



NORDroof

Roof Hoods

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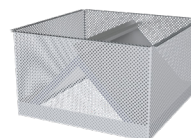
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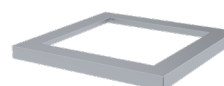
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General

1. Selection

Selecting the roof hood affects the architectural look of the building. Our selection of roof hoods includes various shapes and designs to meet the standards of modern and classic architecture.

Selection of a roof hood should start with airflow value. Pressure drop of the device should also be taken into account.

Connection options - the connection can be made with a duct size, flange, profile or directly to the roof transition. Be sure to indicate the desired connection method when placing an order.

We recommend a standard-sized roof hood with rain-plate connection and also a corresponding, suitable roof transition. It simplifies installation, provides waterproof and safe solution.

2. Dimensioning

Air intake

When air intake device is used, there is always risk of water and snow entering the system. Therefore for the best result, the velocity over the free area must not exceed 2,6 m/s. If special size is required (ULK) face velocity (velocity at the outer perimeter) should not exceed 0,6 m/s. Velocity in the duct should not exceed 6 m/s.

Extract air

If high blow-out speed is not required, efforts should be made to minimize noise and pressure drop to save energy consumption. The pressure drop should not exceed 70 Pa in order to minimize self-generated noise emissions. Velocity in the free area of the hood is recommended to be between 3 m/s and 14 m/s.

It is also recommended to plan a chamber with drainage after air intake and exhaust, which prevents water from entering the ductwork in exceptionally demanding conditions.

Placement

Roof design must also be taken into account when planning roof hoods. Correct hood placement avoids "snow pockets". It must be ensured that various pollutants (example: exhaust gases) will be prevented from entering the air intake. The distance between inlets and outlets must be sufficient to prevent mixing exhaust air with intake air. This risk can be avoided by choosing a combination device UHC that is suitable for roof transition UHCT.

Noise

To reduce sound generation in duct, the pressure drop in roof hood must not exceed 70 Pa. At lower pressure drops, sound generation is so low that it does not need to be taken into account in the sound calculations of air distribution devices. The sound to the environment is calculated separately.

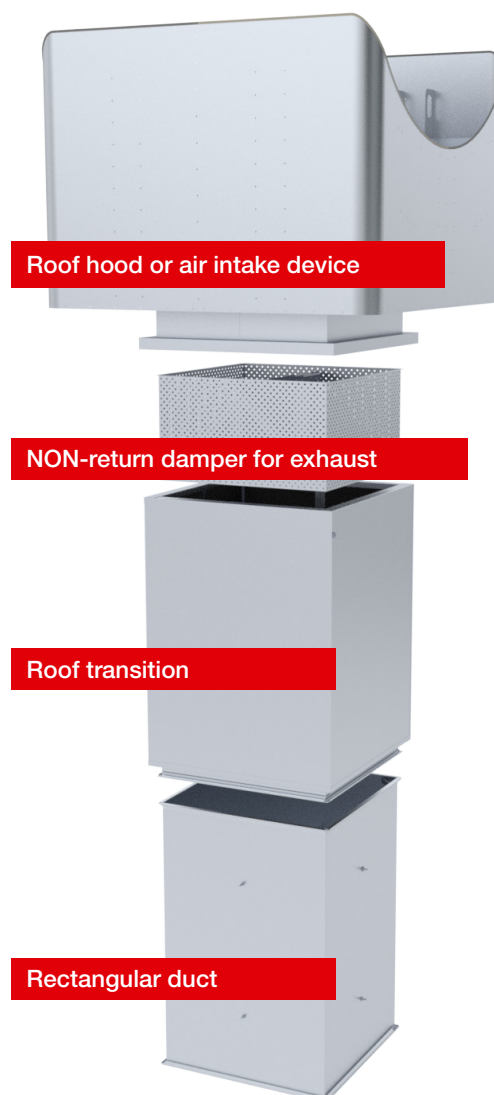
3. Material

ETS NORD Roof hoods are made of the following materials:

- Magnelis, zinc-magnesium coated steel plate (ZM310) and stainless steel (AISI 316L)
- Powder coating surface treatment - can be painted in all RAL K7 Classic colors.

NOTE! Longer delivery time may occur with colors outside the standard color chart.

The options will give corrosion resistance up to class C5.



ULS Air Intake Device

ULS is an air intake device with snow shield feature to withstand the challenging Nordic weather with its innovative and smooth design.

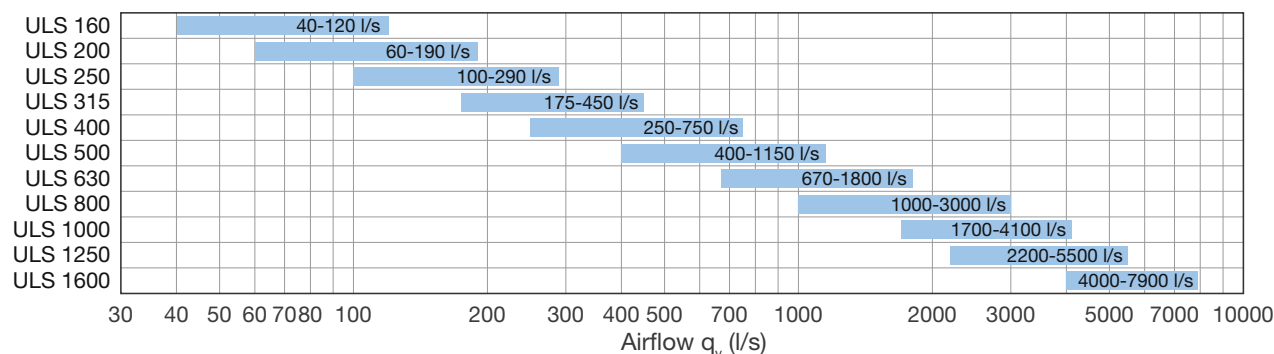


- Low design - low wind resistance
- Excellent water and snow resistance
- Strong structure
- Low pressure drop
- Low noise level
- Magnelis® sheet steel (corrosivity category is C4)

Application

Designed to operate in stormy weather with wind speeds up to 25 m/s. The labyrinth structure has excellent resistance against rain and snow.

Quick Selection



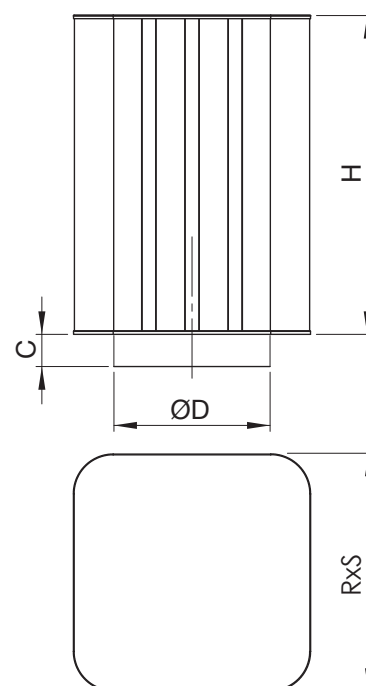
Material and Dimensions

As standard the devices are manufactured of Magnelis® sheet steel (ZM310). On special order can also be manufactured from acid resistant steel (AISI 316L) or in powder coated finish (RAL colors).

Sizes Ø 160-400 mm are with female connection which fits outside a fitting and sizes Ø 500-1600 mm with VRL flange duct connection (counterflange ordered separately).

Starting from Ø 315 mm, equipped with lifting and anchoring bracket.

Nominal size ØD (mm)	R/S (mm)	H (mm)	C (mm)	Weight (kg)	Free area (m²)	Airflow (l/s)	
						min	max
160	240	200	90	7	0,042	40	120
200	280	380	90	10	0,082	60	190
250	330	520	90	12	0,128	100	290
315	500	520	90	34	0,209	175	450
400	600	812	90	40	0,357	250	750
500	700	1012	90	61	0,563	400	1150
630	830	1220	100	79	0,68	670	1800
800	1000	1220	100	107	1,134	1000	3000
1000	1400	1220	100	183	1,588	1700	4100
1250	1450	1525	100	217	1,991	2200	5500
1600	1800	1800	150	329	3,027	4000	7900



ULS air intake device with rain-plate connection (KL) for installation with MKL roof transition will provide the best possible combination for water resistance.

ULS air intake device with rain-plate and MKL roof transition with rain-plate collar.

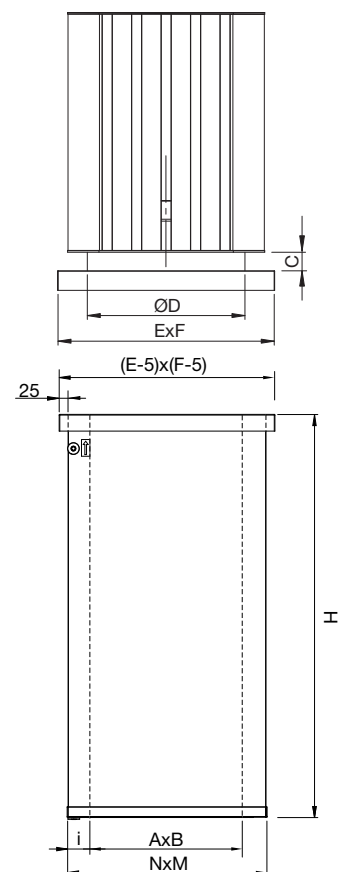
MKL roof transition with 50 mm insulation.

ULS Nominal size ØD	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL+KL Nominal size (N×M KL-ExF)	AxB (mm)	N×M (mm)
ULS 160	350x350	MKL 300x300 KL-350x350	200x200	295x295
ULS 200	350x350	MKL 300x300 KL-350x350	200x200	295x295
ULS 250	450x450	MKL 400x400 KL-450x450	300x300	395x395
ULS 315	450x450	MKL 400x400 KL-450x450	300x300	395x395
ULS 400	550x550	MKL 500x500 KL-550x550	400x400	495x495
ULS 500	650x650	MKL 600x600 KL-650x650	500x500	595x595
ULS 630	750x750	MKL 700x700 KL-750x750	600x600	695x695
ULS 800	950x950	MKL 900x900 KL-950x950	800x800	895x895
ULS 1000	1150x1150	MKL 1100x1100 KL-1150x1150	1000x1000	1095x1095
ULS 1250	1450x1450	MKL 1400x1400 KL-1450x1450	1300x1300	1395x1395
ULS 1600	1750x1750	MKL 1700x1700 KL-1750x1750	1600x1600	1695x1695

Installation opening = (N+20)×(M+20) mm.

MKL roof transition with 100 mm insulation.

ULS Nominal size ØD	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL+KL Nominal size (N×M KL-ExF)	AxB (mm)	N×M (mm)
ULS 160	450x450	MKL 400x400 KL-450x450	200x200	395x395
ULS 200	450x450	MKL 400x400 KL-450x450	200x200	395x395
ULS 250	550x550	MKL 500x500 KL-550x550	300x300	495x495
ULS 315	550x550	MKL 500x500 KL-550x550	300x300	495x495
ULS 400	650x650	MKL 600x600 KL-650x650	400x400	595x595
ULS 500	750x750	MKL 700x700 KL-750x750	500x500	695x695
ULS 630	850x850	MKL 800x800 KL-850x850	600x600	795x795
ULS 800	1050x1050	MKL 1000x1000 KL-1050x1050	800x800	995x995
ULS 1000	1250x1250	MKL 1200x1200 KL-1250x1250	1000x1000	1195x1195
ULS 1250	1550x1550	MKL 1500x1500 KL-1550x1550	1300x1300	1495x1495
ULS 1600	1850x1850	MKL 1800x1800 KL-1850x1850	1600x1600	1795x1795



ULS air intake device with rain-plate and MKL roof transition.

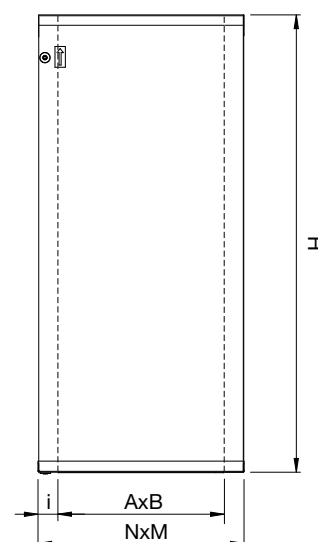
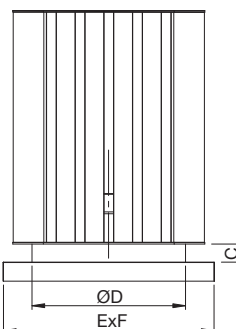
MKL roof transition with 50 mm insulation (H=1200).

ULS Nominal size ØD	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size (NxM)	AxB (mm)	NxM (mm)
ULS 160	300×300	MKL 300×300	200x200	295x295
ULS 200	300×300	MKL 300×300	200x200	295x295
ULS 250	400×400	MKL 400×400	300x300	395x395
ULS 315	400×400	MKL 400×400	300x300	395x395
ULS 400	500×500	MKL 500×500	400x400	495x495
ULS 500	600×600	MKL 600×600	500x500	595x595
ULS 630	700×700	MKL 700×700	600x600	695x695
ULS 800	900×900	MKL 900×900	800x800	895x895
ULS 1000	1100×1100	MKL 1100×1100	1000x1000	1095x1095
ULS 1250	1400×1400	MKL 1400×1400	1300x1300	1395x1395
ULS 1600	1700×1700	MKL 1700×1700	1600x1600	1695x1695

MKL roof transition with 100 mm insulation (H=1200).

ULS Nominal size ØD (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size (NxM)	AxB (mm)	NxM (mm)
ULS 160	400×400	MKL 400×400	200x200	395x395
ULS 200	400×400	MKL 400×400	200x200	395x395
ULS 250	500×500	MKL 500×500	300x300	495x495
ULS 315	500×500	MKL 500×500	300x300	495x495
ULS 400	600×600	MKL 600×600	400x400	595x595
ULS 500	700×700	MKL 700×700	500x500	695x695
ULS 630	800×800	MKL 800×800	630x630	795x795
ULS 800	1000×1000	MKL 1000×1000	800x800	995x995
ULS 1000	1200×1200	MKL 1200×1200	1000x1000	1195x1195
ULS 1250	1500×1500	MKL 1500×1500	1300x1300	1495x1495
ULS 1600	1800×1800	MKL 1800×1800	1600x1600	1795x1795

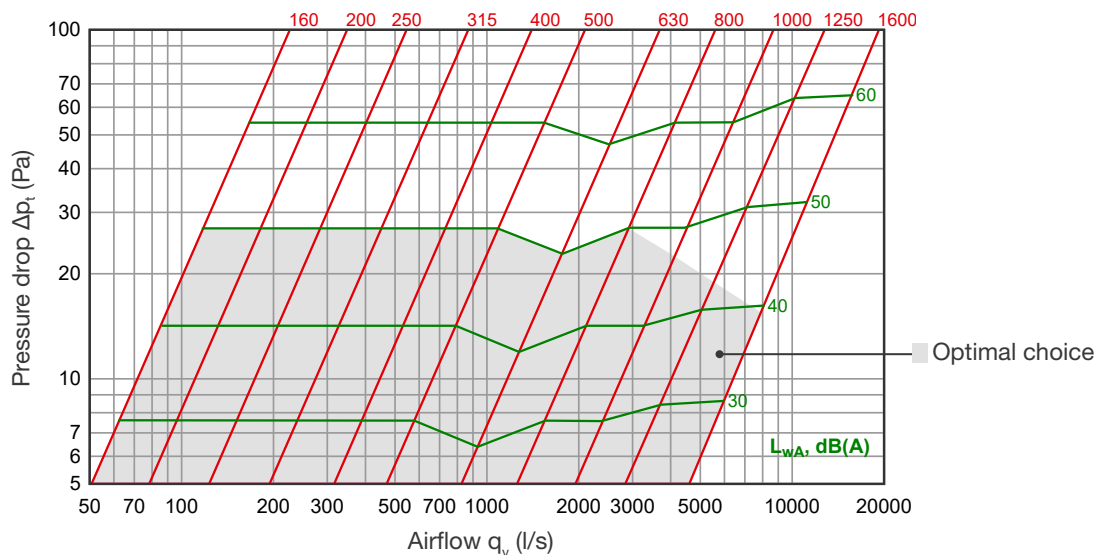
For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.



Technical Data

Pressure drop - Airflow

Recommended maximum pressure drop 30 Pa. For best result, when choosing a roof hood, air velocity over the free area should not exceed 2,6 m/s and velocity in the duct should not exceed 6 m/s.



Product Marking

	ULS	-	H	-	D	KL-E×F	-	RAL XXX
Marking								
Material								
Nominal size ØD								
Rain-plate connection (KL)								
RAL								

Example: ULS 315 Air intake device
 ULS-H 315 Air intake device, acidproof
 ULS 315-RAL7000 Air intake device (coated)
 ULS 315 KL-450×450 Air intake device with rain-plate connection for roof transition

URS Air Intake Device

URS is an air intake device which is designed to look great and to withstand weather conditions in the Nordic countries.

Roof-mounted device for intake of fresh air into the ventilation system.



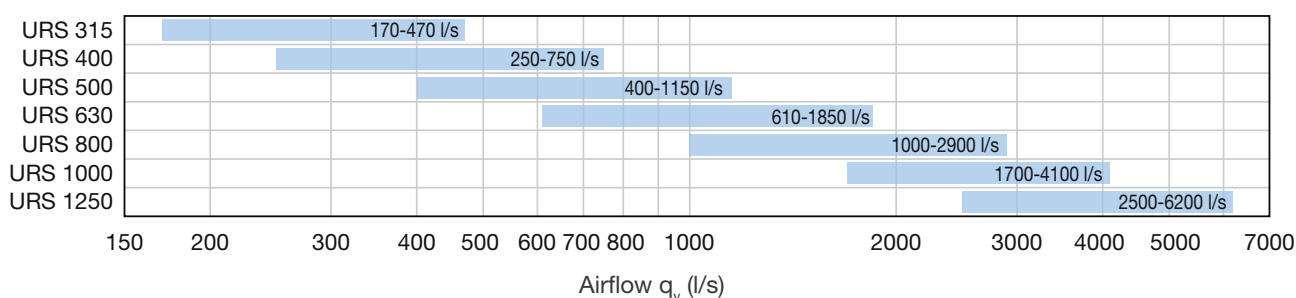
- Low design - low wind resistance
- Excellent water and snow resistance
- Strong structure
- Optimal pressure drop
- Low sound level
- Innovative design
- Magnelis® sheet steel (corrosivity category is C4)

Application

URS is designed to operate in tough conditions. The labyrinth structure ensures good resistance (rain, snow, hail) in stormy weather (wind speeds up to 25 m/s).



Quick Selection



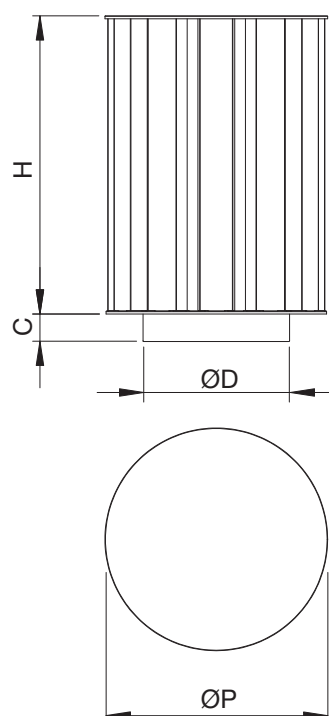
Material and Dimensions

Manufactured of zinc-magnesium coated sheet steel (ZM310). Can also be manufactured of other materials and in coated finish.

Sizes Ø 315-400 mm with female connection which fits outside a fitting and sizes Ø 500-1250 mm with VRL flange duct connection (counterflange ordered separately).

Starting from Ø 500, equipped with lifting and anchoring bracket.

Nominal size ØD (mm)	P (mm)	H (mm)	C (mm)	Weight (kg)	Free area (m²)	Airflow (l/s)	
						min	max
315	515	815	90	34	0,32	170	470
400	600	815	90	40	0,48	250	750
500	700	1015	90	61	0,88	400	1150
630	830	1215	100	79	1,10	610	1850
800	1000	1215	100	107	1,11	1000	2900
1000	1200	1215	100	183	1,58	1700	4100
1250	1450	1540	100	217	2,66	2500	6200



URS air intake device with rain-plate connection (KL) for installation with MKL roof transition will provide the best possible combination for water resistance.

