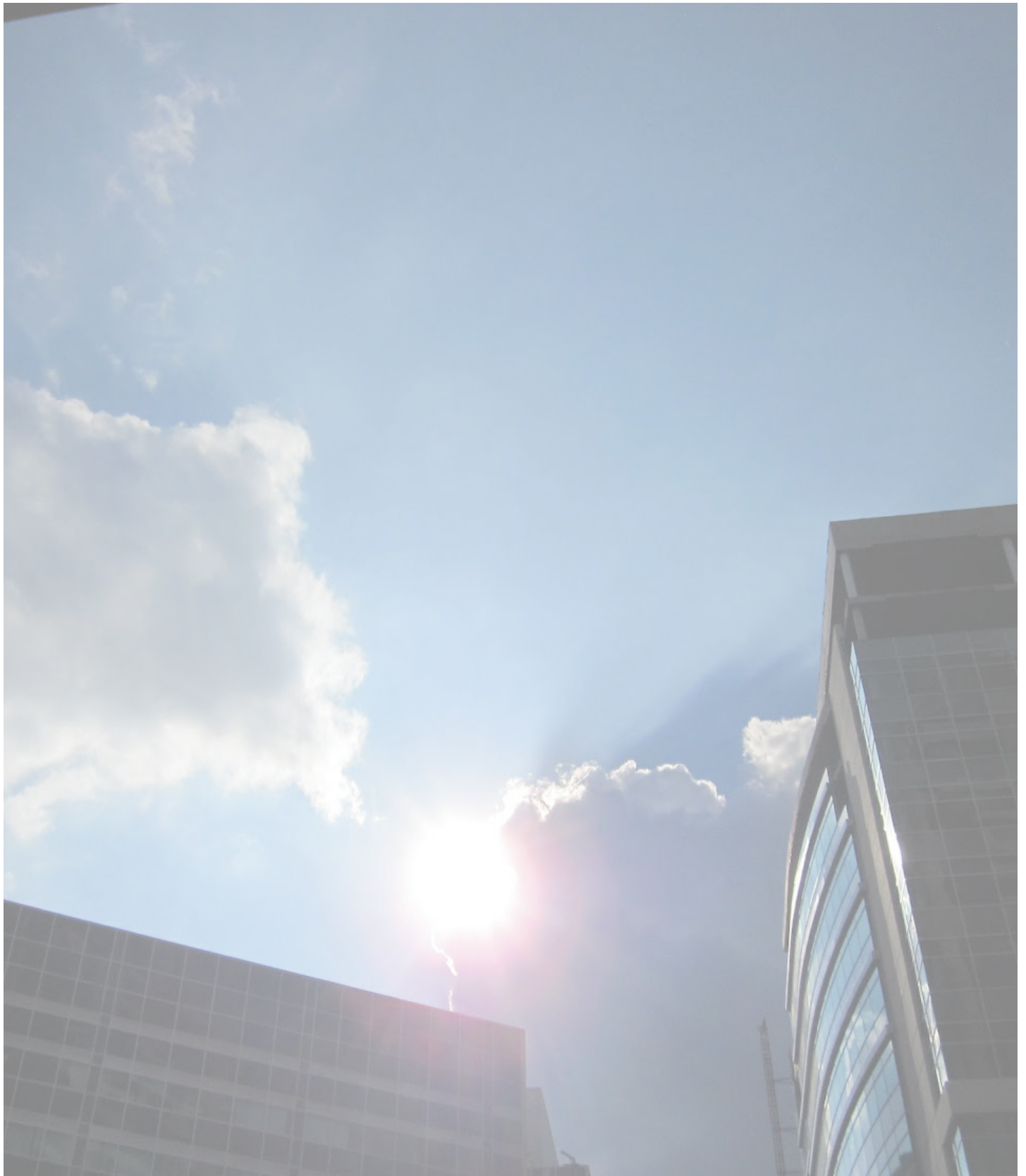




NORDroof
Roof hoods

 **ETS NORD**

All about air



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ULS Air intake device

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

Features:

- Low design
- Excellent storm water and snow resistance
- Solid structure
- Optimum pressure drop
- Low noise level
- Innovative design

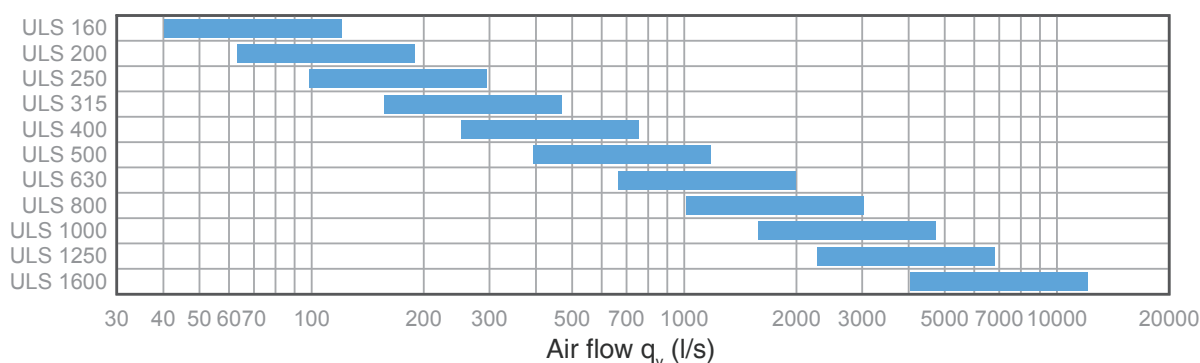
Application

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

Air flow on the front surface of the device should not exceed 0,6 m/s.



Quick selection

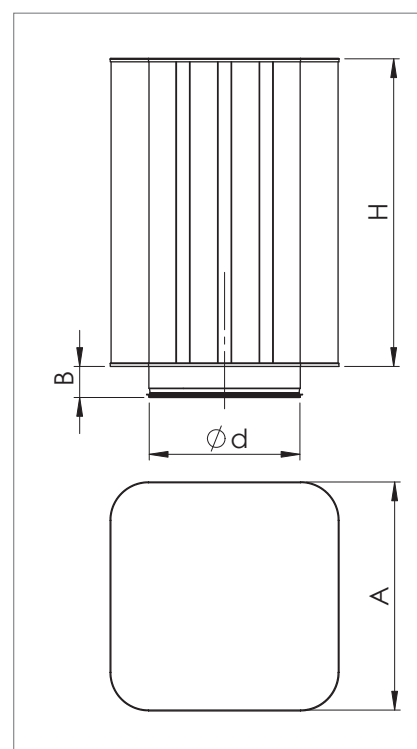


Material, dimensions and technical data

Manufactured of zinc-magnesium coated sheet steel, DX51D+ZM310. Can also be manufactured of other materials and in powder coated finish. Sizes Ø 160-400 mm are equipped with rubber gasket and sizes Ø 500-1600 mm with VRL flange joint. Counterflange ordered separately. In special order larger sizes also available with rubber gaskets. Starting from Ø 500 mm, equipped with lifting and anchoring bracket.

