

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.

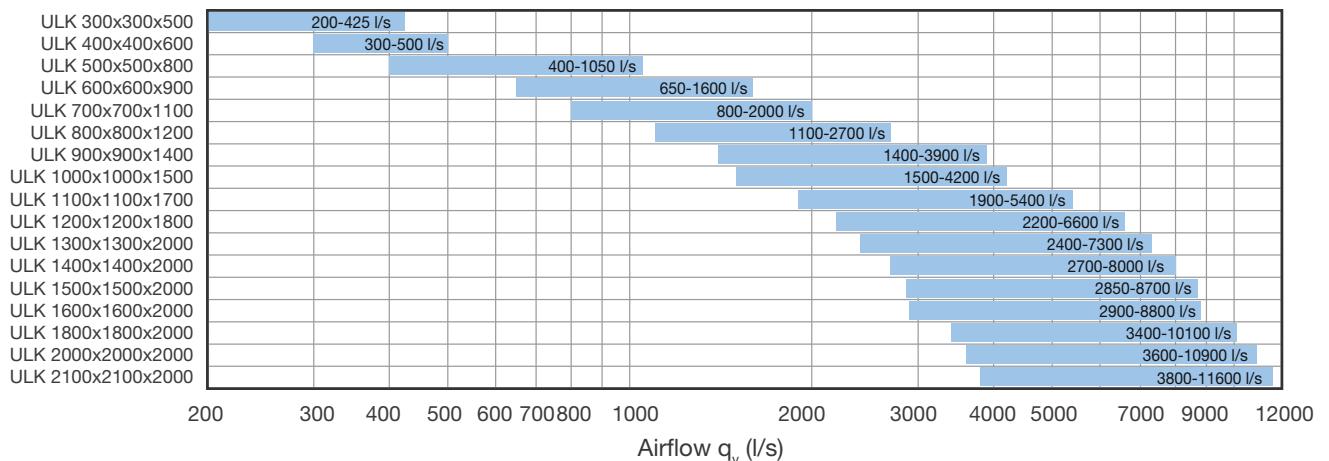


- Excellent water and snow resistance
- Strong structure
- Optimal pressure drop
- Low sound level
- Innovative design
- Magnelis® sheet steel (corrosivity category is C4)
- Standard dimensions
- Simplifies installation
- Waterproof and safe installation

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

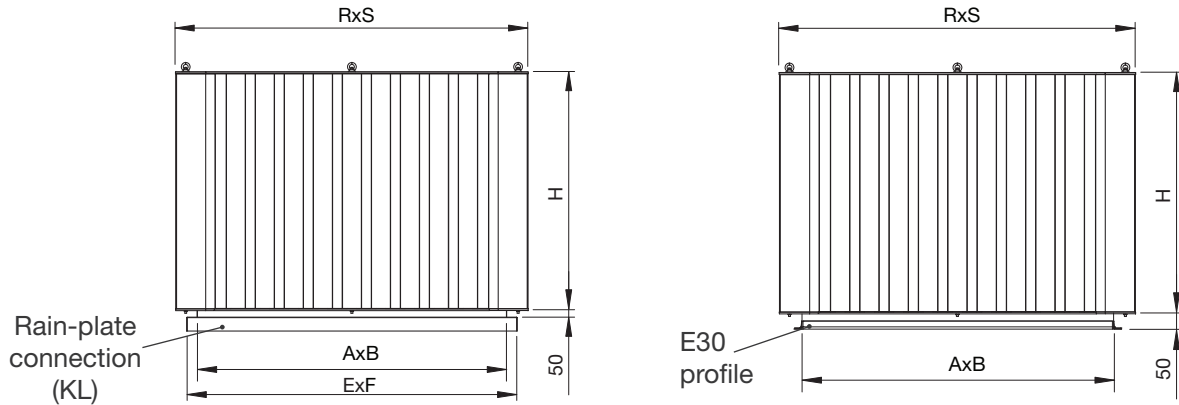
ULK is manufactured as standard from Magnelis® sheet steel (ZM310). In special order it can also be manufactured of other materials and in powder coated finish (RAL colorcard).

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.



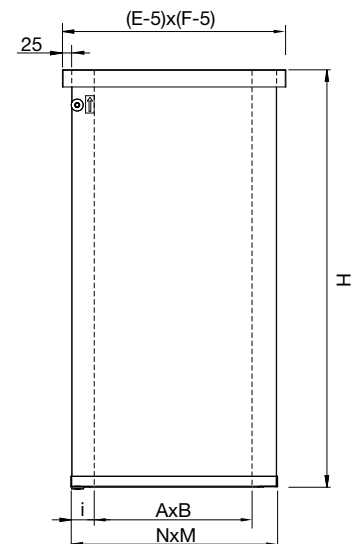
Nominal size AxBxH (mm)	AxB (mm)	E/F (mm)		R x S (mm)	H (mm)	Weight (kg)	Free area (m ²)	Airflow (l/s)	
		MKL i=50 (mm)	MKL i=100 (mm)					Min	max
300x300x500	300x300	400	500	625	500	31	0,161	200	425
400x400x600	400x400	500	600	625	600	32	0,193	300	500
500x500x800	500x500	600	700	775	800	39	0,405	400	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.

