

 **FLEXIT**
112735
External
Louvre With
Connection
Box



FLEXIT 112735 External Louvre With Connection Box Installation Guide

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FLEXIT 112735 External Louvre With Connection Box



Product Information

Specifications

- **Model Number:** 112735112742 / 121088
- **Area of Use:** External louvre for exhaust and outdoor air
- **Water Separation Efficiency:** $\geq 99\%$
- **Compatible Duct Diameter:** 100-250mm
- **Sound Power Level:** Varies based on airflow rate

Product Usage Instructions

- The product is designed for use as an external louvre for exhaust and outdoor air in protected and normally exposed areas.
- It ensures at least 99% water separation efficiency and is suitable for circular ducts with diameters ranging from 100mm to 250mm.
- The product's performance is tested according to the standards set by the Technical Research Institute of Sweden (SP).
- Measurements include airflow rates at different pressures and velocities to determine its efficiency.
- The sound data provides information on the sound power level produced by the product at various airflow rates.
- This data can help in assessing the noise levels generated during operation.

FAQ

- **Q:** What is the recommended airflow rate for optimal performance?
- **A:** The recommended airflow rate for optimal performance varies based on the specific application and environmental conditions. It is advised to refer to the capacity diagram provided in the manual for guidance.
- **Q:** How should I maintain the product?
- **A:** Regular maintenance of the product is essential to ensure continued efficiency. It is recommended to clean the louvre and inspect for any debris or blockages periodically. Refer to the maintenance section in the manual for detailed instructions.

Description

Area of use

- External louvre for exhaust and outdoor air in protected and normally exposed areas. Protects the ventilation duct from weather conditions.
- Connected to circular ducts with a diameter of 100-250mm.
- Very good water separation efficiency, at least 99% of Eurovent 2/5 with air speeds up to 2 m / s over the grills-free area.

Test procedure

The measurements are made at SP according to:

- **ISO 5135:**
Acoustics – Determination of sound power levels of noise from air-terminal devices, air-terminal units, dampers and valves by measurement in a reverberation room
- **SS-EN 13141-2:2010**
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 2: Exhaust and supply air terminal devices

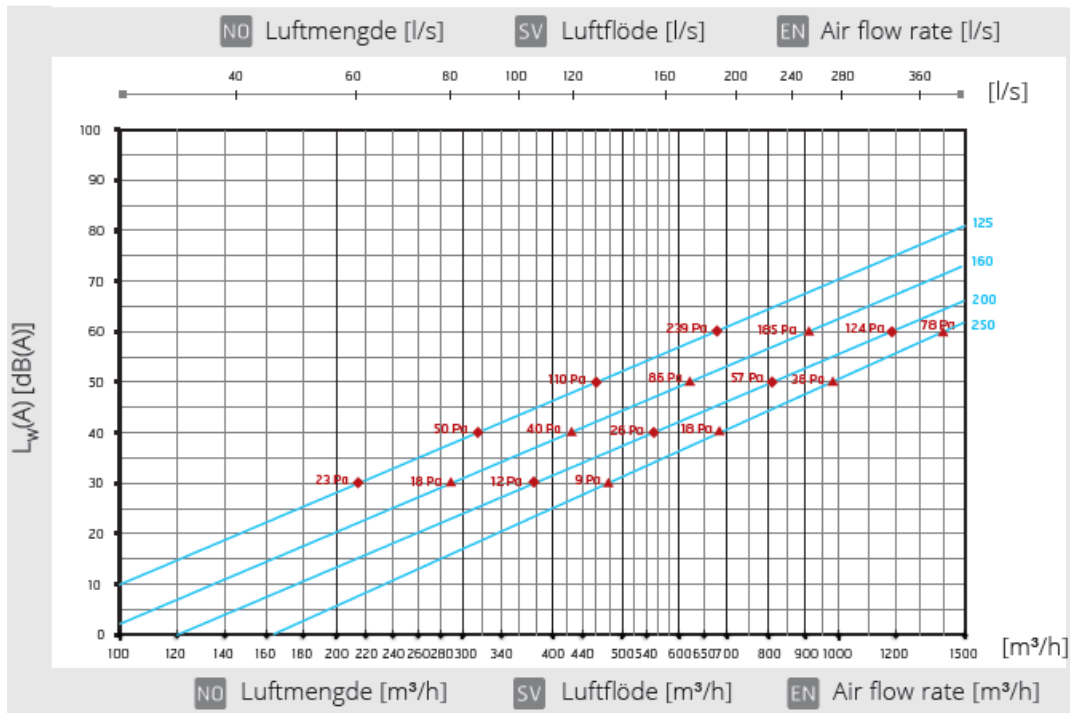
Free area: Open surface where the air can pass into the product

