

TUBE I Brochure

Insulated ventilation ducting system by Systemair

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

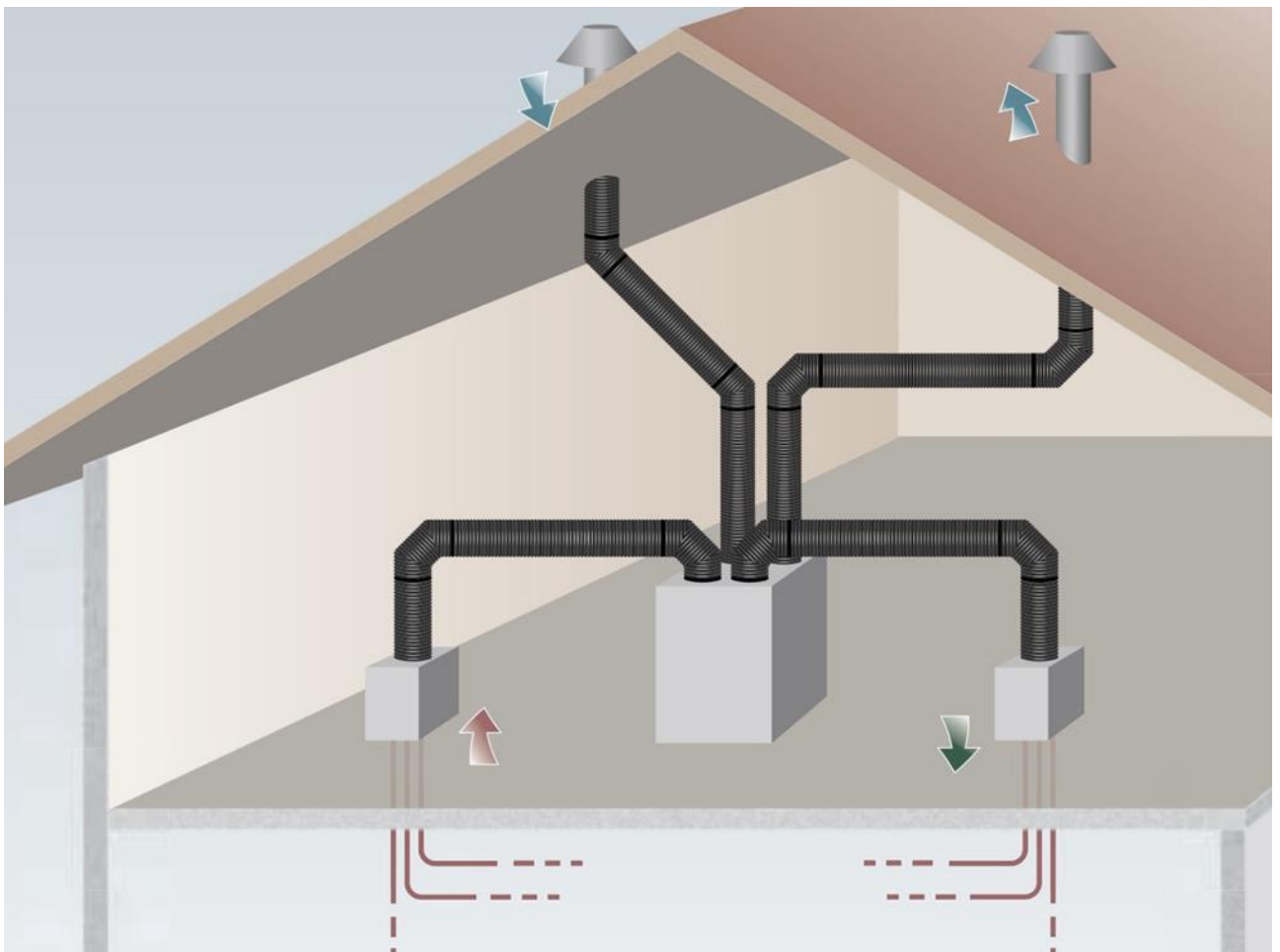
Polyethylene corrugated pipe, PE
Flexibility and mechanical protection

Applications

- Ventilation system with heat recovery

System Description

TUBE I insulated ducting system 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 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 TUBE I 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 a limited number of items from the TUBE I assortment. In this way, TUBE I requires minimum warehouse space and allows the installer to lay out a complete distribution network with fewer elements.



Technische Properties

Insulation Layer		Protection Casing	
Material	Polyolefin foam insulation	Material	Polyethylene
Structure	Closed-cell structure, CFC-free	Structure	Corrugated, Solid ring, dimensionally stable, mechanically strong and shockproof
Inner diameter	125 mm 170 mm 200 mm	Outer diameter	160 mm 200 mm 250 mm
Thermal conductivity (λ)	0,040 W/ m·K (160/125, 200/170) 0,038 W/ m·K (250/200)	Scent	neutral
Water resistant properties	Water repellent, vapour diffusion tight; no risk of corrosion, moss or mould forming	Colour	black
Chemical constancy	excellent		
Indentation resistance	excellent		

Complete System

Fire Classification	SBI Euroclass E according to EN13501
Service temperature range	-40°C to +95°C
Noise compression through exterior case conforms to DIN-EN-ISO 5135:1999	TUBE I 160/125 mm 20 dB(A) TUBE I 200/170 mm 14 dB(A)
Airtightness EN 12237:2003	Class C*
Cradle-to-Cradle-certification	Silber**
RoHS Directive 2011/65/EU	compliant
Recyclability	100%

*160/125; 200/170 und 250/200 in combination with safety straps or cable ties. ** 160/125, 200/170

TUBE I Pressure Drop

