

# Zehnder ComfoTube 110 mm

Semi-rigid ductwork

Product data sheet always the best climate





# ComfoTube 110 mm

The Zehnder ComfoTube 110 mm is a high performance semi-rigid ductwork ideal for residential applications using decentralised mechanical extract ventilation (dMEV). The clinside smooth internal lining help to reduce build up of dust and enable the ductwork to be cleaned. The ductwork is fully accredited and listed on the PCDB.

The ductwork can be installed much faster than conventional ductwork with a reduced number of connections helping to reduce any potential air leakage within the system resulting in reduced noise levels and running costs. The O-rings and locking slides also help to prevent the ductwork being disconnected during first fix and maintain an airtight seal. End caps are also available to prevent dust ingress during first fix to maintain a hygienic system.



#### **Key Features**

- Easy and quick to install
- Airtight
- High-quality food-grade plastic (HDPE)
- Fully accredited and listed on the PCDB
- Low pressure losses
- Easy to clean
- Suitable for installation in the building concrete structure
- Crush resistant a ring stiffness of >8 kN/m²
- Corrosion resistant
- Lightweight and easy to handle
- No sealant or tape required
- Suitable for use with the CV2CTA110 and CV2.1CTA110 dMEV

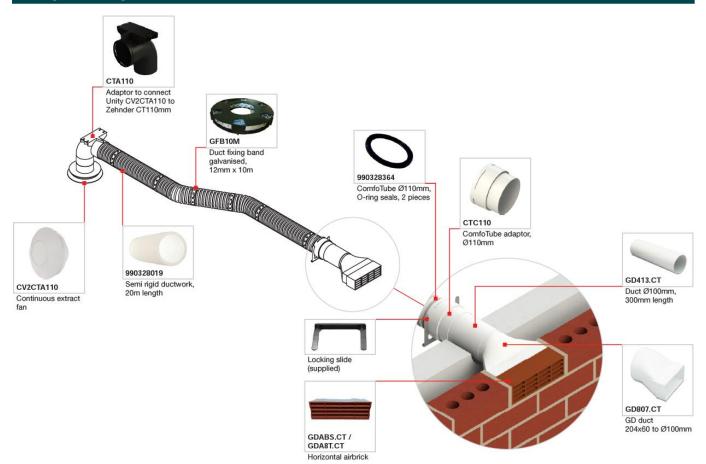
Description	Product Code
·	
<b>Ductwork</b> Zehnder ComfoTube Ø 110 mm, 50 m roll	990 328 018
Zehnder ComfoTube Ø 110 mm, 20 m roll	990 328 019
Ancillaries	
CTA110 adaptor to connect Unity CV2CTA110 to Zehnder CT110 mm	CTA110
Fire collar ø 100mm for CV2GIP, CV2.1 and CV3, ceiling mounting, 50mm depth	FIRO100.SPV
Connector to fix Zehnder ComfoTube DN110 to GG82W 125 mm Grille	990 328 111
Connector to fix Zehnder ComfoTube DN110 to GD413.CT	CTC110
Zehnder ComfoTube ø 110 mm, locking slides, 2 pieces	990 326 014
Zehnder ComfoTube ø 110 mm, end caps, 2 pieces	990 328 264
Zehnder ComfoTube ø 110 mm O-ring seal, 2 pieces	990 328 364
GD rectangular ducting, GD4 ø 100 mm to GD8 204x60 adaptor	GD807.CT
GD round ducting, GD4 pipe, ø 100 mm x 350 mm	GD413.CT
Duct fixing band, galvanised, 12 mm x 10 m	GFB10M
Fixing worm drive clip, ø 180 mm	FC180
Insulated Flexiduct ø 150 mm, aluminium, 5 m pipe	GFA6.5I
Insulated Flexiduct ø 150 mm, aluminium, 10 m pipe	GFA6.10I

