

## FLEXIBLE DUCTS VENTIFLEX VTX-DN 90

### CONSTRUCTION TECHNIQUE

Flexible PE ducts for construction technologies



#### Technical data

The VENTIFLEX® ducts are designed to construct mechanical ventilation systems i.e. manifold ventilation. Due to the enlarged internal diameter, it's possible to let noiseless over the complete range of airflow 55 m³/h.

They can also be used to distribute cool air from the ground heat exchanger and warm heating air e.g. from the fireplace heating - through the special heating system.

Owing to small diameters, the ducts can be totally hidden in the floor under the screed, under plasters in the framing construction or in the wall grooves. Because of the high circumferential stiffness, they can be placed in the ceiling being poured e.g. Filigran ceiling.

#### Dimensions

Outside diameter	92 mm
Inside diameter	78 mm
Minimum bend radius	1 D

#### Resistance to external pressure

Resistance to external pressure 143 N  
 Pt. 5.6 Norm PN-EN 17192

#### Type of duct

Composite, double layer pipe

#### Material

High quality PE polyethylene ( without recycling) . Bactericidal and anti-static inner layer with large micro-silver with PZH approval: HK-K-0722-01-2017

#### Pollution

Only new highest quality materials are used, without milling and recycling. PE is classified as a safe substance because of health and toxicologically harmless in accordance with Directive 1999/45 / WE.

#### Operating temperatures

Min. - 25°C / Max. 70 °C  
 Pt. 5.4 Norm PN-EN 17192

#### Duct length

50 m elastic ring materials  
 The ends of the ducts are sealed with plugs to prevent contamination

#### Color

Outer tube: blue  
 Inner tube: white

#### Storage

In the case of a product packed in black bags ( UV stabilized)  
 - outdoor storage up to 12 months.

#### National technical specification

7a. Polish Product Norm: PN-EN 17192:2019-01

Airtightness

Class: ATC 3  
 Pt. 5.2 Norm PN-EN 17192

Reaction to fire

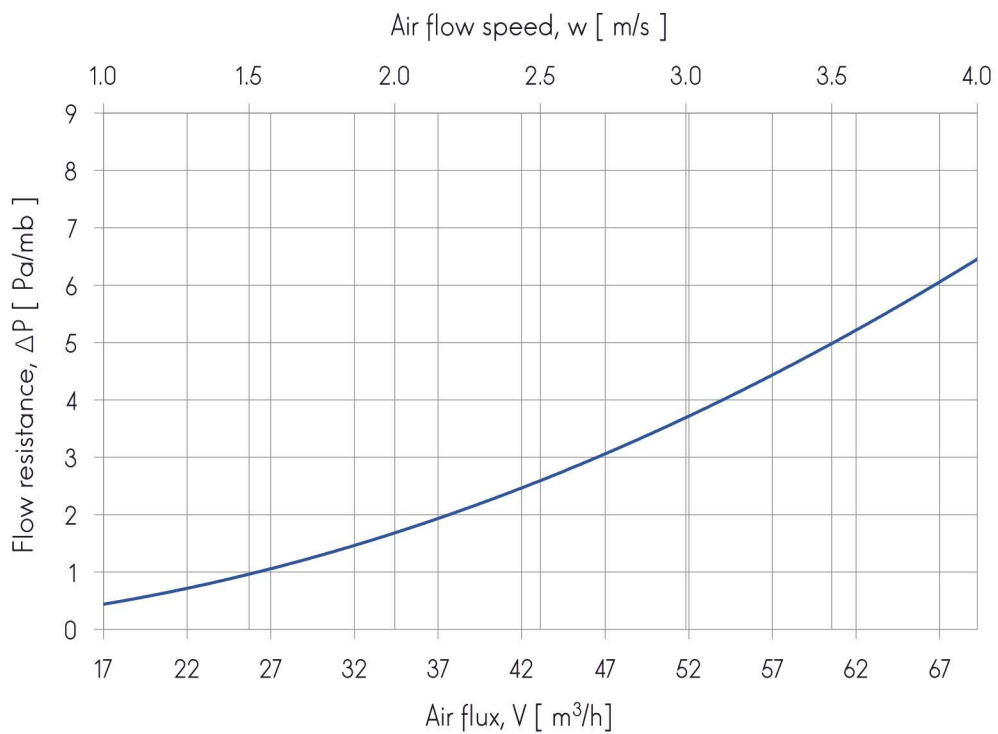
Class: E  
 Pt. 5.5 Norm PN-EN 17192, PN-EN 13501-1

Microbiological activity

The sample shows antibacterial activity against the used standard bacterial strains  
 Escherichia coli R=2,09; Staphylococcus aureus R=4,57  
 Pt. 5.8 Norm PN-EN 17192

Flow resistance

4 Pa/mb over the range of airflow 55 m<sup>3</sup>/h  
 Pt. 5.3 Norm PN-EN 17192



Ground-Therm Sp. z o.o.  
 ul. Podmiejska 35  
 41-940 Piekary Śląskie  
 tel. +48 32 231 80 20  
 biuro@ground-therm.com