TQ-Air

Insulated ventilation ducting 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

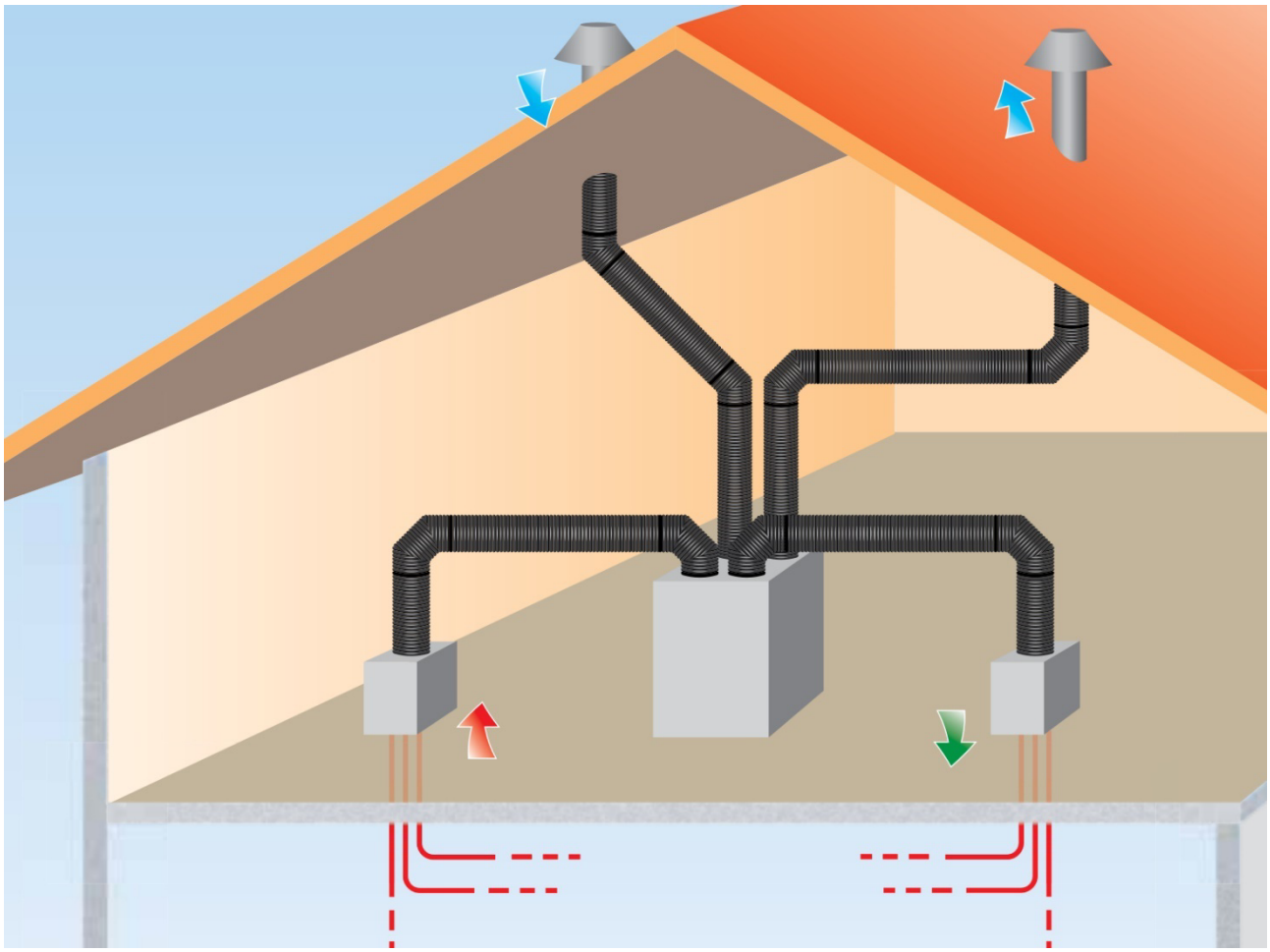
Disclaimer
All recommendations and information provided on this data sheet are based on our knowledge and experience. Product specifications are intended as guidelines. Since conditions of service are beyond our control, users must satisfy themselves that products are suitable for the intended use. No guarantee or warranty is given or implied or that any use of products will not infringe rights belonging to other parties. We reserve the right to change product design and properties without notification.