URS air intake device with rain-plate and MKL roof transition with rain-plate collar.

MKL with 50 mm insulation.

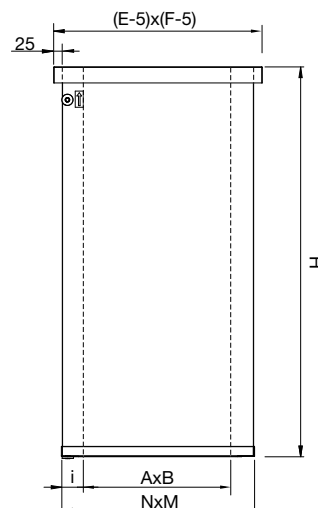
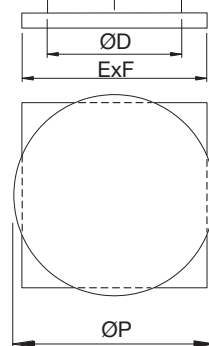
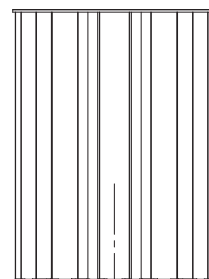
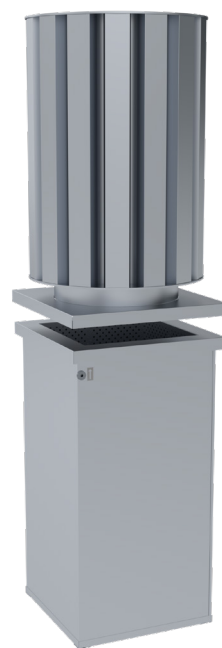
URS Nominal size ØD (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL+KL Nominal size (N×M KL-ExF)	AxB (mm)	NxM (mm)
315	450x450	MKL 400x400 KL-450x450	300x300	395x395
400	550x550	MKL 500x500 KL-550x550	400x400	495x495
500	650x650	MKL 600x600 KL-650x650	500x500	595x595
630	750x750	MKL 700x700 KL-750x750	600x600	695x695
800	950x950	MKL 900x900 KL-950x950	800x800	895x895
1000	1150x1150	MKL 1100x1100 KL-1150x1150	1000x1000	1095x1095
1250	1450x1450	MKL 1400x1400 KL-1450x1450	1300x1300	1395x1395

Installation opening = (N+20)×(M+20) mm.

MKL with 100 mm insulation.

URS Nominal size ØD (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL+KL Nominal size (N×M KL-ExF)	A/B (mm)	N/M (mm)
315	550x550	MKL 500x500 KL-550x550	300x300	495x495
400	650x650	MKL 600x600 KL-650x650	400x400	595x595
500	750x750	MKL 700x700 KL-750x750	500x500	695x695
630	850x850	MKL 800x800 KL-850x850	600x600	795x795
800	1050x1050	MKL 1000x1000 KL-1050x1050	800x800	995x995
1000	1250x1250	MKL 1200x1200 KL-1250x1250	1000x1000	1195x1195
1250	1550x1550	MKL 1500x1500 KL-1550x1550	1300x1300	1495x1495

For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.



URS air intake device with rain-plate and MKL roof transition.

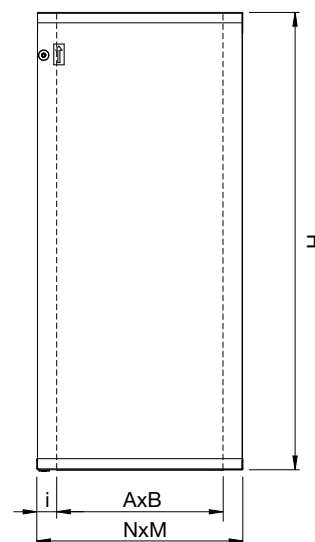
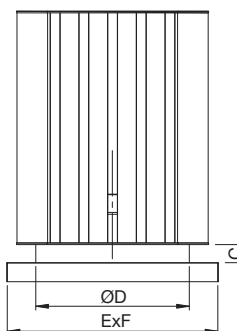
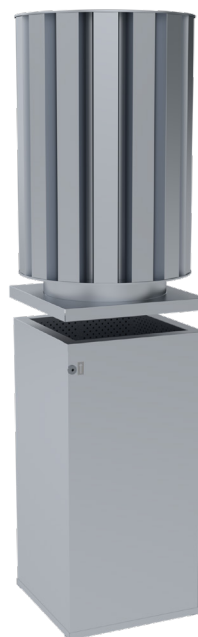
MKL roof transition with 50 mm insulation.

URS Nominal size ØD	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size (NxM)	AxB (mm)	NxM (mm)
URS 315	400x400	MKL 400x400	300x300	395x395
URS 400	500x500	MKL 500x500	400x400	495x495
URS 500	600x600	MKL 600x600	500x500	595x595
URS 630	700x700	MKL 700x700	600x600	695x695
URS 800	900x900	MKL 900x900	800x800	895x895
URS 1000	1100x1100	MKL 1100x1100	1000x1000	1095x1095
URS 1250	1400x1400	MKL 1400x1400	1300x1300	1395x1395

MKL roof transition with 100 mm insulation.

URS Nominal size ØD (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size (NxM)	AxB (mm)	NxM (mm)
URS 315	500x500	MKL 500x500	300x300	495x495
URS 400	600x600	MKL 600x600	400x400	595x595
URS 500	700x700	MKL 700x700	500x500	695x695
URS 630	800x800	MKL 800x800	630x630	795x795
URS 800	1000x1000	MKL 1000x1000	800x800	995x995
URS 1000	1200x1200	MKL 1200x1200	1000x1000	1195x1195
URS 1250	1500x1500	MKL 1500x1500	1300x1300	1495x1495

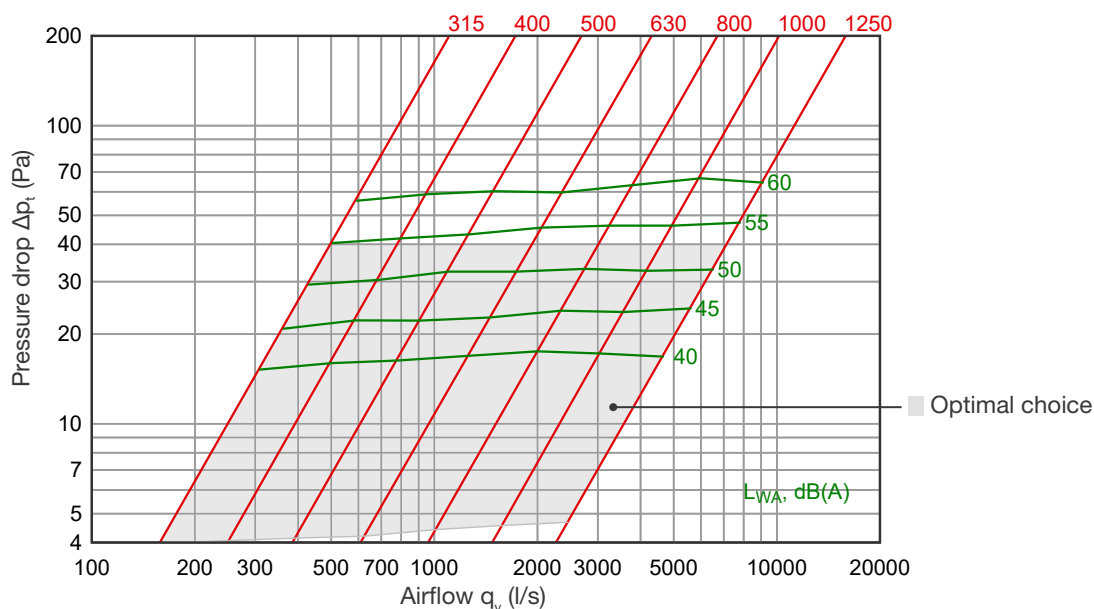
For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.



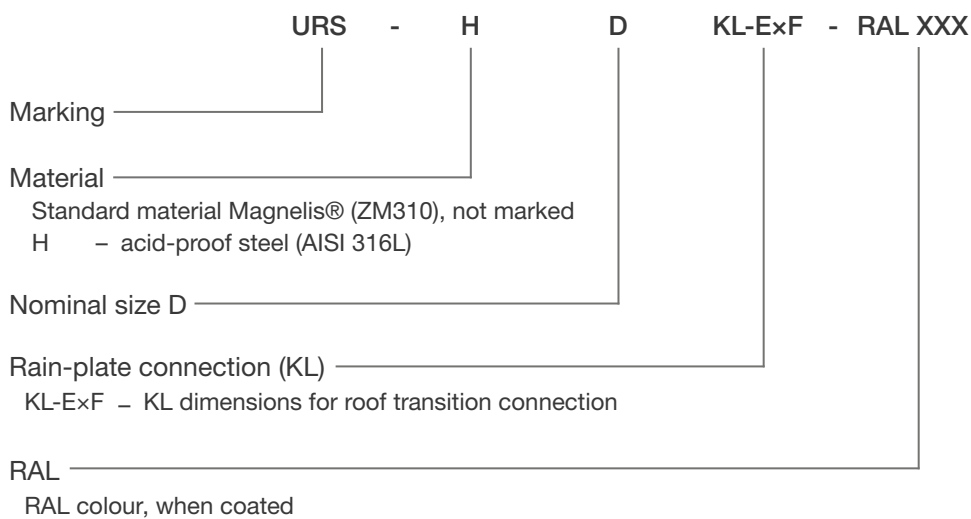
Technical Data

Pressure drop - Airflow

Recommended maximum pressure drop 40 Pa. For best result, when choosing a roof hood, air velocity over the free area should not exceed 2,6 m/s and velocity in the duct should not exceed 6 m/s.



Product Marking



Example: URS 315 Air intake device
 URS-H 315 Air intake device (AISI 316L)
 URS 315-RAL7000 Air intake device (coated)
 URS 315-KL-500x500 Air intake device with rain-plate connection for roof transition

ULK Air Intake Device

ULK is a roof-mounted ventilation system air intake device for rectangular ducts. It is designed to look great and to withstand weather conditions in the Nordic countries.

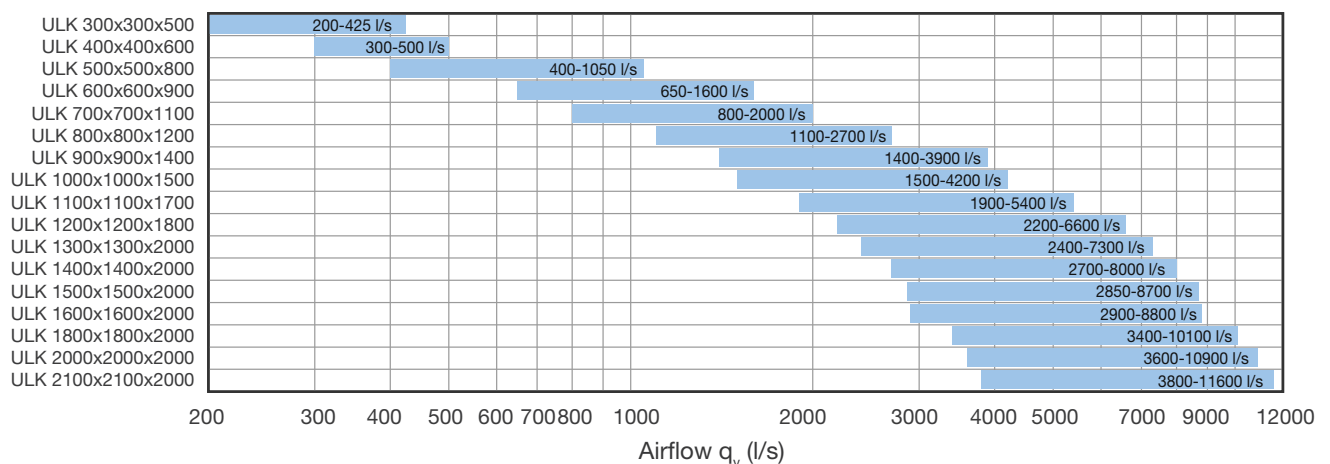
- Excellent water and snow resistance
- Strong structure
- Optimal pressure drop
- Low sound level
- Innovative design
- Magnelis® sheet steel (corrosivity category is C4)
- Standard dimensions
- Simplifies installation
- Waterproof and safe installation



Application

Designed to operate in tough conditions. The labyrinth structure ensures good resistance (rain, snow, hail) in stormy weather (wind speeds up to 25 m/s).

Quick Selection



Material and Dimensions

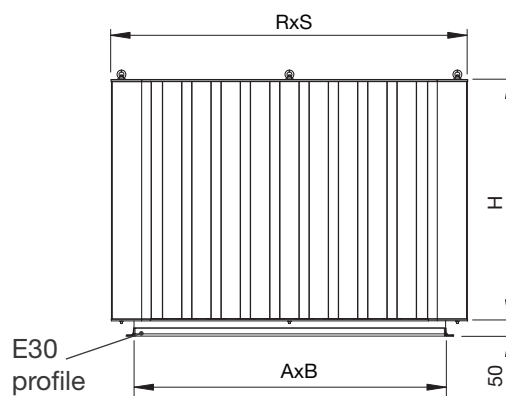
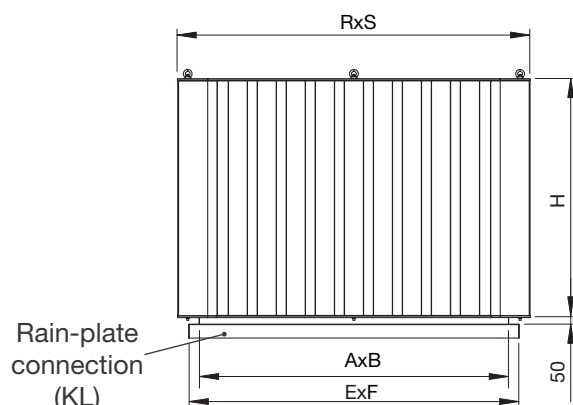
ULK is manufactured as standard from Magnelis® sheet steel (ZM310). In special order it can also be manufactured of other materials and in powder coated finish (RAL colorcard).

ULK air intake devices are available in several dimensions for rectangular air intake systems. Minimum duct connection dimensions are 300x300 mm and the maximum is 2100x2100x2000 mm. When larger sizes are needed for special projects please consult with your local salesman.

As standard the ULK is equipped with E30 europrofile for connecting to a rectangular duct.

On special order the ULK can be equipped with rain -plate for connecting to a roof transition.

Starting from size 800x800 mm, the ULK is equipped with lifting and anchoring brackets.



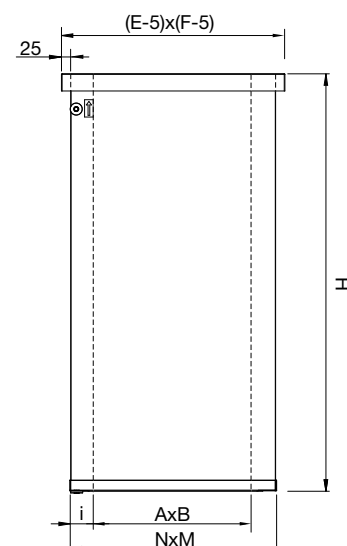
Nominal size AxBxH (mm)	AxB (mm)	E/F (mm)		RxS (mm)	H (mm)	Weight (kg)	Free area (m ²)	Airflow (l/s)	
		MKL i=50 (mm)	MKL i=100 (mm)					Min	max
300x300x500	300x300	400	500	625	500	31	0,161	200	425
400x400x600	400x400	500	600	625	600	32	0,193	300	500
500x500x800	500x500	600	700	775	800	39	0,405	400	1050
600x600x900	600x600	700	800	925	900	57	0,621	650	1600
700x700x1100	700x700	800	900	925	1100	77	0,759	800	2000
800x800x1200	800x800	900	1000	1075	1200	84	1,049	1100	2700
900x900x1400	900x900	1000	1100	1225	1400	116	1,482	1400	3900
1000x1000x1500	1000x1000	1100	1200	1225	1500	144	1,588	1500	4200
1100x1100x1700	1100x1100	1200	1300	1375	1700	159	2,112	1900	5400
1200x1200x1800	1200x1200	1300	1400	1525	1800	194	2,568	2200	6600
1300x1300x2000	1300x1300	1400	1500	1525	2000	232	2,853	2400	7300
1400x1400x2000	1400x1400	1500	1600	1675	2000	236	3,221	2700	8000
1500x1500x2000	1500x1500	1600	1700	1825	2000	268	3,589	2800	8700
1600x1600x2000	1600x1600	1700	1800	1825	2000	292	3,589	2900	8800
1800x1800x2000	1800x1800	-	-	2125	2000	331	4,325	3400	10100
2000x2000x2000	2000x2000	-	-	2285	2000	360	4,693	3600	10900
2100x2100x2000	2100x2100	-	-	2425	2000	397	5,061	3800	11600

ULK air intake device with rain-plate connection (KL) for installation with MKL roof transition will provide the best possible combination for water resistance.

ULK air intake device with rain-plate and MKL roof transition with rain-plate collar.

MKL with 50 mm insulation.

ULK Nominal size AxBxH	KL connection size ExF (mm)	MKL (i=50 mm)	
		MKL+KL Nominal size (NxM KL-ExF)	NxM (mm)
300x300x500	450x450	MKL 400x400 KL-450x450	395x395
400x400x600	550x550	MKL 500x500 KL-550x550	495x495
500x500x800	650x650	MKL 600x600 KL-650x650	595x595
600x600x900	750x750	MKL 700x700 KL-750x750	695x695
700x700x1100	850x850	MKL 800x800 KL-850x850	795x795
800x800x1200	950x950	MKL 900x900 KL-950x950	895x895
900x900x1400	1050x1050	MKL 1000x1000 KL-1050x1050	995x995
1000x1000x1500	1150x1150	MKL 1100x1100 KL-1150x1150	1095x1095
1100x1100x1700	1250x1250	MKL 1200x1200 KL-1250x1250	1195x1195
1200x1200x1800	1350x1350	MKL 1300x1300 KL-1350x1350	1295x1295
1300x1300x2000	1450x1450	MKL 1400x1400 KL-1450x1450	1395x1395
1400x1400x2000	1550x1550	MKL 1500x1500 KL-1550x1550	1495x1495
1500x1500x2000	1650x1650	MKL 1600x1600 KL-1650x1650	1595x1595
1600x1600x2000	1750x1750	MKL 1700x1700 KL-1750x1750	1695x1695



ULK air intake device with rain-plate and MKL roof transition.

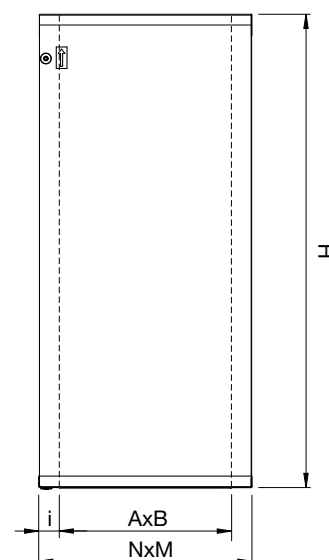
MKL with 50 mm insulation.

ULK Nominal size AxBxH	ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size (N×M)	N×M (mm)	AxB (mm)
300×300×500	400×400	MKL 400×400	395×395	300×300
400×400×600	500×500	MKL 500×500	495×495	400×400
500×500×800	600×600	MKL 600×600	595×595	500×500
600×600×900	700×700	MKL 700×700	695×695	600×600
700×700×1100	800×800	MKL 800×800	795×795	700×700
800×800×1200	900×900	MKL 900×900	895×895	800×800
900×900×1400	1000×1000	MKL 1000×1000	995×995	900×900
1000×1000×1500	1100×1100	MKL 1100×1100	1095×1095	1000×1000
1100×1100×1700	1200×1200	MKL 1200×1200	1195×1195	1100×1100
1200×1200×1800	1300×1300	MKL 1300×1300	1295×1295	1200×1200
1300×1300×2000	1400×1400	MKL 1400×1400	1395×1395	1300×1300
1400×1400×2000	1500×1500	MKL 1500×1500	1495×1495	1400×1400
1500×1500×2000	1600×1600	MKL 1600×1600	1595×1595	1500×1500
1600×1600×2000	1700×1700	MKL 1700×1700	1695×1695	1600×1600



MKL with 100 mm insulation.

