

# VILPE<sup>®</sup> Ross ventilation pole

Crawl space ventilation and air intakes



## Material

VILPE products have been successfully used for 30 years in the toughest imaginable Nordic climate. The Ross ventilation pole, like all other VILPE products, is durable and made of through-coloured, recyclable, corrosion-, weather- and impact-proof polypropylene (PP) plastic, complete with UV protection.

The material can withstand continuous temperatures ranging from -30°C to +80°C and short-term temperatures from -40°C to +120°C.

The manufacturing material is not suitable for long-term use with certain strong oxidizing agents or strong solvents, i.e. sulfuric acid, xylene, turpentine, etc.

## Standard colours

-  Red
-  Off-white
-  Beige
-  Light Grey
-  Black
-  Grey

Check the RAL codes for the product colours on our website:



[vilpe.com/colour](http://vilpe.com/colour)

Due to technical reasons in print production, actual product colours may differ from those shown in this brochure.

For RAL equivalents of the product colors, please visit our website: [www.vilpe.com/colour](http://www.vilpe.com/colour)

Ross 125 and 160, as well as Ross renovation sets, are available in six standard colours. Ross 125 is also available in chocolate brown. Ross 200 is available in three colours: light grey, black and grey.

## Ross ventilation poles



Ross ventilation pole  
125/135



Ross ventilation pole  
160/170



Ross ventilation pole  
200/210

## Ross renovation sets



Ross renovation set  
125/110



Ross renovation set  
160/160

Explore the Ross product selection online: [vilpe.com/en/ross](http://vilpe.com/en/ross)



# An elegant choice for crawl space ventilation

The Ross ventilation pole is an elegant solution for ventilating crawl spaces and improving airflow to reduce moisture and radon issues.

It can also function as an air intake, for example, for a basement sauna, fireplace, or ventilation unit. Additionally, it can serve as an outlet or inlet for mechanical radon exhaust ventilation systems for crawl spaces.

The Ross ventilation pole is compatible with the ventilation systems of all types of buildings. The Ross 200 model is particularly well-suited for larger structures, including blocks of flats and lift shafts.

Air flows through the ventilation pole without forming airlocks or harmful air pockets. The product is designed to prevent snow, debris, and pests from entering the crawl space.

## Installation instructions

The ventilation pole is easy to install. The Ross ventilation pole set includes a cowl, a vertical pipe, wall fastenings with screws, an angle pipe and detailed installation instructions. In the Ross renovation set, the angle pipe is replaced by an adapter, which is used to connect the Ross ventilation pole to existing piping.

The length of the pipe can be easily adjusted. For a longer pipe, multiple vertical pipes can be connected. If a shorter pipe is required, the cowl can be mounted directly onto the angle pipe, or the vertical pipe can be cut to the desired length.

Installation of the Ross ventilation pole:

- a. Leave space for the angle pipe or insert a supportive pipe during casting or bricklaying.
- b. Make a hole in an existing plinth.
- c. Utilise an existing ventilation pole in the plinth.

Instructions for making a hole in the existing plinth:

1. Cut the ventilation pole to the required length.
2. Assemble the pole.
3. Attach the fastenings included in the delivery package to the wall.  
- Ensure vertical alignment using a level.
4. Center the angle pipe in the hole in the plinth.
5. Insert the section of the pole that passes through the wall and plinth, then secure the pole to the wall fastenings.
6. Seal any gaps with urethane and finish the joint with filler putty.

## Annual maintenance

- Clean any dirt from the surface of the product using a mild household detergent.
- Check the tightness and condition of the screws, tightening or replacing them if necessary.
- Remove any debris from inside of the ventilation pole.
- Ensure that the condensate drain hole at the bottom of the pole is clear and unobstructed.

## Selection criteria

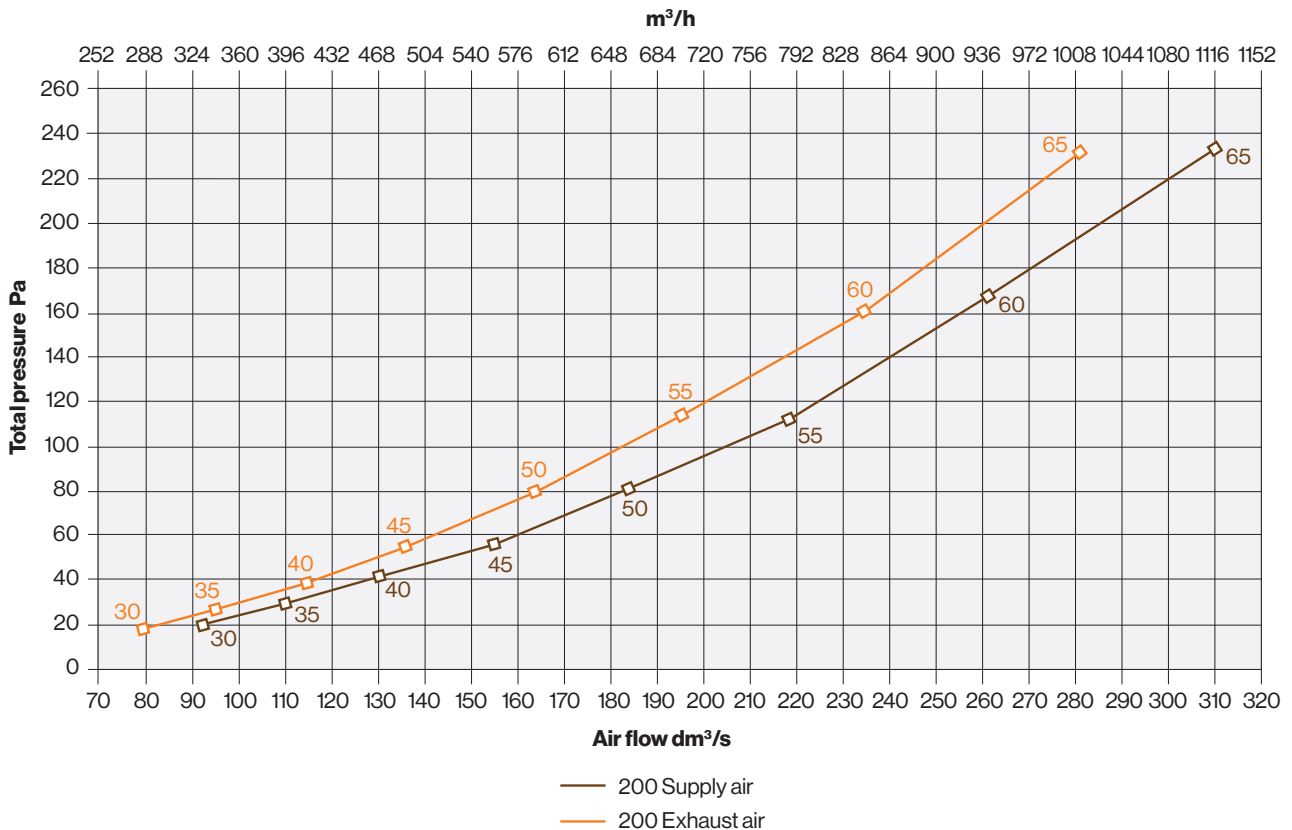
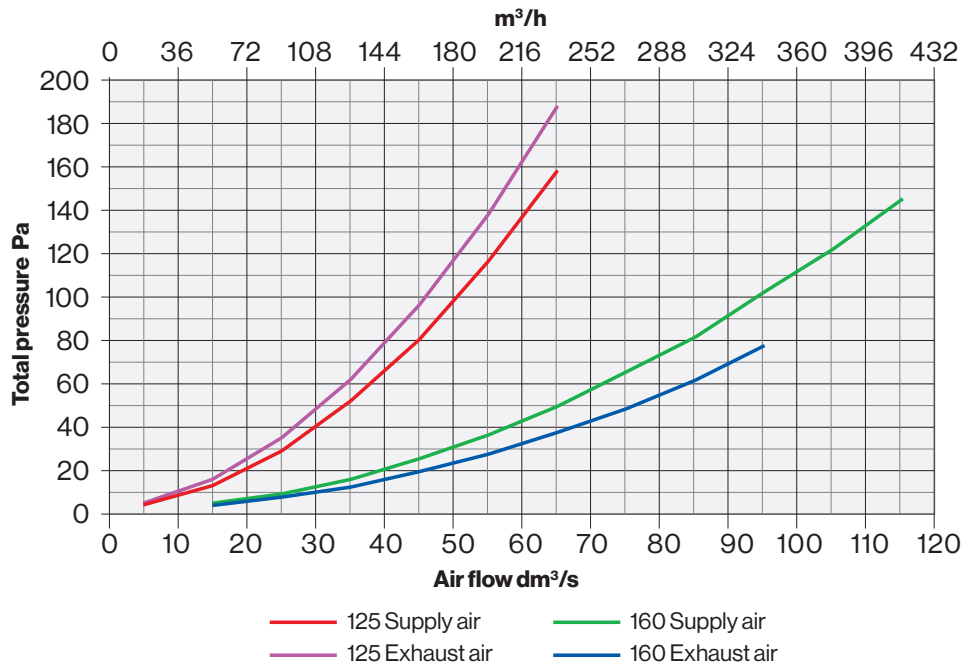
The Ross ventilation pole comes in three sizes: Ross 125, Ross 160 and Ross 200. Select the appropriate size according to the air flow through the duct. Ross 125 can be connected to a 125 mm ventilation duct, Ross 160 to a 160 mm ventilation duct and Ross 200 to a 200 mm sewage/sewer pipe socket.