Quick guide size/airflow

EN	Size	Free area*	Air Flow outdoor air at 20Pa		Air velocity	Air Flow exhaust air at 30Pa		Air velocity	Air Flow outdoor air at 1,5m/s		Air Flow exhaust air at 4m/s	
			m³/h	l/s		m³/h	l/s		m³/h	l/s	m³/h	l/s
	Ø/D 125	0,02773	216	60	2,2	245	68	2,5	150	42	399	111
	Ø/D 160	0,04326	320	89	2,1	370	103	2,4	234	65	623	173
	Ø/D 200	0,06442	539	150	2,3	593	165	2,6	348	97	928	258
	Ø/D 250	0,11631	812	226	1,9	874	243	2,1	628	174	1675	465
	Ø/D 315	0,16339	1400	400	2,1	1900	527	3,2	850	236	2300	639

Sound data

$L_w(A)$ [dB(A)] =
 Lydeffekt
 Ljudeffekt
 Sound power level

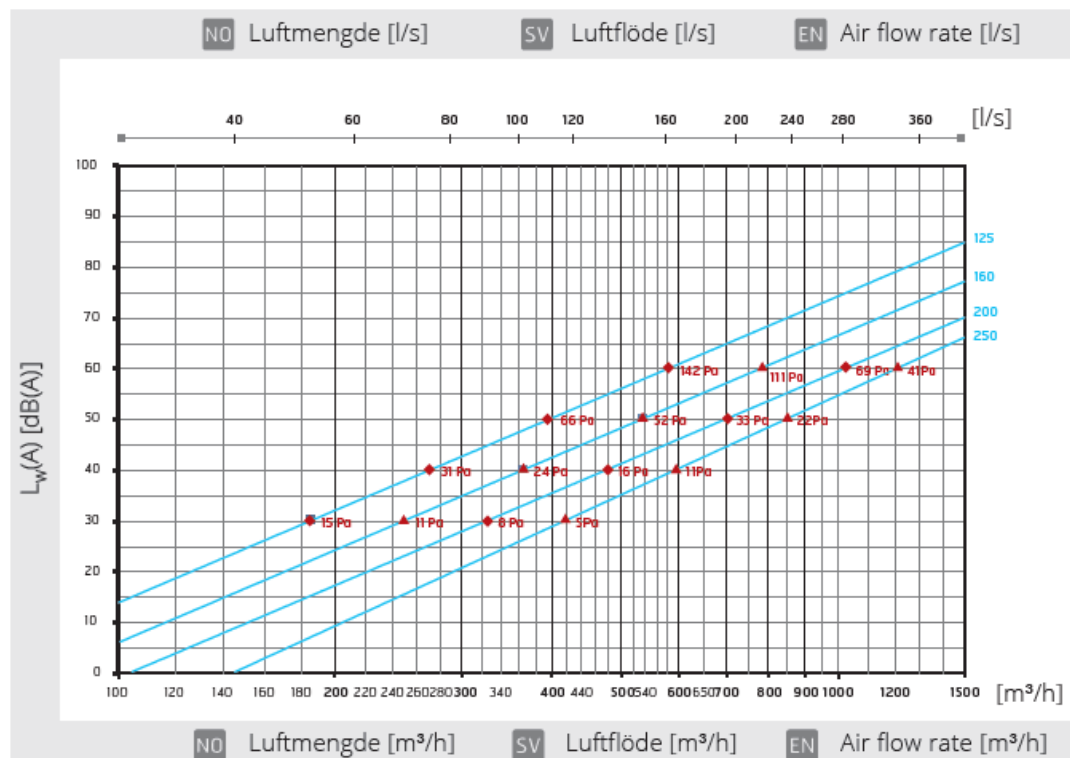


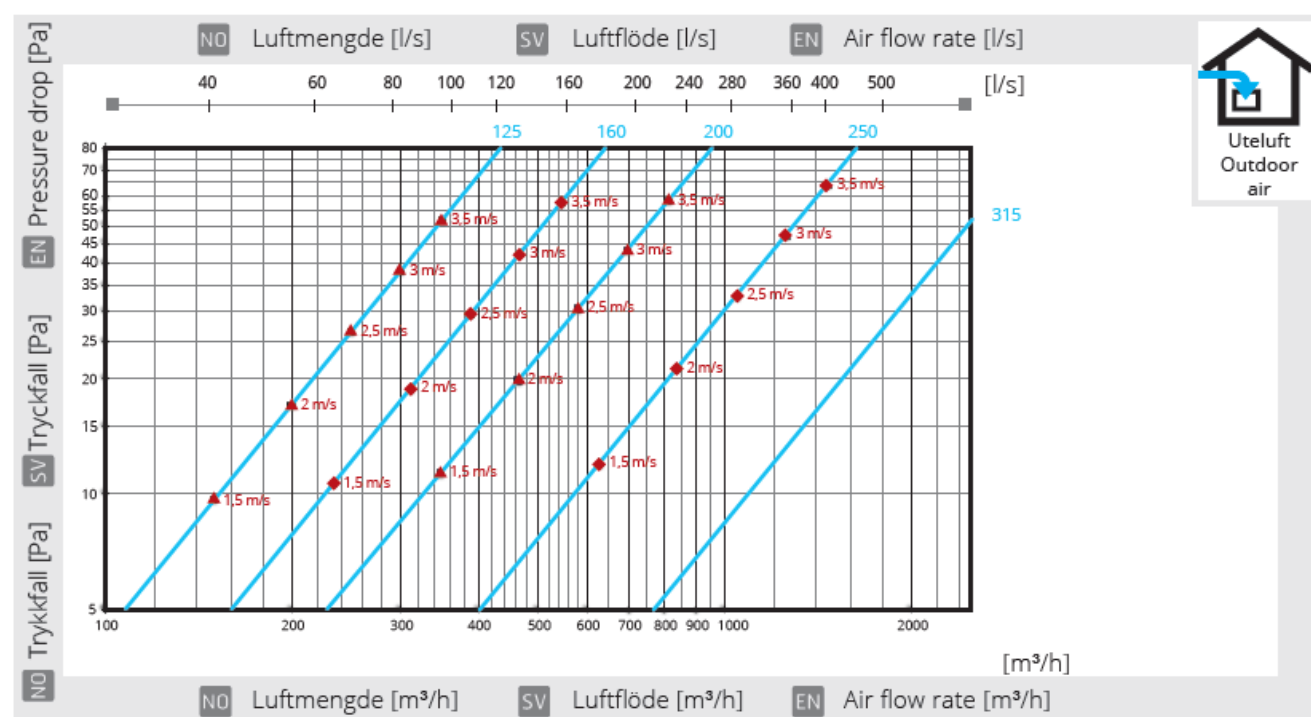
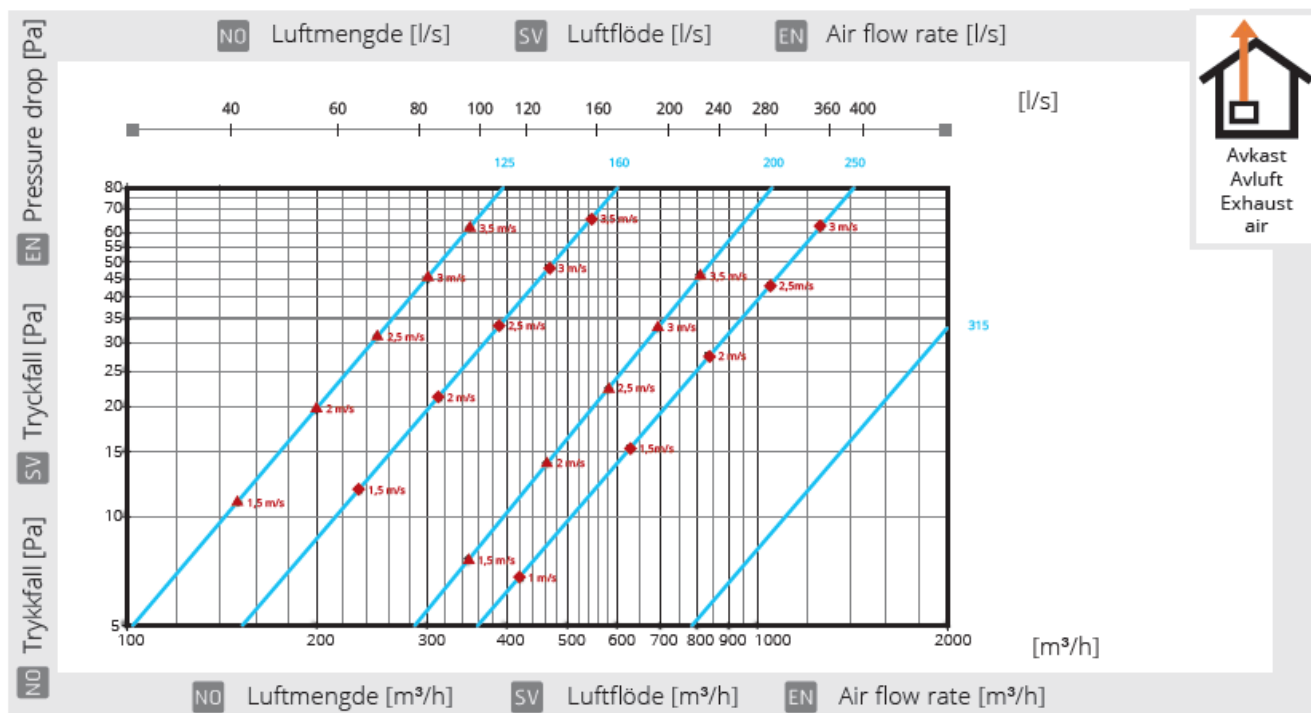
Lydeffektnivå [Lw(dB) i oktavband (Hz)] = LwA (dB) + korreksjon ved 5m/s.