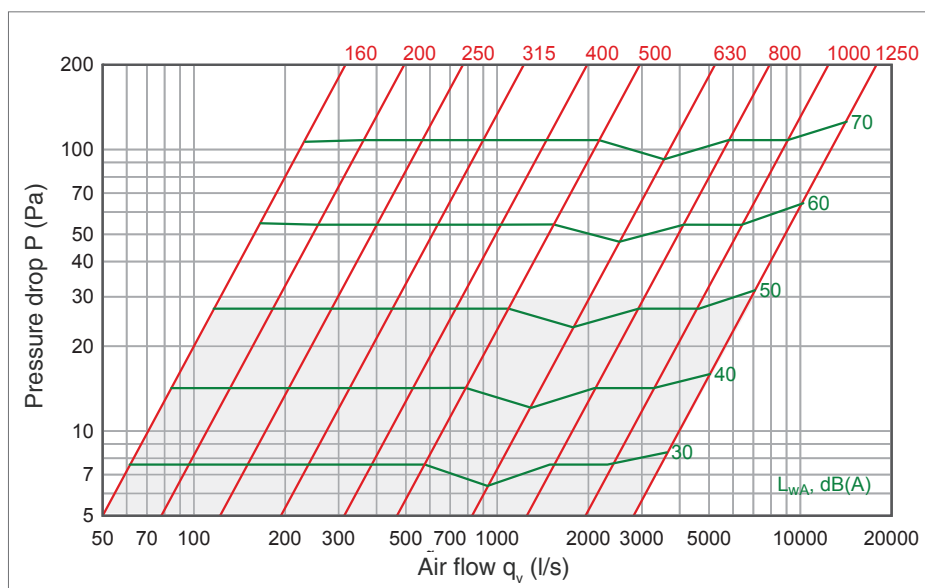
Nominal size D, mm	A, mm	H, mm	B, mm	VRL flange (Eurovent 1/2)				Weight, kg
				D	E	F	n	
160	240	200	90	-	-	-	-	7
200	280	320	90	-	-	-	-	10
250	330	340	90	-	-	-	-	12
315	500	812	90	-	-	-	-	34
400	600	812	90	-	-	-	-	40
500*	700	1012	90	506	560	12	12	61
630*	830	1220	100	636	690	12	12	79
800*	1000	1220	100	806	860	12	16	107
1000*	1400	1220	100	1008	1070	15	16	183
1250*	1450	1525	100	1258	1320	15	20	217
1600*	1800	1800	150	1608	1670	19	24	329

* From size Ø 500 are ULS devices equipped with flange connection



Pressure drop - Air flow

Recommended maximum pressure loss 40 Pa.



7

Product codes

ULS

Marking

ØD

Diameter

Example: ULS 315

Other materials:

H - Stainless steel according to standard EVS-EN 10088-2:2014, EN 1.4301 or AISI 304

Al - Aluminium according to standard EVS-EN 485-1:2016, 5754 [AlMg3]

V - Powder coated, color code from RAL colorcard

Example: ULS 315 - RAL9010 Air intake device

URS Air intake device

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

Features:

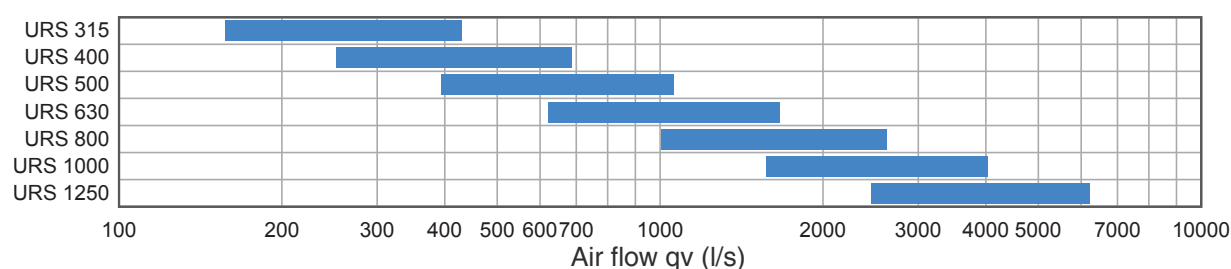
- Low design
- Excellent storm water and snow resistance
- Solid structure
- Optimum pressure drop
- Low sound level
- Innovative design

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

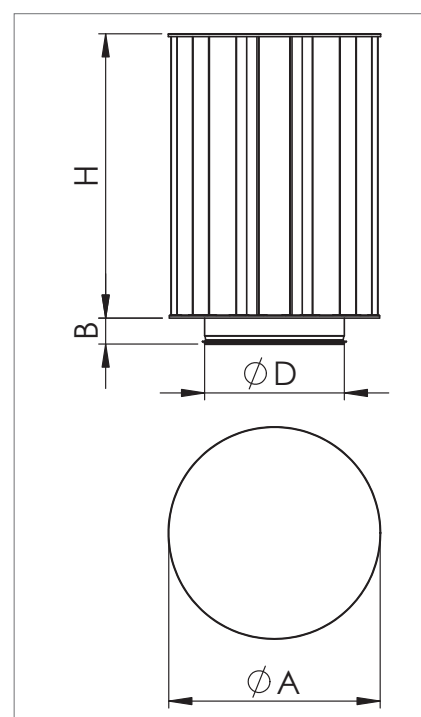


Material, dimensions and technical data

Manufactured of zinc-magnesium coated sheet steel (DX51D+ZM310). Can also be manufactured of other materials and in coated finish. Sizes Ø 315-400 mm are equipped with rubber gasket and sizes Ø 500-1250 mm with VRL flange joint. Counterflange ordered separately. Larger sizes also available with rubber gaskets. Starting from Ø 500, equipped with lifting and anchoring bracket.

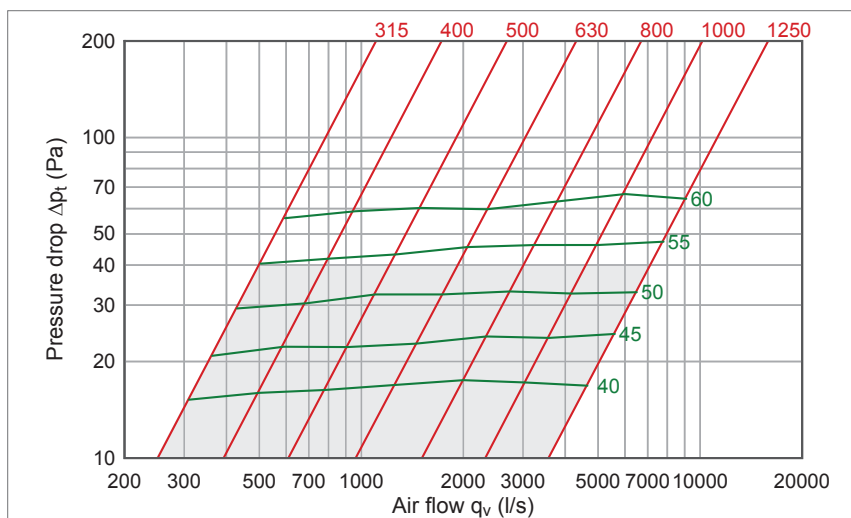
Nominal size D, mm	A, mm	H, mm	B, mm	VRL flange (Eurovent 1/2)				Weight, kg
				D	E	F	n	
315	515	815	90	-	-	-	-	34
400	600	815	90	-	-	-	-	40
500*	700	1015	90	506	560	12	12	61
630*	830	1215	100	636	690	12	12	79
800*	1000	1215	100	806	860	12	16	107
1000*	1200	1215	100	1008	1070	15	16	183
1250*	1450	1540	100	1258	1320	15	20	217

* From size Ø 500 are URS devices equipped with flange connection.



Pressure drop - Air flow

Recommended maximum pressure loss 40 Pa.



Product codes

7

URS

Marking

ØD

Diameter

Example: URS 315

Other materials:

H - Stainless steel according to standard EVS-EN 10088-2:2014, EN 1.4301 or AISI 304

Al - Aluminium according to standard EVS-EN 485-1:2016, 5754 [AlMg3]

V - Powder coated, color code from RAL colorcard

Example: URS 315 - RAL9010 Air intake device

ULK Air intake device

ULK is a roof-mounted ventilation system air intake device for rectangular ducts.