ULK Nominal size AxBxH	ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size (N×M)	N×M (mm)	AxB (mm)
300×300×500	500×500	MKL 500×500	495×495	300×300
400×400×600	600×600	MKL 600×600	595×595	400×400
500×500×800	700×700	MKL 700×700	695×695	500×500
600×600×900	800×800	MKL 800×800	795×795	600×600
700×700×1100	900×900	MKL 900×900	895×895	700×700
800×800×1200	1000×1000	MKL 1000×1000	995×995	800×800
900×900×1400	1100×1100	MKL 1100×1100	1095×1095	900×900
1000×1000×1500	1200×1200	MKL 1200×1200	1195×1195	1000×1000
1100×1100×1700	1300×1300	MKL 1300×1300	1295×1295	1100×1100
1200×1200×1800	1400×1400	MKL 1400×1400	1395×1395	1200×1200
1300×1300×2000	1500×1500	MKL 1500×1500	1495×1495	1300×1300
1400×1400×2000	1600×1600	MKL 1600×1600	1595×1595	1400×1400
1500×1500×2000	1700×1700	MKL 1700×1700	1695×1695	1500×1500
1600×1600×2000	1800×1800	MKL 1800×1800	1795×1795	1600×1600



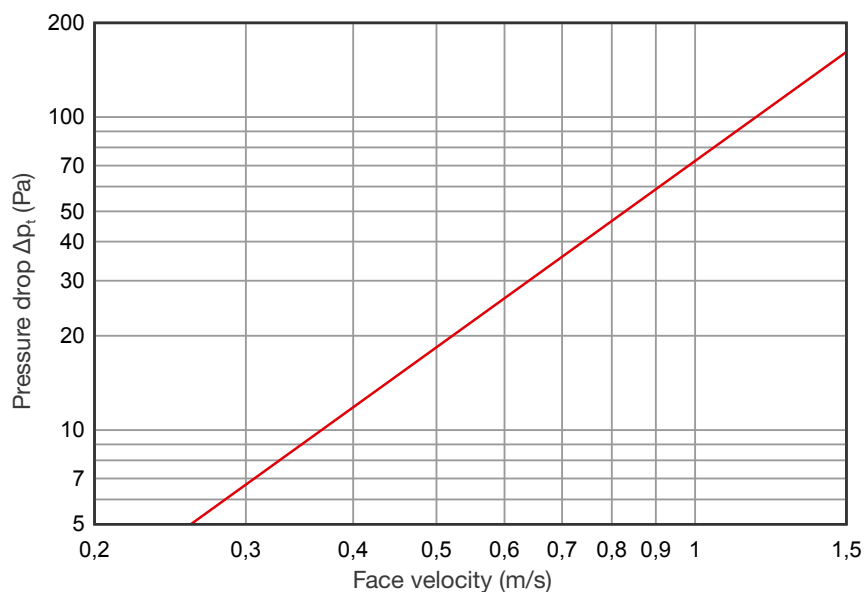
For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.

 Installation opening =
(N+20)×(M+20) mm

Technical Data

Pressure drop - Airflow - Intake air

For the best result face velocity (air speed at the outer edge of the device) should not exceed 0,6 m/s and velocity over the free area must not exceed 2,6 m/s. Velocity in the duct should not exceed 6 m/s.



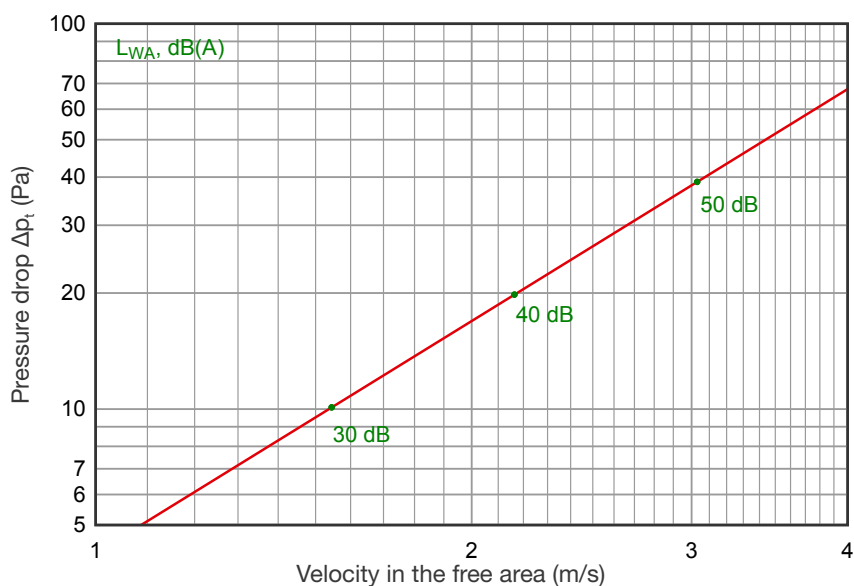
If special sizes are required, the product dimensions can be calculated using the following formula. For special sizes please consult with your local salesman.

Sizing example for special sizes:

Maximum airflow [l/s] = ((R[m] × H [m] × 2) + (S [m] × H [m] × 2)) × 0,6 [m/s] × 1000

ULK 600x600-900

$((0,925 \times 0,9 \times 2) + (0,925 \times 0,9 \times 2)) \times 0,6 \times 1000 = 1998 \text{ l/s}$



Product Marking

	ULK	-	H	-	AxB	-	H	-	KL-ExF	-	RAL XXX
Marking											
Material											
Duct size AxB											
Height H											
Duct connection											
RAL											

Example: ULK 700x500-600-KL-900x700 Air intake device
 ULK 700x500-600-KL-900x700-RAL7000 Air intake device
 ULK 700x500-500-E30 Air intake device

ULV2 Roof Hood

ULV2 is an exhaust air diffuser with round or rectangular connection type. It is designed to look great and to withstand conditions in the Nordic countries.

- Water resistance class A according to standard EN 13030:2001
- Standard dimensions
- Innovative design
- Magnelis® steel sheet, corrosivity category is C4
- Long vertical exhaust pattern
- Strong structure
- Low pressure drop
- Low sound level



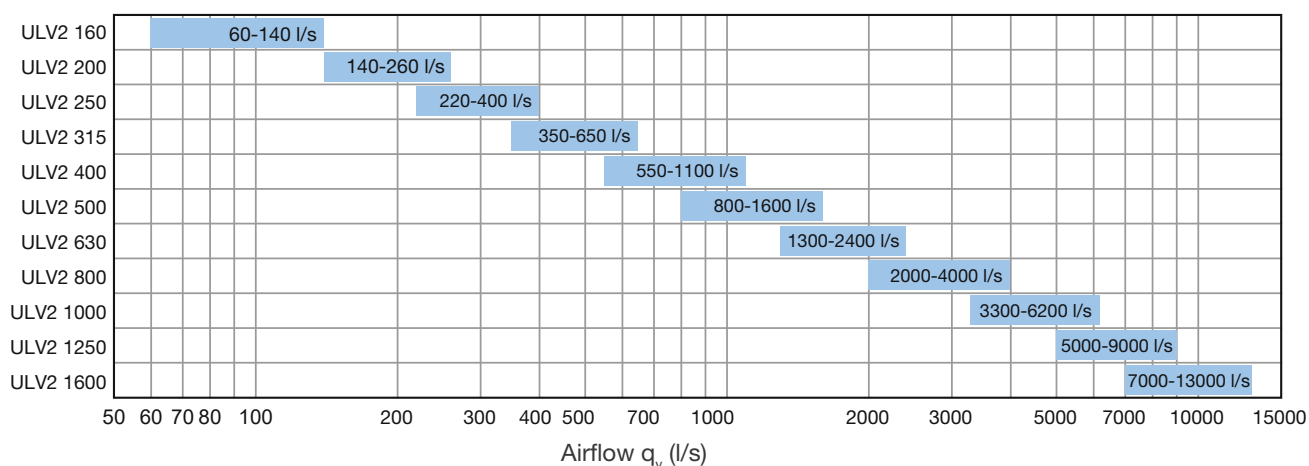
Application

Design of the exhaust air diffuser efficiently prevents rainwater from entering the ventilation duct. Rainwater is drained onto the roof from the base of the unit.

The structure ensures good resistance also in stormy weather (wind speed up to 25 m/s).

Exhaust air is blown vertically up with low pressure drop and high speed through the unit. This ensures that odours and dirt in exhaust air will not fall on the area around the exhaust diffuser.

Quick Selection

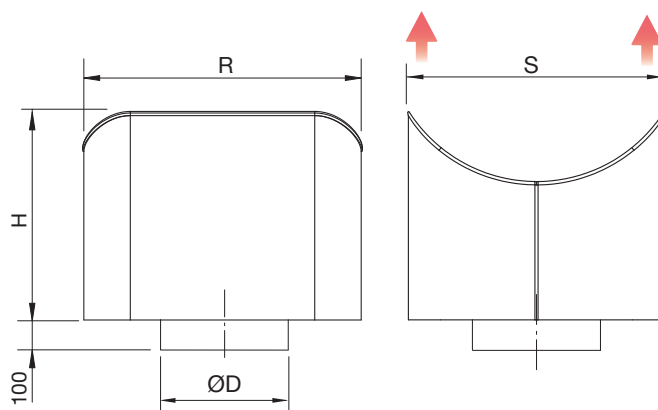


Material and Dimensions

Manufactured of Magnelis® sheet steel (ZM310).

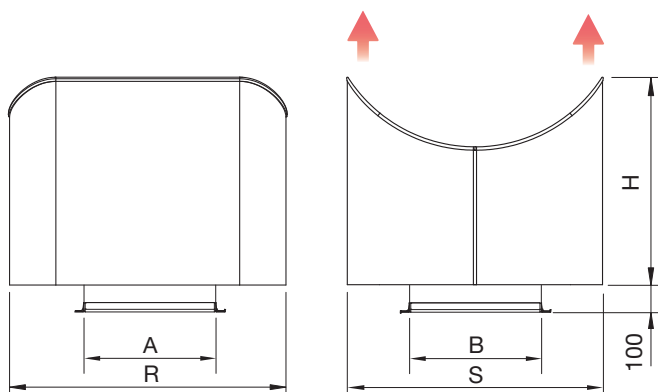
ULV2 with round duct connection sizes Ø 160...400 mm are with female connection which fits outside a fitting. Sizes Ø 500-1600 mm are with VRL flange duct connection. Counterflange ordered separately.

In special order can also be manufactured of acidproof steel (AISI 316L) or in powder coated finish (RAL colorcard).



ULV2 exhaust air diffuser with round duct connection

Nominal size ØD (mm)	RxS (mm)	H (mm)	Weight (kg)	Free area (m²)	Airflow (l/s)	
					Min	max
160	340x340	345	5	0,021	60	140
200	400x400	300	7	0,059	140	260
250	500x500	375	10	0,081	220	400
315	600x600	450	14	0,120	350	650
400	800x800	650	25	0,218	550	1100
500	1000x1000	800	37	0,307	800	1600
630	1200x1200	1000	57	0,393	1300	2400
800	1500x1500	1100	92	0,621	2000	4000
1000	1600x1600	1200	121	0,895	3300	6200
1250	1900x1900	1250	142	1,502	5000	9000
1600	2400x2400	1800	255	2,164	7000	13000



ULV2 exhaust air diffuser with rectangular duct connection (E30-profile)

Nominal size AxB (mm)	AxB (mm)	RxS (mm)	H (mm)	Weight (kg)	Free area (m²)	Airflow (l/s)	
						Min	max
200x200	200x200	400x400	300	7	0,059	140	260
250x250	250x250	500x500	375	12	0,081	220	400
300x300	300x300	600x600	450	14	0,120	350	650
400x400	400x400	800x800	650	25	0,218	550	1100
500x500	500x500	1000x1000	800	37	0,307	800	1600
600x600	600x600	1200x1200	1000	57	0,393	1300	2400
800x800	800x800	1500x1500	1100	92	0,621	2000	4000
1000x1000	1000x1000	1600x1600	1200	121	0,895	3300	6200
1200x1200	1200x1200	1900x1900	1250	142	1,502	5000	9000
1600x1600	1600x1600	2400x2400	1800	255	2,164	7000	13000

ULV2 exhaust air device with rain-plate connection (KL) for installation with MKL roof transition will provide the best possible combination for water resistance.

ULV2 with rain-plate and MKL roof transition with rain-plate collar.

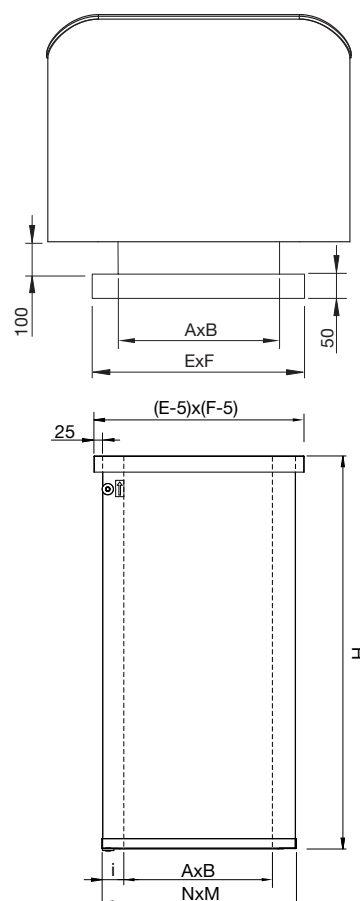
MKL roof transition with 50 mm insulation.

ULV2 Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size (N×M KL-ExF)	AxB (mm)	N×M (mm)
200×200	350×350	MKL 300×300 KL-350×350	200×200	295×295
250×250	450×450	MKL 400×400 KL-450×450	300×300	395×395
300×300	450×450	MKL 400×400 KL-450×450	300×300	395×395
400×400	550×550	MKL 500×500 KL-550×550	400×400	495×495
500×500	650×650	MKL 600×600 KL-650×650	500×500	595×595
600×600	750×750	MKL 700×700 KL-750×750	600×600	695×695
800×800	950×950	MKL 900×900 KL-950×950	800×800	895×895
1000×1000	1150×1150	MKL 1100×1100 KL-1150×1150	1000×1000	1095×1095
1200×1200	1350×1350	MKL 1300×1300 KL-1350×1350	1200×1200	1295×1295
1600×1600	1750×1750	MKL 1700×1700 KL-1750×1750	1600×1600	1695×1695

MKL with 100 mm insulation.

ULV2 Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL+KL Nominal size (N×M KL-ExF)	AxB (mm)	N×M (mm)
200×200	450×450	MKL 400×400 KL-450×450	200×200	395×395
250×250	550×550	MKL 500×500 KL-550×550	300×300	495×495
300×300	550×550	MKL 500×500 KL-550×550	300×300	495×495
400×400	650×650	MKL 600×600 KL-650×650	400×400	595×595
500×500	750×750	MKL 700×700 KL-750×750	500×500	695×695
600×600	850×850	MKL 800×800 KL-850×850	600×600	795×795
800×800	1050×1050	MKL 1000×1000 KL-1050×1050	800×800	995×995
1000×1000	1250×1250	MKL 1200×1200 KL-1250×1250	1000×1000	1195×1195
1200×1200	1450×1450	MKL 1400×1400 KL-1450×1450	1200×1200	1395×1395
1600×1600	1850×1850	MKL 1800×1800 KL-1850×1850	1600×1600	1795×1795

For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.



ULV2 with rain-plate and MKL roof transition.

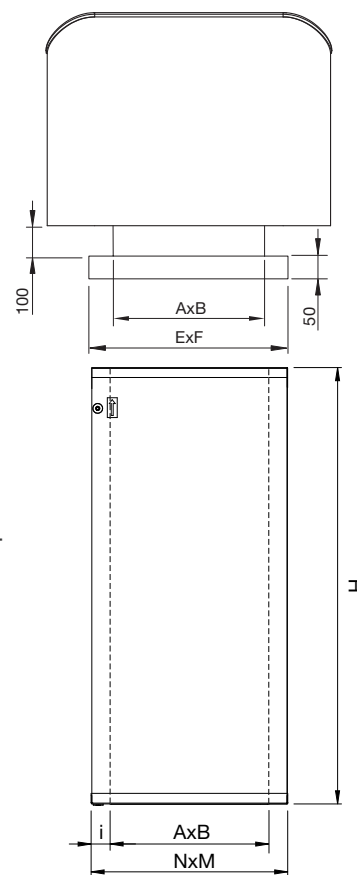
MKL roof transition with 50 mm insulation.

ULV2 Nominal size AxB (mm)	Connection size ExF (mm)	MKL Nominal size (N×M)	AxB (mm)	N×M (mm)
200×200	300×300	MKL 300×300	200×200	295×295
250×250	400×400	MKL 400×400	300×300	395×395
300×300	400×400	MKL 400×400	300×300	395×395
400×400	500×500	MKL 500×500	400×400	495×495
500×500	600×600	MKL 600×600	500×500	595×595
600×600	700×700	MKL 700×700	600×600	695×695
800×800	900×900	MKL 900×900	800×800	895×895
1000×1000	1100×1100	MKL 1100×1100	1000×1000	1195×1195
1200×1200	1300×1300	MKL 1300×1300	1200×1200	1495×1495
1600×1600	1700×1700	MKL 1700×1700	1600×1600	1795×1795

MKL with 100 mm insulation.

ULV2 Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size (N×M)	AxB (mm)	N×M (mm)
200×200	400×400	MKL 400×400	200×200	395×395
250×250	500×500	MKL 500×500	300×300	495×495
300×300	500×500	MKL 500×500	300×300	495×495
400×400	600×600	MKL 600×600	400×400	595×595
500×500	700×700	MKL 700×700	500×500	695×695
600×600	800×800	MKL 800×800	600×600	795×795
800×800	1000×1000	MKL 1000×1000	800×800	995×995
1000×1000	1200×1200	MKL 1200×1200	1000×1000	1195×1195
1200×1200	1400×1400	MKL 1400×1400	1200×1200	1495×1495
1600×1600	1800×1800	MKL 1800×1800	1600×1600	1795×1795

For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.