Ljudeffektnivå [Lw(dB) i oktavband (Hz)] = LwA (dB) + korreksjon ved 5m/s.

Sound power level [Lw(dB) in octave-band (Hz)] = LwA (dB) + corection in 5m/s.

Hz	dB(A)
63	-5
125	2
250	2
500	-8
1000	-4
2000	-10
4000	-15
8000	-18





Materials

The external louvre consists of a detachable louvre unit and a casing. Produced in precoated steelplate. There is a connection box behind with mesh which protects from small animals and has a circular connector in hot-dipped galvanised plate with approved rubber ring seal.

Precoated steelplate

- Good color retention
- Conforms corrosivity C4
- Low environmental impact during production
- 100% recyclable

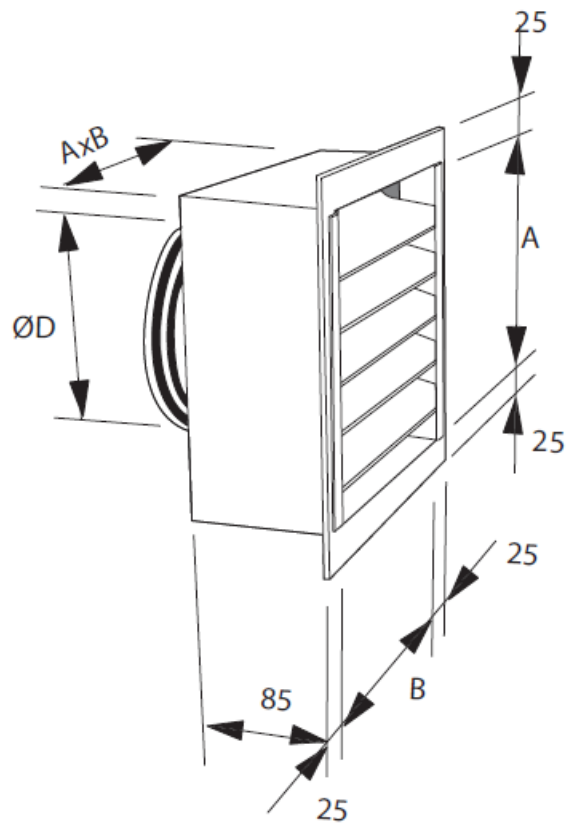
Material: Hot-dipped galvanisation of steel plate ac-cording to SS-EN10142 with zincweightclass Z530.
A zinc layer of 275µm coated with 25µm thick layered polyester colour in white or black.

