. home once an hour. Larger homes will take slightly longer for a complete air change.

240 cfm built-in fan

The system is equipped with a speed 240 cfm energy efficient fan.

99.97% Efficient

Mold spores, pet dander, cooking odors, dust, dust mites and their by-products are all captured in a series of three filters. The prefilter collects the largest particles while the carbon filter absorbs odors. The third filter is a true certified HEPA filter, which collects 99.97% of particles down to 0.3 microns.

Plug & Play

All units are delivered tested and ready for installation. With easy-to-reach filters, service and maintenance is made easy.

For new and renewal

All units are perfectly designed for both new and retrofit construction.



CM 3000

240 cfm, 150W, 8" duct, non-insulated version
shipping weight 28 lbs, art. #40219

CM 2000i

Fantech's popular fan powered unit is also available with a single 1" MERV-13 filter. Transfer air and still obtain minimum filtration. Want to upgrade later to a full HEPA solution with pre-filter and odor reduction Carbon filter? No problem! Simply swap out the MERV-13 filter for the full HEPA solution.

240 cfm, 150W, 8" duct, insulated version
shipping weight 28 lbs, art. #44928

CM 3000i

Full 99.97% efficient HEPA filtration and fan power in one package! HEPA filters offer particle filtration down to 0.3 microns. It is designed to clean and filter air in an average 2,200 sq.ft. home once an hour.

240 cfm, 150W, 8" duct, insulated version
shipping weight 28 lbs, art. #40220

Filtration for a single family home

Many small to medium homes now use Mini Split AC/Heat Units rather than the traditional HVAC ducted systems that distribute the air/heat around the home. Mini Splits rely on indoor air currents for distribution, but in tight homes this becomes a problem as the air/heat stays locally around the unit.

Supply Grille

The MGS is our attractive Metal Supply grille with a 360 degree dispersion pattern and adjustable gap for balancing airflow.

Whole House Filtration Unit

The CM unit draws air from the space conditioned by a Mini Split and distributes it via a small duct system to other parts of the home, ensuring a supply of clean air.

The filtration unit can be fitted with a MERV13 filter or a high efficiency HEPA filter for truly clean air.