Features:

- Excellent storm water and snow resistance
- Solid structure
- Optimum pressure drop
- Low sound level
- Innovative design



Application

Designed to operate in tough conditions. The labyrinth structure ensures good resistance (rain, snow, hail) in stormy weather. Air flow on the front surface of the device should not exceed 1 m/s.

Available for direct installation on roof through connection.

Material and dimensions

ULK is manufactured as standard from zinc-magnesium coated sheet steel, DX51D+ZM310. In special order can also be manufactured of other materials and in powder coated finish (RAL colorcard). As standard the air intake device is equipped with europrofile. If $A < 1250$, then is used E20 profile. If $A \geq 1250$, then is used E30 profile.

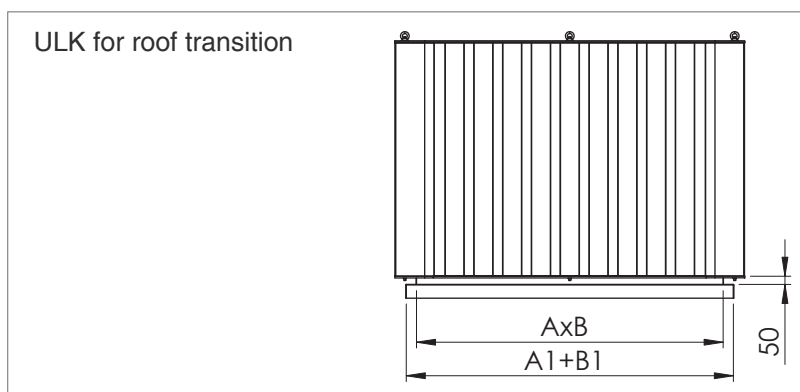
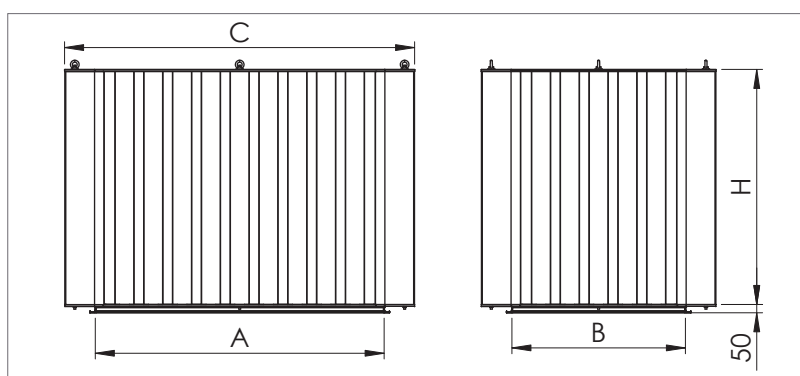
ULK air intake devices are available in several dimensions for rectangular air intake systems. Minimum duct connection dimensions are 300x300 and the maximum is 2100x2100-2000. The larger sizes are also possible for special projects.

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

7

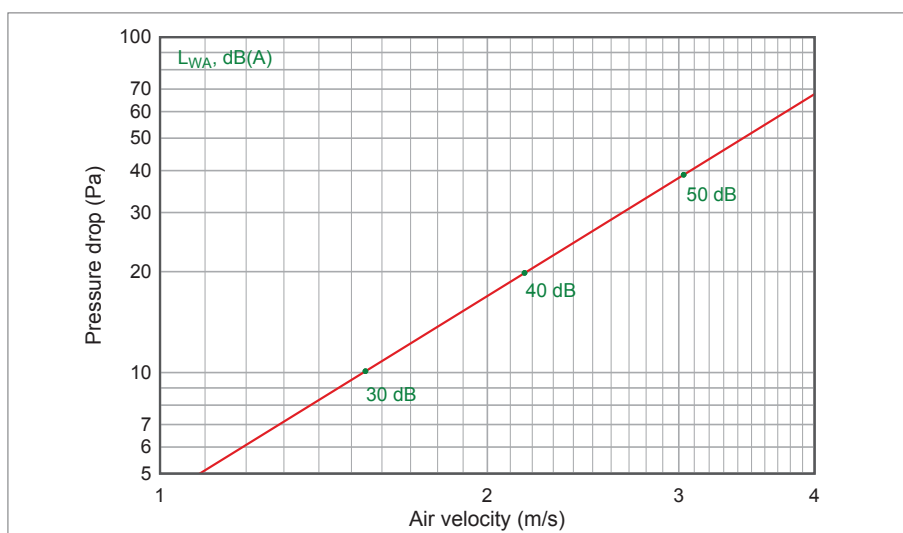
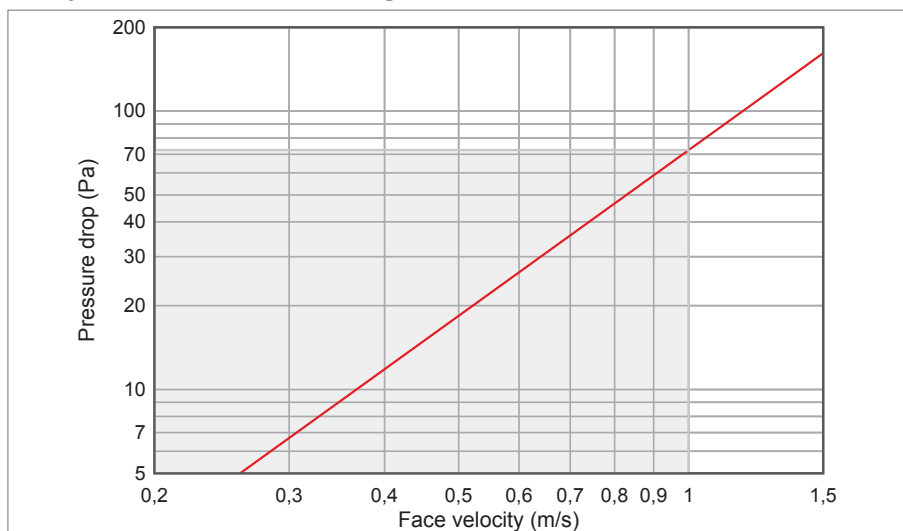
NORDroof | ULK

Nominal Size	
A or B, mm	C, mm
300, 400	625
500	775
600, 700	925
800	1075
900, 1000	1225
1100	1375
1200, 1300	1525
1400	1675
1500, 1600	1825
1700	1975
1800, 1900	2125
2000	2275



Pressure drop - Air flow - Supply air

The allowed velocity of air flow at the outer edge of the device is 1 m/s.



Product codes

ULK	A x B	H	E20	q
Marking	Width x Depth	Height	Duct connection E20 - europrofile 20 mm E30 - europrofile 30 mm KL - roof through + measurements	Air flow m³/h

Example: ULK 500x400-500 - E20

Other materials:

H - Stainless steel according to standard EVS-EN 10088-2:2014, EN 1.4301 or AISI 304

Al - Aluminium according to standard EVS-EN 485-1:2016, 5754 [AlMg3]

V - Powder coated, color code from RAL colorcard

ULSK Air intake device

Openable rectangular air exhaust and intake device. Especially suitable for protecting combined supply and exhaust duct systems of the apartment buildings.

Features:

- Low design
- Openable
- Excellent storm water and snow resistance
- Solid structure
- Low noise

Application

ULSK is easy to open. Designed for installation above a roof transition.