ComfoTube 110 mm



# Article Numbers Description Product Code External terminals External terminal, square louvred vent, ø 125 mm connector, brown GG82B External terminal, square louvred vent, ø 125 mm connector, white GG82W External terminal, horizontal airbrick, GD8 204x60 mm connector, sand GDA8S.CT External terminal, horizontal airbrick, GD8 204x60 mm connector, terracotta GDA8T.CT Roof terminal with universal stepped adaptor, connects ø 100, 110, 125, 150 and 160 mm pipe, black RTUB41

#### 3D System Layout





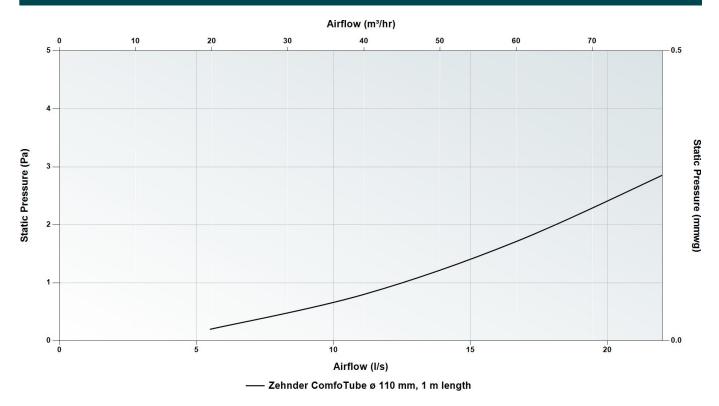
#### Zehnder ComfoTube ø 110 mm, 20/50 m roll

Article number: 990 328 018 / 990 328 019



High-quality food-grade plastic polyethylene (PE)
-25 to +40°C
22.2 l/s (80 m³/h)
2 x diameter
110 mm
92 mm
0.55 kg/m
E
>8 kN/m²
Yes
1780 mm
500 mm

#### **Pressure Curve**



#### **Sound Data**

	Octave Band (Hz) Insertion Loss, dB					
	125	250	500	1000	2000	4000
Zehnder ComfoTube ø 110 mm, 1 m length	0.5	0.4	0.5	0.5	0.7	0.8

Acoustic performance measured according to EN ISO 7235 (pink noise)

■ Supported using GFB10M galvanised duct fixing banding, 12 mm x 10 m

#### ComfoTube 110 mm



# CTA110 adaptor to connect Unity CV2CTA110 to Zehnder CT110 mm

Article number: CTA110

#### **Description**

#### Adaptor:

Zehnder ComfoTube ø 110 mm, adaptor. The adaptor is used to connect the CV2CTA110 dMEV fan to Zehnder ComfoTube ø 110 mm ductwork at a 90 degree angle, as featured on the (PCDB) Product Characteristic Database, and comes complete with locking slide.

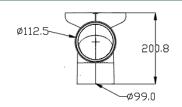
#### **Technical Specification**

Height	200.8 mm
Width	171.9 mm
Depth	181 mm
Weight	0.32 kg
Material	Acrylonitrile butadiene styrene (ABS)

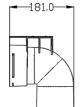


#### **Dimensions**

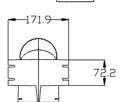
Front View



Side View



Top View



# Fire collar ø 100mm for CV2GIP, CV2.1 and CV3, ceiling mounting, 50mm depth

Article number: FIRO100.SPV

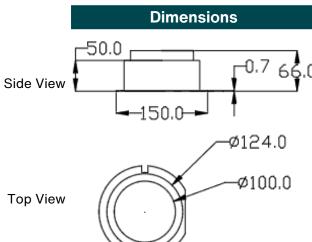
#### **Description**

#### Fire collar:

Recessed ceiling fans are commonplace in domestic buildings, primarily for aesthetic gains. Ceilings are subject to fire regulations and must be fire protected in accordance with Approved Document B. To support this, any holes that are made for ceiling fans must be fire stopped, in order to reinstate the original fire rating of the ceiling. To satisfy this requirement the fire collar for ceiling fan has been developed to provide protection for holes created by 100 mm ceiling fans. The Fire Damper for Ceiling Fan is both quick and easy to install and has been independently approved with Unity CV2, CV2.1 and CV3 extract fans.