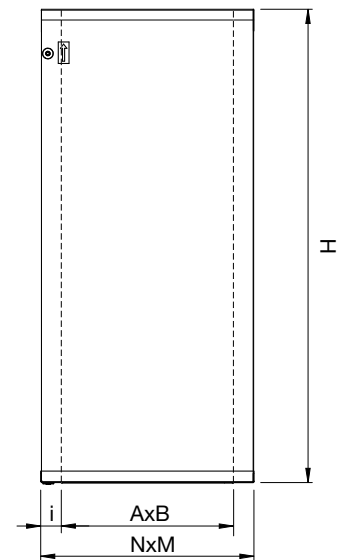
MKL with 50 mm insulation.

ULK Nominal size AxBxH	ExF (mm)	MKL (i=50 mm)		
		MKL Nominal size (NxM)	NxM (mm)	AxB (mm)
300x300x500	400x400	MKL 400x400	395x395	300x300
400x400x600	500x500	MKL 500x500	495x495	400x400
500x500x800	600x600	MKL 600x600	595x595	500x500
600x600x900	700x700	MKL 700x700	695x695	600x600
700x700x1100	800x800	MKL 800x800	795x795	700x700
800x800x1200	900x900	MKL 900x900	895x895	800x800
900x900x1400	1000x1000	MKL 1000x1000	995x995	900x900
1000x1000x1500	1100x1100	MKL 1100x1100	1095x1095	1000x1000
1100x1100x1700	1200x1200	MKL 1200x1200	1195x1195	1100x1100
1200x1200x1800	1300x1300	MKL 1300x1300	1295x1295	1200x1200
1300x1300x2000	1400x1400	MKL 1400x1400	1395x1395	1300x1300
1400x1400x2000	1500x1500	MKL 1500x1500	1495x1495	1400x1400
1500x1500x2000	1600x1600	MKL 1600x1600	1595x1595	1500x1500
1600x1600x2000	1700x1700	MKL 1700x1700	1695x1695	1600x1600



MKL with 100 mm insulation.

ULK Nominal size AxBxH	ExF (mm)	MKL (i=100 mm)		
		MKL Nominal size (NxM)	NxM (mm)	AxB (mm)
300x300x500	500x500	MKL 500x500	495x495	300x300
400x400x600	600x600	MKL 600x600	595x595	400x400
500x500x800	700x700	MKL 700x700	695x695	500x500
600x600x900	800x800	MKL 800x800	795x795	600x600
700x700x1100	900x900	MKL 900x900	895x895	700x700
800x800x1200	1000x1000	MKL 1000x1000	995x995	800x800
900x900x1400	1100x1100	MKL 1100x1100	1095x1095	900x900
1000x1000x1500	1200x1200	MKL 1200x1200	1195x1195	1000x1000
1100x1100x1700	1300x1300	MKL 1300x1300	1295x1295	1100x1100
1200x1200x1800	1400x1400	MKL 1400x1400	1395x1395	1200x1200
1300x1300x2000	1500x1500	MKL 1500x1500	1495x1495	1300x1300
1400x1400x2000	1600x1600	MKL 1600x1600	1595x1595	1400x1400
1500x1500x2000	1700x1700	MKL 1700x1700	1695x1695	1500x1500
1600x1600x2000	1800x1800	MKL 1800x1800	1795x1795	1600x1600



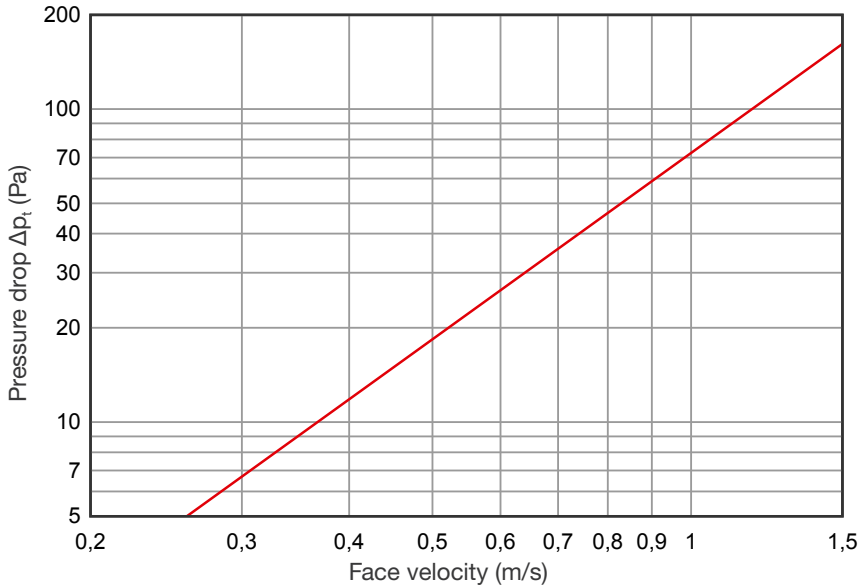
Installation opening =
(N+20)x(M+20) mm

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

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.