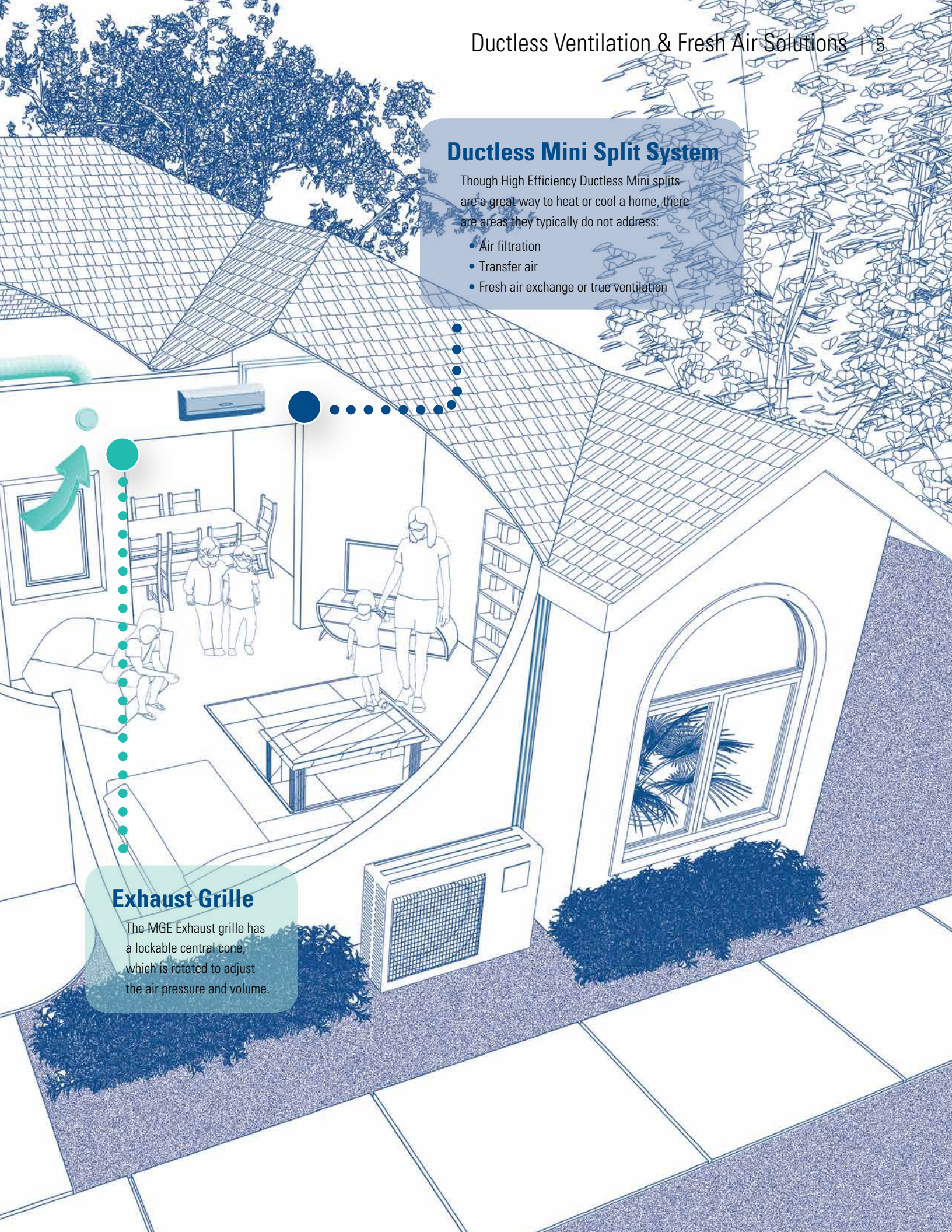
Ductless Mini Split System

Though High Efficiency Ductless Mini splits are a great way to heat or cool a home, there are areas they typically do not address:

- Air filtration
- Transfer air
- Fresh air exchange or true ventilation

Exhaust Grille

The MGE Exhaust grille has a lockable central cone, which is rotated to adjust the air pressure and volume.



Heat or Energy Recovery Ventilator

A Heat Recovery Ventilator (HRV) is designed to bring a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. HRVs use a “sensible” heat recovery core to transfer heat from the exhaust air stream to the incoming air stream. An Energy Recovery Ventilator (ERV) works much like the HRV but it is equipped with an enthalpy core that transfers temperature and moisture from the incoming air stream to the outgoing air stream. The air brought into the living area is preconditioned and the humidity is reduced for maximum comfort.

Better solution for a single family home

Homes that utilize traditional HVAC systems, hydronic radiant heating, or the popular ductless mini-split solutions can all benefit by having fresh, filtered air at all times. The best Indoor Air Quality depends on a combination of ventilation and filtration.

