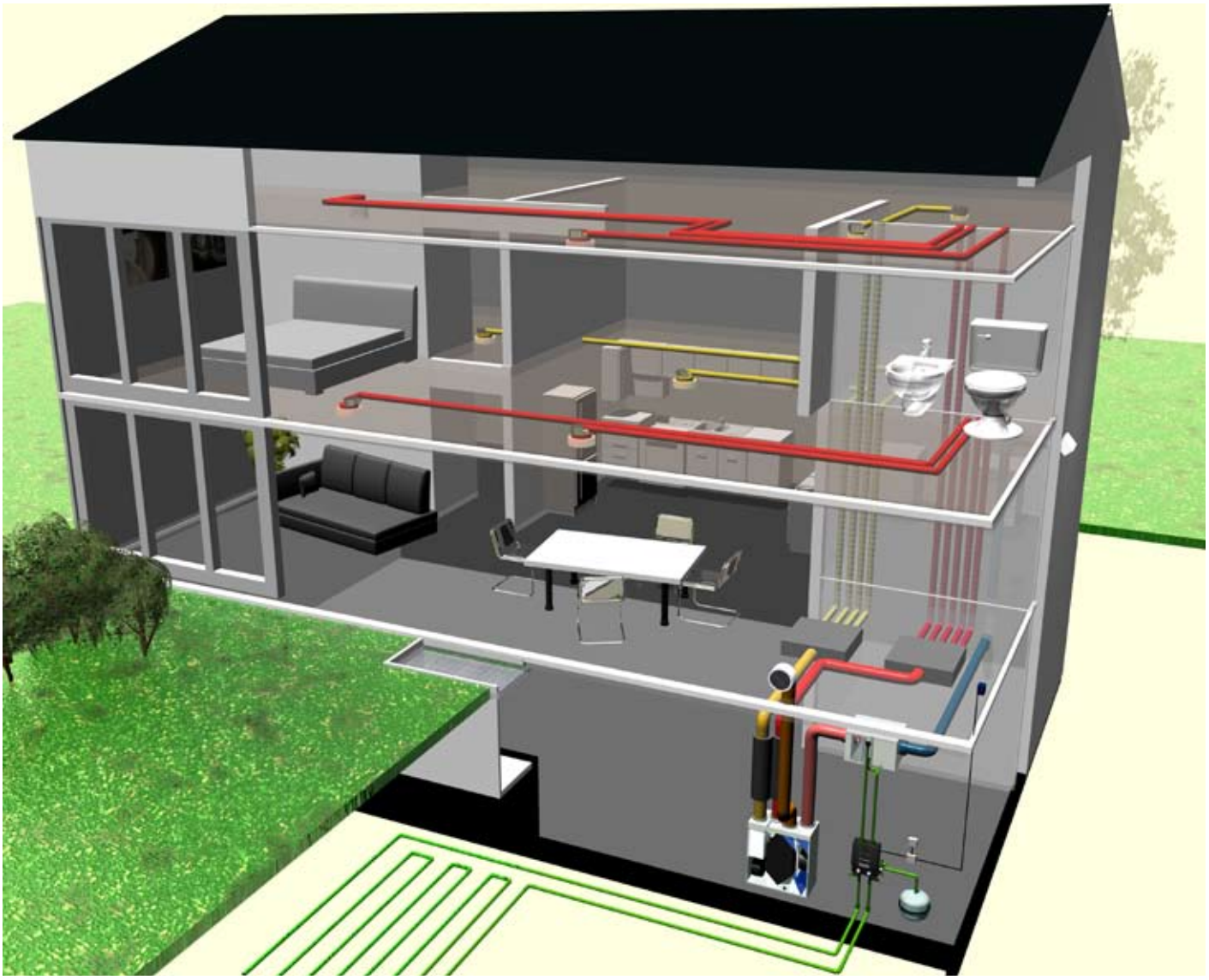
Vallox VENTILATION WITH HEAT RECOVERY

Fresh, clean, warm air... and saving energy too!

HEAT MERCHANTS
RENEWABLE ENERGY

Think Renewable **Think Heat Merchants**



Typical installation, Valloflex and iSO

VALLOX - CREATING A HEALTHIER ENVIRONMENT

With ever increasing energy costs the need to conserve heat and power is leading to higher levels of insulation and air tightness in residential dwellings and commercial buildings.

The resulting poor indoor climate can lead to health problems for occupants and visitors alike and long term damaging effects to the fabric of a building.

The lack of effective ventilation within a well sealed environment increases the prevalence of airborne contaminants, odours and smells which together with high levels of humidity and condensation all add to an unhealthy environment.