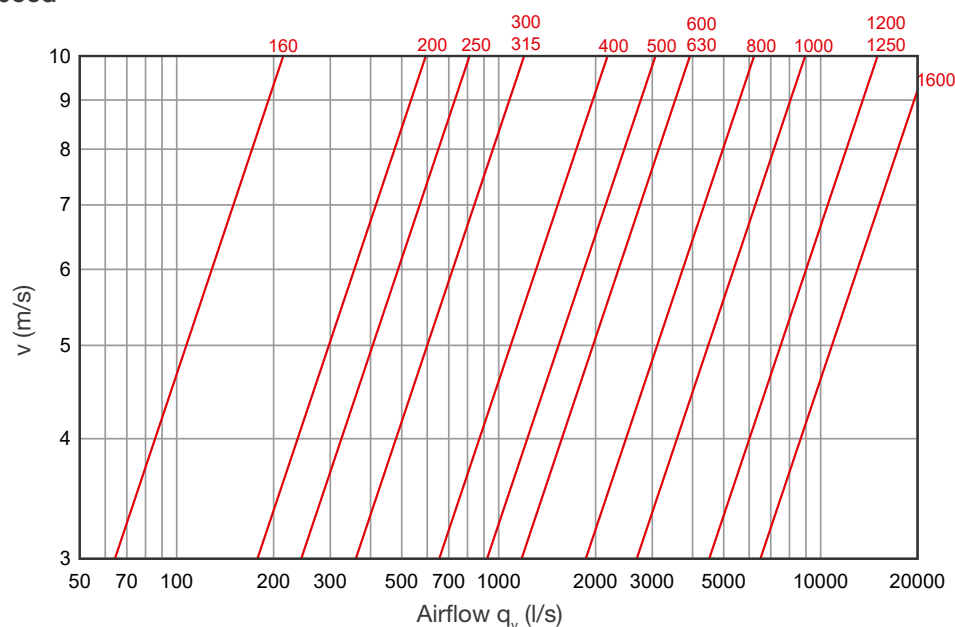


Installation opening
= (N+20)×(M+20) mm

Technical Data

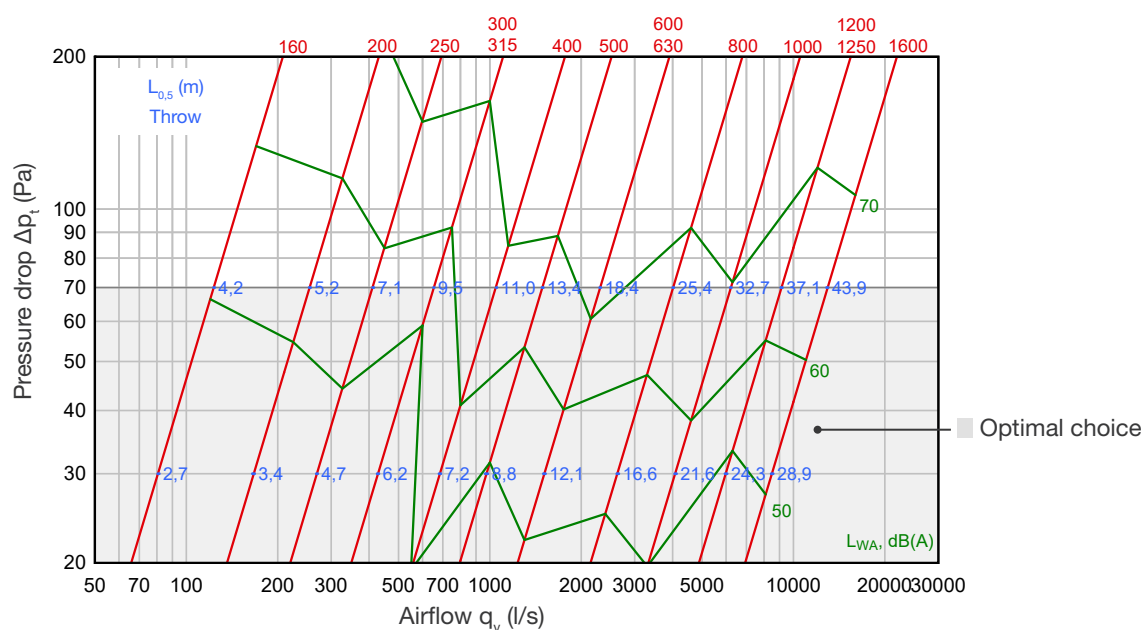
Velocity in the free area of the diffuser is dimensioned between 3 m/s and 10 m/s.

Exhaust air speed



Pressure drop - Airflow - Exhaust air

$L_{0,5}$ (m) Throw = Distance air travels up from roof hood until air speed drops to 0,5 m/s.



Rain water effectiveness

Airflow		Rain water flow rates			Performance	
q_v (m ³ /s)	v (m/s)	q_s (l/h/m ²)	q_{do} (l/h)	q_d (l/h)	E (%)	Class
0,0	0,00	75,0	2,32	0,18	99,2	A
0,8	4,07	75,0	0,74	0,06	99,6	A
1,6	8,15	75,0	0,23	0,00	100,0	A

- q_v - Air flow rate, m³/s
 v - Core velocity, m/s
 q_s - Rainfall rate, l/h/m²
 q_{do} - Rain water flow penetrating the core area, l/h
 q_d - Rain water flow penetrating the device, l/h
 E - Effectiveness, %

Product Marking

	ULV2	-	H	D	KL-ExF	-	RAL XXX
Marking							
ULV2							
Material							
Standard material Magnelis® (ZM310), not marked							
H							
Size							
D							
AxB							
Duct connection							
KL-ExF							
E30							
RAL							
RAL colour, when coated							

Example: ULV2 400 Exhaust air diffuser with round duct connection

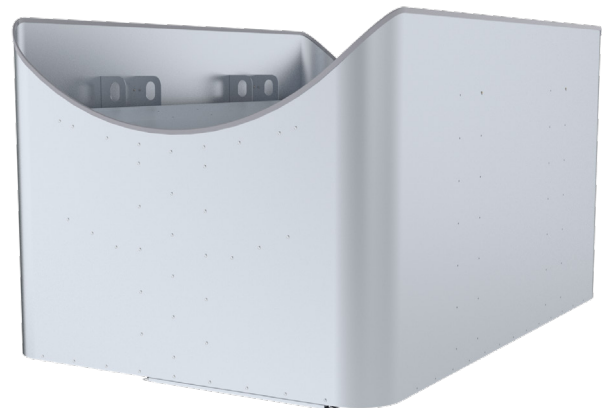
ULV2-H 400×400-KL-500×500 Exhaust air diffuser (AISI 316L), with rain-plate connection

ULV2 400×400-E30-RAL7000 Exhaust air diffuser (coated), with E30 profile connection

ULV2P Roof Hood

ULV2P is an exhaust air device with rectangular connection. It is designed to look great and to withstand weather conditions in the Nordic countries.

- Low design
- Long vertical exhaust pattern
- Strong structure
- Magnelis® sheet steel, corrosivity category is C4
- Low pressure drop
- Low sound level
- Unique form
- Can be installed directly on a roof transition



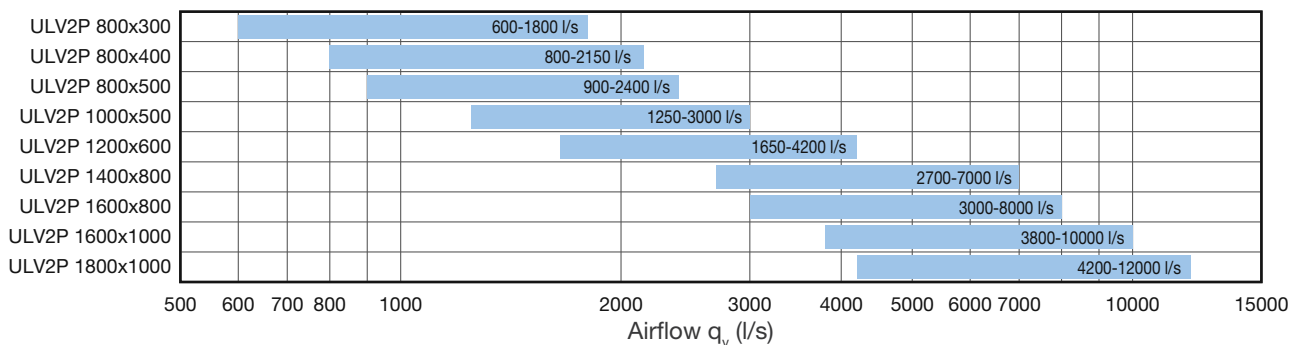
Application

Exhaust air is blown vertically up with low pressure drop and high speed through the unit. This ensures that odours and dirt in exhaust air will not fall on the area around the exhaust diffuser.

Design of the unit efficiently prevents rainwater from entering duct. Rainwater is drained onto the roof from the base of the unit.

Connecting ULV2P with rain-plate (KL) on the roof transition simplifies installation and gives the best result for water resistance

Quick Selection



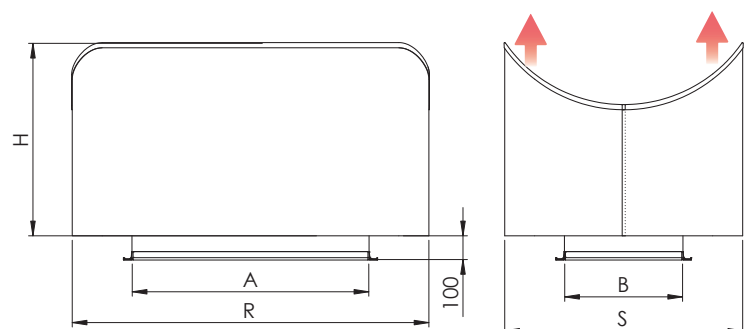
Material and Dimensions

ULV2P is manufactured of Magnelis® – sheet steel (ZM310).

As standard the ULV2P is equipped with europrofile E30.

Can also be manufactured of other materials and in coated finish.

In addition, it is possible to order an exhaust air diffuser with a rain-plate connection (KL), which fits directly into the roof transition (MKL).

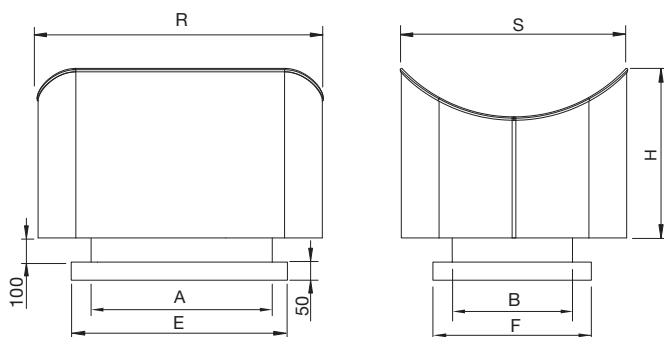


ULV2P roof hood with rectangular duct connection (E30-profile).

Nominal size AxB (mm)	A (mm)	B (mm)	R (mm)	S (mm)	H (mm)	Weigh (kg)	Free area (m ²)	Min	max
800x300	800	300	1100	600	450	35	0,220	600	1800
800x400	800	400	1200	800	650	48	0,327	800	2150
800x500	800	500	1300	1000	800	62	0,399	900	2400
1000x500	1000	500	1500	1000	800	72	0,460	1250	3000
1200x600	1200	600	1800	1200	1000	109	0,589	1650	4200
1400x800	1400	800	2100	1500	1100	115	0,870	2700	7000
1600x800	1600	800	2300	1500	1100	145	0,953	3000	8000
1600x1000	1600	1000	2200	1600	1200	155	1,231	3800	10000
1800x1000	1800	1000	2400	1600	1200	170	1,342	4200	12000

ULV2P with rain-plate and MKL roof transition with rain-plate collar (KL).

ULV2P exhaust air device with rain-plate connection (KL) for installation with MKL roof transition will provide the best possible combination for water resistance.

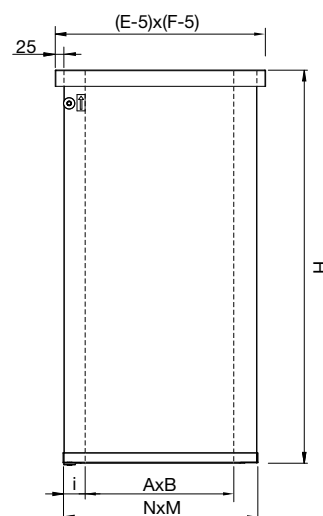


MKL with 50 mm insulation.

ULV2P Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL-KL Nominal size (N×M KL-ExF)	AxB (mm)	N×M (mm)
800x300	950x450	MKL 900x400 KL-950x450	800x300	895x395
800x400	950x550	MKL 900x500 KL-950x550	800x400	895x495
800x500	950x650	MKL 900x600 KL-950x650	800x500	895x595
1000x500	1150x650	MKL 1100x600 KL-1150x650	1000x500	1095x595
1200x600	1350x750	MKL 1300x700 KL-1350x750	1200x600	1295x695
1400x800	1550x950	MKL 1500x900 KL-1550x950	1400x800	1495x895
1600x800	1750x950	MKL 1700x900 KL-1750x950	1600x800	1695x895
1600x1000	1750x1150	MKL 1700x1100 KL-1750x1150	1600x1000	1695x1095
1800x1000	1950x1050	MKL 1900x1100 KL-1950x1050	1800x1000	1895x995

MKL with 100 mm insulation.

ULV2P Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL-KL Nominal size (N×M KL-ExF)	AxB (mm)	N×M (mm)
800x300	1050x550	MKL 1000x500 KL-1050x550	800x300	995x495
800x400	1050x650	MKL 1000x600 KL-1050x650	800x400	995x595
800x500	1050x750	MKL 1000x700 KL-1050x750	800x500	995x695
1000x500	1250x750	MKL 1200x700 KL-1250x750	1000x500	1195x695
1200x600	1450x850	MKL 1400x800 KL-1450x850	1200x600	1395x795
1400x800	1650x1050	MKL 1600x1000 KL-1650x1050	1400x800	1595x995
1600x800	1850x1050	MKL 1800x1000 KL-1850x1050	1600x800	1795x995
1600x1000	1850x1250	MKL 1800x1200 KL-1850x1250	1600x1000	1795x1195
1800x1000	2050x1150	MKL 2000x1200 KL-2050x1250	1800x1000	1995x1095



Installation opening
= (N+20)×(M+20) mm

ULV2P with rain-plate and MKL roof transition.

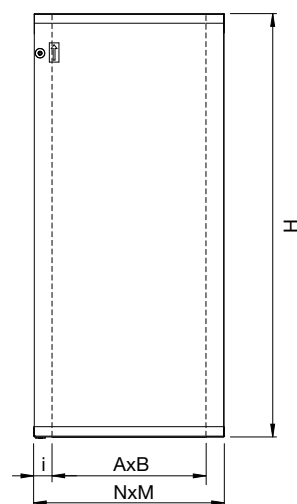
MKL with 50 mm insulation.

ULV2P Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size (N×M)	AxB (mm)	N×M (mm)
800×300	900×400	MKL 900×400	800×300	895×395
800×400	900×500	MKL 900×500	800×400	895×495
800×500	900×600	MKL 900×600	800×500	895×595
1000×500	1100×600	MKL 1100×600	1000×500	1095×595
1200×600	1300×700	MKL 1300×700	1200×600	1295×695
1400×800	1500×900	MKL 1500×900	1400×800	1495×895
1600×800	1700×900	MKL 1700×900	1600×800	1695×895
1600×1000	1700×1100	MKL 1700×1100	1600×1000	1695×1095
1800×1000	1900×1000	MKL 1900×1100	1800×1000	1895×995

MKL with 100 mm insulation.

ULV2P Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size (N×M)	AxB (mm)	N×M (mm)
800×300	1000×500	MKL 1000×500	800×300	995×495
800×400	1000×600	MKL 1000×600	800×400	995×595
800×500	1000×700	MKL 1000×700	800×500	995×695
1000×500	1200×700	MKL 1200×700	1000×500	1195×695
1200×600	1400×800	MKL 1400×800	1200×600	1395×795
1400×800	1600×1000	MKL 1600×1000	1400×800	1595×995
1600×800	1800×1000	MKL 1800×1000	1600×800	1795×995
1600×1000	1800×1200	MKL 1800×1200	1600×1000	1795×1195
1800×1000	2000×1100	MKL 2000×1200	1800×1000	1995×1095

For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.

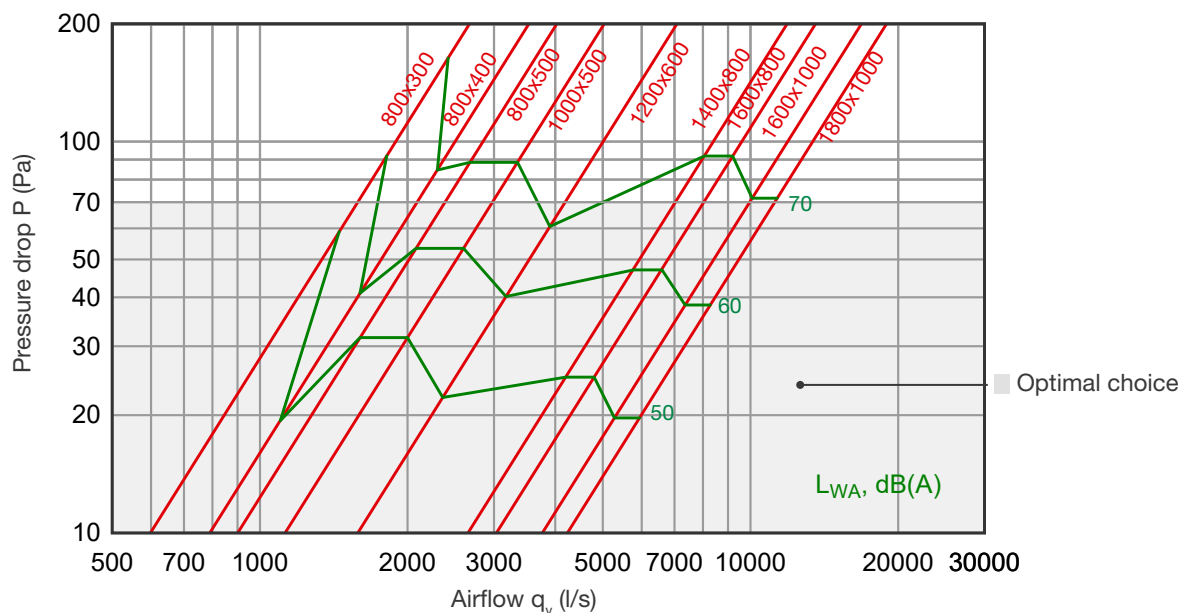


Installation opening
= (N+20)×(M+20) mm

Technical Data

Recommended maximum pressure drop 70 Pa. For best result, when choosing a roof hood, air velocity over the free area and velocity in the duct should not exceed 10 m/s. Velocity in the free area of the roof hood should be between 3 m/s and 10 m/s.

Pressure drop - Airflow



Product Marking

	ULV2P	-	H	AxB	-	E30	-	RAL XXX
Marking								
Material	Standard material Magnelis® (ZM310), not marked H – acid-proof steel (AISI 316L)							
Size	AxB – Rectangular duct connection dimensions							
Duct connection	E30 – Europrofile connection 30 mm (AxB) KL-ExF – Rain-plate connection dimensions (KL)							
RAL	RAL colour, when coated							

Example: ULV2P 1000x500-E30 Roof hood with E30-profile
 ULV2P 1000x500-E30-RAL7000 Roof hood with E30-profile (coated)
 ULV2P 1000x500-KL-1200x700 Roof hood with rain-plate

UVE Roof Hood

UVE is an exhaust air device with round connection. It is designed to look great and to withstand weather conditions in the Nordic countries.

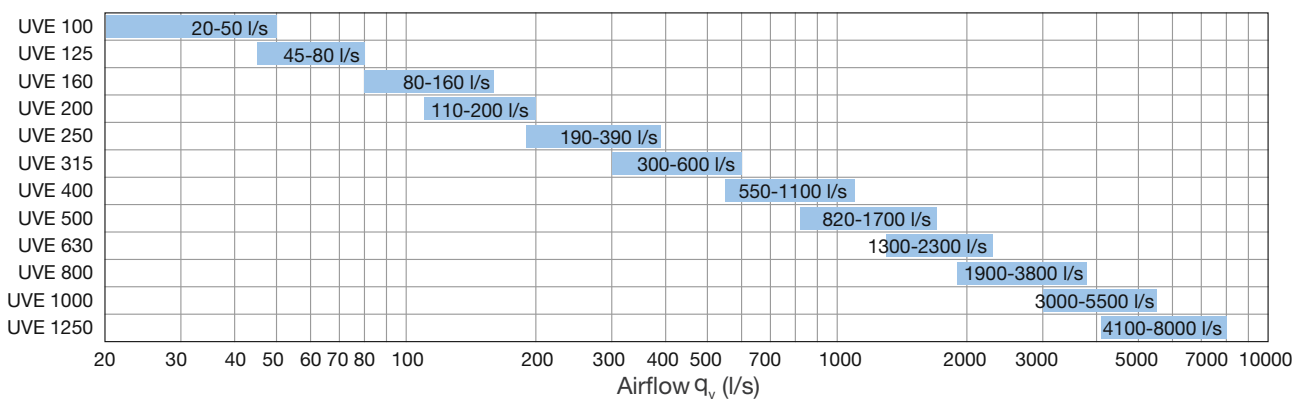
- Low design
- Strong structure
- Low pressure drop
- Magnelis® sheet steel, corrosivity category is C4

Application

Used for exhaust air and air intake. Rainwater is drained onto the roof by the structure of the hood.



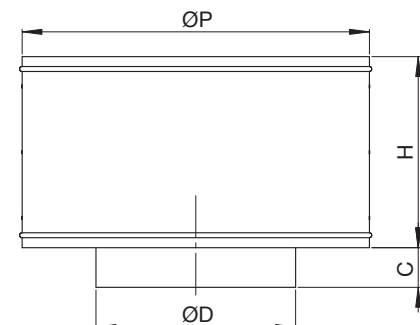
Quick Selection



Material and Sizes

Standard material Magnelis® – zinc-magnesium coated sheet steel (ZM310). Can also be manufactured of other materials and in coated finish.

Sizes Ø 160-400 mm are with female connection which fits outside a fitting. Sizes Ø 500-1600 mm are with VRL flange duct connection. Counterflange ordered separately.



