UHC Combi hood

MagiCAD

AUTODESK REVIT

- Sizes 200-1100 airflow 100-5800 l/s
- UHC roof hood is a unique desing combi hood for air intake and exhaust
- UHC is manufactured of zinc-magnesium coated sheet steel, that has high corrosion resistance
- Minimal risk of mixing supply and exhaust air
- Good water and snow penetration
- High exhaust air speed that ensures smooth and long throw length
- Strong construction
- Low pressure loss
- Low noise level

Quick selection

Application

UHC is a combination roof hood that is intended for fresh air intake and exhaust air blow out. The exhaust section directs the air straight up. This ensures that odours and dirt in exhaust air will not fall aruond the unit. Fresh outdoor air intake is under the edge. Design of the unit efficiently prevent rainwater entering the air duct. Rainwater is drained onto the roof.

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

Material and dimensions

UHC is manufactured of zinc-magnesium coated sheet steel DX51D+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	Free area	
	Outdoor air m^2	Extract air m^2
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	C	D	A	B	E	F	H	UHCT (50 mm insul.)
200	400	700	200	500	706	992	425	UHCT 200
300	500	900	300	700	806	1192	510	UHCT 300
400	600	1100	400	900	1006	1455	595	UHCT 400
500	700	1300	500	1100	1156	1690	680	UHCT 500
600	800	1500	600	1300	1306	1936	775	UHCT 600
700	900	1700	700	1500	1456	2160	850	UHCT 700
800	1000	1900	800	1700	1556	2370	970	UHCT 800
900	1100	2100	900	1900	1706	2600	1015	UHCT 900
1000	1200	2300	1000	2100	1856	2840	1120	UHCT 1000

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 $L_{W,okt}$ 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	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 codes

UHC - Material - Size A - RAL

Marking

Material
(-) – zinc-magnesium coating, standard material
Zn – galvanized steel (DX51D+Z275)
H – acid-proof steel (AISI 316)

Nominal size A

RAL
RAL colour, when coated

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

Optional accessories: