

# RS 100

Radon extractor

Operation and maintenance instructions



Radon extractor RS100 (turbine extractor) has been specially developed for radon remediation or negative pressure ventilation in buildings with foundation constructions of cellar, split-level or slab type. RS 100 has a high level of suction and is therefore particularly suitable because fill material under the building's base plate is expected to have relatively little air, creating large counterpressure. RS 100 is very quiet and can be installed in residential environments.

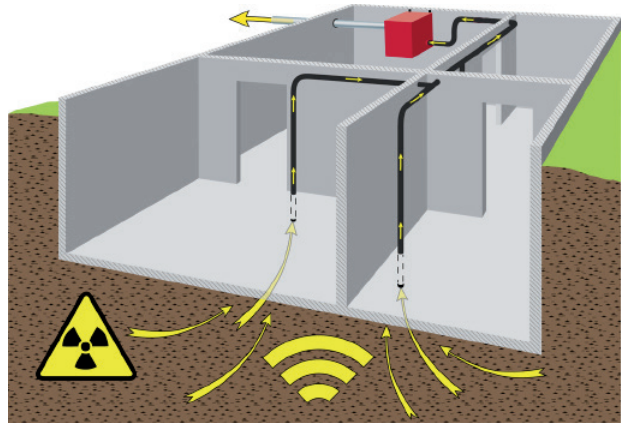
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## Function principle

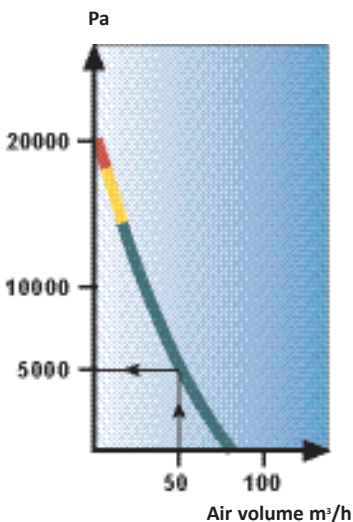
*RS100 has a 50 m hose on the pressure side which can be positioned freely up to till 50 m away from the wall lead-in.*

The extraction points in the concrete slab must be positioned centrally where the air below the concrete slab is warmest and not at outside walls.



In order for the radon level in the house to be reduced the air pressure under the concrete slab must be lower than that in the house. Because the house often stands on very compact fill material it is necessary to have an installation which has an extremely large suction capacity. To achieve this, radon extractor RS100 is connected to a pipe system that sucks up an air/radon mixture from the air pockets under the concrete slab. The dirt particles that follow in the airflow remain in the filter that is directly inside the inlet connector on the suction side (filter hatch) in RS100. When the air/radon mix has passed RS100 it is blown out to the surrounding air through a silencer and wall lead-in. The installation is designed and constructed for continuous operation.

## Air volume from the ground



Flow resistance in the fill material under the concrete slab

The “tri-coloured” curve indicates the air volume/flow resistance which is also based on the Corromatic meter on the RS100 radon extractor. At an air volume of 50m<sup>3</sup>/h the flow resistance is 5000 Pa (corresponds to 0.05 kg/cm<sup>2</sup>).

NOTE! During operation, the air volume meter must be within the green zone up to 85 m<sup>3</sup>/h. The energy consumption is usually 200-250 W. Installed output 370 W.

## Control panel

The function of the installation can be followed on the control panel.



### ***Corromatic air volume meter***

During operation, this must be within the green zone. If it displays yellow or red contact the installer.

### ***Time and energy meter***

Measures the installation's running time and power consumption.

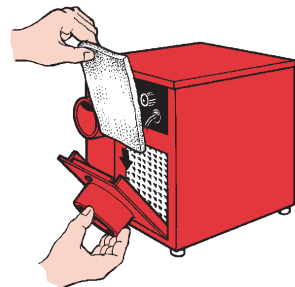
### ***ON/OFF Switch***

### ***Circuit breaker***

Sand or other dirt particles in the radon extractor may cause the turbine to stop. To prevent damaging the turbine motor the circuit breaker switches the machine off automatically. Contact the installer.

## Replacing the filter

To achieve optimal operation, i.e. the best possible suction capacity on the installation at the lowest energy cost, a clean filter is vital. The filter should be replaced at least twice a year.



# Service journal

Company: .....

Installer..... Installation date:.....

Connection suction side 2"  3"  4"  Air volume during installation..... m<sup>3</sup>/h

Date	Filter replacement YES / NO	Air volume m <sup>3</sup> /h	Operation meter hours	Signature

## Mounting kit