If left unchecked the development of dampness leads to mould growth and the spread of mites which can increase the likelihood of headaches, allergies and the development of asthma in children.

Fresh, filtered air is the answer!

In a healthy home thousands of litres of fresh air is needed everyday to compensate for the moisture generated by each individual person, and also through cooking, washing and bathing.

Vallox provides continuous mechanical ventilation with heat recovery for the supply of controlled, fresh, filtered air while extracting potentially harmful, unwanted moisture and airborne pollutants.

It helps to save energy too by re-claiming waste heat from extracted air that would otherwise be lost and returning it via the incoming fresh air into the dwelling. By adding back warmed, fresh air the thermostat can
be turned down and, over time, tangible benefits in reduced energy consumption will be realised.

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VALLOX - EFFECTIVE AND EFFICIENT

Heat recovery is a process of continuously preheating incoming cool supply air by warming it with the outgoing exhaust air.
Warm air is not simply exhausted but transfers most of its heat to supply air in a highly efficient heat recovery exchanger. At no time do the airstreams mix as the heat radiates through the plates of the exchanger.

What is Heat Recovery Efficiency?

Heat recovery efficiency is the utilising of waste heat to cool fresh incoming air. Generally speaking efficiency above 60% is considered good and above 80% excellent. The heat recovery efficiency for VALLOX units is up to 90% (it depends on the unit size, air flow and the heat recovery exchanger type).

The heat recovery exchanger is fitted directly in the ventilation unit. This allows use of heat recovery in all building types such as flats, apartments, family houses and residential accommodation.

Larger units can be installed in commercial buildings, swimming pools, retail and industrial buildings. Vallox units also incorporate a "By-Pass" mechanism so that in summer supply air is not warmed unnecessarily.

Heat recovery exchangers can be used even in air-conditioned buildings where during the summer season it serves as (cold recovery). Incoming warm air is cooled by air-conditioned exhaust air.

Fresh Air for a Healthy Environment

For the maintenance of the building fabric and for a healthy indoor climate, controlled mechanical ventilation is essential.
Energy savings are achieved by improved insulating measures and by the use of heat recovery. Carbon emissions in the dwelling are also reduced with the contribution of heat recovery.

Just as important is that there is a healthy and comfortable climate in highly insulated buildings. Research proves that people living, working or studying in inadequately ventilated buildings suffer from more ailments such as headache and allergies.

On average, humans spend 90% of their lives in closed buildings. Therefore, it is of prime importance to provide healthier indoor air, free from odours, high humidity and airborne pollutants.

Extract Air

Stale air is contaminated with humidity, toxins and smells extracted from the kitchen, bathroom and toilet. Outlet grilles in toilets and wet room areas, such as the bathroom, en-suite, utility and kitchen allow a constant or demand oriented air flow volume to be = extracted, matched to the users' individual needs or room demands. Much of the heat of the extracted air is retained by the exchanger and transferred to the incoming fresh external air.

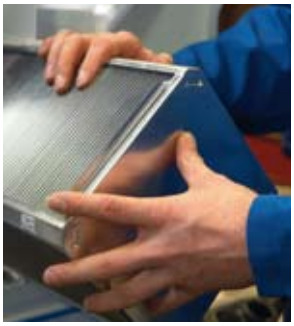
Supply Air

Fresh air is fed directly from outside into the ventilation system through a filter. The heat taken from the extracted air is used to warm the fresh filtered air in the exchanger and then flows through ducting to termination points such as air valves or air inlets into the living rooms and bedrooms. By undercutting doors and fitting transfer grilles fresh air circulation is ensured throughout the dwelling.

VALLOX

Creating a healthy home.

- Meets Building Regulations, Approved document F, October 2009 (MVHR)
- Constantly refreshing the internal atmosphere
- Save energy by reducing heating costs
- Extracts airborne pollutants that can cause allergies and asthma
- Supplies warmed, filtered air to living spaces
- Removes condensation and humidity from wet rooms
- Reduces carbon dioxide levels that can cause headaches and drowsiness
- Clears odours, tobacco smoke and cooking smells
- Eliminates dampness and mould growth
- Helps reduce the dwellings carbon footprint
- SAP Appendix Q Eligible models



VALLOX T E SERIES

A range of high quality top entry connection mechanical ventilation units with heat recovery for residential and light commercial applications.

Vallox 150 SE
(SAP APPENDIX Q - ELIGIBLE)

High-tech specification

DV150 SE is a ventilation unit with state-of-the-art technology. The unit is controlled either automatically with an intelligent Vallox SED control system sensing carbon dioxide or humidity content, or electronically according to resident needs, e.g. with time clock control. The unit has energy-efficient dc fans. The unit can also be connected to remote monitoring.

