



Ventilate dwellings
in noise-affected areas

Air for Life



Sonair A+ and F+

Ventilating with highly effective soundproofing

Decentral ventilation with high sound insulation

The Sonair is a decentral air supply unit that ensures uninterrupted and controlled supply of fresh, filtered outdoor air. The Sonair runs at a whisper and has superb soundproofing properties. In addition, the Sonair prevents unnecessary energy losses through uncontrolled and excessive ventilation. The Sonair creates a healthy and comfortable indoor climate, without annoying outdoor noise.

Walls under high noise levels

The Sonair is an excellent choice for projects where deadening of outdoor sound is necessary. The Sonair enables soundproofing across the exterior wall up to 56 dB(A). The Sonair's high ventilation capacity allows flushing.

Easy mounting

The Sonair can simply be mounted on the inside of an exterior wall. The unit fan sucks in outdoor air through a duct in the wall. An extensive range of wall sleeves, wall grilles and other fittings allows installation of the Sonair at almost any location without affecting the appearance of the exterior wall.

The fan sits in a sound-absorbing chamber, limiting the fan sound and noise from outside to a minimum. Then the fresh air is supplied to the room through a filter, resulting in a healthy and clean indoor climate. The supplied quantity of fresh outdoor air is set with push buttons at the top of the Sonair.



No annoying outside noise

The advantages at a glance

Low energy consumption and energy-saving

Runs at a whisper

Soundproofing

Air-cleaning

Draughtproof

Controlled air supply per room

Suitable for new projects and renovation

Simple installation for almost any application

Maintenance friendly

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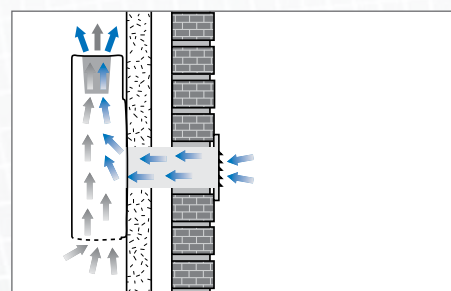
Technical specifications

Always fresh air without draught or noise

Simple control
and installation

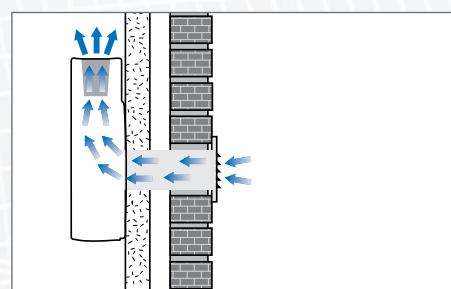
Versions

The Sonair is available as type A+ and F+. Both types ventilate with 100% outdoor air and they have excellent soundproofing qualities. The Sonair A+ also offers the option of recirculation. The mixing ratio between outdoor air and recirculation air is adjustable. This way also the indoor air can be cleaned through the built-in filter. A particular advantage for, for instance, occupants who have respiratory problems. In addition, both appliances have what is known as a diaphragm diffuser to shut off the air supply.



Sonair A+ (recirculation)

Ventilates with filtered outdoor air and then mixes it with indoor air at an adjustable ratio.



Sonair F+

Ventilates with filtered outdoor air



The quantity of fresh outdoor air is set with the push buttons at the top of the appliance.

Article	Article no.
Sonair A+ with filter ISO Coarse $\geq 45\%$ (G3) and 1.80 m mains cable	110104
Sonair F+ with filter ISO Coarse $\geq 45\%$ (G3) and 1.80 m mains cable	110100

Appliance type	Sonair (A+ and F+)
Dimensions H x W x D [mm]	455 x 310 x 134
House	Synthetic, colour white (RAL 9003)
Power supply [V~/Hz]	230/50
Ventilation capacity [dm ³ /s]	Max. flow rate of 62.5 [90 m ³ /h] with filter ISO Coarse $\geq 45\%$ (G3), infinitely adjustable
Rated power [W]	9.6 at 17 dm ³ /s (60 m ³ /hour)
System sound [dB(A)]	< L I: Ak < 12.5 and LPA: 10 m ² < 11.5 at 30 m ³ /h L I: Ak < 12.5 and LPA: 10 m ² < 23.5 at 60 m ³ /h
Soundproofing* [dB] filter ISO Coarse $\geq 45\%$ (G3), sleeve: DV 100F)	Sonair A+: Dn,e,w (C;Ctr) 52 dB (-1;-3) (ISO 717-1:1996) Sonair F+: Dn,e,w (C;Ctr) 56 dB (-2;-6) (ISO 717-1:1996)
White mains cable [m]	1.80

* Based on Peutz test report no. A.1368.