Colour

- Black,015, NCS S 9000-N, RAL 9005 Glans 30-46
- White, 001, NCS S 1002-G50Y, RAL 9002 Glans 30- 46

Dimensions

<i>Art. nr</i>	<i>Art. nr.</i>	<i>Art. nr.</i>	Size Ø d	A mm	B mm
112735	112736	115375	125	195	195
112737	112738	115376	160	245	245
112739	112740	115377	200	295	295
112714	112742	115378	250	395	395
—	—	121088	315	450	450



General

Low speed over the free area is essential for a satisfying function. Usually, the louvre noise generation is less than the fan noise and does not cause sound problems. There is a connection between high velocity and high-pressure drop that gives energy loss. Always strive for solutions with as low a velocity/pressure drop as possible with respect to the withdrawal of moisture (for outdoor air). This gives lower sound levels and a better economy in operation. Exhaust should be installed in such a way that you achieve higher air velocity/pressure drop to give a better throw-out effect away from the building. It can not be excluded that aerosols, frost smoke, light snow or ice dragged with the air under adverse conditions. When fans are switched off, condensation can be a problem, the ventilation should therefore never be shut off. But if that is the case the ducts should be fitted with an air damper for closing. Important to take into account when safe design of louvres for exhaust/outdoor air:

- External wind influence
- Air velocity -free area/airflow
- No objects that can interfere with the air flow
- Temperature influence example heat or freezing
- Energy loss/pressure drop
- External noise requirements
- Protection against small animals
- Access for cleaning and maintenance purposes

Installation

What's included?

