

UHC Combi Hood



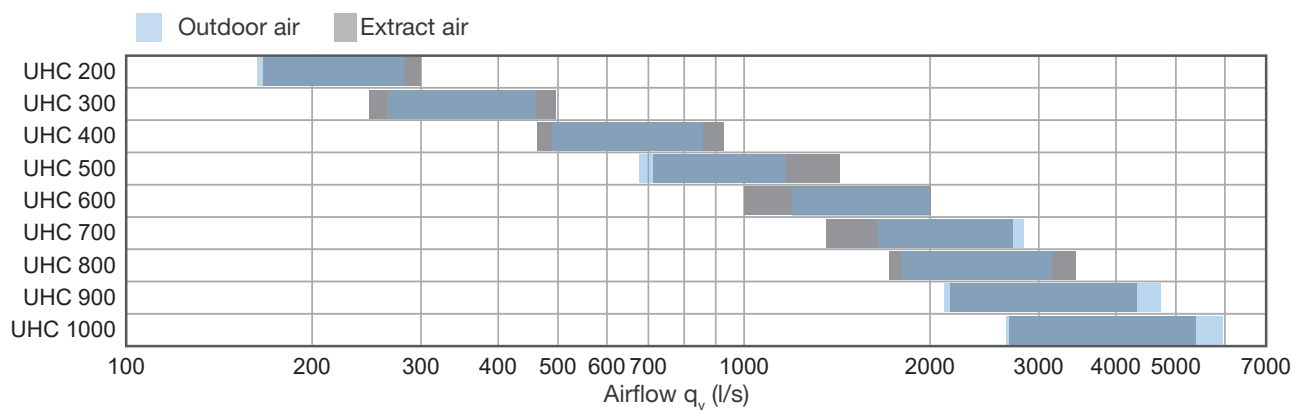
MagiCAD

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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

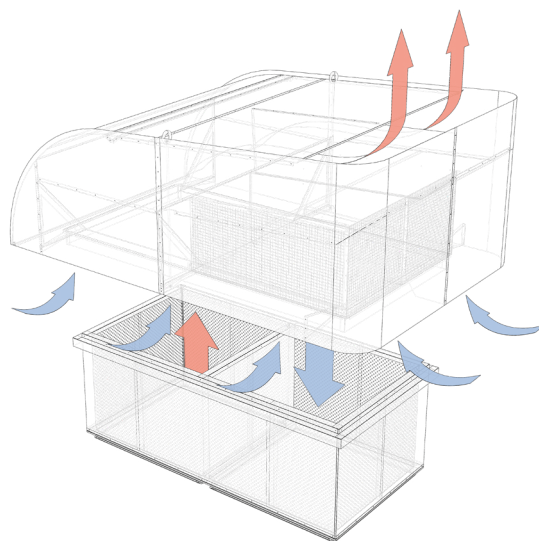
Quick Selection



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.



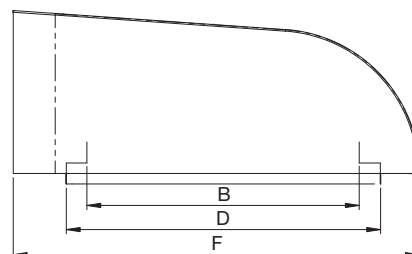
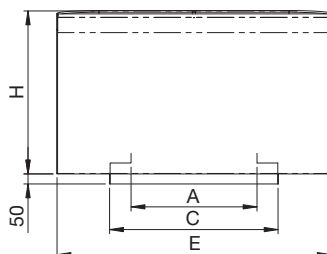
Material and Dimensions

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.

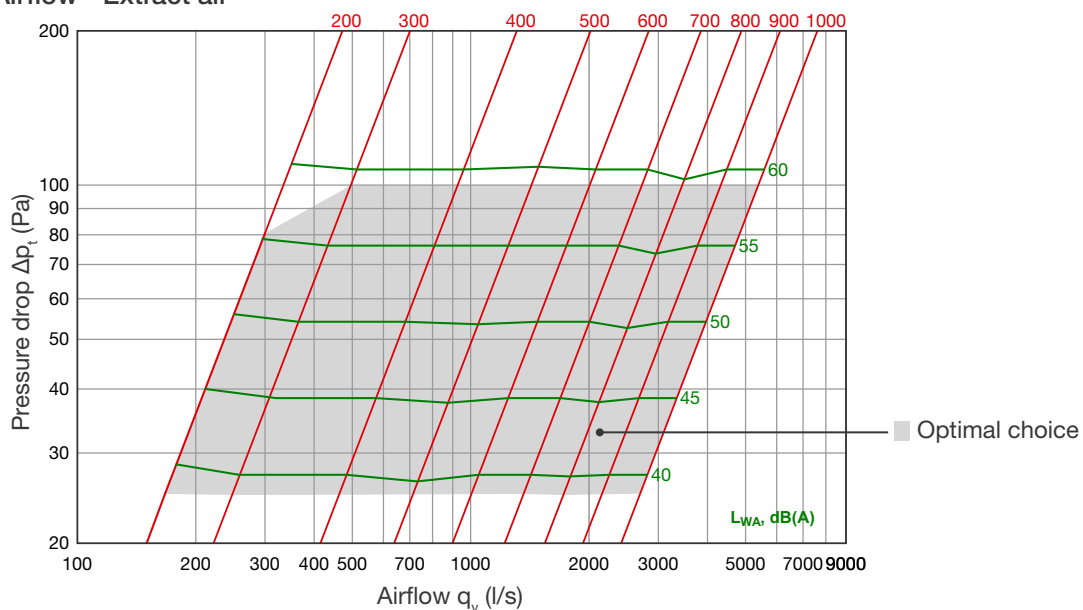
Nominal size A (mm)	Free area	
	Outdoor air (m²)	Extract air (m²)
200	0,128	0,030
300	0,171	0,050
400	0,286	0,100
500	0,398	0,141
600	0,580	0,220
700	0,735	0,302
800	0,825	0,389
900	1,003	0,462
1000	1,200	0,578