Nominal size ØD (mm)	P (mm)	H (mm)	C (mm)	Weight (kg)	Free area (m²)	Airflow (l/s)	
						Min	max
100	160	140	80	1,2	0,007	20	50
125	200	160	80	1,6	0,011	45	80
160	250	200	80	2,4	0,018	80	160
200	315	240	80	3,5	0,028	110	200
250	400	270	80	5,0	0,044	190	390
315	500	360	80	8,2	0,069	300	600
400	700	380	80	13,0	0,119	550	1100
500	900	440	130	23,0	0,185	820	1700
630	1100	570	130	35,0	0,297	1300	2300
800	1400	750	130	54,0	0,500	1900	3800
1000	1700	970	130	74,0	0,747	3000	5500
1250	2100	1200	130	155,0	1,134	4100	8000

UVE exhaust air device with rain-plate connection (KL) for installation with MKL roof transition will provide the best possible combination for water resistance.

UVE exhaust air device with rain-plate and MKL roof transition with rain-plate collar (KL).

MKL roof transition with 50 mm insulation (H=1200).

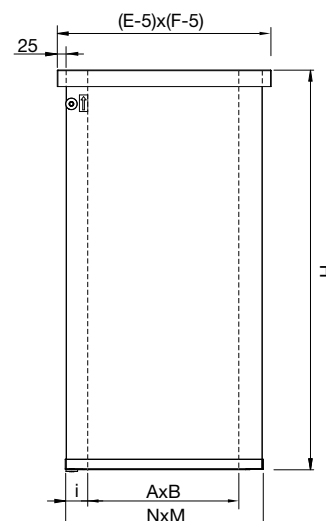
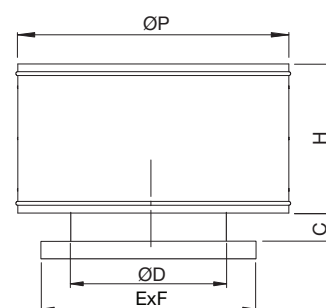
UVE Nominal size ØD	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL+KL Nominal size (N×M KL-ExF)	A×B (mm)	N×M (mm)
UVE 100	350x350	MKL 300x300 KL-350x350	200x200	295x295
UVE 125	350x350	MKL 300x300 KL-350x350	200x200	295x295
UVE 160	350x350	MKL 300x300 KL-350x350	200x200	295x295
UVE 200	350x350	MKL 300x300 KL-350x350	200x200	295x295
UVE 250	450x450	MKL 400x400 KL-450x450	300x300	395x395
UVE 315	450x450	MKL 400x400 KL-450x450	300x300	395x395
UVE 400	550x550	MKL 500x500 KL-550x550	400x400	495x495
UVE 500	650x650	MKL 600x600 KL-650x650	500x500	595x595
UVE 630	750x750	MKL 700x700 KL-750x750	600x600	695x695
UVE 800	950x950	MKL 900x900 KL-950x950	800x800	895x895
UVE 1000	1150x1150	MKL 1100x1100 KL-1150x1150	1000x1000	1095x1095
UVE 1250	1450x1450	MKL 1400x1400 KL-1450x1450	1300x1300	1395x1395

Installation opening = (N+20)×(M+20) mm.

MKL roof transition with 100 mm insulation (H=1200).

UVE Nominal size ØD	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL+KL Nominal size (N×M KL-ExF)	A×B (mm)	N×M (mm)
UVE 100	450x450	MKL 400x400 KL-450x450	200x200	395x395
UVE 125	450x450	MKL 400x400 KL-450x450	200x200	395x395
UVE 160	450x450	MKL 400x400 KL-450x450	200x200	395x395
UVE 200	450x450	MKL 400x400 KL-450x450	200x200	395x395
UVE 250	550x550	MKL 500x500 KL-550x550	300x300	495x495
UVE 315	550x550	MKL 500x500 KL-550x550	300x300	495x495
UVE 400	650x650	MKL 600x600 KL-650x650	400x400	595x595
UVE 500	750x750	MKL 700x700 KL-750x750	500x500	695x695
UVE 630	850x850	MKL 800x800 KL-850x850	600x600	795x795
UVE 800	1050x1050	MKL 1000x1000 KL-1050x1050	800x800	995x995
UVE 1000	1250x1250	MKL 1200x1200 KL-1250x1250	1000x1000	1195x1195
UVE 1250	1550x1550	MKL 1500x1500 KL-1550x1550	1300x1300	1495x1495

For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.



UVE exhaust air device with rain-plate and MKL roof transition.

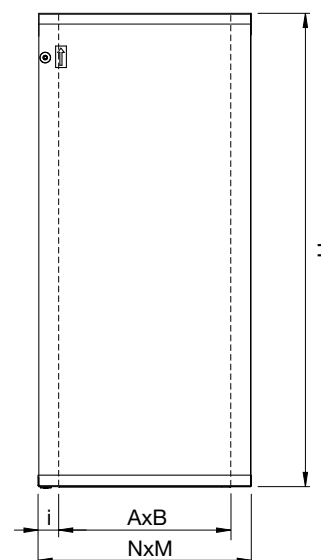
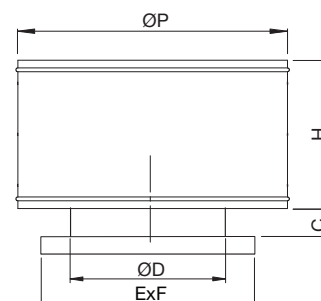
MKL roof transition with 50 mm insulation.

UVE Nominal size ØD (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size (N×M)	A×B (mm)	N×M (mm)
UVE 100	300×300	MKL 300×300	200×200	295×295
UVE 125	300×300	MKL 300×300	200×200	295×295
UVE 160	300×300	MKL 300×300	200×200	295×295
UVE 200	300×300	MKL 300×300	200×200	295×295
UVE 250	400×400	MKL 400×400	300×300	395×395
UVE 315	400×400	MKL 400×400	300×300	395×395
UVE 400	500×500	MKL 500×500	400×400	495×495
UVE 500	600×600	MKL 600×600	500×500	595×595
UVE 630	700×700	MKL 700×700	600×600	695×695
UVE 800	900×900	MKL 900×900	800×800	895×895
UVE 1000	1100×1100	MKL 1100×1100	1000×1000	1095×1095
UVE 1250	1400×1400	MKL 1400×1400	1300×1300	1395×1395

MKL roof transition with 100 mm insulation.

UVE Nominal size ØD (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size (N×M)	A/B (mm)	N/M (mm)
UVE 100	400×400	MKL 400×400	200×200	395×395
UVE 125	400×400	MKL 400×400	200×200	395×395
UVE 160	400×400	MKL 400×400	200×200	395×395
UVE 200	400×400	MKL 400×400	200×200	395×395
UVE 250	500×500	MKL 500×500	300×300	495×495
UVE 315	500×500	MKL 500×500	300×300	495×495
UVE 400	600×600	MKL 600×600	400×400	595×595
UVE 500	700×700	MKL 700×700	500×500	695×695
UVE 630	800×800	MKL 800×800	630×630	795×795
UVE 800	1000×1000	MKL 1000×1000	800×800	995×995
UVE 1000	1200×1200	MKL 1200×1200	1000×1000	1195×1195
UVE 1250	1500×1500	MKL 1500×1500	1300×1300	1495×1495

For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.



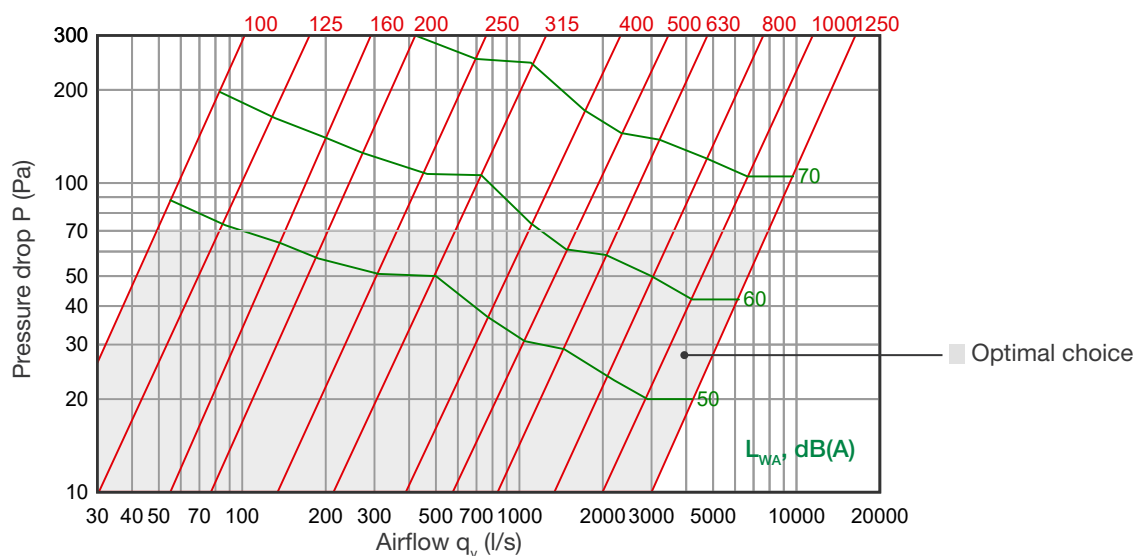
Installation opening =
(N+20)×(M+20) mm

Technical Data

Recommended maximum pressure drop 70 Pa.

For best result, when choosing the roof hoods, there have been taken into account optimal dimensions to ensure the velocity over the free area and in the duct should be between 3 m/s and 10 m/s.

Pressure drop - Airflow - Extract air



Product Marking

	UVE	-	H	-	D	-	KL-E×F	-	RAL XXX
Marking									
Material	Standard material Magnelis® (ZM310), not marked H – acid-proof steel (AISI 316L)								
Nominal size D									
Rain-plate connection (KL)	KL-E×F – Rain-plate connection dimensions								
RAL	RAL colour, when coated								

Example: UVE 315-RAL7000 Roof hood (coated)
 UVE 315-KL-500×500 Roof hood with rain-plate

UVK Roof Hood

UVK square roof device for exhaust air or free airflow. UVK is specially designed for higher air flows. It is designed to look great and to withstand weather conditions in the Nordic countries.

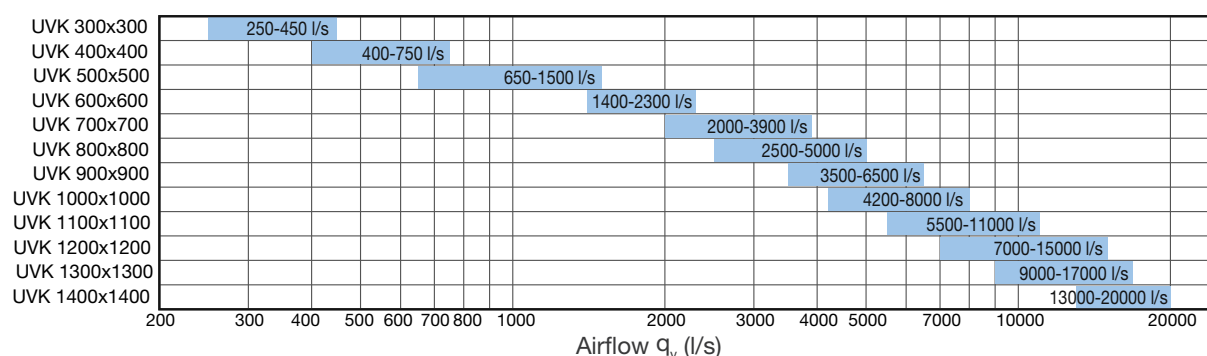
- Low design
- Excellent water separation
- Strong structure
- Low pressure drop
- 12 standard dimensions
- Waterproof and safe installation
- Magnelis® sheet steel, corrosivity category is C4



Application

Suitable for both natural and mechanical ventilation. Rainwater is drained onto the roof by the structure of the hood.

Quick Selection

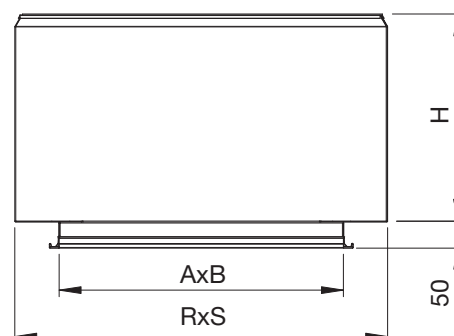


Material and Sizes

Manufactured of Magnelis® sheet steel (ZM310). Can also be manufactured of other materials and in coated finish. For the lifting there are slots in the internal supports.

There is two types of roof hood duct connections:

- rain-plate connection (KL) for installation above MKL roof transition.
- E30 profile connection (standard).



UVK roof hood with E30-profile duct connection.

UVK Nominal size AxB (mm)	RxS (mm)	H (mm)	AxB (mm)	Weight (kg)	Free area (m²)	Airflow (l/s)	
						Min	max
300x300	460x460	270	300x300	10	0,060	250	450
400x400	620x620	330	400x400	15	0,104	400	750
500x500	785x785	435	500x500	25	0,167	650	1500
600x600	950x950	485	600x600	33	0,230	1400	2300
700x700	1115x1115	545	700x700	44	0,314	2000	3900
800x800	1280x1280	605	800x800	58	0,420	2500	5000
900x900	1450x1450	655	900x900	67	0,530	3500	6500
1000x1000	1620x1620	765	1000x1000	96	0,653	4200	8000
1100x1100	1795x1795	815	1100x1100	107	0,792	5500	11000
1200x1200	1970x1970	865	1200x1200	125	0,943	7000	15000
1300x1300	2150x2150	910	1300x1300	145	1,129	9000	17000
1400x1400	2350x2350	960	1400x1400	170	1,406	13000	20000

UVK exhaust air device with rain-plate connection (KL) for installation with MKL roof transition will provide the best possible combination for water resistance.

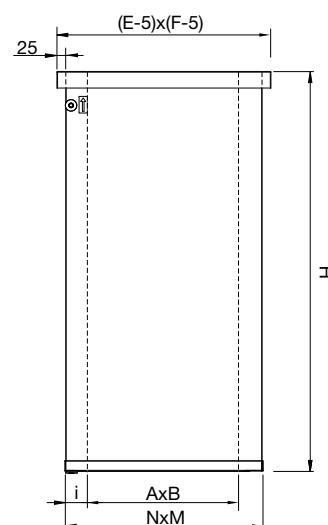
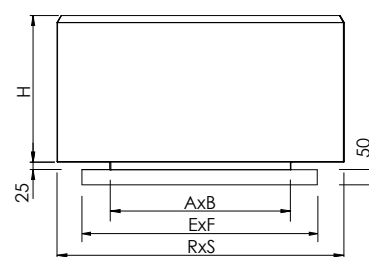
UVK roof hood with rain-plate and MKL roof transition with rain-plate collar (KL).

MKL with 50 mm insulation (H=1200 mm)

UVK Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL+KL Nominal size (NxM KL-ExF) (mm)	AxB (mm)	NxM (mm)
300x300	450x450	MKL 400x400 KL-450x450	300x300	395x395
400x400	550x550	MKL 500x500 KL-550x550	400x400	495x495
500x500	650x650	MKL 600x600 KL-650x650	500x500	595x595
600x600	750x750	MKL 700x700 KL-750x750	600x600	695x695
700x700	850x850	MKL 800x800 KL-850x850	700x700	795x795
800x800	950x950	MKL 900x900 KL-950x950	800x800	895x895
900x900	1050x1050	MKL 1000x1000 KL-1050x1050	900x900	995x995
1000x1000	1150x1150	MKL 1100x1100 KL-1150x1150	1000x1000	1095x1095
1100x1100	1250x1250	MKL 1200x1200 KL-1250x1250	1100x1100	1195x1195
1200x1200	1350x1350	MKL 1300x1300 KL-1350x1350	1200x1200	1295x1295
1300x1300	1450x1450	MKL 1400x1400 KL-1450x1450	1300x1300	1395x1395
1400x1400	1550x1550	MKL 1500x1500 KL-1550x1550	1400x1400	1495x1495

MKL with 100 mm insulation (H=1200 mm)

UVK Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL+KL Nominal size (NxM KL-ExF)(mm)	AxB (mm)	NxM (mm)
300x300	550x550	MKL 500x500 KL-550x550	300x300	495x495
400x400	650x650	MKL 600x600 KL-650x650	400x400	595x595
500x500	750x750	MKL 700x700 KL-750x750	500x500	695x695
600x600	850x850	MKL 800x800 KL-850x850	600x600	795x795
700x700	950x950	MKL 900x900 KL-950x950	700x700	895x895
800x800	1050x1050	MKL 1000x1000 KL-1050x1050	800x800	995x995
900x900	1150x1150	MKL 1100x1100 KL-1150x1150	900x900	1095x1095
1000x1000	1250x1250	MKL 1200x1200 KL-1250x1250	1000x1000	1195x1195
1100x1100	1350x1350	MKL 1300x1300 KL-1350x1350	1100x1100	1295x1295
1200x1200	1450x1450	MKL 1400x1400 KL-1450x1450	1200x1200	1395x1395
1300x1300	1550x1550	MKL 1500x1500 KL-1550x1550	1300x1300	1495x1495
1400x1400	1650x1650	MKL 1600x1600 KL-1650x1650	1400x1400	1595x1595



Installation opening =
(N+20)×(M+20) mm

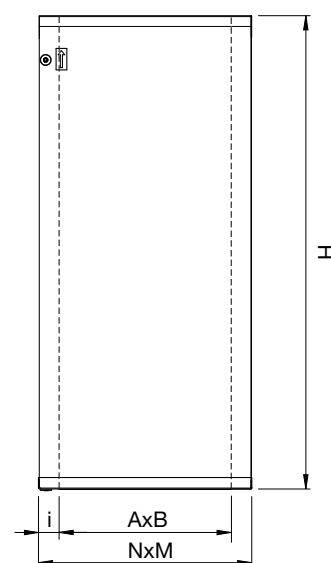
UVK roof hood with rain-plate and MKL roof transition.

MKL with 50 mm insulation (H=1200 mm)

UVK Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size NxM (mm)	AxB (mm)	NxM (mm)
300x300	400x400	MKL 400x400	300	395
400x400	500x500	MKL 500x500	400	495
500x500	600x600	MKL 600x600	500	595
600x600	700x700	MKL 700x700	600	695
700x700	800x800	MKL 800x800	700	795
800x800	900x900	MKL 900x900	800	895
900x900	1000x1000	MKL 1000x1000	900	995
1000x1000	1100x1100	MKL 1100x1100	1000	1095
1100x1100	1200x1200	MKL 1200x1200	1100	1195
1200x1200	1300x1300	MKL 1300x1300	1200	1295
1300x1300	1400x1400	MKL 1400x1400	1300	1395
1400x1400	1500x1500	MKL 1500x1500	1400	1495

MKL with 100 mm insulation (H=1200 mm)

UVK Nominal size AxB (mm)	Connection size ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size NxM (mm)	AxB (mm)	NxM (mm)
300x300	500x500	MKL 500x500	300	495
400x400	600x600	MKL 600x600	400	595
500x500	700x700	MKL 700x700	500	695
600x600	800x800	MKL 800x800	600	795
700x700	900x900	MKL 900x900	700	895
800x800	1000x1000	MKL 1000x1000	800	995
900x900	1100x1100	MKL 1100x1100	900	1095
1000x1000	1200x1200	MKL 1200x1200	1000	1195
1100x1100	1300x1300	MKL 1300x1300	1100	1295
1200x1200	1400x1400	MKL 1400x1400	1200	1395
1300x1300	1500x1500	MKL 1500x1500	1300	1495
1400x1400	1600x1600	MKL 1600x1600	1400	1595

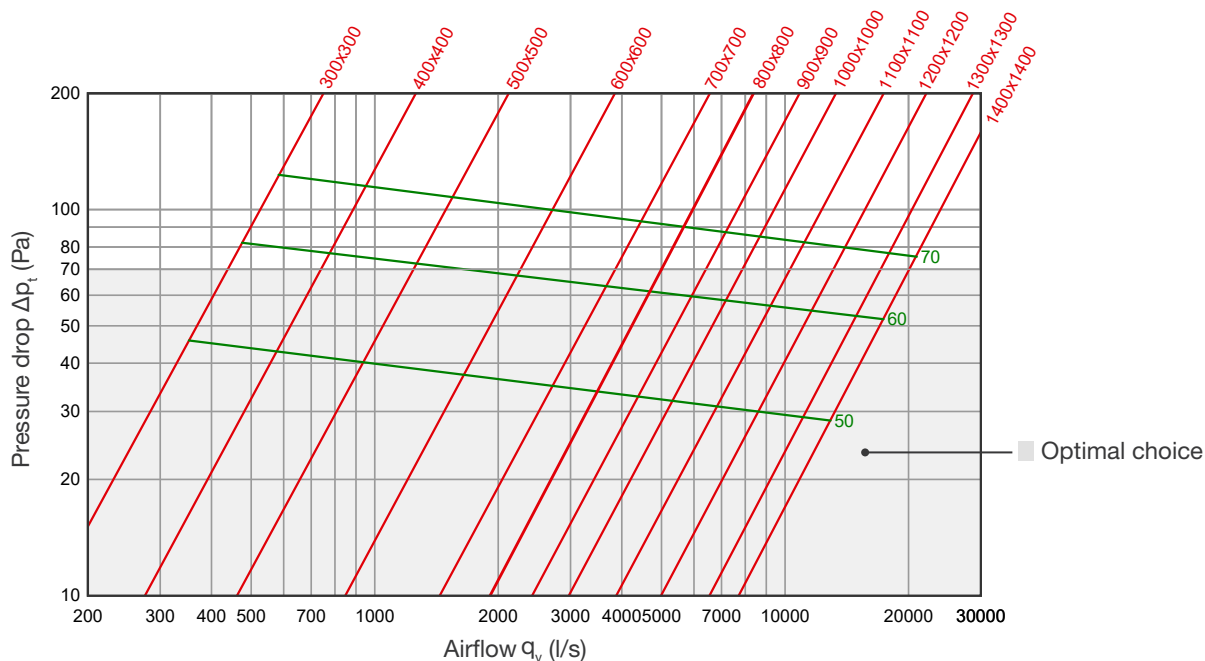

 Installation opening =
(N+20)×(M+20) mm

Technical Data

Recommended maximum pressure drop 70 Pa.