Excellent heat recovery efficiency is more than 80%.
Extracts up to 432 m3/hr @ 100 Pa.

Vallox 280 SE

Intelligent solution for larger premises

The DV280 SE ventilation unit for large family houses and public premises. The unit is equipped with efficient energysaving dc fans. The intelligent, digital Vallox Digit SED control centre simplifies the use of ventilation and facilitates planning, installation and maintenance.

The unit's heat recovery efficiency is more than 70%.
Extracts up to 1044 m3/hr @ 100 Pa.

Vallox 180 SE

Powerhouse for a larger dwelling

DV180 SE has enough power for a large dwelling. The unit is controlled automatically with an intelligent Vallox SED control system. Sensor options include carbon dioxide or humidity content or electronically according to resident needs, e.g. with time clock control.

The unit is available with energy-efficient dc fans or as an ac model. The unit can be connected to remote monitoring.

Heat recovery efficiency exceeds 80%.
Extracts up to 738 m3/hr @ 100 Pa.

Vallox 90 SE
(SAP APPENDIX Q - ELIGIBLE)

High-tech specification

DV90 SE is a high-quality ventilation unit suitable for small and medium sized family houses and terraced houses. Available with energy-efficient dc fans or with ac fans and the intelligent electronic Vallox SED control system. The unit can be connected to remote monitoring.

Heat recovery efficiency exceeds 80%.
Extracts up to 306 m3/hr @ 50 Pa.

Vallox 150 SC

Standard solution for large dwellings

DV 150 SC is an easy-to-use and efficient ventilation unit for large family houses and dwellings. The transformer-adjusted unit is equipped with a separate speed selection switch.

Excellent heat recovery, exceeds 80%.
Extracts up to 432 m3/hr @ 100 Pa.

Vallox 90SC Vallox 90SC

For basic residential ventilation

DV 90 SC is a transformer-adjusted ventilation unit, equipped with a separate speed selection switch, suitable for flats, apartments, terraced houses and small family houses. The unit is also manufactured as a DV 90K SC wall mounted model equipped with a cooker hood.

Excellent heat recovery of more than 80%.
Extracts up to 306 m3/hr @ 50 Pa.

Vallox TSK

Easy maintenance in rental blocks

A popular unit for social housing blocks of flats. The unit can be integrated into the structure of the dwelling, i.e. above the entry door and routine maintenance can be performed from the outside corridor without disturbing the resident.

Heat Recovery of more than 60%.
Extract up to 280 m3/hr @ 75 Pa.

T E SERIES CONTROLS

Vallox Digit SED

Ideal indoor air quality is achieved by automatically adjusted ventilation.

Vallox Digit SED is the brain of the automatically controlled Vallox TE Series ventilation units. It can monitor a variety of sensor inputs including indoor air humidity and carbon dioxide content and control the level of ventilation accordingly.

The benefits are that Indoor air stays healthy and fresh and that boost ventilation works only 'On Demand' resulting in highly energy efficient fan operation.

The ease of use of a Digit SED control centre is based on the logical menu structure. The intelligent control panel is equipped with a back lit LCD display that can be used to set the ventilation operating parameters required for each individual dwelling.

- Ergonomic design
- Easy to operate
- Time clock control
- Backlit display
- Sensor options
- Humidity
- CO^2

FOUR SPEED SWITCH

An alternative to the digital control system is the manually operated 4 position speed control switch which allows 'On Demand' ventilation to be selected when required.

