

Flexalen® HRV

Heat recovery ventilation system by Thermaflex®

Innovative and sustainable insulated ventilation piping system developed to offer high-grade solutions to the increasing demands of comfort climate in residential buildings



Benefits

- Ducting system with strong integrated thermal and acoustic insulation
- Condensation prevention
- Very good airtightness
- Failure-free installing
- Easy and quick to assemble thanks to flexible rubber seals
- Large variety of laying situations with only limited number of components
- No maintenance required



Design

Polyolefin foam
Closed-cell, CFC-free

EPDM rubber connection
Uppermost airtightness class

Polyethylene corrugated pipe, PE
Flexibility and mechanical protection

Applications

- Ventilation system with heat recovery

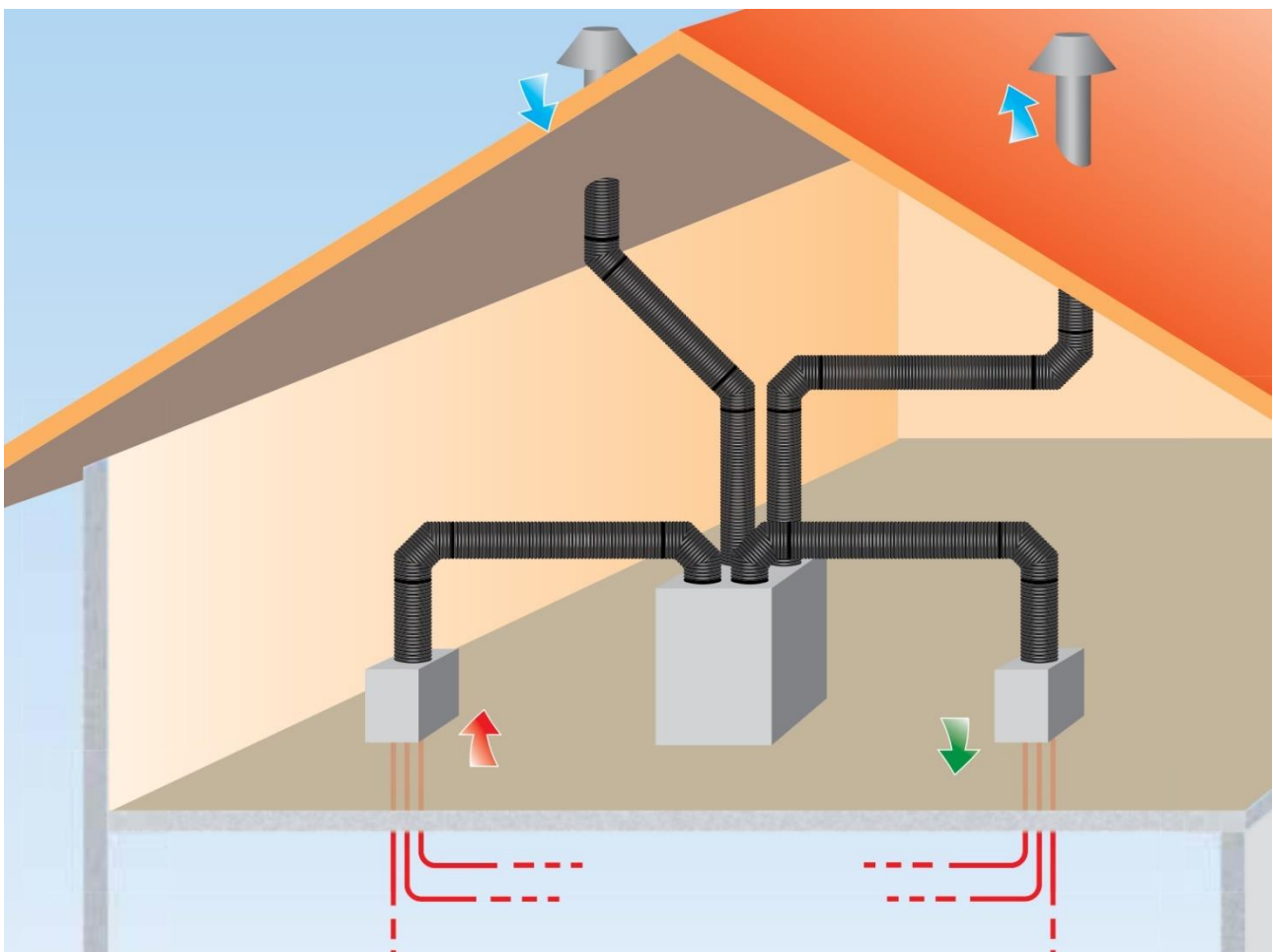


System Description

Flexalen HRV is an innovative, lightweight and durably insulated piping system developed to meet the increasingly stringent thermal and acoustic requirements for balanced ventilation systems with heat recovery. It is composed from a state-of-the-art, vapour-proof polyolefin insulation foam attached to a solid, shockproof polyethylene (HDPE) outer casing. Besides a great thermal insulation and noise reduction the water-repellent inner wall prevents corrosion, moss and mold formation.

The ducts and components are simple and safe to assemble thanks to flexible rubber connections. The ducts can be easily and precisely shortened. At the same time, the dimensional stability of its material limits the use of brackets. The HRV reducing connections guarantee an easy linking to the balancing ventilation unit and to any roof or wall terminal.