UVK is designed as special product to ensure higher air flows. For best result, when choosing a roof hood, air velocity in the duct should not exceed 15 m/s.

Pressure drop - Airflow - Extract air



Product Marking

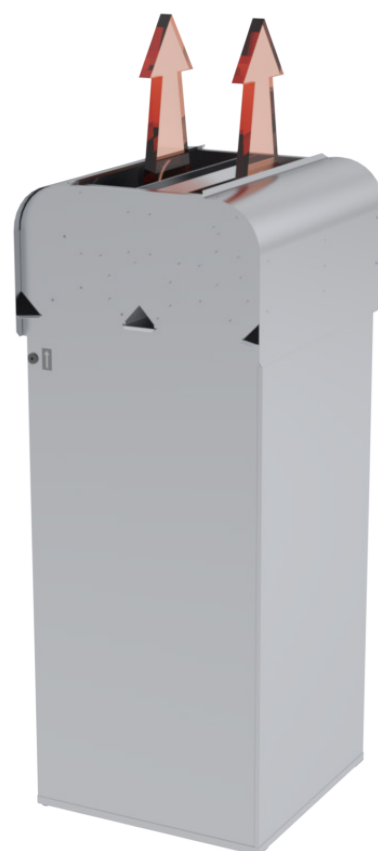
	UVK	-	H	AxB	-	KL-ExF	-	RAL XXX
Marking								
Material								
Size AxB								
Duct connection								
RAL								

Example: UVK 400x400 Roof hood
 UVK-H 400x400 Roof hood, AISI316
 UVK 400x400 KL-500x500-RAL7005 Roof hood (coated)

UVS Roof Hood

UVS is an exhaust air diffuser with rectangular connection. Diffuser structural heights have been reduced to minimum so that the diffuser blends in with roof and is unnoticeable. Designed and tested to withstand Nordic climate conditions.

- Innovative design
- Aesthetic, does not dominate architecture
- Good water resistance
- Long vertical exhaust pattern
- Strong structure
- Standard dimensions
- Low pressure drop
- Low sound level
- Magnelis® steel sheet, corrosivity category is C4
- Sustainable

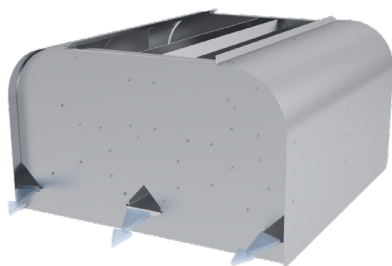


Application

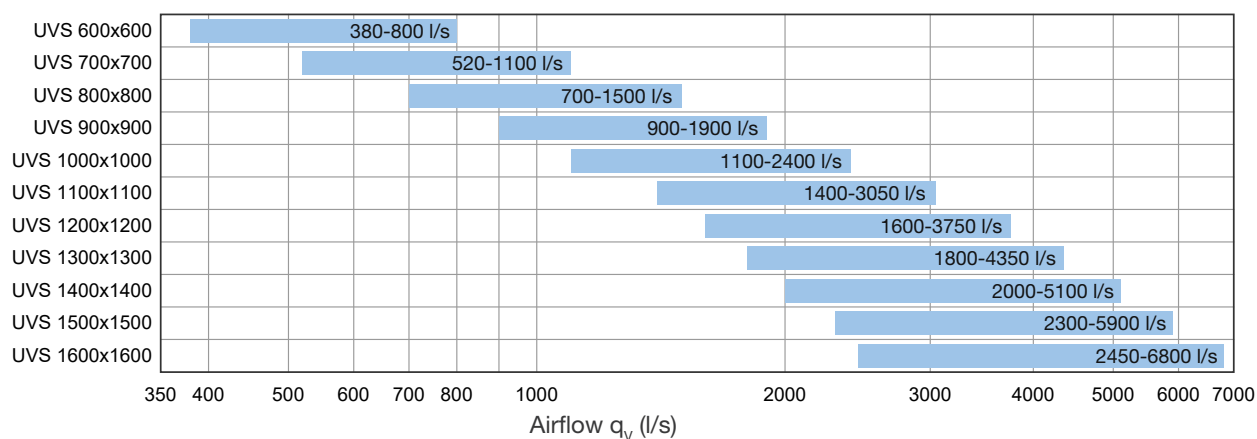
The UVS roof diffuser is designed to exhaust the air straight up at a high velocity.

UVS roof hood is innovative, as its dimensions are modest. It does not dominate architecture and can be used in places where visual aspect is important.

Design of the exhaust air diffuser efficiently prevents rainwater from entering the ventilation system. Rainwater is drained onto the roof from the sides of the unit.

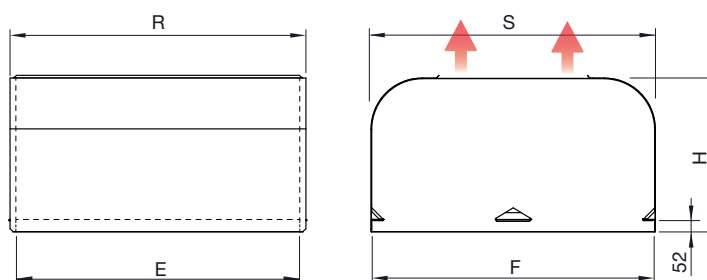


Quick Selection



Material and Dimensions

Manufactured of Magnelis® sheet steel (ZM310). In special order can also be manufactured of acidproof steel (AISI 316L) or in powder coated finish (RAL colorcard).



UVS roof hood for exhaust air

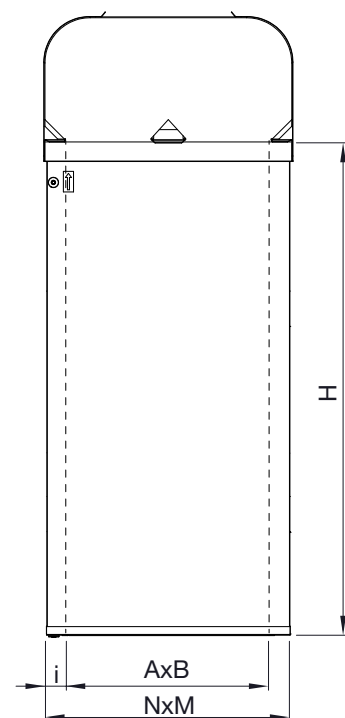
Nominal size ExF (mm)	ExF (mm)	R (mm)	S (mm)	H (mm)	Weight (kg)	Free area (m²)	Volume (m³)	Airflow (l/s)	
								Min	max
600×600	602	656	606	353	15	0,17	0,13	380	800
700×700	702	756	706	403	20	0,24	0,20	520	1100
800×800	802	856	806	453	25	0,31	0,29	700	1500
900×900	902	956	906	503	32	0,40	0,41	900	1900
1000×1000	1002	1056	1006	552	39	0,50	0,56	1100	2400
1100×1100	1102	1156	1106	601	46	0,61	0,73	1400	3050
1200×1200	1202	1256	1206	653	54	0,73	0,95	1600	3750
1300×1300	1302	1356	1306	701	66	0,86	1,19	1800	4350
1400×1400	1402	1456	1406	750	75	1,00	1,48	2000	5100
1500×1500	1502	1556	1506	800	85	1,16	1,81	2300	5900
1600×1600	1602	1656	1606	853	96	1,32	2,19	2450	6800

UVS roof hood for exhaust air for installation with MKL roof transition will provide the best possible combination for water resistance.

MKL-3 with 50 mm insulation (H=1200).

UVS Nominal size ExF (mm)	MKL Nominal size (N×M)	N×M (mm)	A×B (mm)	MKL-3 weight (kg)
600×600	600×600	595×595	500×500	34
700×700	700×700	695×695	600×600	39
800×800	800×800	795×795	700×700	50
900×900	900×900	895×895	800×800	62
1000×1000	1000×1000	995×995	900×900	65
1100×1100	1100×1100	1095×1095	1000×1000	73
1200×1200	1200×1200	1195×1195	1100×1100	78
1300×1300	1300×1300	1295×1295	1200×1200	83
1400×1400	1400×1400	1395×1395	1300×1300	88
1500×1500	1500×1500	1495×1495	1400×1400	111
1600×1600	1600×1600	1595×1595	1500×1500	121

For more information about MKL roof transition and different insulation possibilities please check MKL datasheet.



Installation opening
= (N+20)×(M+20) mm

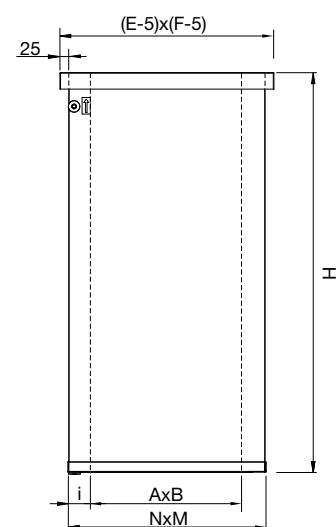
UVS roof hood with rain-plate and MKL roof transition with rain-plate collar (KL).

MKL with 50 mm insulation.

UVS Nominal size ExF (mm)	MKL (i=50 mm)		
	MKL+KL Nominal size (N×M KL-ExF) (mm)	AxB (mm)	N×M (mm)
600x600	MKL 550x550 KL-600x600	450x450	550x550
700x700	MKL 650x650 KL-700x700	550x550	650x650
800x800	MKL 750x750 KL-800x800	650x650	750x750
900x900	MKL 850x850 KL-900x900	750x750	850x850
1000x1000	MKL 950x950 KL-1000x1000	850x850	950x950
1100x1100	MKL 1050x1050 KL-1100x1100	950x950	1050x1050
1200x1200	MKL 1150x1150 KL-1200x1200	1050x1050	1150x1150
1300x1300	MKL 1250x1250 KL-1300x1300	1150x1150	1250x1250
1400x1400	MKL 1350x1350 KL-1400x1400	1250x1250	1350x1350
1500x1500	MKL 1450x1450 KL-1500x1500	1350x1350	1450x1450
1600x1600	MKL 1550x1550 KL-1600x1600	1450x1450	1550x1550

MKL with 100 mm insulation.

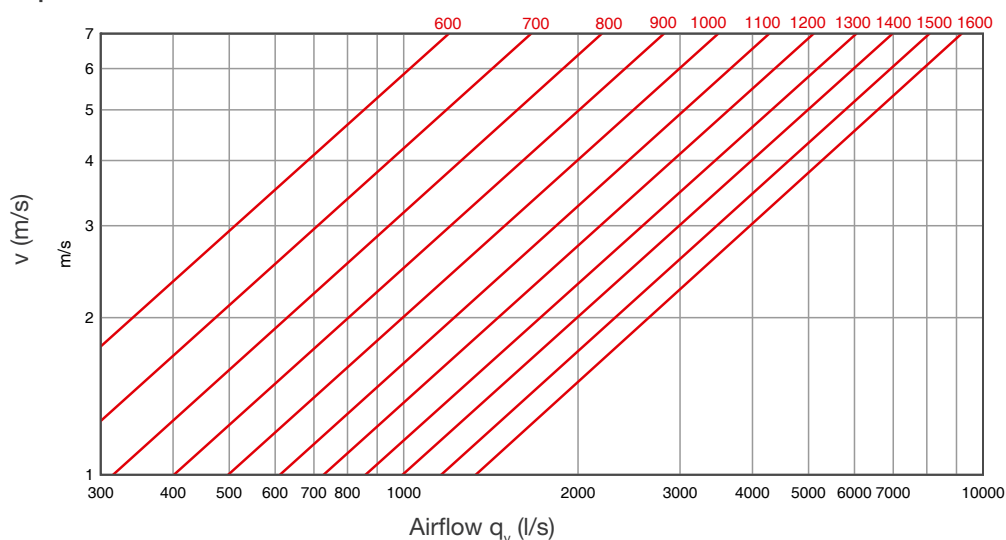
UVS Nominal size ExF (mm)	MKL (i=100 mm)		
	MKL+KL Nominal size (N×M KL-ExF)(mm)	AxB (mm)	N×M (mm)
600x600	MKL 550x550 KL-600x600	350x350	550x550
700x700	MKL 650x650 KL-700x700	450x450	650x650
800x800	MKL 750x750 KL-800x800	550x550	750x750
900x900	MKL 850x850 KL-900x900	650x650	850x850
1000x1000	MKL 950x950 KL-1000x1000	750x750	950x950
1100x1100	MKL 1050x1050 KL-1100x1100	850x850	1050x1050
1200x1200	MKL 1150x1150 KL-1200x1200	950x950	1150x1150
1300x1300	MKL 1250x1250 KL-1300x1300	1050x1050	1250x1250
1400x1400	MKL 1350x1350 KL-1400x1400	1150x1150	1350x1350
1500x1500	MKL 1450x1450 KL-1500x1500	1250x1250	1450x1450
1600x1600	MKL 1550x1550 KL-1600x1600	1350x1350	1550x1550



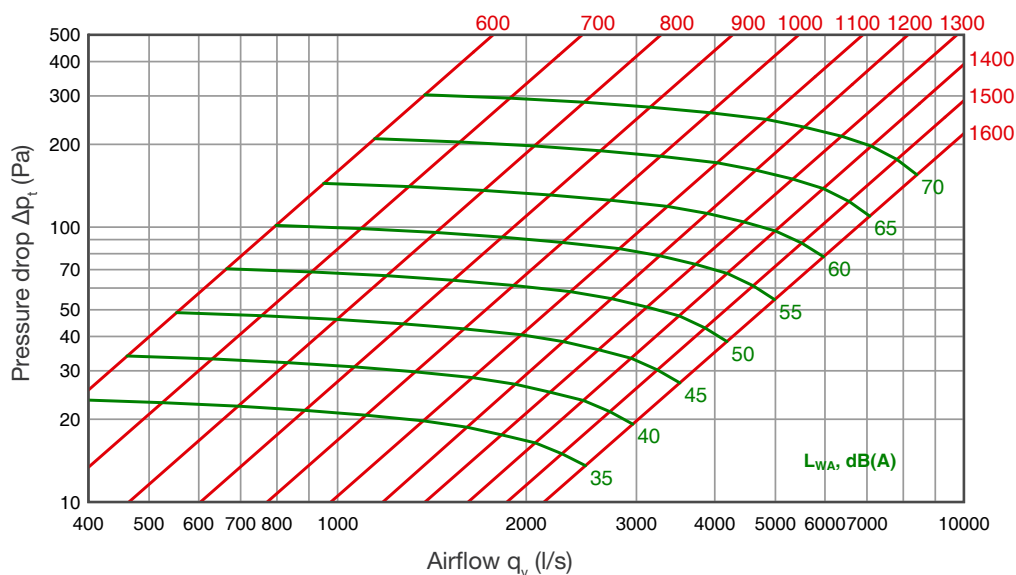
Installation opening =
(N+20)×(M+20) mm

Technical Data

Exhaust air speed



Pressure drop - Airflow - Exhaust air

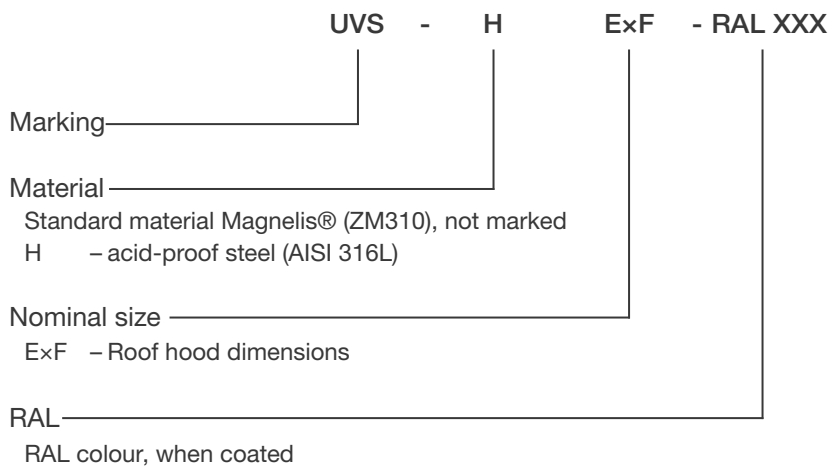


Rain water effectiveness

Airflow		Rain water flow rates			Performance	
q_v (m ³ /s)	v (m/s)	q_s (l/h/m ²)	q_{do} (l/h)	q_d (l/h)	E (%)	Class
0	0	75	13,53	0,18	98,7	B
0,32	0,5	75	12,44	0,06	99,5	A
0,64	1,0	75	11,27	0,00	100,0	A
0,96	1,5	75	10,12	0,00	100,0	A
1,28	2,0	75	8,78	0,00	100,0	A
1,92	3,0	75	6,53	0,00	100,0	A

- q_v - Air flow rate, m³/s
- v - Core velocity, m/s
- q_s - Rainfall rate, l/h/m²
- q_{do} - Rain water flow penetrating the core area, l/h
- q_d - Rain water flow penetrating the device, l/h
- E - Effectiveness, %

Product Marking



Example: UVS 800x800 Roof hood
 UVS 800x800-RAL 7000 Roof hood
 UVS-H 800x800 Roof hood (AISI 316L)

UHC Combi Hood



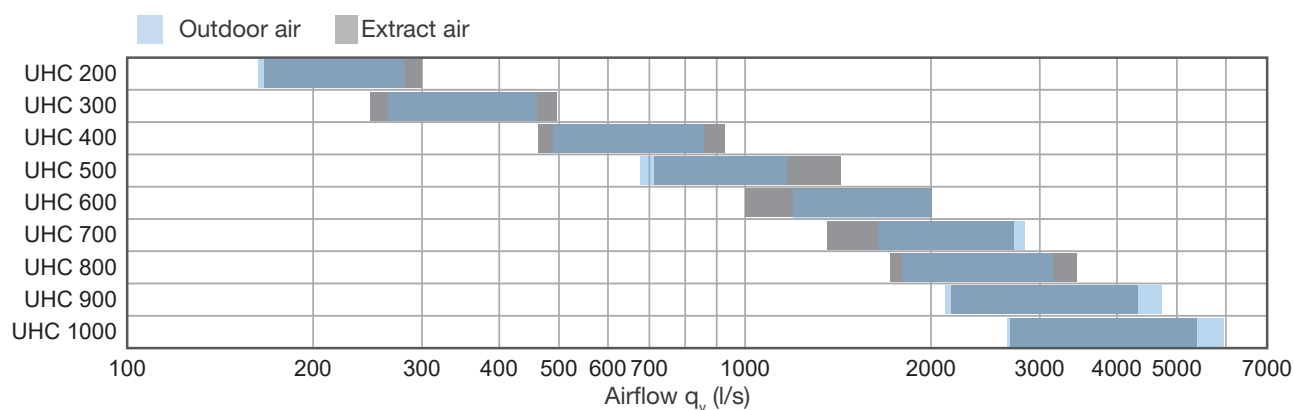
MagiCAD

AUTODESK
REVIT

UHC roof hood is an uniquely designed combi hood for air intake and exhaust.