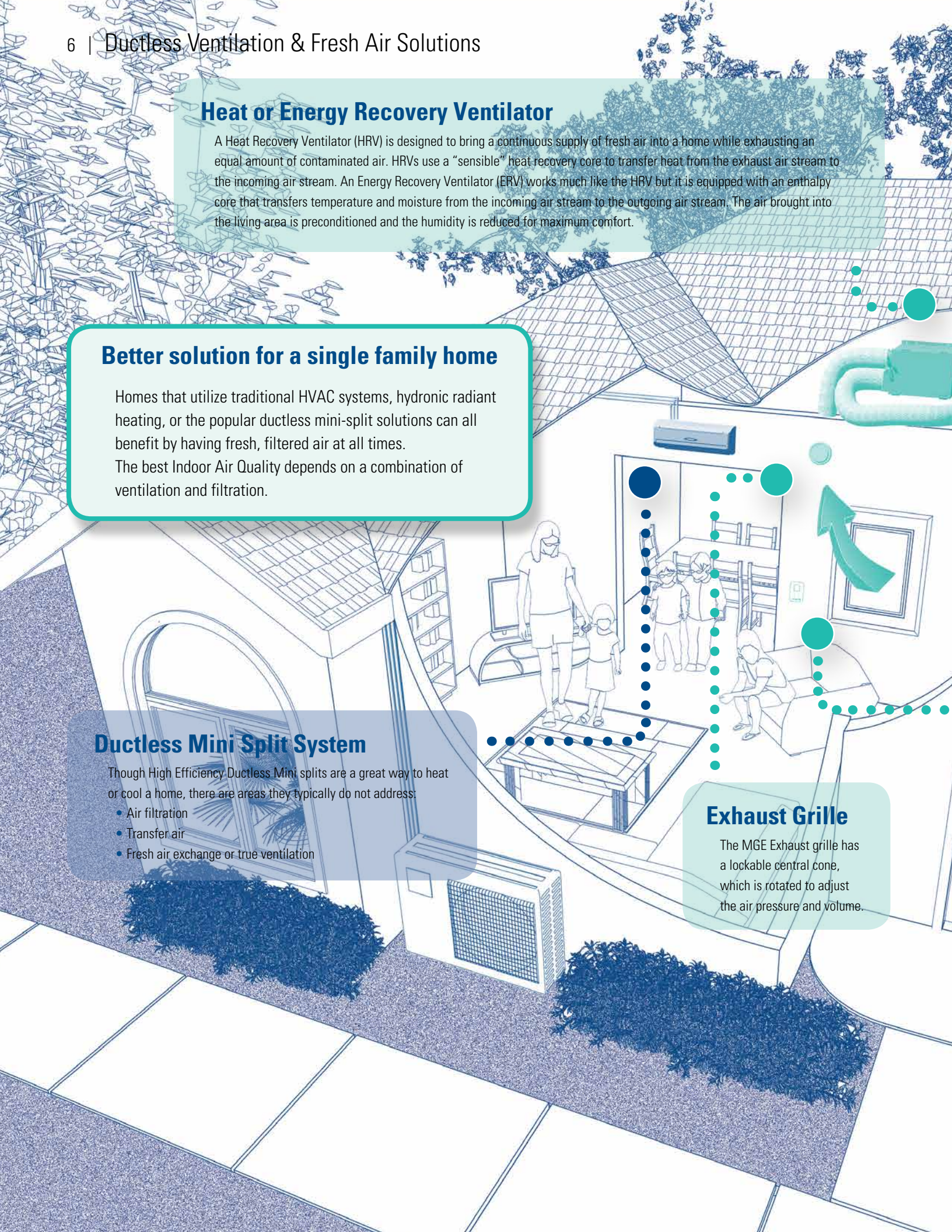
Ductless Mini Split System

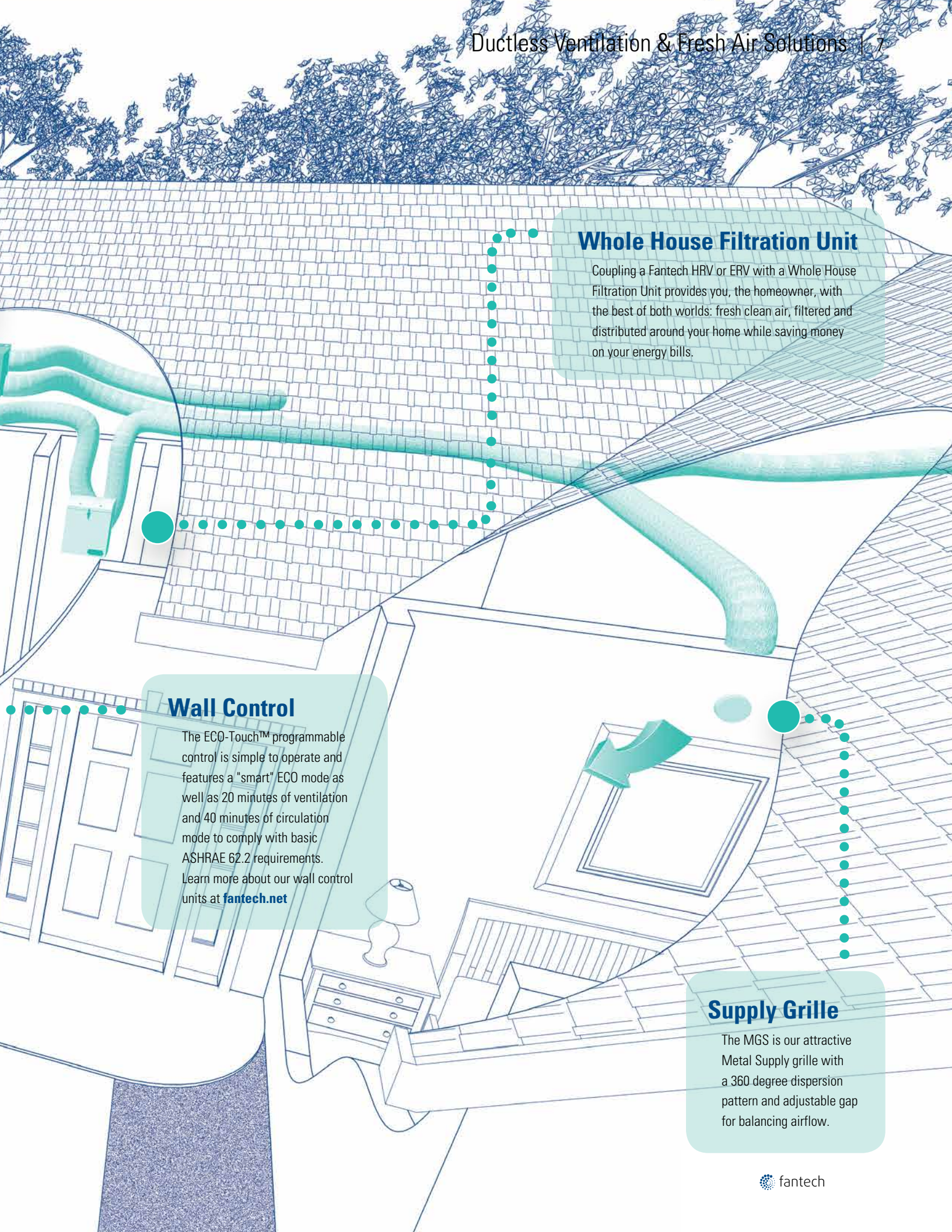
Though High Efficiency Ductless Mini splits are a great way to heat or cool a home, there are areas they typically do not address:

- Air filtration
- Transfer air
- Fresh air exchange or true ventilation

Exhaust Grille

The MGE Exhaust grille has a lockable central cone, which is rotated to adjust the air pressure and volume.





Whole House Filtration Unit

Coupling a Fantech HRV or ERV with a Whole House Filtration Unit provides you, the homeowner, with the best of both worlds: fresh clean air, filtered and distributed around your home while saving money on your energy bills.

Wall Control

The ECO-Touch™ programmable control is simple to operate and features a "smart" ECO mode as well as 20 minutes of ventilation and 40 minutes of circulation mode to comply with basic ASHRAE 62.2 requirements. Learn more about our wall control units at fantech.net

Supply Grille

The MGS is our attractive Metal Supply grille with a 360 degree dispersion pattern and adjustable gap for balancing airflow.