The Ross renovation set is designed to connect Ross ventilation poles 125 and 160 to plastic sewage piping. The adapter included in the Ross renovation set 125/110 connects a Ross 125 pole to a 110 mm pipe, while the adapter in the renovation set 160/160 connects a Ross 160 pole to a 160 mm pipe.

You can also order vertical pipes, cowls, angle pipes, and adapters separately. The products are available in several colours, allowing you to select a ventilation pole that complements the building's architecture.

## Technical data

### Air flow reference tables



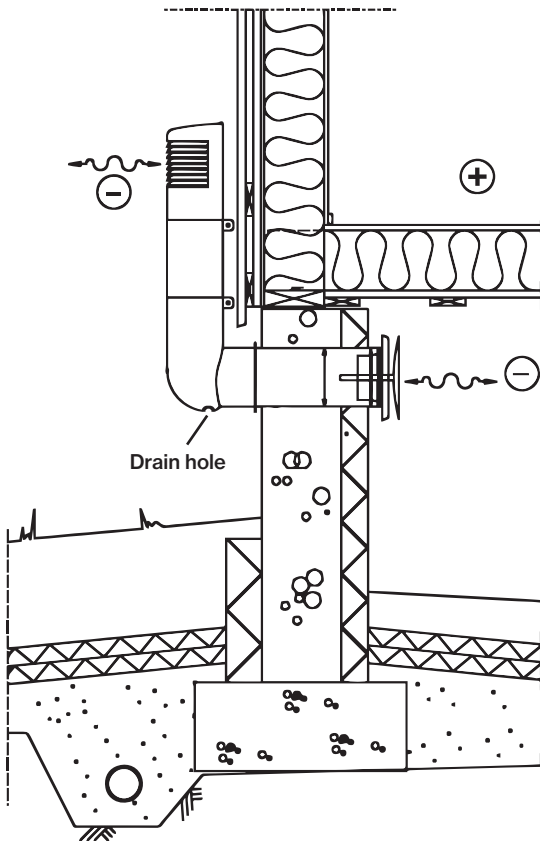
## Application

When the Ross ventilation pole is used as an intake for fresh air, its water separation capability may diminish depending on the air intake velocity. When the ventilation pipe is submerged below ground level, condensation may form inside the pipe. The amount of condensation depends on the temperature of the surrounding ground material and the humidity of the outdoor air. It is essential to ensure that rainwater and condensation water can be drained from the ventilation pipe, ventilation duct, and ventilation unit.