System Description

TQ-Air 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 TQ-Air 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 TQ-Air assortment. In this way, TQ-Air requires minimum warehouse space and allows the installer to lay out a complete distribution network with fewer elements.



Technical Properties

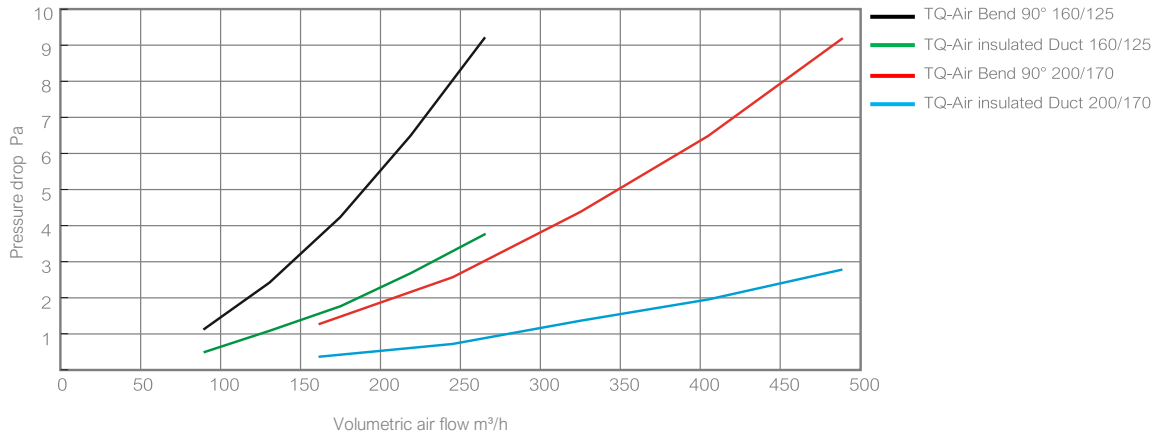
Insulation Layer	
Material	Polyolefin foam insulation
Structure	Closed-cell structure, CFC-free
Inner diameter	125 mm 170 mm 200 mm
Thermal conductivity (λ)	0.040 W/m·K (160/125, 200/170) 0.038 W/m·K (250/200)
Water resistant properties	Water repellent, vapour diffusion tight; no risk of corrosion, moss or mould forming
Chemical constancy	excellent
Indentation resistance	excellent

Protection Casing	
Material	Polyethylene
Structure	Corrugated, Solid ring, dimensionally stable, mechanically strong and shockproof
Outer diameter	160 mm 200 mm 250 mm
Scent	neutral
Colour	black

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	TQ-Air 160/125 mm 20 dB(A) TQ-Air 200/170 mm 14 dB(A) TQ-Air 250/200 mm XX dB(A)
Recyclability	100%
Cradle to Cradle certification	Silver*

* 160/125, 200/170 – 250/200 certification in progress.