*Ramme
Galleram
Casing*

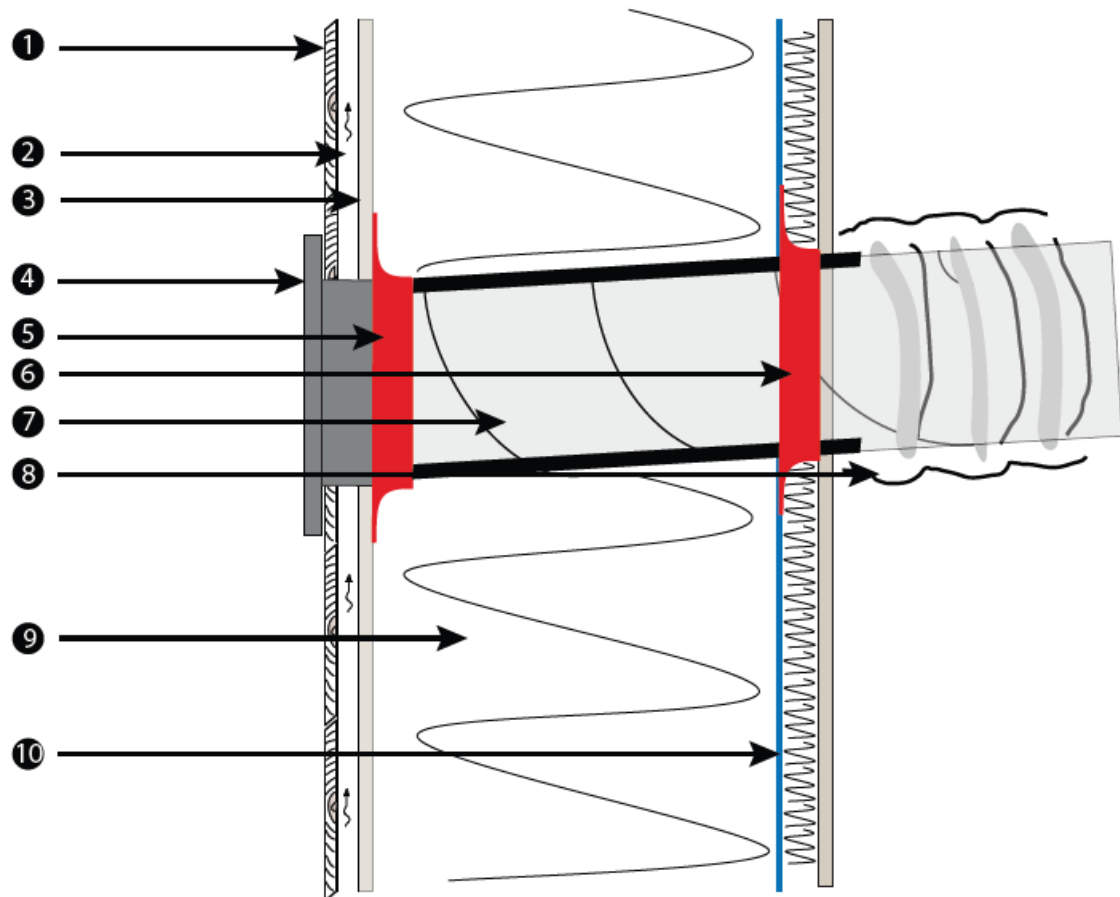


*Lamellinsats
Louvre unit*



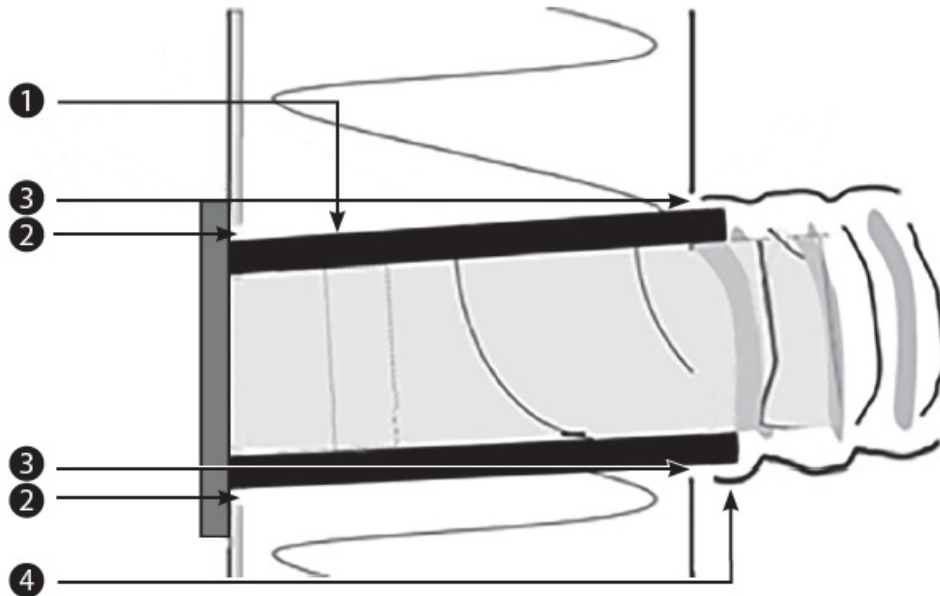
Diagram – installation

Example for wood facade



1. cladding
2. air cavity
3. wind barrier
4. external louvre
5. sealing
6. sealing cuff
7. cellular rubber insulated duct
8. insulation hose
9. insulation
10. vapour barrier

Examples for concrete and outer brick wall



1. cellular rubber
2. spray foam and plaster
3. water resistant joint
4. the plastic of the insulation sleeve is threaded over the cellular rubber and taped on.

Before installation

- The product is installed on exterior walls. Adjust the position by studs and ducts.
- If both the outdoor air and exhaust air is mounted on the same wall, louvres should be mounted with min. 120 cm distance.
- It is also important that the channel is fitted with a fall against the wall so that the driving rain that still could come in, it will run out.
- Height above ground level should be min. 2 meters.
- Avoid placing the inner corner and avoid nearby objects that may interfere with airflow. There should be several feet in front of the stand.

Mounting

Loosen the mounting screws which fastens the louvre unit to the casing. Lift out the louvre unit so that the frame becomes empty.