- Simple to install
- Manual selection of fan speed
- User friendly

VALLOX - A COMPLETE SYSTEM

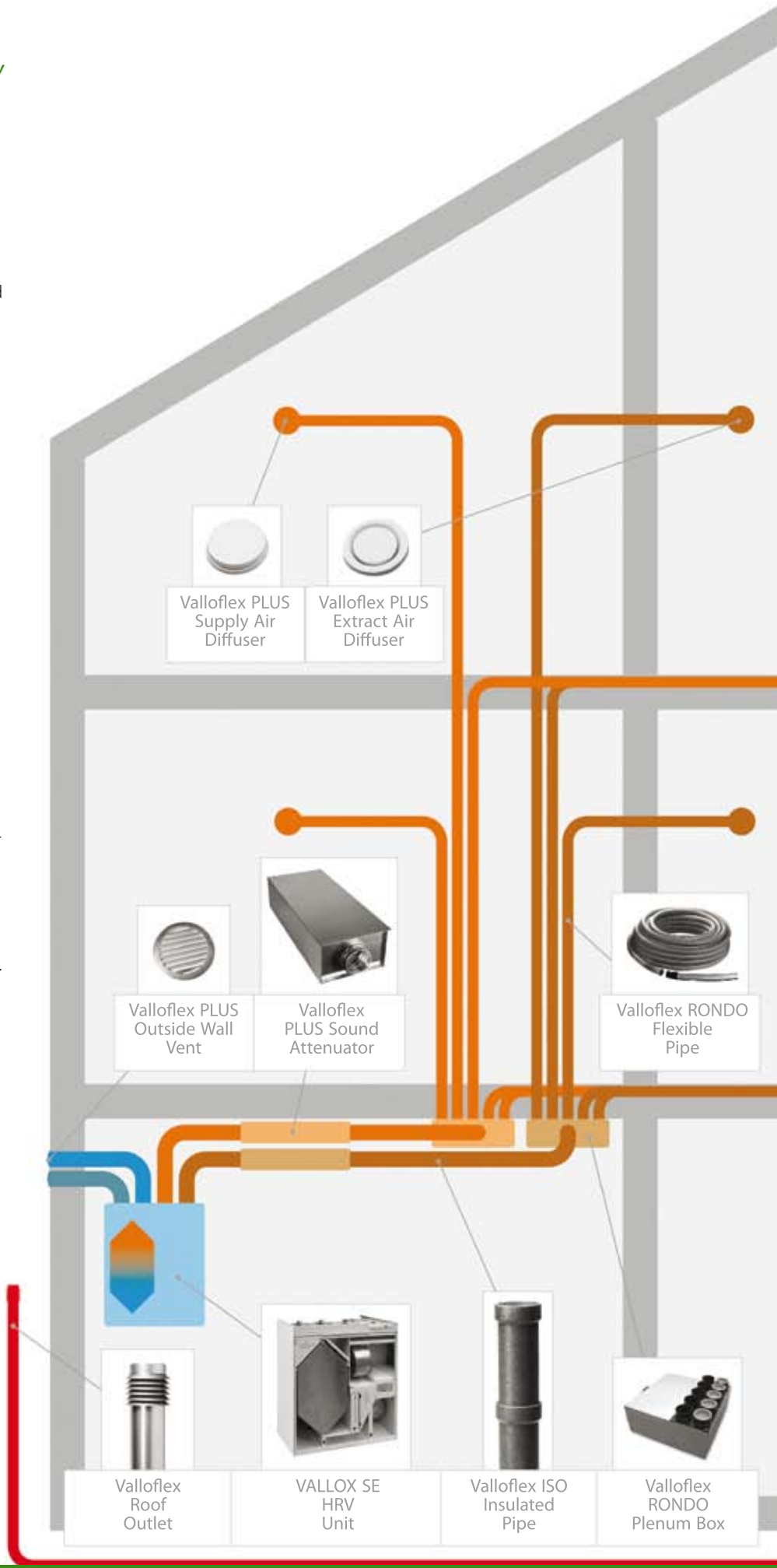
Mechanical ventilation units require good quality compatible ducting and a high standard of installation. It makes no sense to invest in future energy efficiency and indoor well being if the benefits are to be lost by leakage from a poor quality and badly fitted ductwork system.

VALLOX can be used with Heatmerchants standard PVC 204 x 60mm plastic flat ducting. However to ensure the best results we recommend the innovative

VALLOFLEX

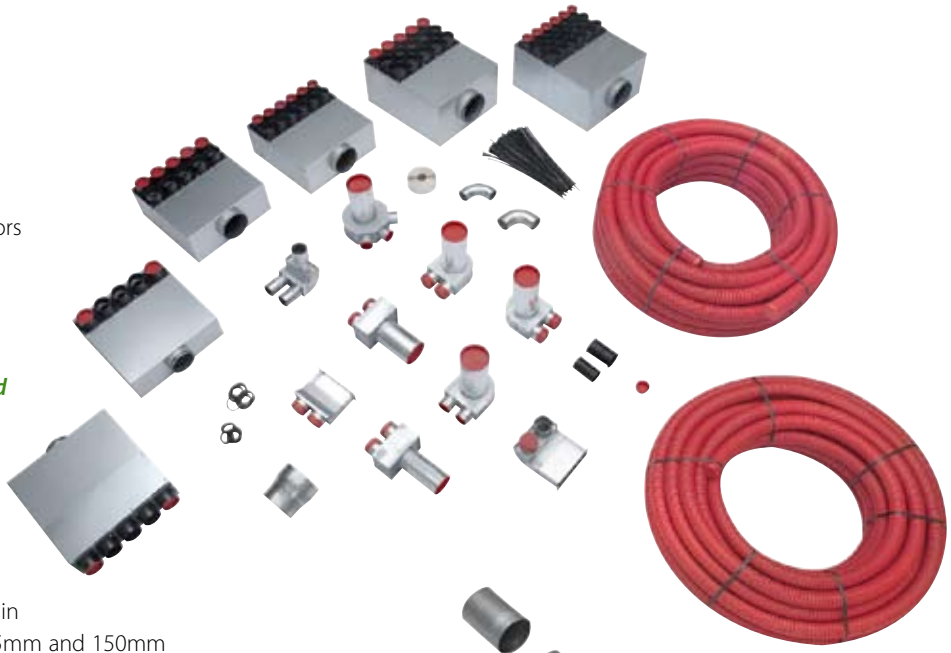
A quick and easy to fit system of flexible pipe that can result in up to 70% time savings during the on-site installation process, compared to other duct methods. This innovative system uses low resistance, smooth bore tubing to individually connect each room to the heat recovery unit via an Air Distribution Box.

By directly connecting each inlet/outlet there is ZERO LEAKAGE, so no loss of valuable regained air. Also the bore of the duct is coated with an anti-static coating ensuring hygienic conditions and with no dust traps it is easy to clean simply by purging with a high pressure vacuum cleaner. By direct connection to the air distribution box noise transmission is greatly reduced compared to flat ductsystems with numerous branches and tee joints. Requiring limited space Valloflex can be fitted in narrow joists or run in concrete screeds for a permanent installation that will never degrade. Visit www.Heatmerchants.ie to download full product specifications Available in two bore sizes (75mm dia and 63mm dia) with a choice of air distribution boxes and termination ceiling adapters.



VALLOX - VALLOFLEX - PLUS

- Zero leakage ensures performance
- Save up to 70% on installation time
- Flexible, tough and durable for on-site
- Smooth bore for hygiene and easy cleaning
- Very low noise transmission between rooms
- Highly efficient, connects each room individually
- Compact, suits narrow joists and or screeded floors
- Constant air distribution throughout



VALLOFLEX ISO

A high performance alternative to spiral and lagged ducting with in-built thermal insulation.

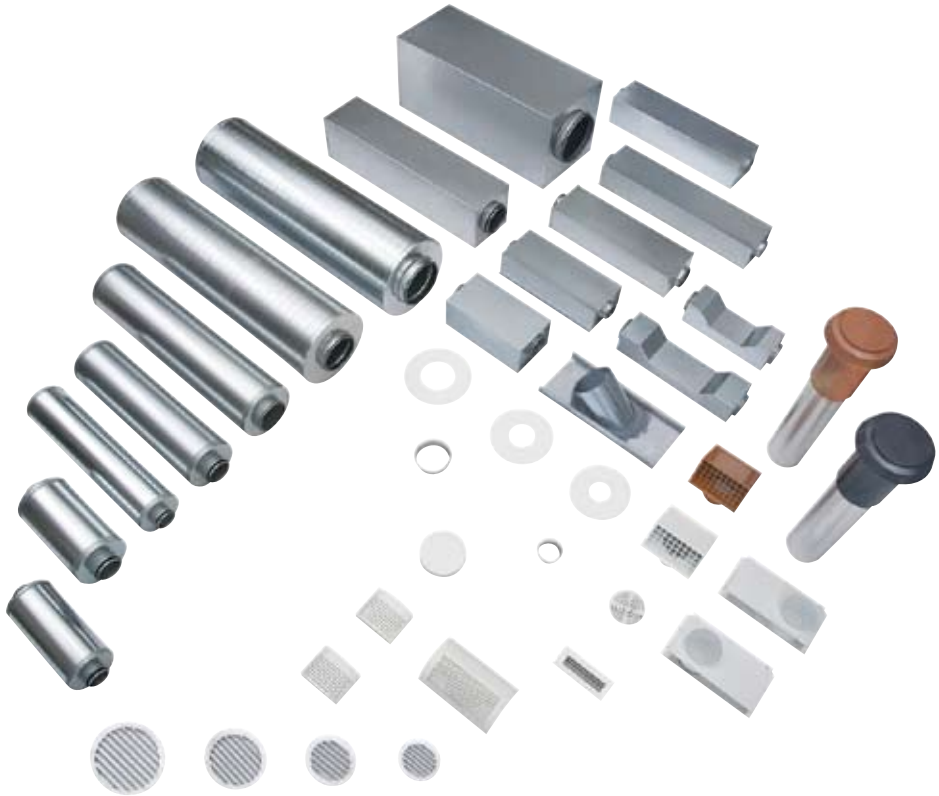
Ready insulatedcircular pipe produced from sound absorbing, vapourproof EPP-foam that is both durable and lightweight and easy to clean. With moulded sleeves and connectors it is fast and easy to install and eliminates the extensive need to lag ducts in areas where condensation may occur. Available in 125mm and 150mm diameter pipe with a selection of bends, wall and roof outlets that slot together with ease.

ACCESSORIES

In addition to a choice of compatible ducting systems a full range of air heaters, in-line silencers, floor, wall and ceiling inlet and outlet diffusers are available to complete the installation.

Replacement filter packs are also availablevia the web site.

- Pre-insulated one-piece
- Quick and easy assembly
- Tough, durable, anti-static EPP
- Fire retardant to B2
- Avoids condensation build up
- Sound absorbing, smooth bore pipe
- Choice of components to suit any layout
- Compatible with Valloflex, Air Distribution Box



Specification check list *(a few useful tips)*

Before you start - Questions that should be considered first

Consider the requirements of the latest building regulations, approved document F, Oct 2009.*
How many rooms require extract ventilation (bathroom, toilet, utility, en-suite, kitchen etc)?
How many rooms require supply ventilation (bedrooms, living rooms, dining room, study etc)?
Where do you want the unit to be installed (basement, cupboard mounting or in the loft) Where to place the room air outlets / inlets (wall, ceiling or floor)?
Which kind of outlets do you intend to use (linear or diffusion grilles)?
How do you want the system to be operated (manual switching for boost speed or automatic humidity,Co2 etc control)?
Who is in charge of future maintenance and service ie: filter changes, system cleaning (installer or proprietor)?

Where to set up the unit. Where is the most convenient place to run your ducting from the unit ie; the basement, an airing cupboard or in the loft?

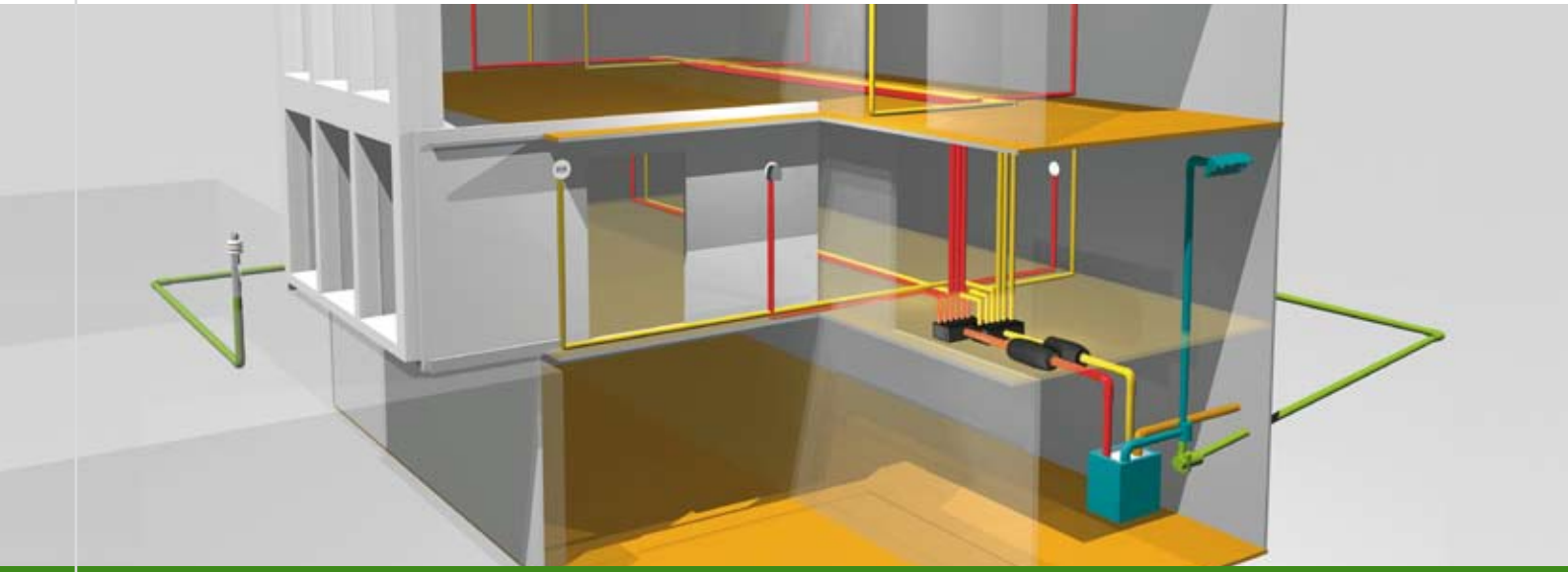
With space in mind consider the most appropriate mounting (handing) of the unit. With a choice of in-line connection or top entry connection units it has to be decided whether you prefer the unit to be mounted on the floor or on the wall with a horizontal or vertical alignment.