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Filters

Continuously filtered air

Choose the filter that suits you

Air filtering

The Sonair comes as standard with an air filter (filter ISO Coarse $\geq 45\%$; G3). This filter is used in conditions with normal dust levels. Filter ISO Coarse $\geq 45\%$ (G3) removes 80% to 90% of the particles larger than 10 μm , including sand, fabric fibres, pollen, hairs and spores. Options include fine dust filters (filters ISO ePM2.5; F6) and filters combined with carbon (filter ISO Coarse carbon $\geq 45\%$; G3K). The carbon in these filters can absorb annoying odours.

Filter comparison

Filter	ISO Coarse $\geq 45\%$ (G3)	ISO Coarse carbon $\geq 45\%$ (G3K)	ISO ePM2.5 (F6)
Dust (10 μm)	••	••	••
Fine dust (2.5 μm)			••
Pollen	•	•	••
Spores	•	•	••
Hairs	••	••	••
Sand	••	••	••
Textile threads	•	•	••
Cement dust	•	•	••
Odour		••	

• = good, •••• = excellent

Filter capacity (% filtered dust particles)

Dust particles [μm]	ISO Coarse $\geq 45\%$ (G3)	ISO ePM2.5 (F6)
<10	70-85	>99
<5	35-70	95-99
<3	15-35	85-95
<1	5-15	50-65
<0,5	0-5	20-40
<0.3		10-25
<0,1		5-15

Under ISO16890

Filters

Various types of filters can be fitted on the Sonair for filtering the air. That way the appliance's purifying power can be customised. We recommend replacing the filter every 6 to 9 months. You can order filters from your installer.

Article	Pic.	Article no.
Filter ISO Coarse \geq 45% (G3) Sonair A+ and F+ (excl. holder)	1	531750
Filter ISO Coarse \geq 45% (G3) Sonair A+ and F+ (incl. holder)	2	531753
Filter ISO Coarse \geq 60% (G4) Sonair A+ and F+ (excl. holder)		532136
Filter ISO ePM2.5 \geq 50% (F6) Sonair A+ and F+	3	531550
Filter ISO Coarse carbon \geq 45% (G3K) Sonair A+ and F+	4	531602

Filter ISO Coarse \geq 45% (G3)

De Sonair comes as standard with a filter ISO Coarse \geq 45% (G3). This filter is used in conditions with normal dust load. Filter ISO Coarse \geq 45% (G3) removes 80-90% of the particles larger than 10 μm , such as leaves, insects and dust particles including pollen, spores, hairs, sand and textile fibres.

Filter ISO Coarse \geq 60% (G4) (washable)

Filter ISO Coarse \geq 60% (G4) is washable (in hand wash with soap), which has the advantage that you can use it again and again without having to throw away any filters. That saves money in the long run and it reduces the environmental load. This filter is used in conditions with normal dust load. It removes 95% of the dust particles, including pollen, spores, hair, sand and textile threads.

Filter ISO ePM2,5 \geq 50% (F6) (fine dust filter)

Filter ISO ePM2,5 \geq 50% (F6) under moderate to high dust load. This filter removes 99% of all dust particles larger than 10 μm and 95%-99% of all particles larger than 5 μm , including very fine dust such as pollen, spores, cement dust and house dust mite faeces.



Grilles, sleeves and connections

An extensive range of accessories

Wall grilles



1.



2.



3.



4.



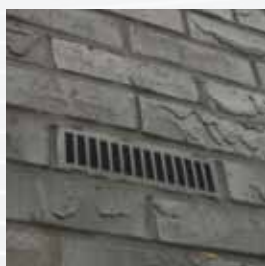
5.



6.