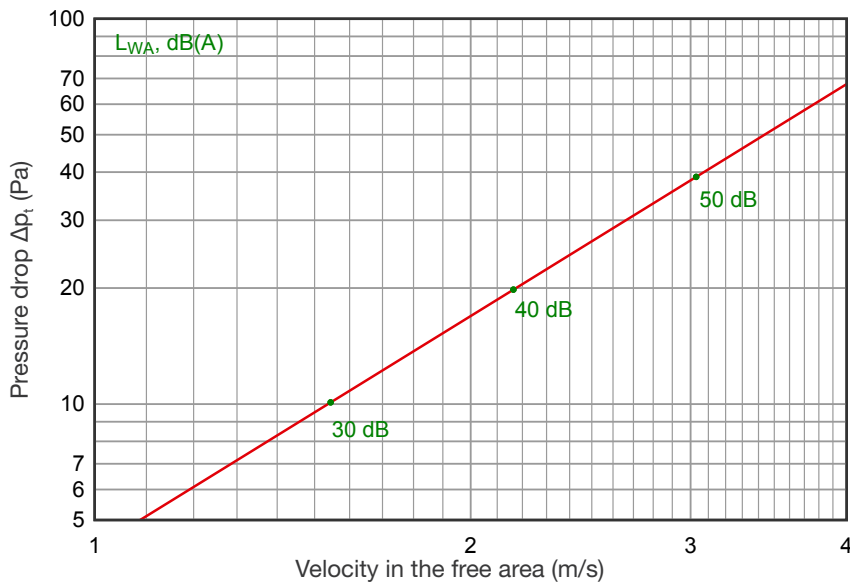
If special sizes are required, the product dimensions can be calculated using the following formula. For special sizes please consult with your local salesman.

Sizing example for special sizes:

$$\text{Maximum airflow [l/s]} = ((R[\text{m}] \times H[\text{m}] \times 2) + (S[\text{m}] \times H[\text{m}] \times 2)) \times 0,6 [\text{m/s}] \times 1000$$

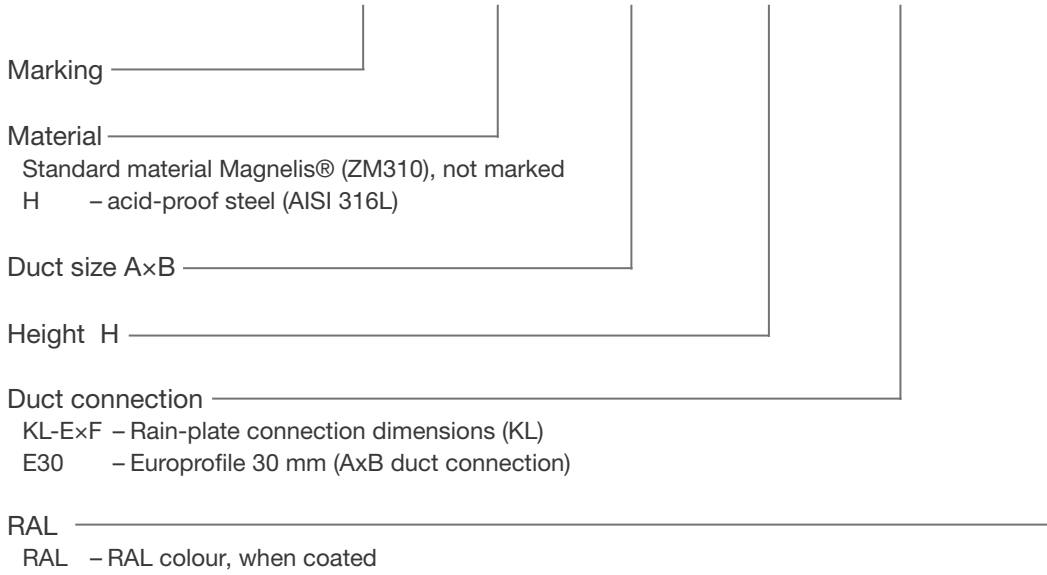
ULK 600x600-900

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



Product Marking

ULK - H - AxB - H - KL-ExF - RAL XXX



- 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