Commissioning. Optimal long term savings will be ensured by correct system balancing.

Selecting the rooms. Basically, air needs to be extracted from toilets and wet rooms such as bathrooms, en-suites, shower rooms, utility rooms and kitchens. Supply air is required for living spaces such as a lounge, dining room, bedrooms and hobby / study rooms.

Placing the air grilles. Best results have been achieved by using wall or ceiling grilles. Floor grilles pose a certain amount of risk of injury and constrain the placement of furniture. Creating a pleasant room environment is dependent on the proper placement of the inlet / outlet grilles. Draught and air noise need to be avoided. Selecting the grilles. Also consider the design of the grilles as they are the visible part of the system in the room. They are available in a white finish as standard. Aluminium is an option.

Control of the system (by the occupant). A very important aspect is to arrange for userfriendly controls. Have in mind also, occupants with limited technical knowledge should be able to operate the system.



Accessories and options

Vallox supply air heater

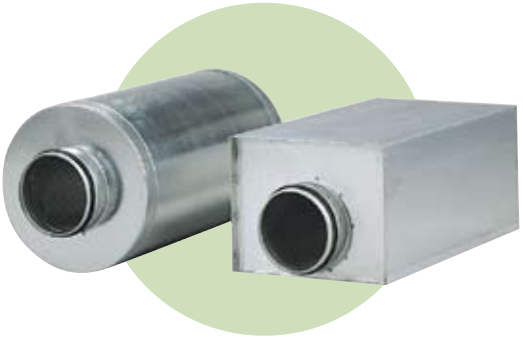
Vallox supply air heater is suitable for places where room air is removed with the help of roof ventilators, cooker hoods and extract air heat pumps. A supply air heater heats supply air to the desired temperature before taking it inside and prevents draught and freezing problems.

Vallox heating/cooling radiator for houses using geothermal heating

The ventilation heating/cooling radiator cools down indoor air in houses with geothermal heating in an energy-efficient way in summer and saves energy costs in winter. The radiator can be installed both in new buildings and old houses using geothermal heating.

Vallox silencers

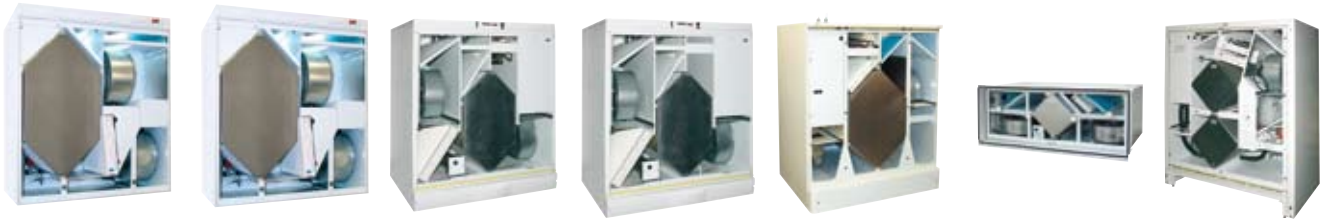
High-quality Vallox silencers installed in the ductwork ensure silent operation of the ventilation solution. Both round and rectangular solutions are available. The silencing material is mineral wool insulated with a protective cloth. The range also includes unit-specific silencing parts, installed right on top of the unit.



Vallox filters

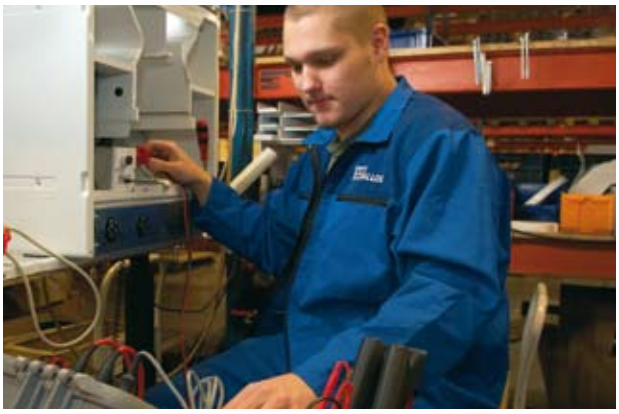
The use of original filters, designed and dimensioned for Vallox ventilation units ensures an efficient filtration result and high-quality indoor air. The package includes all necessary filters.