All possible piping connections can be realized with only 5 items from the Flexalen HRV assortment. In this way, Flexalen HRV requires minimum warehouse space and allows the installer to lay out a complete distribution network with fewer elements.



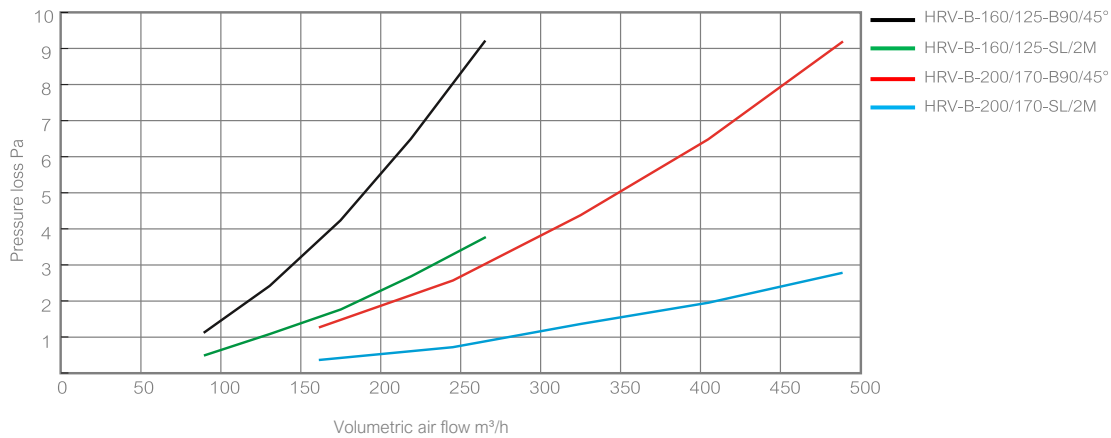
Technical Properties

Inner sheath	
Material	Polyolefin insulation foam
Structure	Closed-cell structure, CFC-free
Inner diameter	125 and 170 mm
Thermal conductivity (λ)	0.040 W/m-K
Water resistant properties	Water repellent, vapour diffusion tight; no risk of corrosion, moss or mould forming
Chemical constancy	excellent
Indentation resistance	excellent

Outer casing	
Material	Polyethylene
Structure	Solid ring, dimensionally stable, mechanically strong and shockproof
Outer diameter	160 and 200 mm
Scent	neutral
Colour	black

Complete System	
Fire classification	SBI Euroclass F according to EN13501
Service temperature range	-40°C to +95°C
Noise compression through exterior case conforms to DIN-EN-ISO 5135:1999	Flexalen HRV 200/170 mm 14 dB(A) Flexalen HRV 160/125 mm 20 dB(A)
Recyclability	100%

Flexalen® HRV Pressure drop



Availability

For HRV Units 125mm (System diameter OD160/ID125)

Product code	Product description	Sales unit [pcs]	Dimension packaging unit [mm]	Weight packaging unit [kg]
1900-160125-000	HRV Pre-insulated Duct OD160/ID125, straight length, 2m	8	600x400x2060	22.75
1900-160160-040	HRV Connector OD160/ID160	80	400x370x250	8.33
1900-160125-040	HRV Connector asymmetric OD160/ID125	50	400x370x250	6.40
1900-160125-041	HRV Connector OD160/ID125	50	400x370x250	6.00
1900-160125-010	HRV Pre-insulated Elbow 90°/45° OD160/ID125	13	600x400x700	5.29
1900-160125-020	HRV Pre-insulated T-piece 90° OD160/ID125	10	600x400x700	4.60
1900-160125-060	HRV Wall Terminal OD160/ID125	1	265x265x255	0.87
1900-160125-061	HRV Pre-insulated Roof Terminal OD160/ID125	1	300x300x1000	3.10
1900-160125-090	HRV Flat Flashing OD160/ID125	1	590x400x770	0.40

For HRV Units 150 / 160 / 180 mm (System diameter OD200/ID170)

Product code	Product description	Sales unit [pcs]	Dimension packaging unit [mm]	Weight packaging unit [kg]
1900-200170-000	HRV Pre-insulated Duct OD200/ID170, straight length, 2m	6	600x400x2060	20.75
1900-200200-040	HRV Connector OD200/ID200	50	400x370x250	7.05
1900-200150-040	HRV Connector OD200/ID150	40	400x370x250	6.35
1900-200180-040	HRV Connector OD200/ID180	50	400x370x250	6.85
1900-200170-010	HRV Pre-insulated Elbow 90°/45° OD200/ID170	8	600x400x700	5.80
1900-200170-020	HRV Pre-insulated T-piece 90° OD200/ID170	8	600x400x700	4.60
1900-200170-125	HRV Pre-insulated T-piece 90° OD200/ID170-125	8	600x400x700	4.52
1900-200170-060	HRV Wall Terminal OD200/ID170	1	265x265x255	0.89
1900-200170-061	HRV Pre-insulated Roof Terminal OD200/ID170	1	300x300x1000	3.40
1900-200170-090	HRV Flat Flashing OD200/ID170	1	590x400x850	0.50