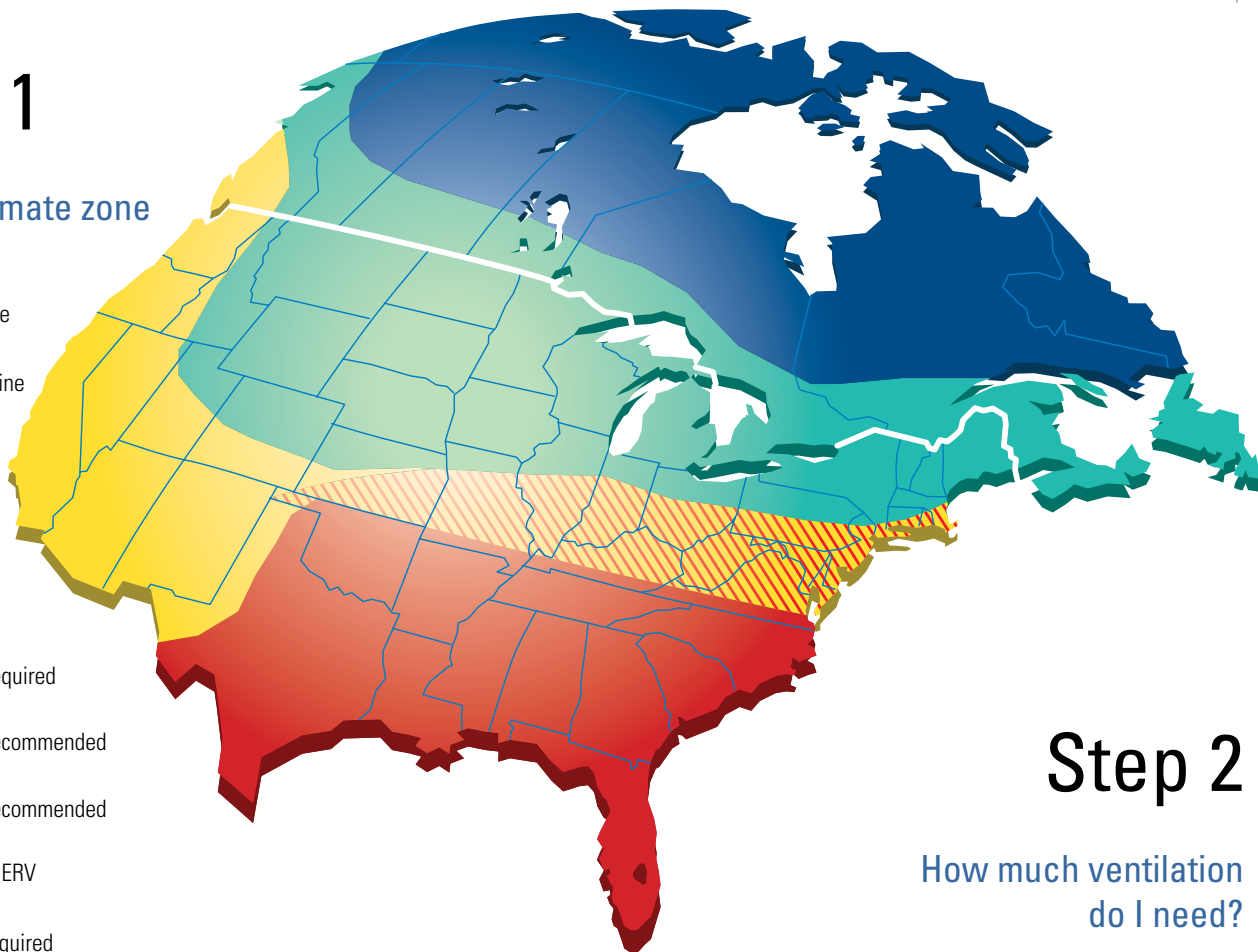
Two simple steps to help you choose the ideal HRV or ERV for your living space






U.S. Department of Energy
Climate Zones Map

Step 1

In what climate zone do I live?

Browse the climate conditions where you live to determine whether you need a Heat Recovery Ventilator or an Energy Recovery Ventilator.



-  HRV Required
-  HRV Recommended
-  HRV Recommended
-  HRV or ERV
-  ERV Required

Step 2

How much ventilation do I need?

HRVs are usually recommended for colder climates with longer heating seasons. ERVs are used for warmer more humid climates with long cooling seasons.