- Sizes 200-1000 airflow 160-6000 l/s
- UHC is manufactured of Magnelis® sheet steel, that has high corrosion resistance
- Minimal risk of mixing supply and exhaust air
- High exhaust air speed that ensures smooth and long throw length
- Strong construction
- Low pressure drop
- Low noise level

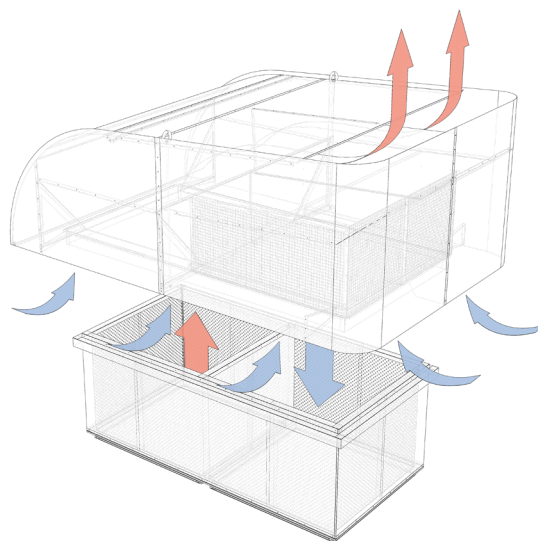
Quick Selection



Application

UHC is a roof hood that combines fresh air intake and exhaust air blowout. The exhaust section directs the air straight up. This ensures that odours and dirt in exhaust air will not fall around the unit. Fresh outdoor air intake is under the edge. Design of the unit efficiently prevents rainwater entering the air duct. Rainwater is drained onto the roof.

The UHC has a prefabricated roof transition (UHCT) that can be used.



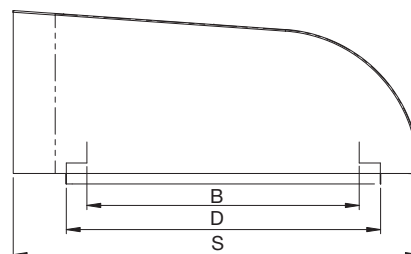
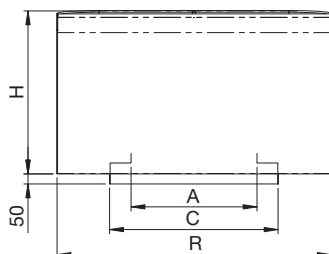
Material and Dimensions

UHC is manufactured of Magnelis® sheet steel (ZM310). It can be manufactured of other materials and with coated finish.

As standard the roof hood is designed for installation with a roof transition UHCT.

For the lifting there is lifting brackets.

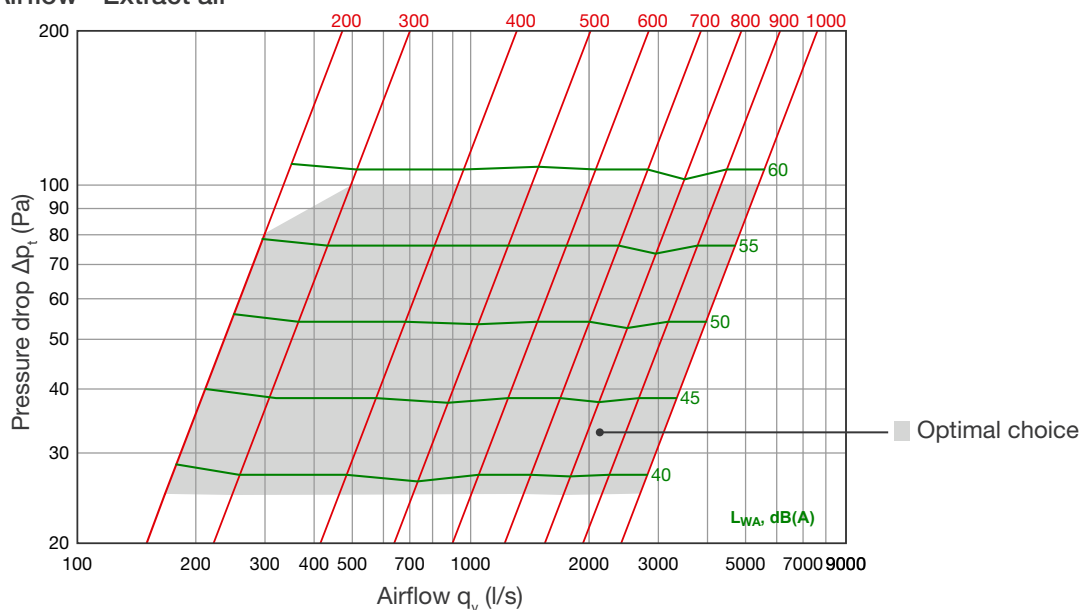
Nominal size A (mm)	Free area	
	Outdoor air (m²)	Extract air (m²)
200	0,128	0,030
300	0,171	0,050
400	0,286	0,100
500	0,398	0,141
600	0,580	0,220
700	0,735	0,302
800	0,825	0,389
900	1,003	0,462
1000	1,200	0,578



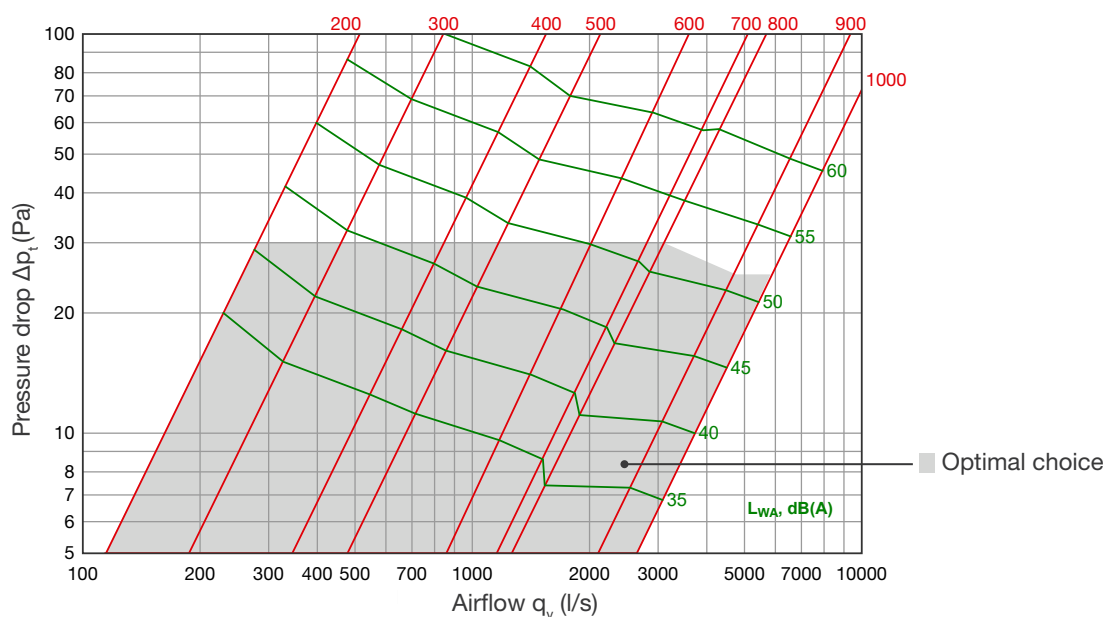
Nominal size A (mm)	C (mm)	D (mm)	A (mm)	B (mm)	R (mm)	S (mm)	H (mm)	Min/max. airflow (l/s)		UHCT (50 mm insul.)	Weight (kg)
								Outdoor air	Extract air		
200	400	700	200	500	706	992	425	160/280	150/290	UHCT 200	33
300	500	900	300	700	806	1192	510	270/460	270/460	UHCT 300	44
400	600	1100	400	900	1006	1455	595	490/850	490/850	UHCT 400	60
500	700	1300	500	1100	1156	1690	680	690/1200	690/1250	UHCT 500	79
600	800	1500	600	1300	1306	1936	775	1250/2000	1250/2000	UHCT 600	104
700	900	1700	700	1500	1456	2160	850	1700/2850	1700/2850	UHCT 700	121
800	1000	1900	800	1700	1556	2370	970	1850/3100	1850/3100	UHCT 800	154
900	1100	2100	900	1900	1706	2600	1015	2100/4800	3000/4800	UHCT 900	180
1000	1200	2300	1000	2100	1856	2840	1120	2650/6000	3800/6000	UHCT 1000	208

Technical Data

Pressure drop - Airflow - Extract air



Pressure drop - Airflow - Outdoor air



Extract Air

Sound power level $L_{W,okt}$ in octave band $L_W = L_{WA} + K_{okt}$

Product	Sound level correction factor K_{okt} (dB)							
	Mean frequency of octave band (Hz)							
	63	125	250	500	1k	2k	4k	8k
UHC 200	1	5	3	-1	-7	-15	-24	-31
UHC 300	3	6	3	-1	-7	-15	-24	-31
UHC 400	6	6	4	-2	-7	-16	-24	-30
UHC 500	9	7	4	-2	-8	-16	-24	-30
UHC 600	10	7	4	-2	-8	-16	-25	-30
UHC 700	11	8	5	-3	-8	-16	-26	-31
UHC 800	13	8	5	-3	-9	-17	-27	-32
UHC 900	14	8	5	-3	-9	-17	-28	-32
UHC 1000	15	9	6	-4	-10	-18	-29	-33

Sound attenuation - Extract air

Product	Sound attenuation D_{okt} (dB)							
	63	125	250	500	1k	2k	4k	8k
UHC 200	18	16	18	29	28	22	18	13
UHC 300	14	13	16	25	25	19	16	13
UHC 400	10	11	14	22	22	16	14	14
UHC 500	7	9	12	20	19	14	13	14
UHC 600	7	9	12	18	17	12	12	13
UHC 700	8	8	11	16	14	10	10	11
UHC 800	9	7	10	14	11	9	8	9
UHC 900	9	7	10	12	10	8	6	8
UHC 1000	10	6	9	10	9	6	5	7

Outdoor Air

Sound power level $L_{W,\text{okt}}$ in octave band $L_W = L_{W,A} + K_{\text{okt}}$

Product	Sound level correction factor K_{okt} (dB)							
	Mean frequency of octave band (Hz)							
	63	125	250	500	1k	2k	4k	8k
UHC 200	3	6	2	-1	-8	-11	-16	-22
UHC 300	4	4	1	-1	-6	-11	-17	-24
UHC 400	6	3	-1	-2	-5	-10	-18	-26
UHC 500	7	2	-1	-3	-4	-10	-19	-28
UHC 600	9	3	1	-3	-5	-11	-21	-29
UHC 700	12	6	3	-3	-7	-13	-24	-30
UHC 800	14	9	4	-3	-8	-15	-26	-32
UHC 900	16	12	5	-3	-9	-16	-28	-33
UHC 1000	18	13	6	-4	-10	-17	-30	-34

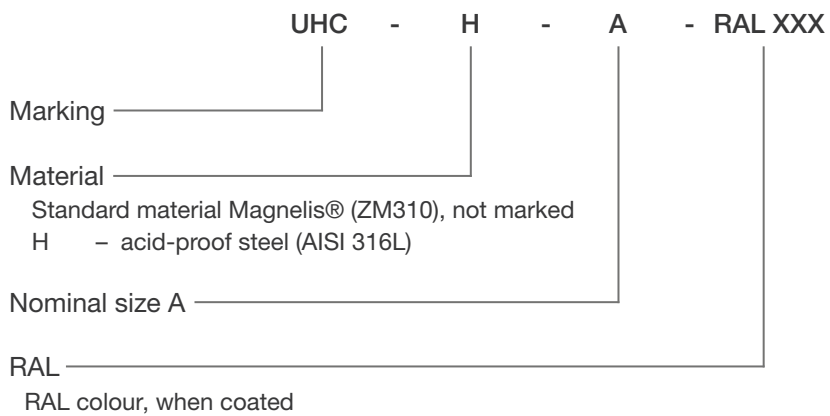
Sound attenuation - Outdoor air

Product	Sound attenuation D_{okt} (dB)							
	63	125	250	500	1k	2k	4k	8k
UHC 200	20	17	17	26	28	21	18	13
UHC 300	15	14	15	24	24	19	16	13
UHC 400	12	10	13	22	21	17	14	14
UHC 500	10	8	10	19	19	15	13	14
UHC 600	10	8	9	17	17	12	11	12
UHC 700	9	7	8	15	15	10	10	10
UHC 800	9	6	8	12	12	8	8	8
UHC 900	9	6	8	11	10	7	7	8
UHC 1000	8	5	7	10	8	6	6	7

Reduction in sound pressure level depending on distance from roof hood calculated on half-spherical propagation.

Distance, m	5	25	50	75	100	150
Reduction, L_W dB(A)	-25	-39	-45	-48	-51	-54

Product Marking



Example: UHC 400 Roof hood
 UHC-H 400 Roof hood, AISI 316
 UHC 400 RAL 7000 Roof hood

UHCT Roof Transition

Roof transition for UHC combi hood.

UHCT is easily adapted for required roof incline by angle brackets.

- Manufactured of Magnelis®, zinc-magnesium coated steel sheet
- Can be ordered made of special materials
- As standard, inner shell made of absorption material Cleantec® mineral wool with washable surface layer
- Standard height 1200 mm



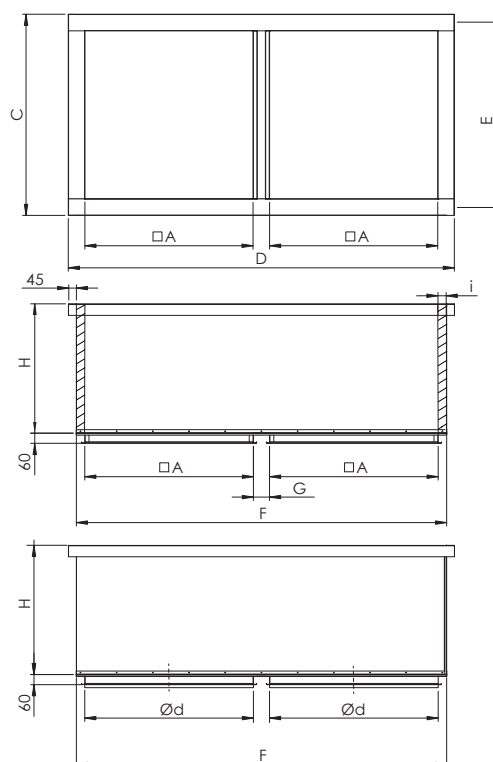
Material and Dimensions

As standard manufactured of Magnelis®, zinc-magnesium coated sheet steel (ZM310) and insulated with 50 mm mineral wool with washable surface layer (Cleantec®), without inner shell.

Possible to produce with 100 mm fire insulation mineral wool (compliance to EI60-EI 120 class) and non-perforated sheet steel inner shell. Used fire insulation meets the testing methods requirements according to EN1366-1 and is VTT certified. Fire insulation strengths in accordance with EN-13501-1.

Standard height 1200 mm (also 800, 1000, 1500 mm). For installation through sloping roofs the roof transition comes as standard with two installation brackets (100x100x1,2 L=E+400).

The roof transition is delivered as standard with E20 profile (for connection with a rectangular duct).



UHCT Nominal size A (mm)	Insulation i=50 mm		Insulation i=100 mm		C (mm)	D (mm)	E (mm)	F (mm)	Weight (i=50 mm) (kg)
	A (mm)	G (mm)	A (mm)	G (mm)					
200	200	95	-	-	390	690	300	600	42
300	300	95	200	195	490	890	400	800	55
400	400	95	300	195	590	1090	500	1000	67
500	500	95	400	195	690	1290	600	1200	79
600	600	95	500	195	790	1490	700	1400	92
700	700	95	600	195	890	1690	800	1600	106
800	800	95	700	195	990	1890	900	1800	117
900	900	95	800	195	1090	2090	1000	2000	129
1000	1000	95	900	195	1190	2290	1100	2200	152

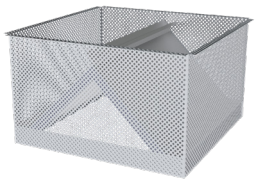
Product Marking

UHCT - 1 - 50 - H A - H - D=X

Marking _____ Inner shell _____ 1 - perforated sheet steel 2 - sheet steel 3 - Cleantec (as standard) Insulation _____ 50 - mineral wool 50 mm EI120 - fire insulation, 100 mm External material _____ Standard material Magnelis® (ZM310), not marked H - acid-proof steel (AISI 316L) Nominal size A _____ Height H _____ Standard height 1200 mm (800, 1000, 1500 mm) Lower connection _____ Diameter D - Connection for round duct Size A - Connection for rectangular duct (standard connection profile E20)	
--	--

Example: **UHCT-1-50 400-1000**
 UHCT-2-100 600-800

Accessories

	Nominal size	AxB	H	Weight
	AxB (mm)	(mm)	(mm)	(kg)
	200×200	190×190	150	1,3
	300×300	290×290	225	2,6
	400×400	390×390	290	4,2
	500×500	490×490	355	5,6
	600×600	590×590	430	8,5
	700×700	690×690	500	11,1
	800×800	790×790	565	14,1
	900×900	890×890	640	17,6
	1000×1000	990×990	700	21,5
	1100×1100	1090×1090	785	25,6
	1200×1200	1190×1190	850	30,1
	1300×1300	1290×1290	920	34,9
	1400×1400	1390×1390	990	40,1
	1500×1500	1490×1490	1065	45,8
	1600×1600	1590×1590	1135	51,8

MKL Roof Transition

The MKL roof transition is designed for installation with roof hoods, air intake devices and with roof fan. For connecting with roof fan, the MKL is also equipped with an electrical cable conduit. The MKL roof transition can be easily installed in the roof structure by the angle brackets. Factory-made roof transition with suitable roof product ensure the best waterproof and safe solution.

- 15 standard sizes: 300x300 up to 1600x1600 mm.
- Magnelis® sheet steel, corrosivity category is C4.
- Standard height 1200 mm.
- Can be ordered with EI120 fire insulation.
- On special order, we manufacture special dimensions and from special materials including painted.



Material and Dimensions

As standard manufactured of Magnelis® sheet steel (ZM310) and insulated with 50 mm mineral wool.