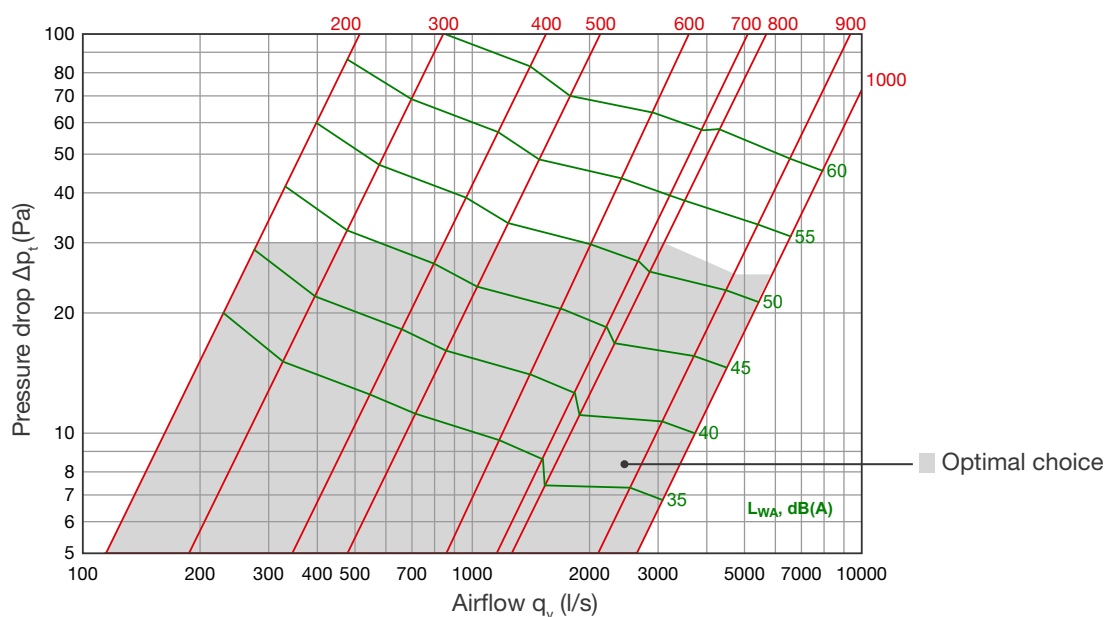
Nominal size A (mm)	C (mm)	D (mm)	A (mm)	B (mm)	E (mm)	F (mm)	H (mm)	Min/max. airflow (l/s)		UHCT (50 mm insul.)	Weight (kg)
								Outdoor air	Extract air		
200	400	700	200	500	706	992	425	160/280	150/290	UHCT 200	33
300	500	900	300	700	806	1192	510	270/460	270/460	UHCT 300	44
400	600	1100	400	900	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 $L_W = L_{WA} + K_{\text{okt}}$

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

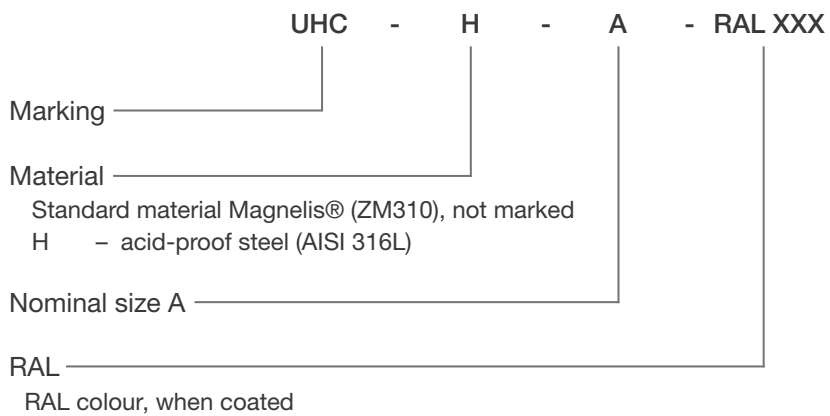
Sound attenuation - Outdoor air

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