The American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) has developed a guideline to evaluate the minimum ventilation needs of a home according to ASHRAE Standard 62.2, Ventilation for Acceptable Indoor Air Quality.

Living area	Number of bedrooms				
	0-1	2-3	4-5	6-7	> 7
sq.ft.	cfm				
< 1,500	30	45	60	75	90
1,500 - 3,000	45	60	75	90	105
3,001 - 4,500	60	75	90	105	120
4,501 - 6,000	75	90	105	120	135
6,001 - 7,500	90	105	120	135	150
> 7,500	105	120	135	150	165

Table 1. Ventilation needs of a home, ASHRAE 62.2

The standard defines whole house and local ventilation needs. Whole house ventilator sizing is based on the home's overall liveable surface area and the number of bedrooms. The whole house ventilation is the continuous ventilation rate required to meet the minimum requirements of the standard, represented in the table to the left.

Along the left side of the table simply select the size of the home; then find the corresponding line matching the number of bedrooms; the resulting number is the amount of air you will need in a whole house ventilator. An HRV/ERV can also be used to meet local ventilation needs if a dedicated duct system exists otherwise bathroom and kitchen exhaust may be required to meet minimum ventilation needs.

How Do They Work?

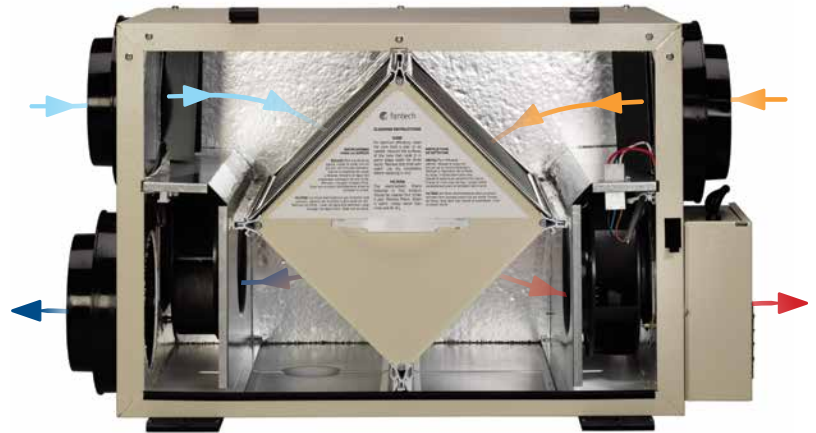
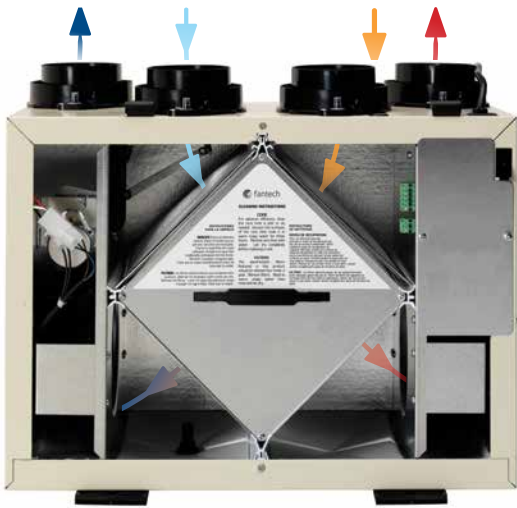
Heat Recovery Ventilators (HRVs)

An HRV is designed to bring a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. HRVs use what is called a “sensible” heat recovery core. This special aluminum core transfers heat from the exhaust air stream to the incoming air stream. During winter fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system. Fantech HRVs are equipped with automatic defrost mechanisms so even if you live in a cold climate you can use your HRV all year long.

Energy Recovery Ventilators (ERVs)

Fantech’s ERV works much like the HRV but it is equipped with a different type core. The enthalpy core at the center of the unit transfers heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building’s air conditioner. The air brought into the living area is cooled and the humidity is reduced for maximum comfort. The load on your air conditioner is reduced saving on cooling costs.