Practical example masonry grille



Practical example masonry grille



Practical example monumental grille

Article	Pic.	Article no.
Wall grille, synthetic, for Ø 100 mm, white	1	110233
Wall grille, synthetic, for Ø 100 mm, brown	2	110232
Wall grille aluminium Ø 100 mm, Old Iron*	3	110355
Wall grille aluminium Ø 100 mm, plain	4	110227
Wall grill cast iron monumental Ø 130 mm, Old Iron	5	110328
Wall grille cast iron monumental Ø 160 mm, uncoated	5	110231
Wall grille facing brick 55 x 210 mm, Old Iron*	6	110356

* Also available in the colours RAL 7016 (anthracite grey) and RAL 9001 (cream) as well as other RAL colours.

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For every application
a solution

Sleeves



7,



8,



9,

Article	Pic.	Article no.
Sleeve pipe DV 100, L= 500 mm	7	110208
Flexible wall sleeve 110 mm, for facing brick grille	8	110354
Flexible wall sleeve 110 mm, for wall grille	9	535010

Sleeve kits

Article	Pic.	Article no.
Sleeve kit DV100, white outdoor grille	1+7	110299
Sleeve kit DV100, brown outdoor grille	2+7	110300

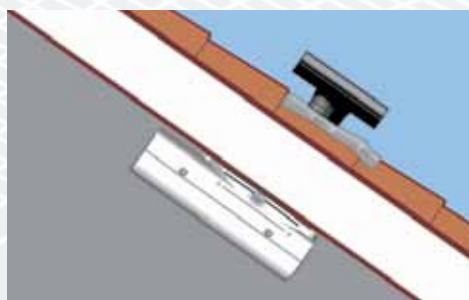


Roof sleeve pitched roof

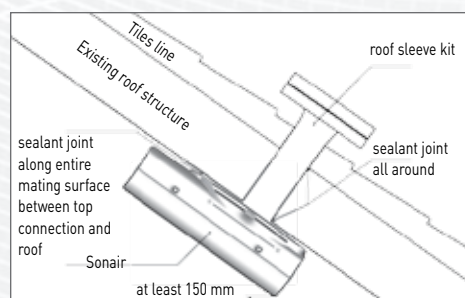
Article	Article no.
RVT200 roof tile with lead flashing for roof sleeve	110217



For attics, the roof sleeve kit offers the possibility to place the Sonair against the pitched roof with a sleeve through the roof.



Roof sleeve pitched roof

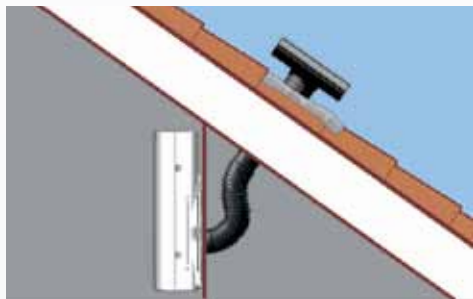


Roof sleeve pitched roof

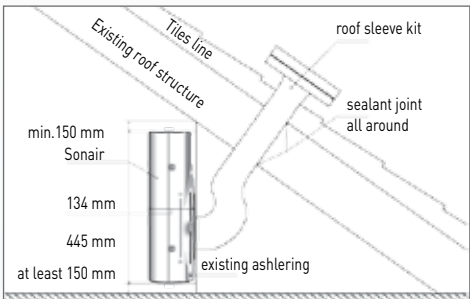
Roof sleeve ashling

Article	Article no.
RVT200 roof tile with lead flashing for roof sleeve (flexible sleeve not included)	110217

For attics with ashling, the roof sleeve kit offers the possibility to place the Sonair against the ashling with a sleeve kit through the roof.



Roof sleeve ashling



Roof sleeve ashling

Side connection

Article	Article no.
Side connection	110315

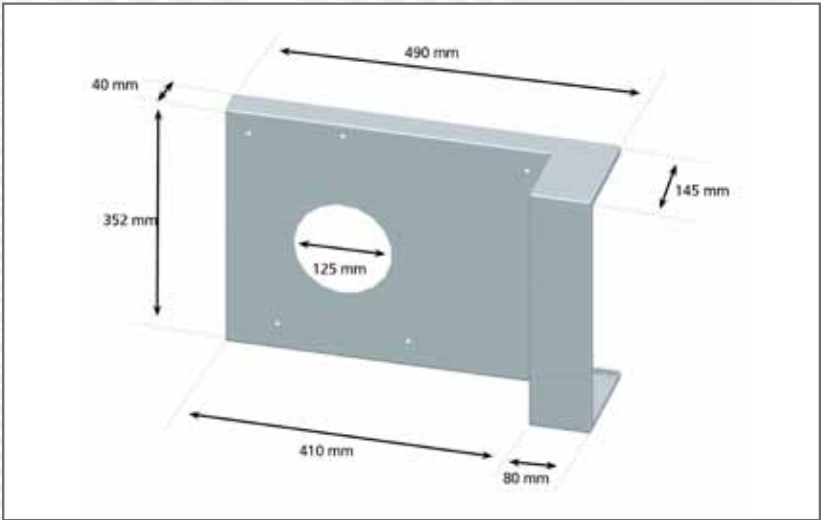
If there is insufficient room on the inside of an exterior wall to place a Sonair, the side connection may offer a solution. It allows placing the Sonair on the interior wall that is at right angles to the exterior wall.



Side connection

Elements

- The side connection is made of 2 mm thick coated sheet steel with anti-rumble provisions and acoustic foam. The colour matches that of the Sonair.
- Five screws for assembly M5 x 80 with plugs.
- Swelling tape



Side connection dimensions

Top connection

Article	Article no.
Top connection	110324

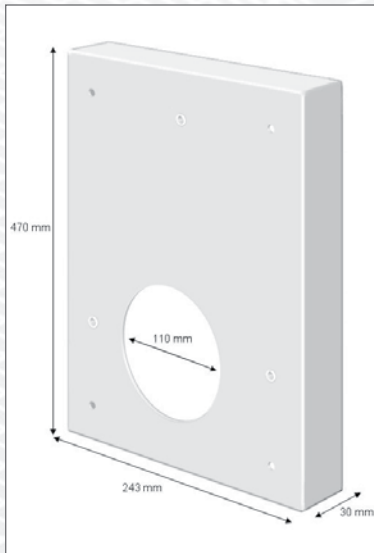
If there are existing ventilation openings so close to the ceiling or with such a deviating shape that it is not possible to directly connect a Sonair, that can still be realised with the aid of the top connection. This solution provides the minimum required dimensions and is completely concealed behind the Sonair. Note: the existing ventilation opening must have a minimum area of 50 cm².

Use of the top connection has the following advantages.

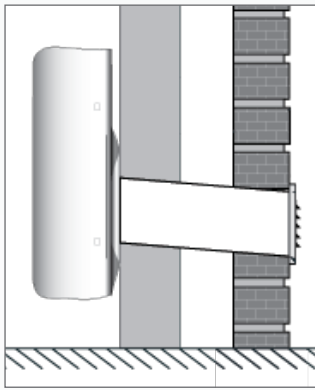
- Existing ventilation openings in the exterior wall can be used.
- The exterior wall face is not affected.
- The sound insulating capacity increases.

Elements

- Top connection made of 2 mm thick steel with anti-rumble provisions and acoustic foam (colour RAL 7047).
- Four screws (M5 x 80) with plugs for assembly top connection.
- Three bolts (M6 x 25).
- Swelling tape



Practical example open butt joint



Mounting the Sonair

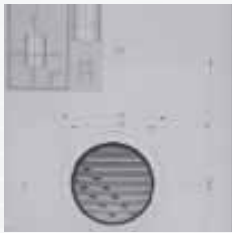
Easy DIY installation

Installation

The Sonair is mounted on the inside of the exterior wall near a wall socket. A hole must be made in the exterior wall for the air supply from outside. The diameter depends on the type of sleeve. The grille is fitted on the outside.

Quickly ready for use

Mounting: step by step



Step 1

Determine the position of the unit on the wall. Use the supplied mounting template to mark the location of the drill holes.



Step 2

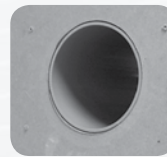
Drill the hole for the exterior air supply at a downward pitch of at least 5° (from indoors to outside) to prevent water ingress.

Step 3



Drill three horizontal holes for the mounting screws (drill diameter 8 mm). These holes must be at least 40 mm deep.

Insert the three plugs into the holes, screw the screws into the plugs and make sure these protrude 12-13 mm.



Step 4

Determine the length of the synthetic conduit and cut it to size. The conduit must not protrude inside or outside and it must be level with the wall. Use a file to remove any burrs. Seal the conduit neatly at both ends.