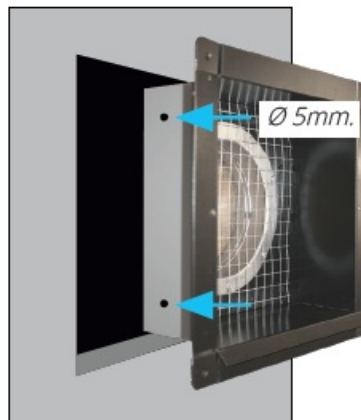


*Ramme
Galleram
Casing*



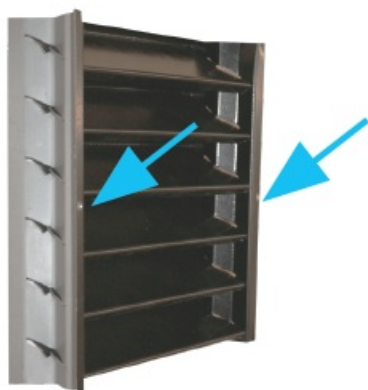
*Lamellinsats
Louvre unit*

- Make a hole after the measurement of the casing.
- Mount casing in the surface hole.
- Fasten the casing with proper fasteners depending on the material.
- When installed in a wooden facade, attach the louvre to a stud.
-

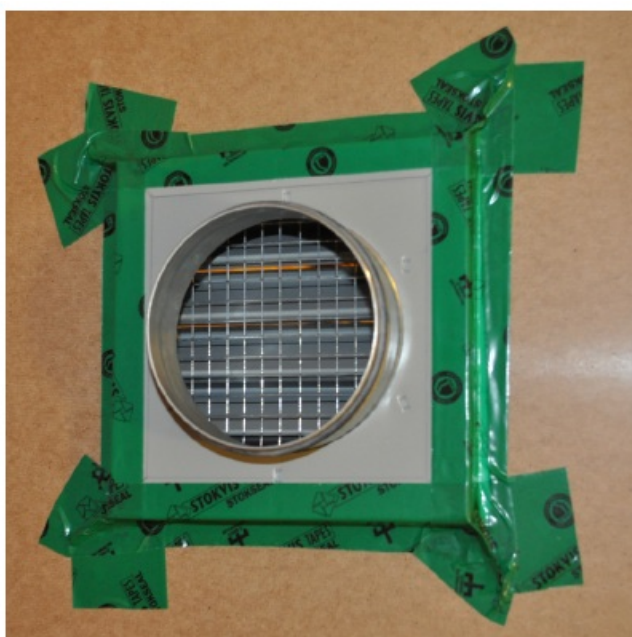


After the louvre unit is inserted into the casing, fasten it to the casing with supplied screws

- In exposed areas, we recommend the use of a top cover to prevent water from penetrating behind the louvre. Seal the surface appropriately. This is not included in the product.



Sealing against wind barriers is done from the inside. Pull the sleeve onto the duct and secure to the wind barrier from the inside using sealing tape. If the frame on V13 breaks the wind barrier, sealing can only be effected with sealing tape. If the wall is insulated and has a vapour barrier on the inside, seal with the vapour barrier from the inside in the same way using a similar sleeve. Use pre-insulated ducts with cellular rubber for the wall bushing, and sealing sleeves one size larger that fit over the insulation. The wall bushing can then be finished off and sealed before installation continues with longer ducts. If you continue into the room using ducts insulated with an insulating sleeve, the sleeve must be well over the cellular rubber before the plastic film is taped to the cellular rubber.



Maintenance


- There should regularly be cleaning of the product to avoid leaves and dirt occluding the air inlet and outlet.

- If the external louvre is used for outdoor air it might be needed to brush off frost, in times of snow smoke/fog. To avoid these problems we can recommend a solution with the installation of heating cables.
- This is an accessory which isn't a part of Flexits assortment. Contact your local electrician.
- Check a couple of times a year, or more often if needed.


contact

- Flexit AS, Televeien 15, N-1870 Ørje
- www.flexit.no

Documents / Resources

	<p>FLEXIT 112735 External Louvre With Connection Box [pdf] Installation Guide 112735 External Louvre With Connection Box, 112735, External Louvre With Connection Box, L ouvre With Connection Box, With Connection Box, Connection Box, Box</p>
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References

-  [Bedre inneklima - Flexit](#)
- [User Manual](#)

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