- Stale air to outside
- Fresh air from outside
- Stale air from inside
- Fresh air to inside



Product Key:

VHR 150R

- Defrost Recirculation
- Airflow (cfm)
- V = Vertical ports
- H = Heat Recovery Ventilator
- R = Remote Control

SER 2004

- Number of ports
- Airflow (cfm)
- S = Side ports
- E = Energy Recovery Ventilator
- R = Remote Control



VHR 2005R
 201 cfm at 0.4" P_{st}, recirculation,
 shipping weight 66 lbs, art. #40063

SHR 3005R
 249 cfm at 0.4" P_{st}, recirculation,
 shipping weight 125 lbs, art. #40214

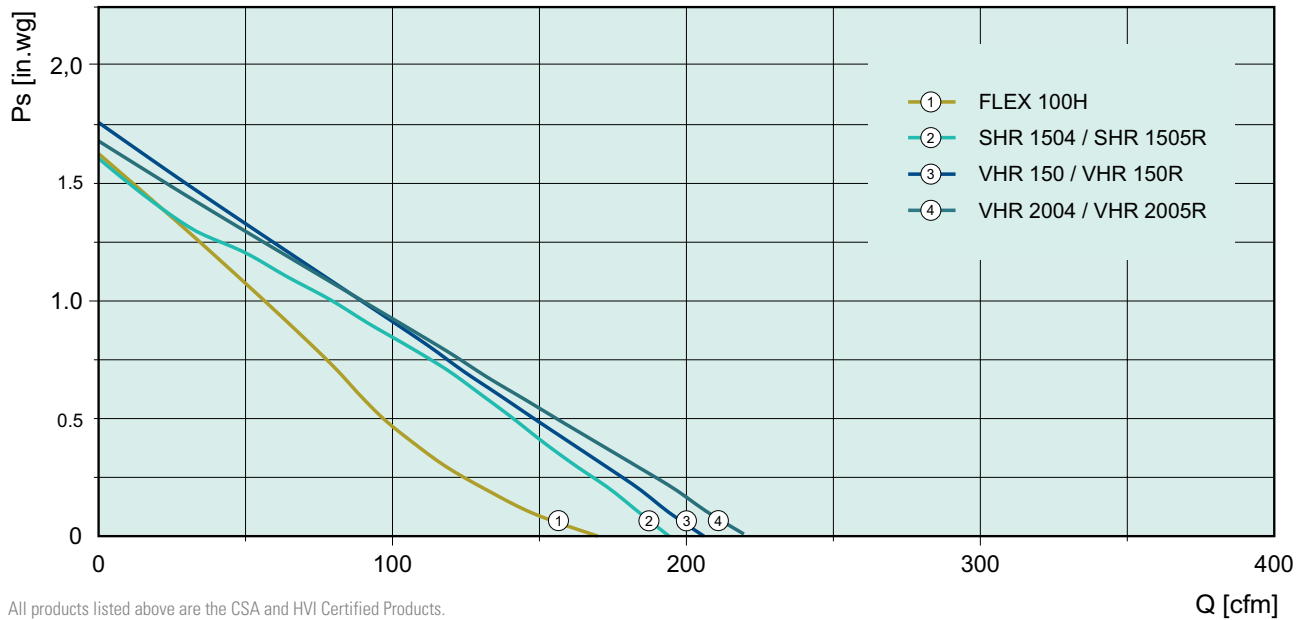
FLEX 100H*
 109 cfm at 0.4" P_{st}, recirculation,
 shipping weight 46 lbs, art. #44001

Flex 100H*

Vertical connected heat recovery ventilator with a fixed-plate heat exchanger designed to serve up to 7 bedroom homes. With its exclusive TurboTouch™ feature, FLEX 100H can deliver up to 50% more exhaust capacity to easy meet your ventilation needs.

VHR Series

Vertical connected heat recovery ventilators with a fixed-plate heat exchanger designed for residential applications. These units bring a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air.



All products listed above are the CSA and HVI Certified Products.
 * This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA.