Inner shell types:

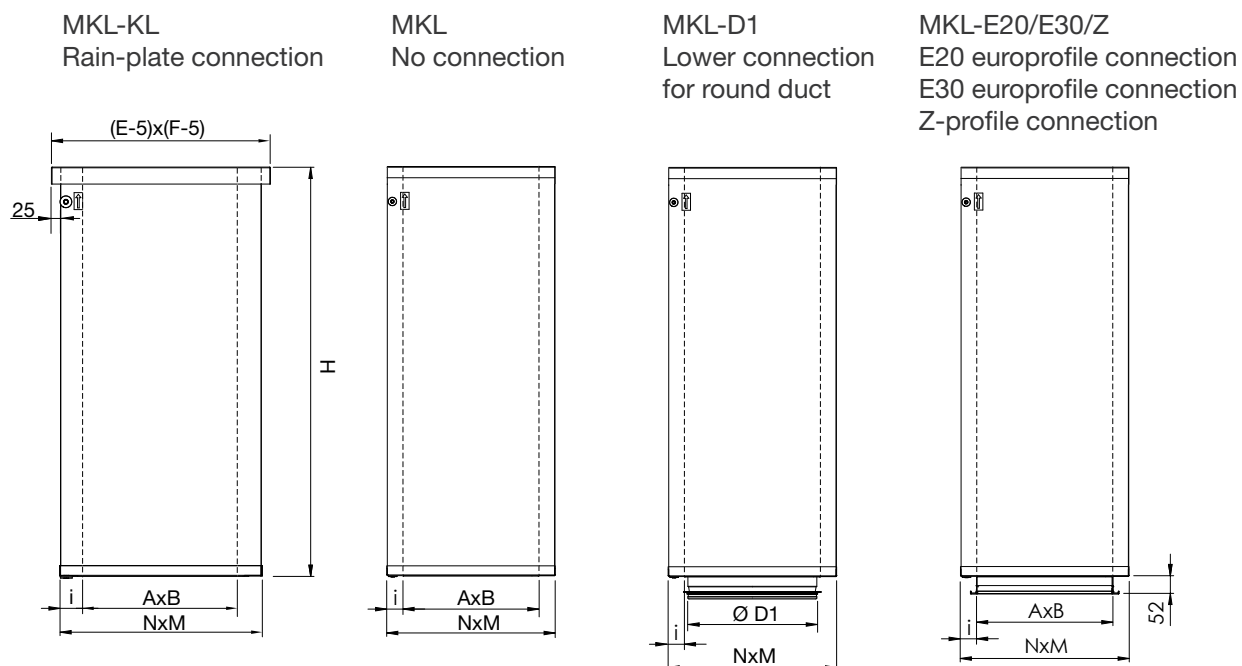
MKL-1 – perforated sheet steel.

MKL-2 – non-perforated sheet steel.

MKL-3 – mineral wool (Cleantec), without inner shell.

- Possible to produce with 50 mm fire insulation (compliance to EI30 class) and 100 mm fire insulation mineral wool (compliance up to EI120 class) and non-perforated sheet steel inner shell. Used fire insulation meets the testing methods requirements according to EN1366-1 and is VTT certified. Fire insulation strengths in accordance with EN-13501-1.
- Standard height 1200 mm. Other heights can be ordered (800-2000 mm).
- As standard, the roof transition is equipped with cable conduit for electric cable installation. The cable drawn in through the bottom of the roof transition and exit 100 mm from the top edge.
- For installation through sloping roofs the roof transition comes as standard with two installation brackets (100x100x1,2 L=A+400).
- As an accessory, a non-return damper and a fitting for rectangular or round duct/roof hood connection.

Dimensions



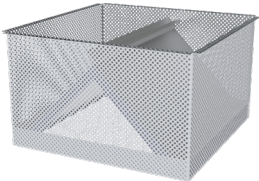
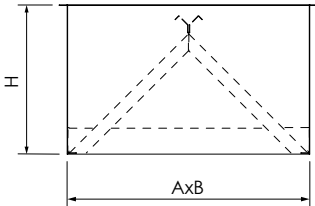
Nominal size NxM (mm)	NxM (mm)	KL-ExF (mm)	AxB (mm)		MKL-3 weight (kg)	
			i=50 (mm)	i=100 (mm)	i=50 mm	i=100 mm
300x300	295x295	350x350	192x192	-	20	24
400x400	395x395	450x450	292x292	192x192	24	30
500x500	495x495	550x550	392x392	292x292	29	36
600x600	595x595	650x650	492x492	392x392	34	43
700x700	695x695	750x750	592x592	492x492	39	49
750x750	745x745	800x800	642x642	542x542	48	59
800x800	795x795	850x850	692x692	592x592	50	62
900x900	895x895	950x950	792x792	692x692	62	75
1000x1000	995x995	1050x1050	892x892	792x792	65	80
1100x1100	1095x1095	1150x1150	992x992	892x892	73	90
1200x1200	1195x1195	1250x1250	1092x1092	992x992	78	96
1300x1300	1295x1295	1350x1350	1192x1192	1092x1092	83	103
1400x1400	1395x1395	1450x1450	1292x1292	1192x1192	88	109
1500x1500	1495x1495	1550x1550	1392x1392	1292x1292	111	134
1600x1600	1595x1595	1650x1650	1492x1492	1392x1392	121	146

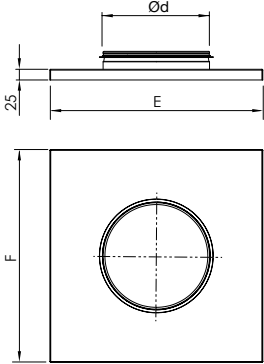
Product Marking

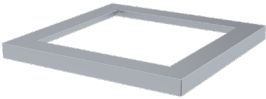
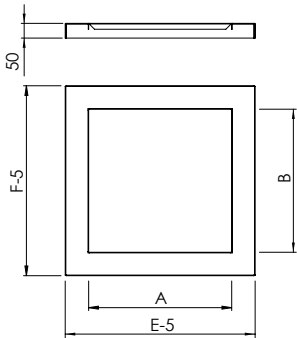
	MKL	-	1	-	50	-	H	N×M	-	H	KL-ExF	/	Z
Marking													
Inner shell													
1													
2													
3													
Insulation													
50													
100													
EI30													
EI120													
Material (external + internal)													
Standard material Magnelis® (ZM310), not marked													
H													
Nominal size N×M													
Height H													
800-2000 mm, step 100 mm													
Upper connection													
D2													
Z													
E30													
KL-ExF													
Lower connection													
D1													
Z													
E20, E30													
V													

Example: **MKL-1-50-H 400×400-1200 KL-450x450/Z**
MKL-2-50 600×600-1200 -/-
MKL-2-EI120 400×400-1200 -/-
MKL-3-50 600×600-1200 E30/E30

Accessories

MKLK AxB Non-return damper (top-mounted) Example: MKLK 400x400	Nominal size AxB (mm)	AxB (mm)	H (mm)	Weight (kg)
	200x200	190x190	150	1,3
	300x300	290x290	225	2,6
	400x400	390x390	290	4,2
	500x500	490x490	355	5,6
	600x600	590x590	430	8,5
	700x700	690x690	500	11,1
	800x800	790x790	565	14,1
	900x900	890x890	640	17,6
	1000x1000	990x990	700	21,5
	1100x1100	1090x1090	785	25,6
	1200x1200	1190x1190	850	30,1
	1300x1300	1290x1290	920	34,9
	1400x1400	1390x1390	990	40,1
	1500x1500	1490x1490	1065	45,8
	1600x1600	1590x1590	1135	51,8

MKLV ExF/d Round coupling with rain-plate Example: MKLV 400x400/200	ExF (mm)	d (mm)	Weight (kg)
	400x400	100, 125, 160, 200	1,2
	450x450	100, 125, 160, 200	1,7
	500x500	250, 315	1,8
	550x550	250, 315	2,7
	600x600	315, 400	3
	650x650	315, 400	4,1
	700x700	400, 500	3,6
	750x750	400, 500	4,8
	800x800	500, 630	4,9
	850x850	500, 630	6,3
	900x900	500, 630	5,7
	950x950	500, 630	7,2
	1000x1000	630, 800	6,3
	1050x1050	630, 800	8
	1100x1100	800	8
	1150x1150	800	9,9
	1200x1200	1000	8,9
	1250x1250	1000	10,9
	1300x1300	1000	10,9
	1350x1350	1000	13,1
	1400x1400	1250	10,2
	1450x1450	1250	12,5
	1500x1500	1250	12,6
	1550x1550	1250	15,1
	1600x1600	1250	15,1
	1650x1650	1250	17,7
	1700x1700	1250, 1600	17,8
	1750x1750	1250, 1600	20,6
	1800x1800	1250, 1600	14,9
	1850x1850	1250, 1600	17,9

MKLF AxB-ExF MKLF rain-plate collar Example: MKLF 500x500-650x650	Nominal size AxB-ExF (mm)	AxB (mm)	ExF (mm)	Weight (kg)
 	200×200-350×350	190×190	350×350	1,5
	300×300-450×450	290×290	450×450	2,1
	400×400-550×550	390×390	550×550	2,6
	500×500-650×650	490×490	650×650	3,2
	600×600-750×750	590×590	750×750	3,7
	700×700-850×850	690×690	850×850	4,3
	800×800-950×950	790×790	950×950	4,8
	900×900-1050×1050	890×890	1050×1050	5,4
	1000×1000-1150×1150	990×990	1150×1150	5,9
	1100×1100-1250×1250	1090×1090	1250×1250	6,5
	1200×1200-1350×1350	1190×1190	1350×1350	7,0
	1300×1300-1450×1450	1290×1290	1450×1450	7,6
	1400×1400-1550×1550	1390×1390	1550×1550	8,1
	1500×1500-1650×1650	1490×1490	1650×1650	8,7
	1600×1600-1750×1750	1590×1590	1750×1750	9,2

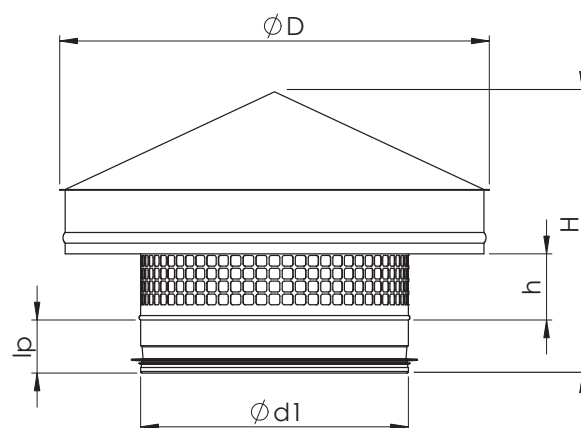
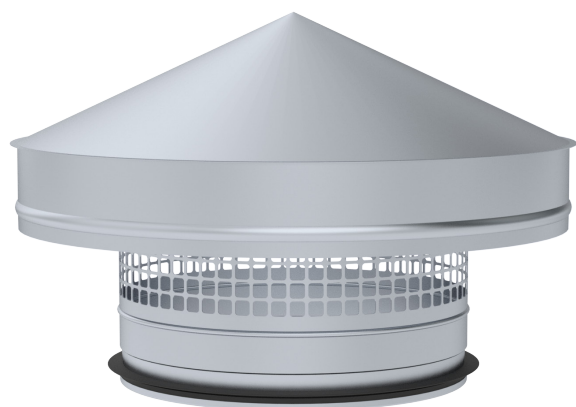
NTH Rain Hood

Rain hood for ventilation systems.

Structure and Dimensions

Manufactured of galvanized steel sheet. Round duct connection with rubber gasket. Can also be manufactured of other materials and in coated finish.

Nominal size d (mm)	d (mm)	h (mm)	H (mm)	Weight (kg)
100	200	25	135	0,4
125	225	30	155	0,5
160	260	40	175	0,7
200	320	50	210	0,8
250	400	70	265	1,5
315	475	130	305	2,5
400	580	130	375	3,2



Product Marking

	NTH	-	ZM	-	d	-	RAL
Marking							
Material							
Nominal size d							
RAL							

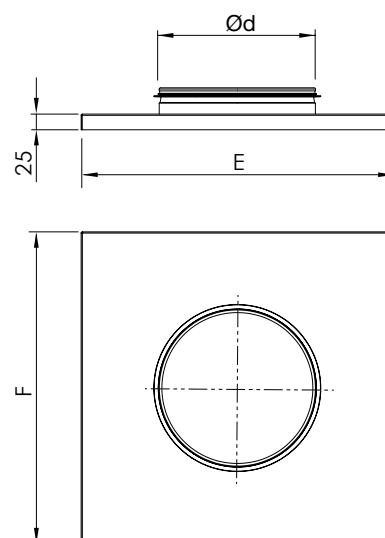
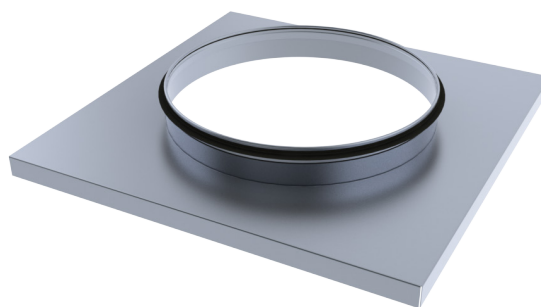
Example: NTH 315

MKLV Round Coupling with Rain-Plate

MKLV is a round coupling for connecting a roof transition with a roof hood.

The edge of the fitting is bent down 25 mm.

The MKLV fitting is manufactured of Magnelis® (zinc-magnesium coated steel sheet, ZM310) as standard and round connection is equipped with EPDM seal.



Nominal size ExF/d (mm)	d (mm)	E/F (mm)	Weight (kg)
400×400/100	100	400	1,2
400×400/100	125	400	1,2
400×400/100	160	400	1,2
400×400/100	200	400	1,2
500×500/250	250	500	1,8
600×600/315	315	600	3,0
600×600/400	400	600	3,0
700×700/400	400	700	3,6
800×800/500	500	800	4,9
900×900/630	630	900	5,7
1000×1000/800	800	1000	6,3
1100×1100/800	800	1100	8,0
1200×1200/1000	1000	1200	8,9
1300×1300/1000	1000	1300	10,9
1400×1400/1250	1250	1400	10,2
1500×1500/1250	1250	1500	12,6
1600×1600/1250	1250	1600	13,5
1700×1700/1250	1250	1700	14,2
1800×1800/1600	1600	1800	14,9

Product Marking

	MKLV	-	Zn	-	ExF	-	d	-	RAL
Marking									
Material									
	Standard material Magnelis® (ZM310), not marked								
	Zn – galvanized steel sheet (Z275)								
	H – acid-proof steel sheet (AISI 316L)								
Dimension ExF									
Diameter d									
RAL									
	RAL colour, when coated								

Example: MKLV 500×500/315

MKLU Rectangular Coupling for Round Duct

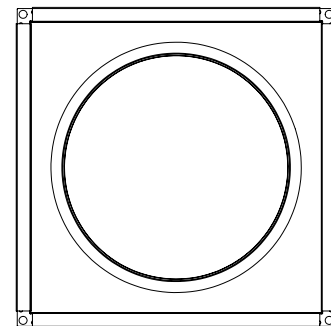
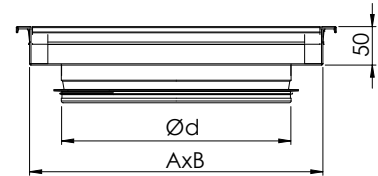
MKLU is a rectangular coupling for connecting a MKL roof transition with a round duct.

The coupling is equipped with an E20 profile for connection to the MKL roof transition.

The MKLU is manufactured of galvanized steel sheet (Z275) as standard and the round duct fitting is equipped with an EPDM seal.



Nominal size AxB/d (mm)	A (mm)	B (mm)	d (mm)	Weight (kg)
200×200/100	200	200	100	1,0
200×200/125	200	200	125	1,0
200×200/160	200	200	160	1,0
300×300/200	300	300	200	1,6
300×300/250	300	300	250	1,6
400×400/315	400	400	315	2,3
400×400/400	400	400	400	2,3
500×500/500	500	500	500	3,1
600×600/500	600	600	500	3,8
700×700/630	700	700	630	4,6
800×800/800	800	800	800	5,4
900×900/800	900	900	800	6,1
1000×1000/1000	1000	1000	1000	7,1
1100×1100/1000	1100	1100	1000	8,6
1200×1200/1000	1200	1200	1000	10,2
1300×1300/1250	1300	1300	1250	10,0
1400×1400/1250	1400	1400	1250	11,8
1500×1500/1250	1500	1500	1250	13,7
1600×1600/1250	1600	1600	1250	12,0



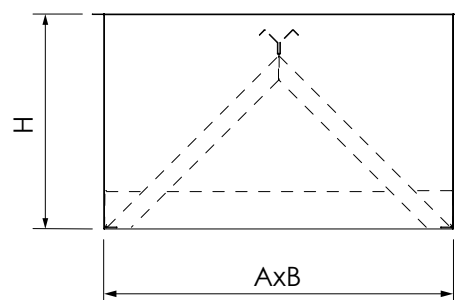
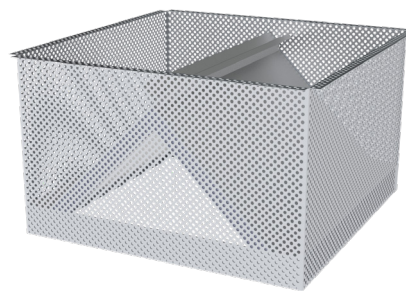
Product Marking

	MKLU	ZM	-	AxB	-	d	-	RAL XXX
Marking	_____							
Material	_____							
	Standard material galvanized steel sheet (Z275), not marked							
	ZM – Magnelis, zinc-magnesium coated steel sheet (ZM310)							
	H – acid-proof steel sheet (AISI 316L)							
Dimension AxB	_____							
Diameter d	_____							
RAL	_____							
	RAL colour, when coated							

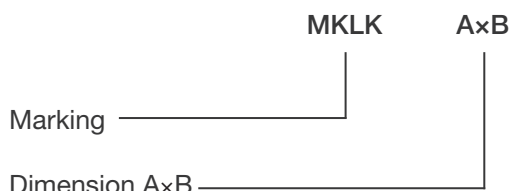
Example: MKLU 400×400-315

MKLK Non-Return Damper

Nominal size AxB (mm)	A (mm)	B (mm)	H (mm)	Weight (kg)
200×200	190	190	150	1,3
300×300	290	290	225	2,6
400×400	390	390	290	4,2
500×500	490	490	355	5,6
600×600	590	590	430	8,5
700×700	690	690	500	11,1
800×800	790	790	565	14,1
900×900	890	890	640	17,6
1000×1000	990	990	700	21,5
1100×1100	1090	1090	785	25,6
1200×1200	1190	1190	850	30,1
1300×1300	1290	1290	920	34,9
1400×1400	1390	1390	990	40,1
1500×1500	1490	1490	1065	45,8
1600×1600	1590	1590	1135	51,8

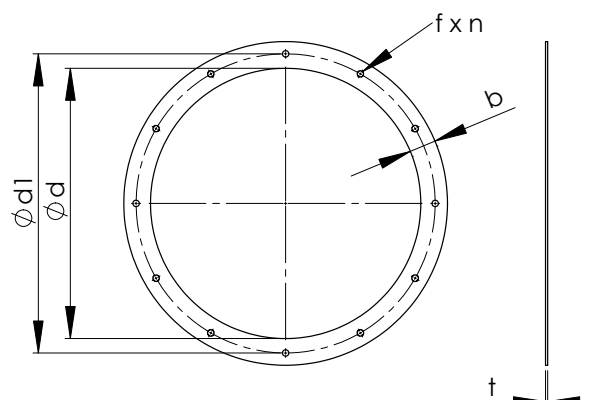
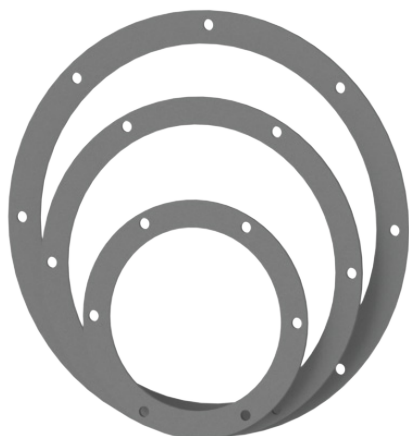


Product Marking



Example: MKLK 600×600

VRL Flange



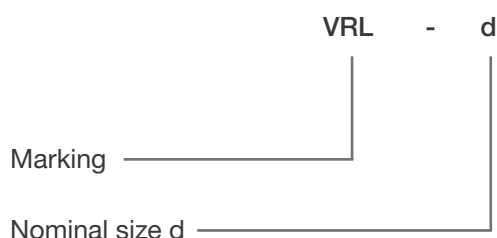
Round flange manufactured of galvanized flat iron for connecting ducts and parts.
Manufactured according to Eurovent 1/2 requirements.

Measurements

Nominal size (mm)	Ød (mm)	Ød ₁ , ±0,5 (mm)	Hole size f ±0,5 (mm)	Hole quantity n	b x t (mm)	Weight (kg)
400	406	450	12	8	40x4	1,8
500	506	560	12	12	50x4	2,8
630	636	690	12	12	50x4	3,4
800	806	860	12	16	50x4	4,3
1000	1008	1070	15	16	60x4	6,4
1250	1258	1320	15	20	60x4	7,9
1600	1608	1680	19	24	60x4	10

N.B. Other measurements available by special order.

Product Marking



Example: VRL 500



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