Length	66 mm
Diameter ID	100 mm
Diameter OD	124 mm
Weight	0.5 kg
Material	Modified steel / fire wrap
Fire Tested to BS EN 1365-2 standard	30 minute fire rating Tested in Timber / Metal Web Joist system





#### ComfoTube 110 mm

# Connector to fix Zehnder ComfoTube DN110 to GG82W 125 mm Grille

Article number: 990 328 111

#### **Description**

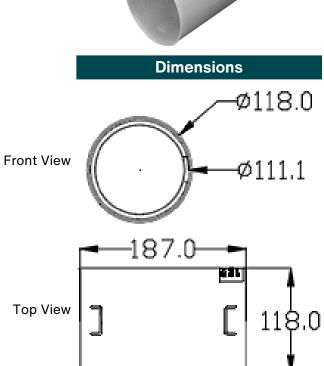
#### Pipe connector:

Zehnder ComfoTube ø 110 mm, pipe connector. The connector is used to join two lengths of Zehnder ComfoTube ø 110 mm together to create an airtight and robust seal using O-rings, alternatively it can be used to connect Zehnder ComfoTube ø 110 mm to a GG82B/W 125 mm external grille

#### **Technical Specification**

Length	187 mm
Diameter ID	111.1 mm
Diameter OD	118 mm
Weight	0.19 kg
Material	Medium-density polyethylene





# Connector to fix Zehnder ComfoTube DN110 to ø 100 mm GD413.CT

Article number: CTC110

#### **Description**

#### Pipe connector:

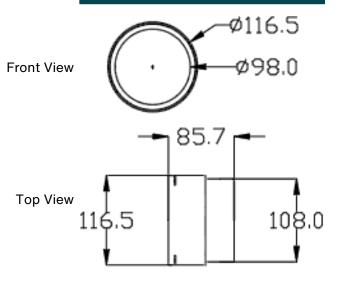
Zehnder ComfoTube ø 110 mm, pipe connector. The female connector is used to connect Zehnder ComfoTube ø 110 mm to ø 100 mm GD413.CT ø 100 mm ductwork, and comes complete with locking slide.

#### **Technical Specification**

85.7 mm
98 / 112.5 mm
108 / 116.5 mm
0.128 kg
Acrylonitrile butadiene styrene (ABS)



#### **Dimensions**





# Connection clip for Zehnder ComfoAdaptor to Zehnder ComfoTube DN110

Article number: 990 326 014

#### Description

#### Locking slide:

Zehnder ComfoTube ø 110 mm, locking slide. The locking slide is used to secure the Zehnder ComfoTube ø 110 mm ductwork without the need for messy sealants.

#### **Technical Specification**

Weight	0.051 kg (each)
Material	Galvanised steel



#### Zehnder ComfoTube ø 110 mm, end caps, 2 pieces

Article number: 990 328 264

#### **Description**

#### End caps:

Zehnder ComfoTube end caps. The 110 mm end caps can be placed within their corresponding Zehnder ComfoTube Ø 110 mm during the construction phase to prevent dust ingress. The 110 mm end caps can be placed directly into the 90 mm manifold or mounting plate to seal off any unwanted ports.

Length	55.3 mm
Diameter	102 mm
Weight	0.05 kg (each)
Material	Medium-density polyethylene



#### Zehnder ComfoTube 110 mm O-ring seal, 2 pieces

Article number: 990 328 364

#### Description

#### O-ring:

Zehnder ComfoTube O-ring seal. The O-ring is used to ensure an airtight connection is made with pipe connectors, grille housings, manifold/mounting plates and connecting elements.

#### **Technical Specification**

Outside	diameter	114 mm
Outside	ulallietei	114 111111

Catolac diameter 111 mm			
Inside diameter	93 mm		
Weight	0.015 kg (each)		
Material	EPDM (Ethylene Propylene Diene Monomer)		



# GD rectangular ducting, GD4 ø 100 mm to GD8 204x60 adaptor

Article number: GD807.CT

#### **Description**

#### Pipe connector:

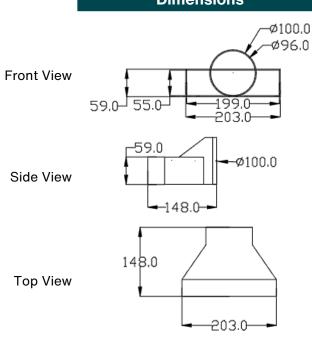
204x60 to  $\emptyset$  100 mm, pipe connector. The female connector is used to connect  $\emptyset$  100 mm GD413.CT to a GDA8S.CT or GDA8T.CT 204x60 mm airbrick.