Material, dimensions and technical data

Manufactured of zinc-magnesium coated sheet steel, DX51D+ZM310. Can also be manufactured of other materials and in coated finish.

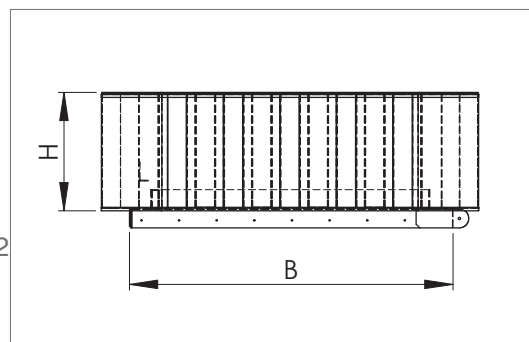
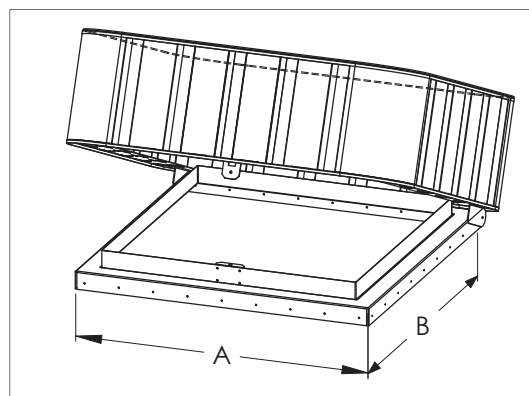
Maximum height 500 mm.

Supply air flow on the front surface of the device should not exceed 0,6 m/s. Exhaust air flow on the front surface of the device should not exceed 1,0 m/s.

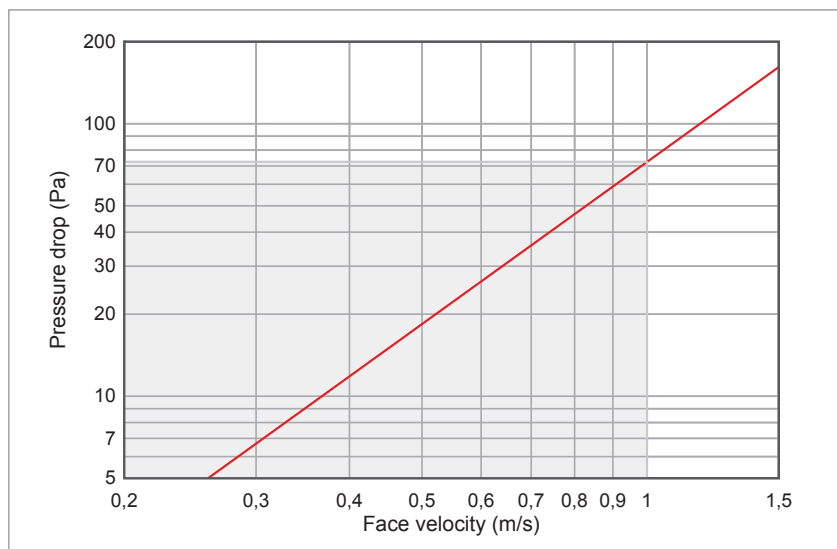
Dimensioning example:

ULSK 1200 x 1000-500 (air intake)

Maximum air flow = ((1,2 m x 0,5 m x 2 pcs.)+(1,0 m x 0,5 m x 2 pcs.))x 1 m/s = **2,2 m³/s**



Pressure drop - Air flow - Supply air



Product codes

ULSK	A x B	H	q
Marking	Width x Depth	Height	Air flow m ³ /h

Example: ULSK 900x1000-300

Other materials:

H - Stainless steel according to standard EVS-EN 10088-2:2014, EN 1.4301 or AISI 304

Al - Aluminium according to standard EVS-EN 485-1:2016, 5754 [AlMg3]

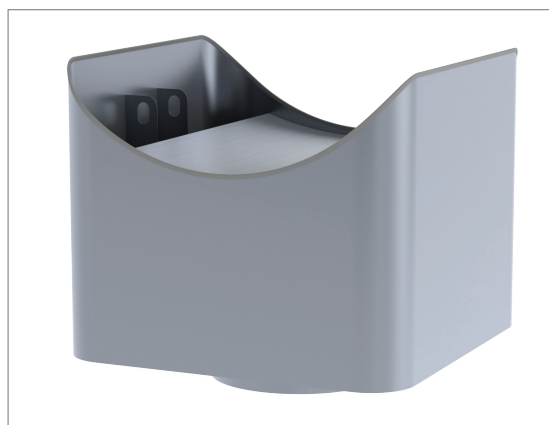
V - Powder coated, color code from RAL colorcard

ULV2 Exhaust air diffuser

Exhaust air diffuser with round connection. Protects the duct system from precipitation.

Features:

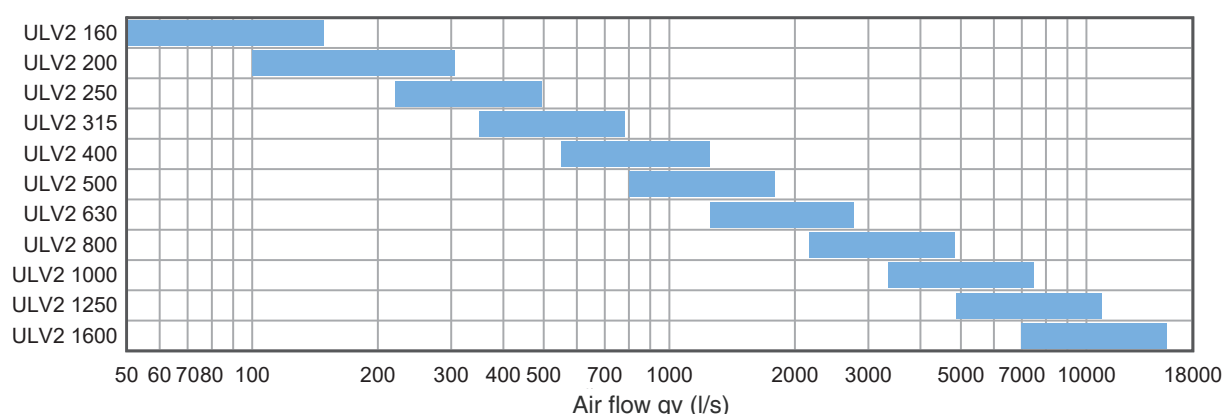
- Low design
- Long vertical exhaust pattern
- Solid structure
- Low pressure loss
- Low sound level



Application

Exhaust air is blown vertically up with low pressure loss 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.