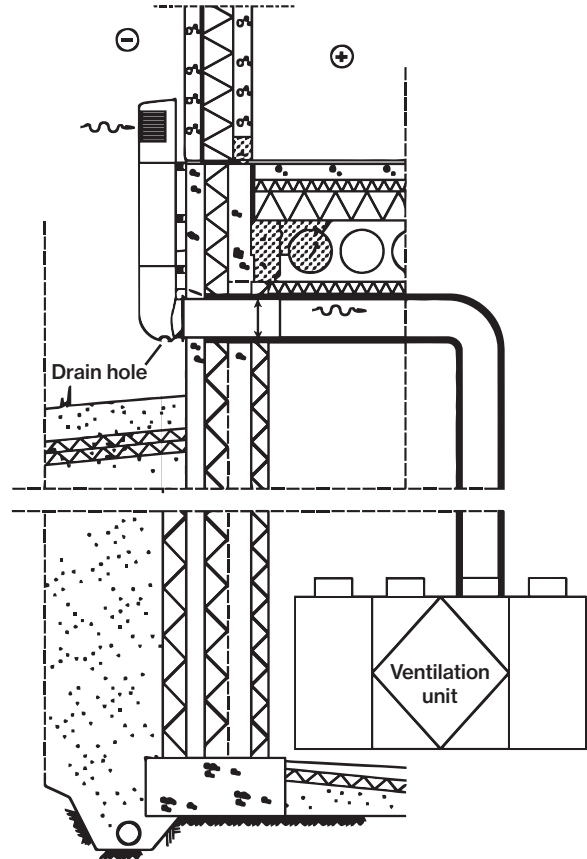
The Ross 125 and 160 models are equipped with condensate drain holes at the base of the angled pipe. This drain is not present in the Ross 200 model or the Ross renovation sets. For these, we recommend devising a specific solution for removing condensation water, such as employing evaporation pans or installing a line from the piping to a drain.

If the Ross ventilation pipe is used as an outdoor air intake for a ventilation unit, the height of the air intake above ground level must comply with national regulations.