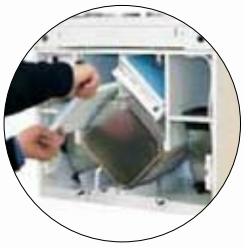
Technical specification



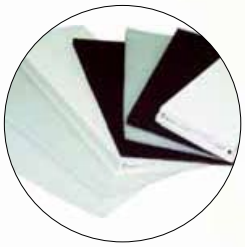
	Vallox 90 SE	Vallox 90 SC Vallox 90 K SC [4]	Vallox150 Effect SE	Vallox 150 SC	Vallox 180 SE	Vallox TSK	Vallox 280 SE
Max extract air volume [1]	85 dm³/s 50 Pa, AC 85 dm³/s 50 Pa, DC	85 dm³/s 50 Pa, DC	120 dm³/s 100 Pa, DC	120 dm³/s 100 Pa DC	205 dm³/s 100 Pa, AC 180 dm³/s 100 Pa, DC	78 dm³/s 75 Pa -105 W 104 dm³/s 100 Pa-180 W	290 dm³/s 100 Pa DC
Max supply air volume [1]	69 dm³/s 50 Pa, AC 72 dm³/s 50 Pa, DC	72 dm³/s 50 Pa, DC	108 dm³/s 100 Pa, DC	108 dm³/s 100 Pa DC	185 dm³/s 100 Pa, AC 165 dm³/s 100 Pa, DC	68 dm³/s 75 Pa-105 W 88 dm³/s 75 Pa-180 W	240 dm³/s 100 Pa DC
Control	electronic Digit SED	4-speed transformer	electronic Digit SED	4-speed transformer	electronic Digit SED	4-speed transformer	Electronic Digit SED
Week clock control	standard		standard		standard		standard
Humidity control	option		option		option		option
Carbon dioxide control	option		option		option		option
LON/remote monitoring control	option		option		option		option
Fireplace switch function	standard	option	standard		standard		standard
Maintenance reminder	standard		standard		standard		standard
Filter guard		option	option	option	option		option
Fans (input power W) [1]	38–240 W AC 20–200 W DC	20–200 W DC	30–280 W DC	30–200 W DC	130–470 W AC 40–420 W DC	105 W, 25–185 W AC 180 W, 43–240 W AC	150–830 W DC
Heat recovery cell	cross-counter flow, η > 80%	cross-counter flow, η > 80%	cross-counter flow, η > 80%	cross-counter flow, η > 80%	cross-counter flow, η > 80 %	cross flow, η > 60%	cross flow, η >70%
Summer ventilation	summer/winter automation	built-in manual	summer/winter automation	built-in manual	summer/winter automation	built-in manual	summer/winter automation
Supply air filtering [2] Extract air filtering [2]	G3 + F7 [2] G3 [2]	G3+F7 (F7 option) G3	G3 + F7 G3	G3+F7 (F7 option) G3	G3 + F7 G3	G3 + F7 G3	G3 + F7 G3
Antifrost	standard	standard	standard		standard		standard
Preheating	electric max. 900 W, standard	electric max. 900 W, option	electric 1000 W, standard	electric 1000 W, option	electric 2000 W, standard		electric 2500 W, option
Post-heating	electric max. 900 W, standard		electric 1000 W or liquid circulation, standard		electric 1000 W or liquid circulation, option	electric 1000 Wor liquid circulation, standard	electric 2500 W, option or liquid circulation, option
Air flow measurement outlets	standard	standard	standard	standard	standard		standard

1) AC = alternating current fans, DC = direct current fans 2) G3 = grow filter, F7 = fine filter 3) Only ceiling mounting possible
4) Model equipped with cooker hood





Easy to Clean



Choice of Filters

Modular Design

Maintenance and Service

Many systems fail to run properly because of inadequate maintenance The VALLOFLEX system is perfect for avoiding the build up of dust and airborne particulates which can be damaging to human health Filters e.g. should be checked and washed every six months and replaced at least one per year.

Remember, a properly maintained system is a healthy system and results in a healthy environment.

Quality and Certification

All Vallox heat recovery units are designed and manufactured to the highest standards.

Thermally insulated with double skin casings for optimum thermal retention they are well proven with many thousands installed across Europe.

All units are fully guaranteed and supplied with pressure and performance test certification and meet the requirements of the latest Building Regulations approved document F, October 2009. Additionally for specifiers designing dwellings to the Code for Sustainable Homes and SAP requirements, indicated units have been tested by BRE as SAP Appendix Q Eligible.

Technical Support

Specification and system design service available.

Advantages of dealing with HEAT MERCHANTS

- Free HRV design service available just email or send us your plan
- Each job designed fully to current Part F regulations
- With Each design you get a full air volume, house ducting and unit ducting schematic
- Free onsite installation training for first time users
- Free onsite commissioning training for first time users
- Nationwide branch network - easy access to material
- Fully trained national network of sales representatives to help with technical queries

Heat Merchants Branches

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