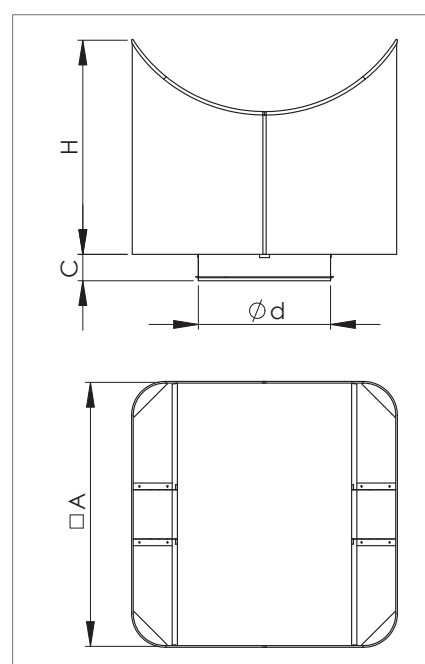
Quick selection



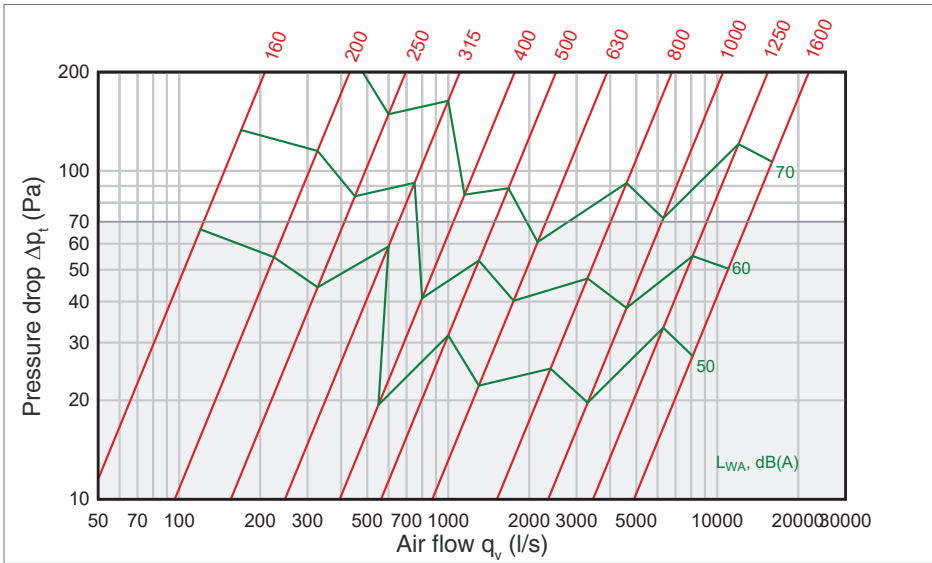
Material and dimensions

Manufactured of zinc-magnesium coated sheet steel, DX51D+ZM310. Standard: sizes Ø 160-400 mm with NORDduct connection (with EPDM seal) and sizes Ø 500-1250 mm with VRL flange joint. Counterflange ordered separately. Larger sizes in special order also available with NORDduct connection.

Nominal size		H, mm	C, mm	Weight, kg
D, mm	A, mm			
160	340	345	100	5
200	400	300	100	7
250	500	375	100	10
315	600	450	100	14
400	800	650	100	25
500	1000	800	100	37
630	1200	1000	100	57
800	1500	1100	100	92
1000	1600	1200	100	121
1250	1900	1250	100	142
1600	2400	1800	100	255



Pressure drop - Air flow - Exhaust air



Sound pressure level L_{pA}

Distance L (m)	1	3	5	10	15	20	25	30	40
Attenuation ΔL (dB)	7	17	22	28	31	34	36	37	40

The total sound pressure level to environment can be approximated for different distances with the following formula:

$$L_{pA} = L_{WA} - \Delta L$$

Product codes

ULV2

Marking

ØD

Diameter

Example: ULV2 160

Other materials:

H - Stainless steel according to standard EVS-EN 10088-2:2014, EN 1.4301 or AISI 304

Al - Aluminium according to standard EVS-EN 485-1:2016, 5754 [AlMg3]

V - Powder coated, color code from RAL colorcard

ULV2K Exhaust air diffuser

Exhaust diffuser with rectangular connections. Protects the duct system from precipitation.

Features:

- Low design
- Long vertical exhaust pattern
- Solid structure
- Low pressure loss
- Low sound level
- Can be installed directly in a roof transition

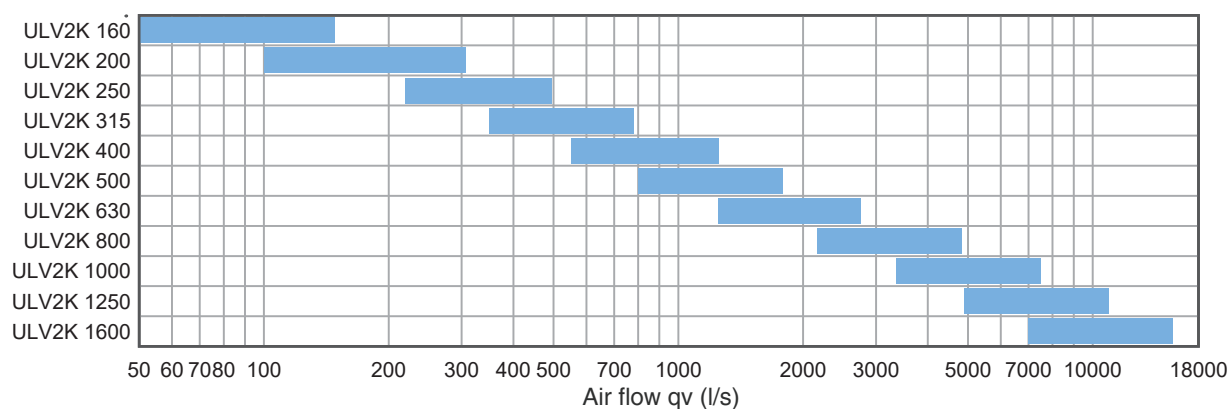


Application

Exhaust air is blown vertically up with low pressure loss 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.

7

Quick selection



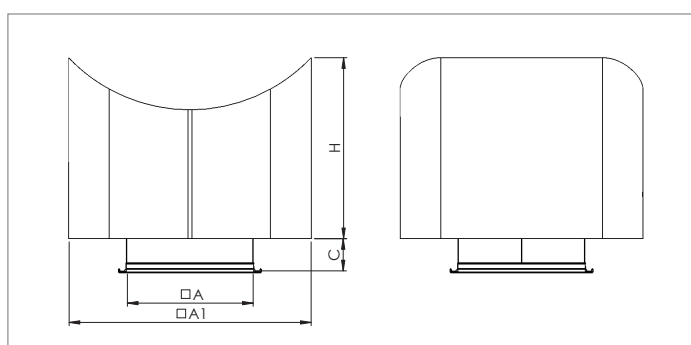
Material, dimensions and technical data

Manufactured of zinc-magnesium coated sheet steel, DX51D+ZM310.

Sizes 160-630 mm with europrofile E20 and 800-1250 mm with europrofile E30.

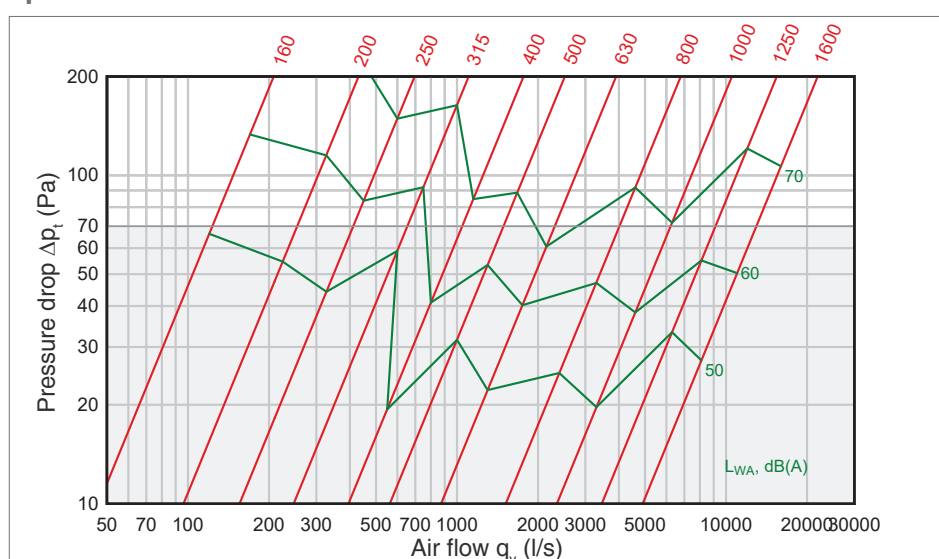
Standard product is square. Can be ordered with dimensions A and B different from each other.

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



Nominal size	A	A, mm	A1, mm	H, mm	C, mm	MKL (50 mm insulation)	Weight, kg
160	160	160	340	345	100	300x300	5
200	200	200	400	300	100	300x300	7
250	250	250	500	375	100	350x350	10
315	315	315	600	450	100	400x400	14
400	400	400	800	650	100	500x500	25
500	500	500	1000	800	100	600x600	37
630	630	630	1200	1000	100	700x700	57
800	800	800	1500	1100	100	900x900	92
1000	1000	1000	1600	1200	100	1100x1100	121
1250	1250	1250	1900	1250	100	1350x1350	142
1600	1600	1600	2400	1800	100	1750x1750	255

Pressure drop - Air flow - Exhaust air



Sound pressure level L_{pA}									
Distance L (m)	1	3	5	10	15	20	25	30	40
Attenuation ΔL (dB)	7	17	22	28	31	34	36	37	40

Total sound pressure level to environment can be approximated for different distances with the following formula:

$$L_{pA} = L_{WA} - \Delta L$$

Product codes

ULV2K	A	E20
Marking	Nominal dimension	Duct connection E20 - europrofile 20 mm E30 - europrofile 30 mm KL - roof transition + dimensions

Example: ULV2K 160 - E20 Exhaust air diffuser with europrofile connection

Material codes

Standard material zinc-magnesium coated sheet steel (DX51D+ZM310).
 Zn – galvanized steel (DX51D+Z275), (standard EVS-EN 10346:2015)
 H – acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4436 or AISI 316)
 Al – aluminium (standards EVS-EN 485-1:2016, 5754 [AlMg3])
 RAL colour, when coated

ULV2P Exhaust air diffuser

Rectangular exhaust diffuser with rectangular connections. Protects the duct system from precipitation.

Features:

- Low design
- Long vertical exhaust pattern
- Solid structure
- Low pressure loss
- Low sound level
- Unique form
- Can be installed directly in a roof transition



Application

Exhaust air is blown vertically up with low pressure loss 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.

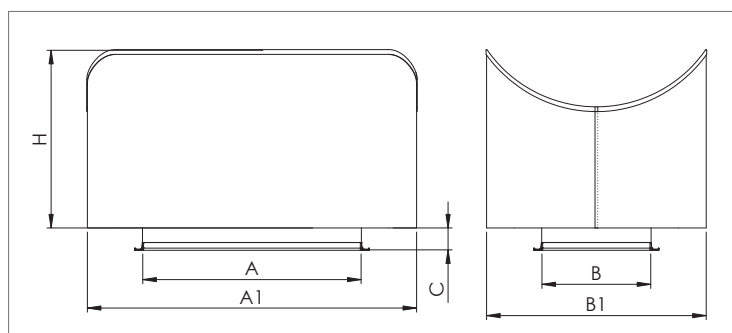
Design of the unit efficiently prevents rainwater from entering duct. Rainwater is drained onto the roof from the base of the unit.

Material, dimensions and technical data

ULV2P is manufactured of zinc-magnesium coated sheet steel, DX51D+ZM310.

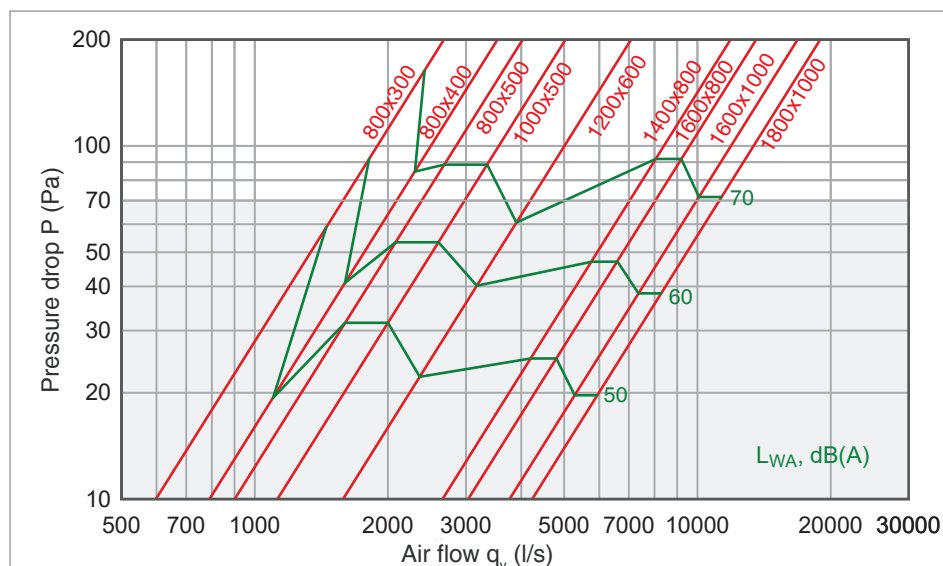
As standard the ULV2P is equipped with europrofile E30.

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



Nominal size	A, mm	B, mm	A1, mm	B1, mm	H, mm	C, mm	Weight, kg
800x300	800	300	1100	600	450	100	35
800x400	800	400	1200	800	650	100	48
800x500	800	500	1300	1000	800	100	62
1000x500	1000	500	1500	1000	800	100	72
1200x600	1200	600	1800	1200	1000	100	109
1400x800	1400	800	2100	1500	1100	100	115
1600x800	1600	800	2300	1500	1100	100	145
1600x1000	1600	1000	2200	1600	1200	100	155
1800x1000	1800	1000	2400	1600	1200	100	170

Pressure drop - Air flow - Exhaust air



Sound pressure level L_{pA}

Distance L (m)	1	3	5	10	15	20	25	30	40
Attenuation ΔL (dB)	7	17	22	28	31	34	36	37	40

7

Total sound pressure level to environment can be approximated for different distances with the following formula:

$$L_{pA} = L_{WA} - \Delta L$$

Product codes

ULV2P

Marking

A x B

Duct dimensions

E30

Duct connection
E30 - europrofile 30 mm
KL - roof transition +
dimensions

Example: ULV2P 800x300-E30

Material codes

Standard material zinc-magnesium coated sheet steel (DX51D+ZM310).

Zn – galvanized steel (DX51D+Z275), (standard EVS-EN 10346:2015)

H – acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4436 or AISI 316)

Al – aluminium (standards EVS-EN 485-1:2016, 5754 [AlMg3])

RAL colour, when coated

UVE Roof hood

Round roof hood that is suitable for both exhaust or free flow ventilation systems.

Features:

- Low design
- Solid structure
- Low pressure loss

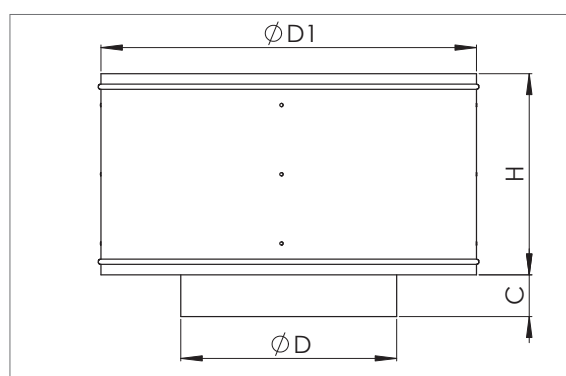
Application

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

Material and sizes

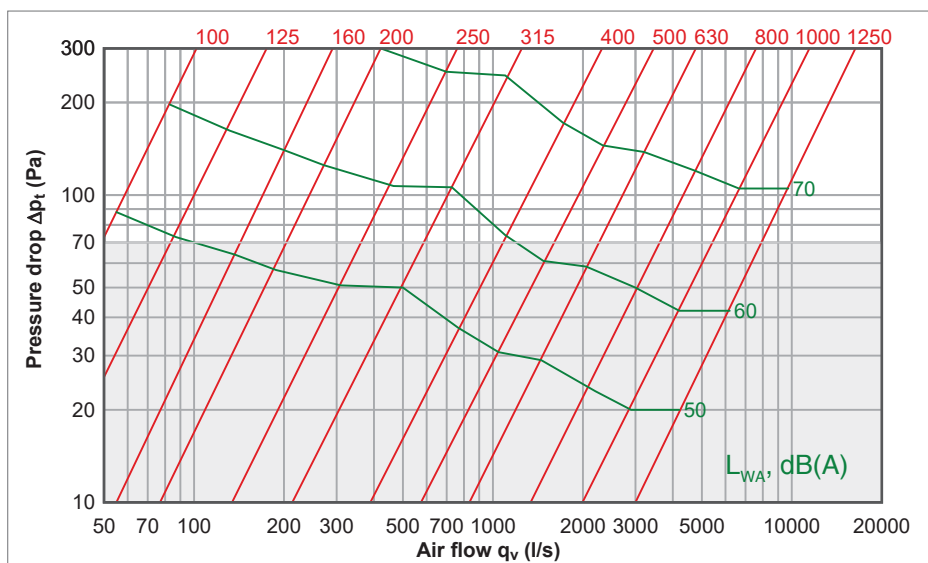
Standard material zinc-magnesium coated sheet steel, DX51D+ZM310. Can also be manufactured of other materials and in coated finish.

Sizes Ø 100-400 mm duct sizes and sizes Ø 500-1250 mm with VRL flange joint. Counterflange ordered separately.



Nominal size	VRL flange (Eurovent 1/2)							Weight, kg
	mm	D1	H	C	D	E	F	
100	160	140	80	-	-	-	-	1,2
125	200	160	80	-	-	-	-	1,6
160	250	200	80	-	-	-	-	2,4
200	315	240	80	-	-	-	-	3,5
250	400	270	80	-	-	-	-	5,0
315	500	360	80	-	-	-	-	8,2
400	700	380	80	-	-	-	-	13
500*	900	440	130	506	560	12	12	23
630*	1100	570	130	636	690	12	12	35
800*	1400	750	130	806	860	12	16	54
1000*	1700	970	130	1008	1070	15	16	74
1250*	2100	1200	130	1258	1320	15	20	155

Pressure drop - Air flow - Exhaust air



Product codes

UVE

Marking

Ød

Diameter

Example: UVE 315

Material codes

Standard material zinc-magnesium coated sheet steel (DX51D+ZM310).

Zn – galvanized steel (DX51D+Z275), (standard EVS-EN 10346:2015)

H – acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4436 or AISI 316)

Al – aluminium (standards EVS-EN 485-1:2016, 5754 [AlMg3])

RAL colour, when coated

Example: UVE-H 800 Roof hood, AISI316

Accessories:

VRL flange

UVK Roof hood

UVK rectangular roof hood both exhaust or free flow ventilation systems.

Features:

- Low design
- Solid structure
- Low pressure loss

Application

Suitable for both natural and mechanical ventilation.

Rainwater is drained onto the roof by the structure of the hood.

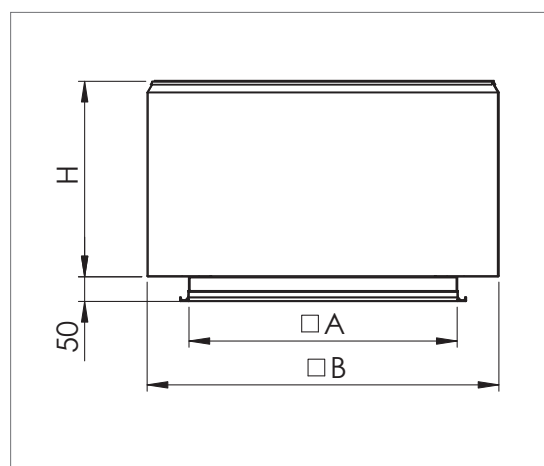
Material and sizes

Manufactured of zinc-magnesium coated sheet steel DX51D+ZM310. Can also be manufactured of other materials and in coated finish. As standard the roof hood is equipped with europrofile connection (E20 - UVK 400...1200, E30 - UVK 1300...1400). With separate order can also be manufactured for installation above a roof transition (MKL roof transition).

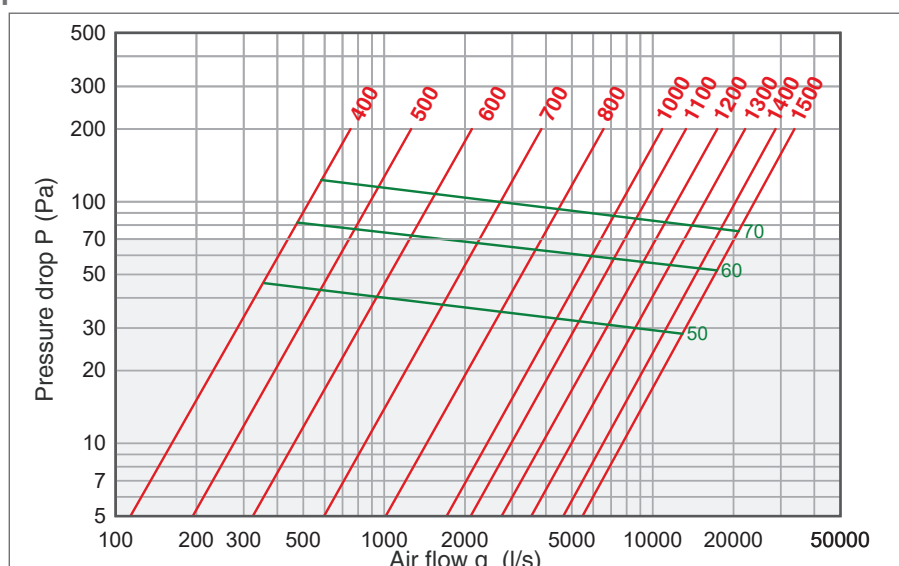
For the lifting there are slots in the internal supports.