VHR 150 | VHR 150R*

160 cfm (both at 0.4" P_{st}), recirculation (R-version), shipping weight 48 lbs (both), art. #44921 | #44859



VHR 2004

201 cfm at 0.4" P_{st}, recirculation, shipping weight 66 lbs, art. #40061

SHR 1505R | SHR 2005R | SHR 3205RD

158 cfm | 201 cfm | 263 cfm (all at 0.4" P_{st}), recirculation shipping weight 52 lbs | 66 lbs | 103 lbs art. #40071 | #40076 | #40225

SHR 1504 | SHR 2004 | SER 1504 | SER 2004 | SER 3204D

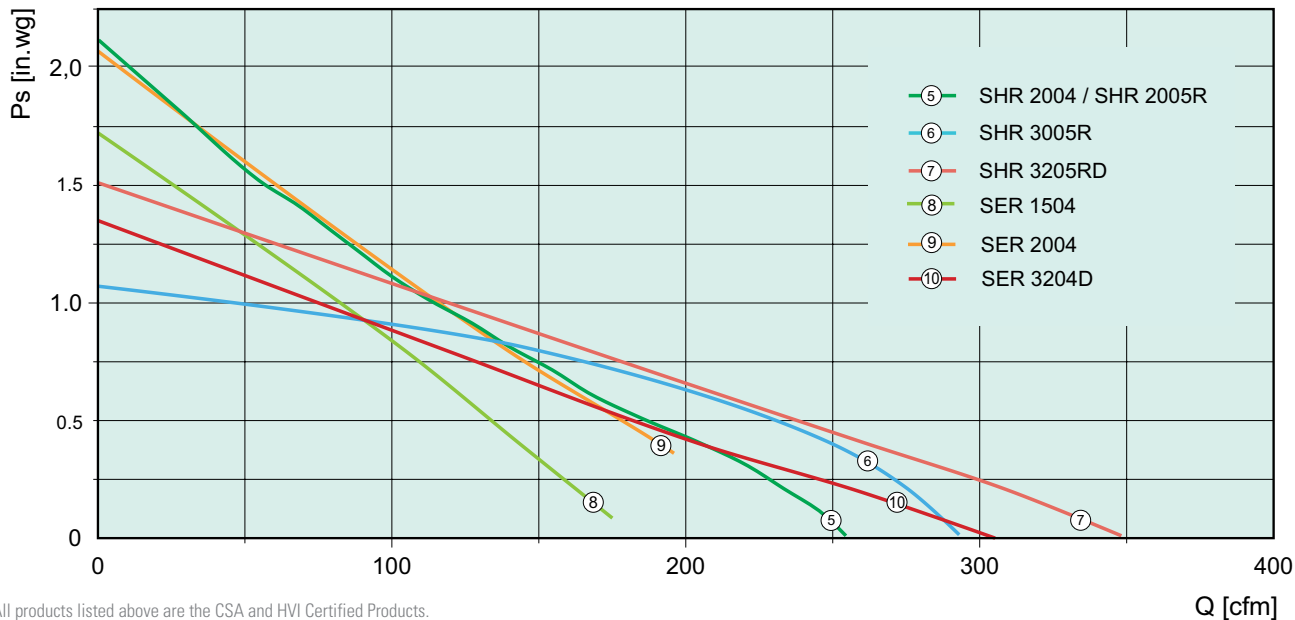
149 cfm | 201 cfm | 134 cfm | 189 cfm | 231 cfm (all at 0.4" P_{st}) shipping weight 52 lbs | 61 lbs | 49 lbs | 66 lbs | 80 lbs art. #40072 | #40077 | #40085 | #40086 | #40226

SHR Series

Side connected heat recovery ventilators with a fixed-plate heat exchanger designed for residential applications. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air.

SER Series

Side connected energy recovery ventilators with a fixed-plate energy exchanger designed for residential applications. The enthalpic core at the center of the unit transfers heat and moisture from the incoming air to the outgoing that was cooled and dried by the building's air conditioner.



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* This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA.



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