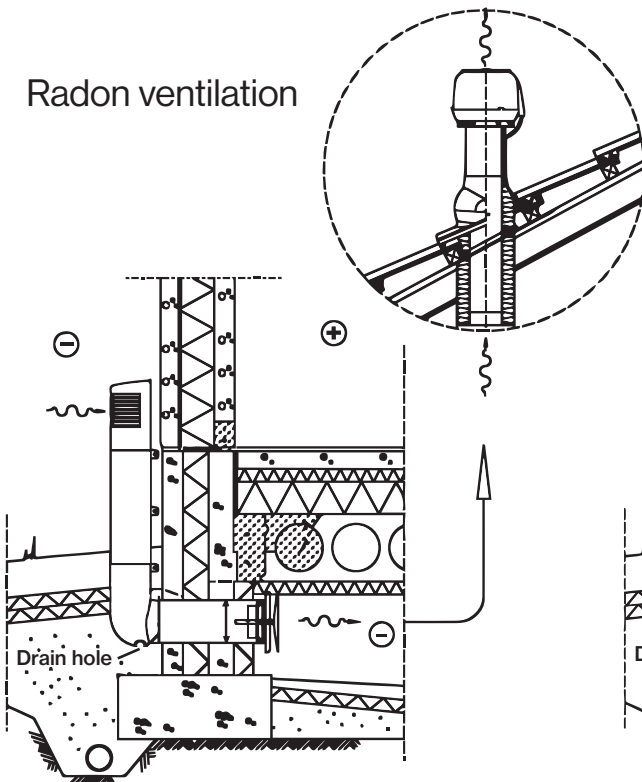
### Ventilation of the crawl space



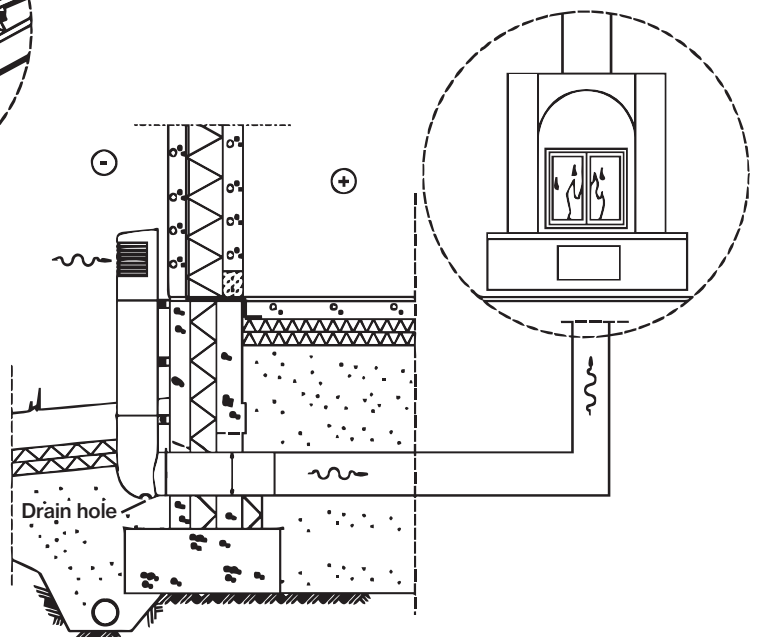
### Fresh air supply to the ventilation unit



### Radon ventilation

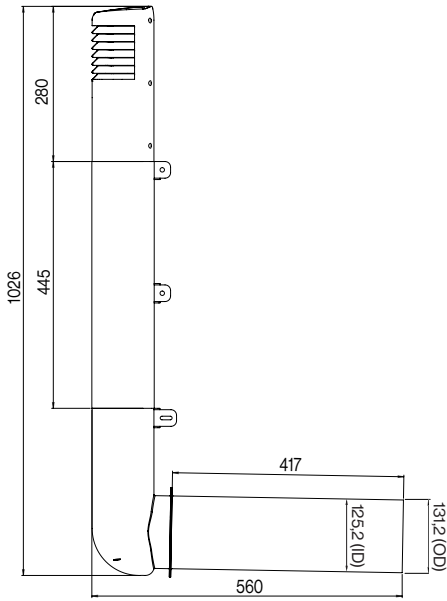


### Fresh air supply for a wood-burning stove

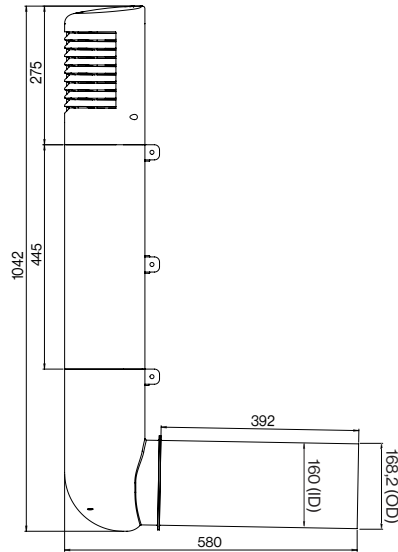


## Dimensions

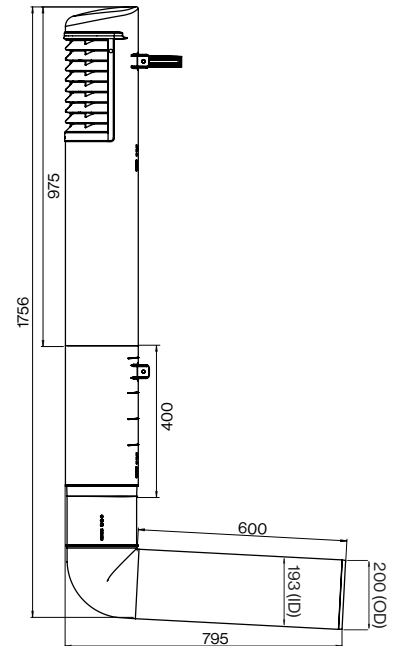
### Ross ventilaton poles (mm)