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	TQ-Air insulated Duct OD160/ID125, 2m, 8 pcs	8	600x400x2060	22,75
1900-160125-001	TQ-Air insulated Duct OD160/ID125, 2m, 35 pcs	35	1200x800x2019	114,00
1900-160160-040	TQ-Air Connector OD160/OD160	80	400x370x250	8,65
1900-160125-040	TQ-Air Connector asymmetric OD160/OD125	50	400x370x250	6,65
1900-160125-041	TQ-Air Connector symmetric OD160/OD125	50	400x370x250	6,15
1900-160125-010	TQ-Air Bend 90° OD160/ID125, 13 pcs	13	600x400x700	5,29
1900-160125-011	TQ-Air Bend 45° OD160/ID125, 26 pcs	26	600x400x700	5,29
1900-160125-020	TQ-Air T-piece 90° OD160/ID125, 10 pcs	10	600x400x700	4,60
1900-160125-060	TQ-Air Wall Terminal OD160/ID125 black	1	265x265x255	0,87
1900-160125-063	TQ-Air Wall Terminal OD160/ID125 white	1	265x265x255	0,87
1900-160125-061	TQ-Air Roof Terminal OD160/ID125 L1000 black	1	300x300x1000	3,10
1900-160125-062	TQ-Air Roof Terminal OD160/ID125 L1500 black	1	300x300x1500	4,20
1900-160125-090	TQ-Air 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	TQ-Air insulated Duct OD200/ID170, 2m, 6 pcs	6	600x400x2060	20,75
1900-200170-001	TQ-Air insulated Duct OD200/ID170, 2m, 24 pcs	24	1200x800x2019	102,00
1900-200200-040	TQ-Air Connector OD200/OD200	50	400x370x250	7,15
1900-200150-040	TQ-Air Connector OD200/OD150	40	400x370x250	6,25
1900-200180-040	TQ-Air Connector OD200/OD180	50	400x370x250	6,65
1900-200170-010	TQ-Air Bend 90° OD200/ID170, 8 pcs	8	600x400x700	5,80
1900-200170-011	TQ-Air Bend 45° OD200/ID170, 16 pcs	16	600x400x700	5,80
1900-200170-020	TQ-Air T-piece 90° OD200/ID170, 8 pcs	8	600x400x700	4,60
1900-200170-125	TQ-Air T-piece 90° OD200/ID170-125, 8 pcs	8	600x400x700	4,52
1900-200170-060	TQ-Air Wall Terminal OD200/ID170 black	1	265x265x255	0,89
1900-200170-063	TQ-Air Wall Terminal OD200/ID170 white	1	265x265x255	0,89
1900-200170-061	TQ-Air Roof Terminal OD200/ID170 L1000 black	1	300x300x1000	3,40
1900-200170-062	TQ-Air Roof Terminal OD200/ID170 L1500 black	1	300x300x1500	4,60
1900-200170-090	TQ-Air Flat Flashing OD200/ID170	1	590x400x850	0,50

For HRV Units 200 mm (System diameter OD250/ID200)

Product code	Product description	Sales unit [pcs]	Dimension packaging unit [mm]	Weight packaging unit [kg]
1900-250200-001	TQ-Air insulated Duct OD250/ID200, 2m, 14 pcs	14	1200x800x2019	71,00
1900-250250-040	TQ-Air Connector OD250/OD250	40	400x370x250	5,85
1900-250200-010	TQ-Air Bend 90° OD250/ID200, 4 pcs	4	600x400x700	3,40
1900-250200-011	TQ-Air Bend 45° OD250/ID200, 8 pcs	8	600x400x700	3,40
1900-250200-020	TQ-Air T-piece 90° OD250/ID200, 4 pcs	4	600x400x700	2,80
1900-250200-125	TQ-Air T-piece 90° OD250/ID200-125, 4 pcs	4	600x400x700	2,76
1900-250200-040	TQ-Air Connector OD250/OD200	40	400x370x250	5,85
1900-250200-060	TQ-Air Wall Terminal OD250/ID200 black	1	265x265x255	0,89
1900-250200-063	TQ-Air Wall Terminal OD250/ID200 white	1	265x265x255	0,89
1900-250200-061	TQ-Air Roof Terminal OD250/ID200 L1000 black	1	300x300x1000	3,40
1900-250200-090	TQ-Air Flat Flashing OD250/ID200	1	590x400x850	0,50