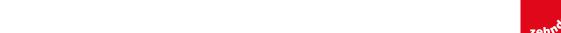
#### **Technical Specification**

Height	100 mm
Width	203 mm
Depth	148 mm
Weight	0.152 kg
Material	High Impact Polystyrene



#### Dimensions





#### GD round ducting, GD4 pipe, ø 100 mm x 350 mm

Article number: GD413.CT

# **Description Ductwork:**

The pre-cut 350 mm ø 100 mm ductwork is ideal for through wall terminations connecting the CTC110 and GD807.CT

#### **Technical Specification**

Length	350 mm	
Outside diameter 103.2 mm		
Inside diameter	100 mm	
Weight	0.233 kg	
Material	aterial Polyvinyl Chloride Un-plasticised (PVCu)	



# Front View Top View Dimensions #103.2 #350.0 103.2

#### Duct fixing band, galvanised, 12 mm x 10 m

Article number: GFB10M

#### Description

Perforated metal banding to securely fix ductwork.

Length	10 m
Width	12 mm



# 8

#### Fixing worm drive clip, ø 180 mm

Article number: FC180

#### **Description**

#### Fixing:

Worm drive clip to secure ductwork in place. These quick release worm drive clamps are easy to install and remove due to the swivel action locking of the screw.

60-170 mm

#### **Technical Specification**

Clamping capacity / range



#### Insulated Flexiduct ø 150 mm, aluminium

Article number: GFA6.5I / GFA6.10I

#### Description

#### **Ductwork:**

Preinsulated aluminium flexible ductwork to minimise condensation when passing ductwork through a cold area such as a roof space. Manufactured to BS456 Parts 6 and 7 Class 0.

#### **Technical Specification**

Length	5 m / 10 m
Outside diameter	202 mm
Inside diameter	152 mm
Operating temperature	-30 to +150°C
Material	Aluminium / Polyester



ComfoTube 110 mm



# External terminal, square louvred vent, ø 125 mm connector

Article number: GG82B / GG82W

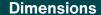
#### Description

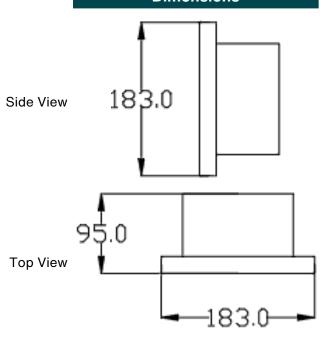
#### **Termination:**

Termination for ø 125 mm duct system to securely connect to a straight length of duct.

RAL colour	Brown (RAL8017) / White (RAL9003)	
Height	163 mm	
Width	163 mm	
Depth	38 mm	
Material	High Impact Polypropylene	
Free area	11,500 mm <sup>2</sup>	
Core drill diameter 127 mm		









# External terminal, horizontal airbrick, GD8 204x60 mm connector

Article number: GDA8S.CT / GDA8T.CT

#### Description

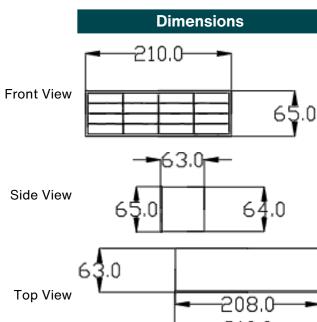
#### **Termination:**

Termination for 204x60 duct system to securely connect to GD807.CT adaptor.

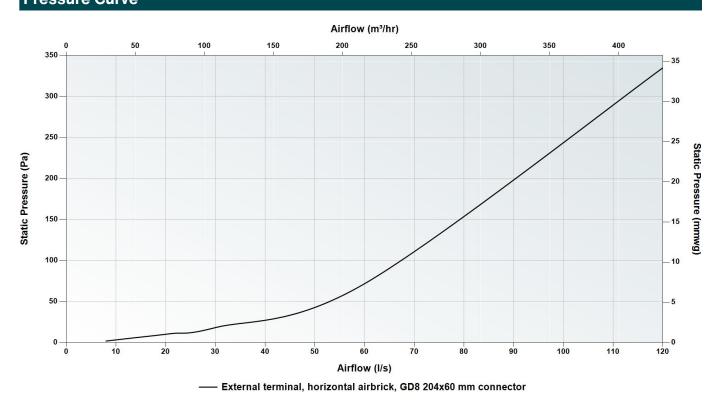
#### **Technical Specification**

RAL colour	Sand (RAL1001) / Terracotta (RAL2001)	
Height	65 mm	
Width	210 mm	
Depth	63 mm	
Weight	0.115 kg	
Material	High Impact Polypropylene	
Free area	7680 mm²	





#### **Pressure Curve**



ComfoTube 110 mm



# Roof terminal with universal stepped adaptor, connects ø 100, 110, 125, 150 and 160 mm pipe, black

Article number: RTUB41

#### Description

#### **Termination:**

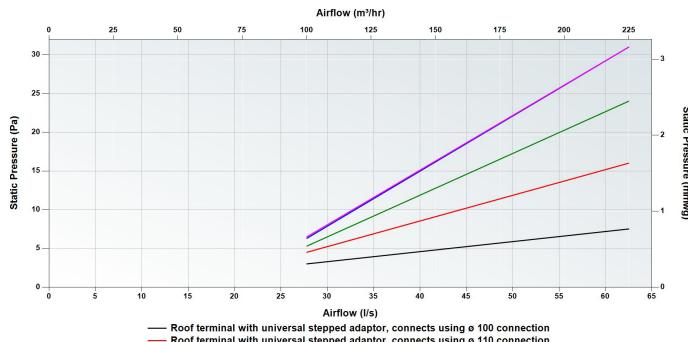
The RTUB41 has a stepped adaptor for use with a range of connections between 100-160 mm. The roof terminal can be used on most tiled and slated pitched roofs and comes complete with a 500x500 mm flashing skirt and streamlined box hood on a circular upstand.

#### **Technical Specification**

rechnical Specification	
RAL colour	Anthracite (RAL7016)
Height (hood / adaptor)	120 mm / 215 mm
Width (hood / flashing)	220 / 500 mm
Depth (hood / flashing)	280 / 500 mm
Diameter	100 / 110 / 125 / 150 / 160 mm
Adaptor length	215 mm
Weight	1.53 kg
Material	Polyvinyl Chloride Un- plasticised (PVCu)
Free area	100 mm - 7,850 mm <sup>2</sup> 110 mm - 8,850 mm <sup>2</sup> 125 mm - 12,250 mm <sup>2</sup> 150 mm - 17,775 mm <sup>2</sup> 160 mm - 18,750 mm <sup>2</sup>
Min roof pitch	22.5°



#### **Pressure Curve**



Roof terminal with universal stepped adaptor, connects using ø 100 connection
 Roof terminal with universal stepped adaptor, connects using ø 110 connection
 Roof terminal with universal stepped adaptor, connects using ø 125 connection
 Roof terminal with universal stepped adaptor, connects using ø 150 connection
 Roof terminal with universal stepped adaptor, connects using ø 160 connection



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ComfoTube 110 mm



#### **Consultant Specification**

#### Specification

The semi-rigid ductwork shall be duel wall constructed of high-quality food-grade plastic PE with a crush resistant ring stiffness of >8 kN/m². It shall be suitable for installation into concrete with a fire rating in accordance with EN 13501-1 of E. It shall have an operating temperature range of -25 to +60°C and not be designed to exceed flowrates of 22.2 l/s.

The ductwork shall be accredited for use in SAP Appendix Q.

The ductwork shall be manufactured by Zehnder.

ComfoTube110mm\_Technical\_Specification\_2023\_V5

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