Ross 125/135

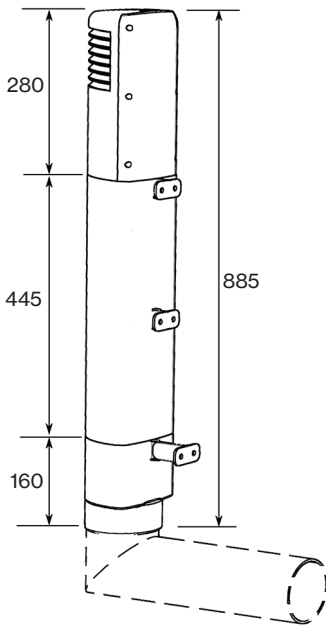


Ross 160/170

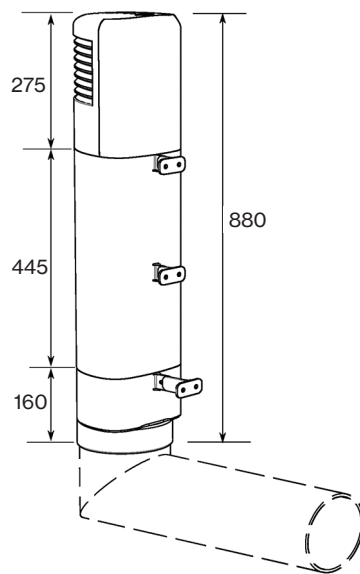


Ross 200/210

### Ross renovation sets (mm)



Ross 125/110

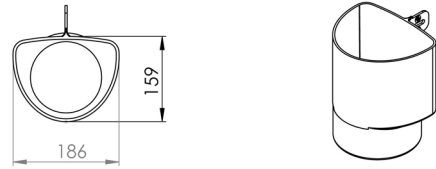
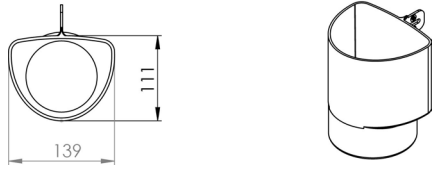
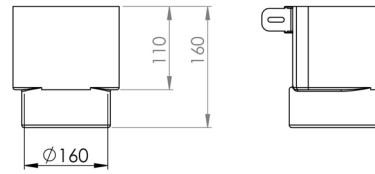
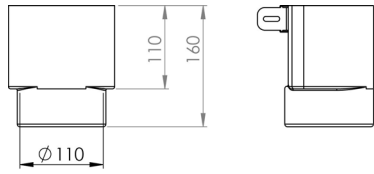


Ross 160/160

### Louvre, free area

Ross 125	95 cm <sup>2</sup>
Ross 160	208 cm <sup>2</sup>
Ross 200	560 cm <sup>2</sup>

Ross adapters (mm)



Ross 110-125

Ross 160-160





## VILPE

The VILPE products improve indoor air quality, enhance energy efficiency and extend the lifespan of buildings. The products are manufactured by VILPE, a Finnish family business known for its innovation in ventilation and specialised roofing products across Finland, the Baltics, Poland, and Scandinavia.

The high-quality, durable products are backed by a 20-year warranty on technical components and a 10-year warranty on colour.

VILPE Oy is committed to continuous product development and customer-focused innovation.

## Quality and environment

At VILPE, we actively pursue environmentally sustainable production. Our most significant green energy investment to date has been the transition from oil to geothermal heating, which has reduced factory CO<sub>2</sub> emissions by 330 tons annually. We also design energy-efficient products and aim to enhance plastic recycling opportunities throughout the product lifecycle.

The VILPE Oy management system has been granted both the ISO 9001:2015 quality certificate and the ISO 14001:2015 environmental certificate, covering product development, manufacturing, and sales of the VILPE products.