Step 5

Place the Sonair on the wall. Press the unit firmly against the wall and slide it down over the screws. The Sonair clamps itself to the wall.

Step 6

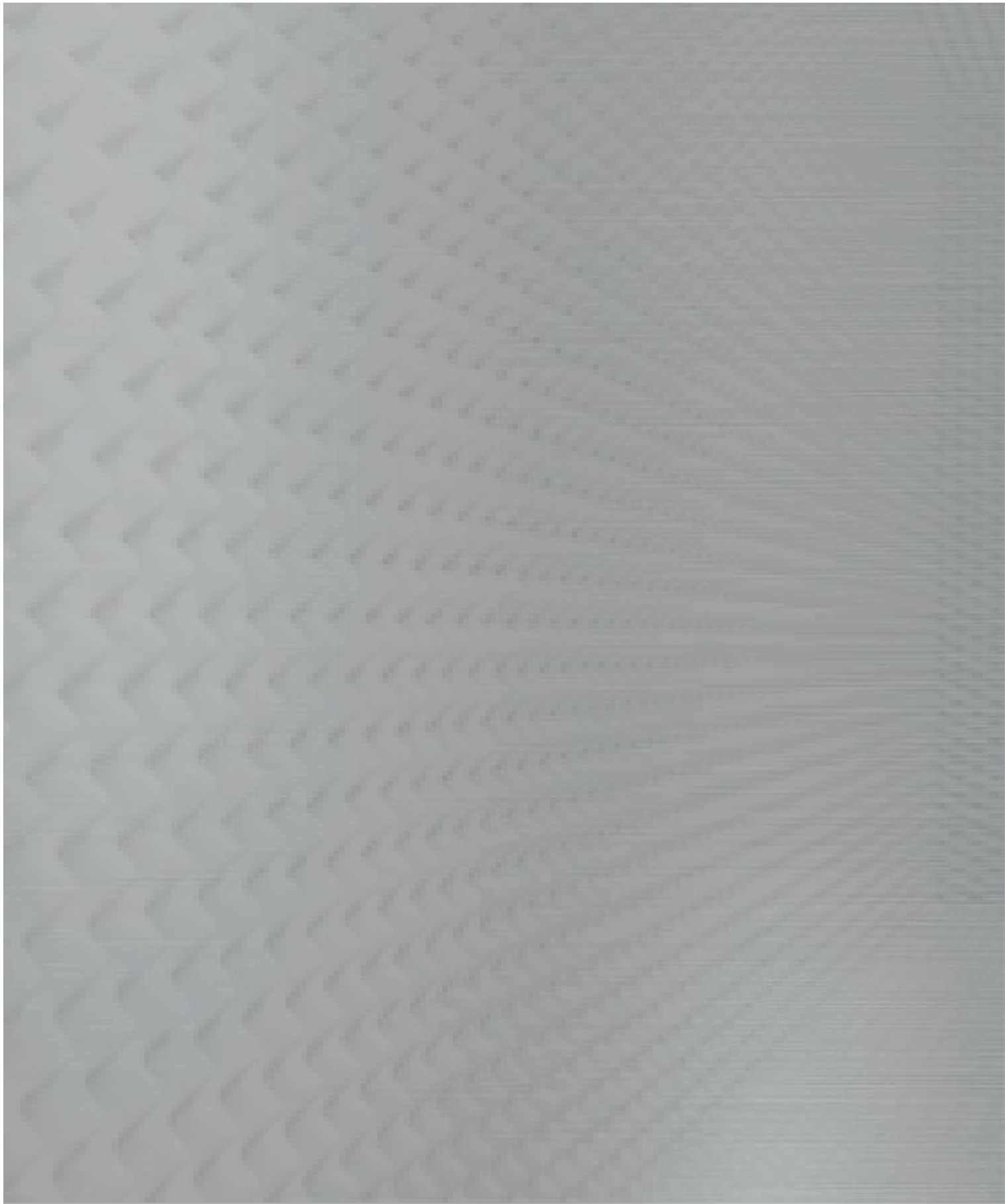
Place the inlet grill over the outdoor air inlet on the outside of the wall.

Step 7

Insert the plug in the wall socket and the unit is ready for use.

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