Nominal size mm	A	B	H	Weight, kg	MKL (50 mm insulation)
400	400	460	270	10	MKL 400
500	500	620	330	15	MKL 500
600	600	785	435	25	MKL 600
700	700	950	485	33	MKL 700
800	800	1115	545	44	MKL 800
900	900	1280	605	58	MKL 900
1000	1000	1450	655	67	MKL 1000
1100	1100	1620	762	96	MKL 1100
1200	1200	1795	815	107	MKL 1200
1300	1300	1970	860	125	MKL 1300
1400	1400	2150	910	145	MKL 1400
1500	1500	2350	959	170	MKL 1500



Pressure drop - Air flow - Exhaust air



Product codes

UVK	A	E20
Marking	Nominal size A	Duct connection
		E20 - europrofile 20 mm
		E30 - europrofile 30 mm
		KL - for roof transition + outer dimensions

Example: **UVK 400 - E20**
UVK 400 - KL 400x400

Material codes

Standard material zinc-magnesium coated sheet steel (DX51D+ZM310)
 Zn – galvanized steel (DX51D+Z275), (standard EVS-EN 10346:2015)
 H – acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4436 or AISI 316)
 Al – aluminium (standards EVS-EN 485-1:2016, 5754 [AlMg3])
 RAL colour, when coated

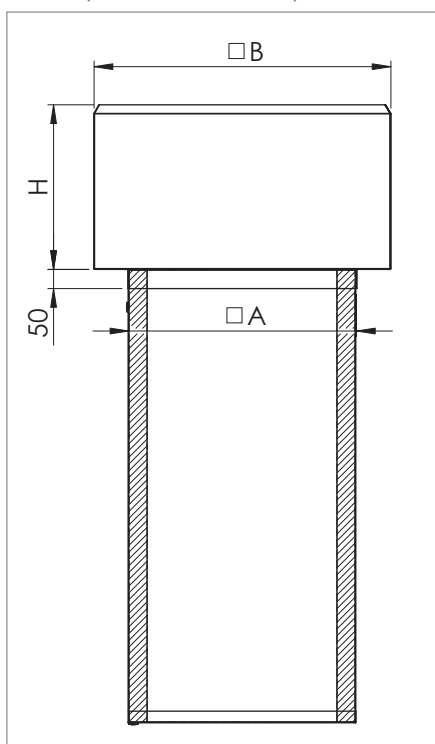
Example: UVK-H 800 Roof hood, AISI316

Accessories:

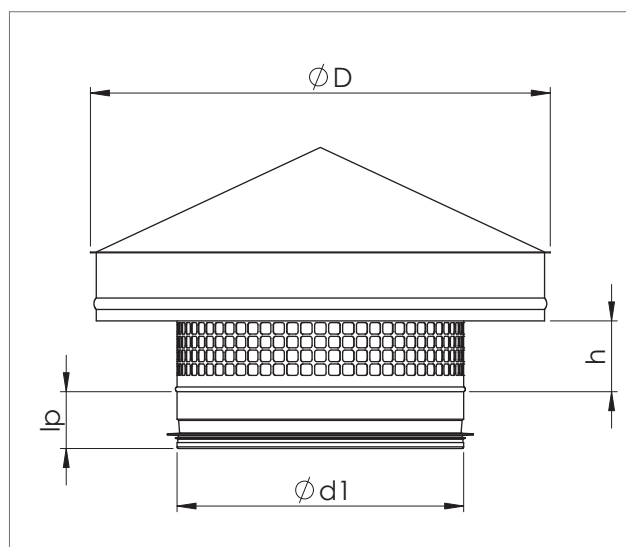
MKL roof transition.
 UVK roof hood connecting with MKL roof transition (50 mm insulation).

7

NORDroof | UVK



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	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 codes

NTH	d1
Product	Diameter

Example: NTH 315

Material codes

Standard material galvanized steel (DX51D+Z275).

ZM – zinc-magnesium steel sheet (standard EVS-EN 10346:2015)

H – acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4436 or AISI 316)

Al – aluminium (standards EVS-EN 485-1:2016, 5754 [AlMg3])

MKL Roof transition

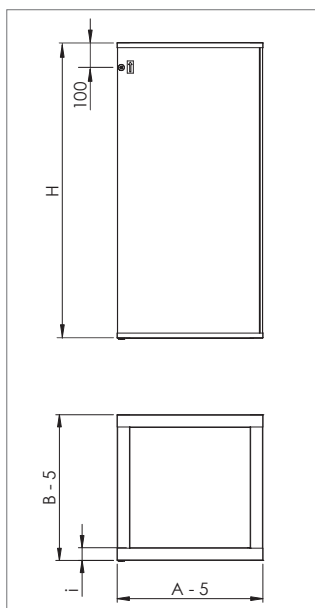
Roof transition, easily adapted for required roof incline by angle brackets. Also functions as a silencer when fitted with a perforated inner shell.

Material and dimensions

Manufactured of zinc-magnesium coated sheet steel (DX51D+ZM310) and insulated with 50 mm mineral wool. Inner shell is made of perforated or non-perforated sheet steel. Standard height 1200 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.

Accessories: return damper, duct connection for round duct and installation bracket.



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NORDroof | MKL

Product codes

MKL	1	A x B	H	50
Product	Inner shell 1 - perforated 2 - sheet steel	Width x Depth	Height	Insulation

Example: MKL-1-400x400-1000-50
MKL-2-600x600-800-100+TK+D1=250

Fire insulation identification shall be written at the end of the product identification.

EI60, EI90 – fire insulation, 50 mm (density 140 kg/m³)

EI120 – fire insulation, 100 mm (density 140 kg/m³)

Example: MKL-2-400x400-1000-EI60

Material codes

Standard material zinc-magnesium coated sheet steel (DX51D+ZM310)

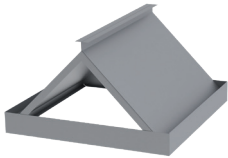
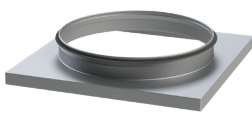
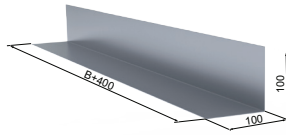
H – acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4436 or AISI 316)

Al – aluminium (standards EVS-EN 485-1:2016, 5754 [AlMg3])

RAL colour, when coated

Accessories:

Order by measurements:

TK Return damper	MKLS Connection for round duct D1-bottom D2-top	Installation bracket 100x100x1,2
		

VRL Flange

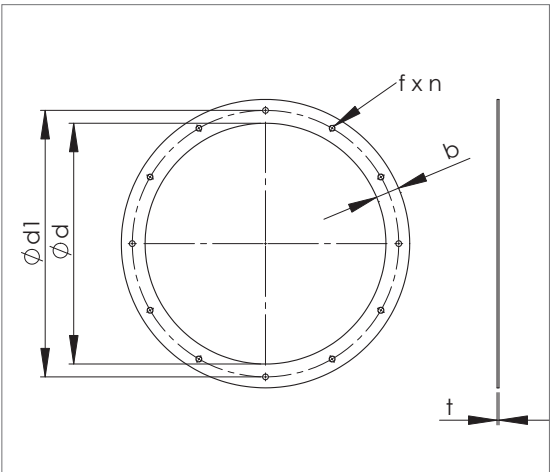
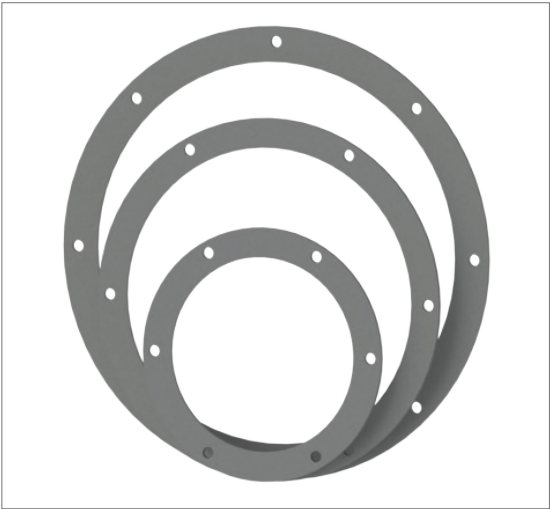
Round flange manufactured of galvanized flat iron for connecting ducts and parts.

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.



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NORDroof | VRL

Product codes

VRL	d
Product	Diameter

Example: VRL 500



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