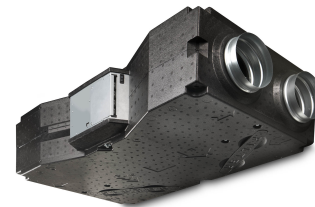


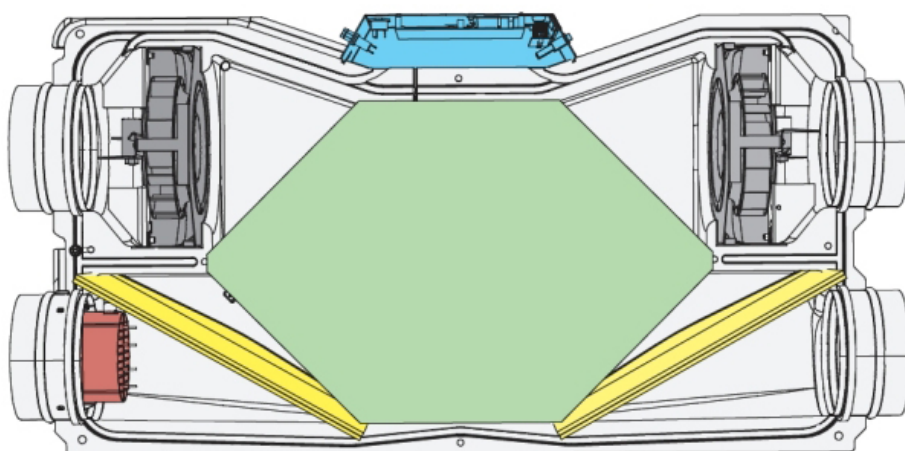
HRV30EC-CF-P-N-EN-74-R-P0

26/2/2016

VENUS ventilation unit is particularly suitable for ventilation of apartments and houses. The unit is intended for indoor use in dry environments with ambient temperatures ranging from +3 °C to +40 °C, relative humidity of 80% for air transport within a temperature range from -20 °C to +40 °C and relative humidity up to 90%. VENUS unit is made with AC or EC motors and can be equipped with an integrated pre-heating. Comfort version uses an advanced control system with the possibility of using sensors of air quality.



Details



Height	270	mm
Width	555	mm
Length	1114	mm
Weight	19,3	kg
Maximal airflow	344	m ³ /h
U	-	V-Hz

Inflow branch

Airflow volume - supply in	250	m ³ /h
Pressure drop - supply [Pa]	85	Pa
Exchange efficiency - supply	81,5	%
Face air velocity - supply in [m/s]	1,3	m/s



U = 230 V
I_{max} = 1.4 A



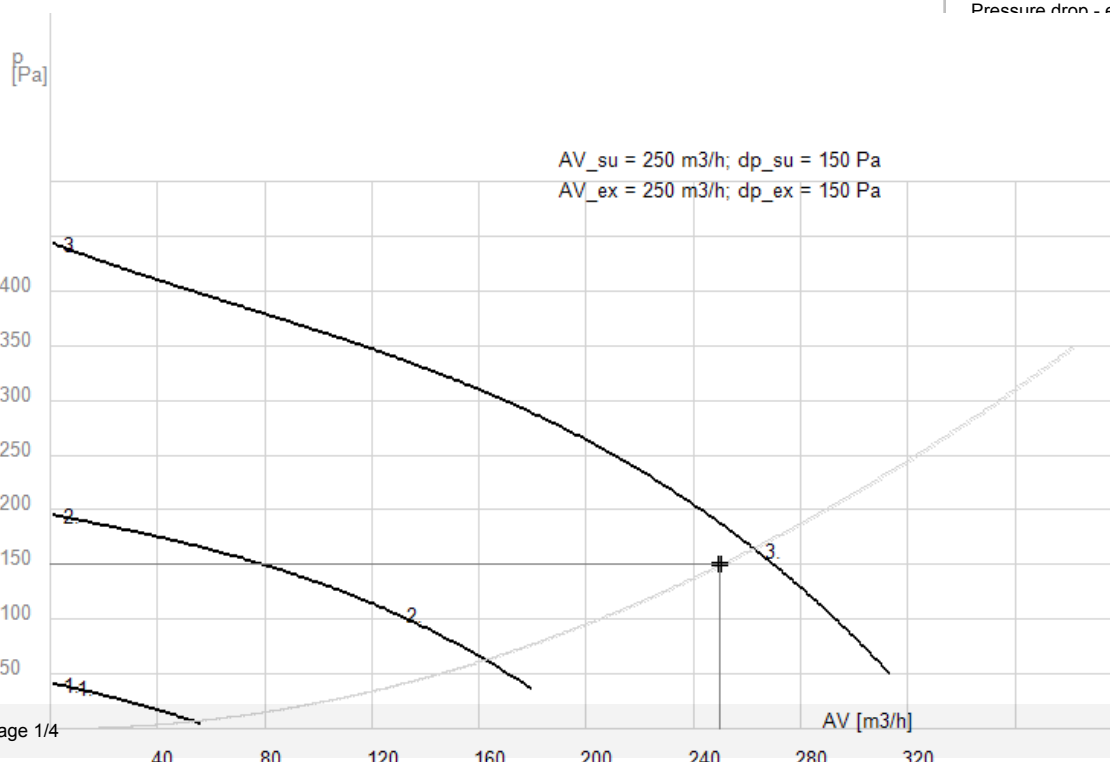
I. F7 plate filter
II. Unspecified

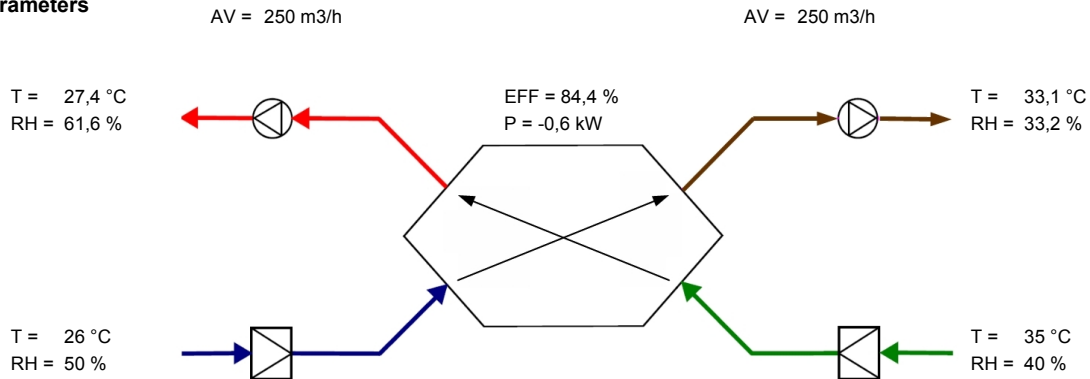
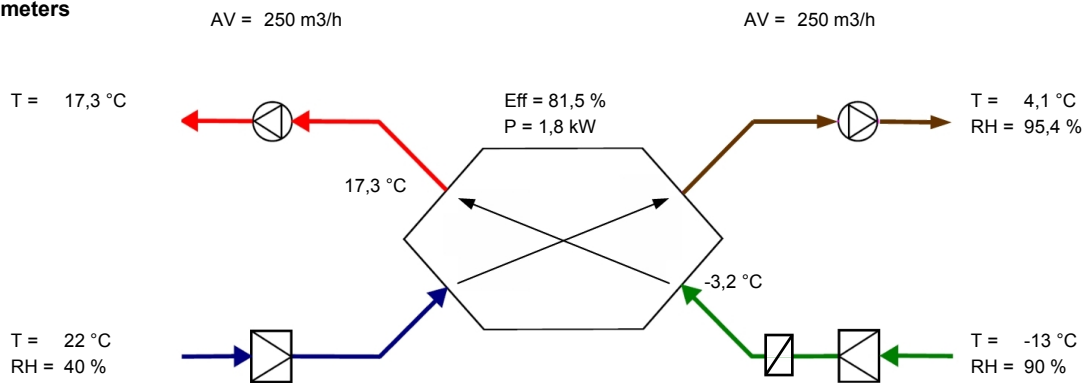
Face air velocity - supply in [m/s]	1,3	m/s
D160 / D160 mm		

Exhaust branch

Airflow volume - exhaust in	250	m ³ /h
Pressure drop - exhaust [Pa]	91	Pa
	-0,5	l/h

Unit characteristics



Summer air parameters

Winter air parameters

HRU units


Airflow volume - supply in	250	m3/h
Airflow volume - exhaust in	250	m3/h
Temperature - supply in	-3,2	°C
Temperature - exhaust in	22	°C
Rel. humidity - supply in	90	%
Rel. humidity - exhaust in	40	%
Condensation - supply	0	l/h
Condensation - exhaust	-0,5	l/h
Temperature - supply out	17,3	°C
Temperature - exhaust out	4,1	°C
Rel. humidity - supply out	21,8	%
Rel. humidity - exhaust out	95,4	%
Exchange efficiency - supply	81,5	%
Exchange efficiency - exhaust	71	%
Heat recovery - supply	1,8	kW
Heat recovery - exhaust	-1,8	kW



Airflow volume - supply in	250	m3/h
Airflow volume - exhaust in	250	m3/h
Temperature - supply in	35	°C
Temperature - exhaust in	26	°C
Rel. humidity - supply in	40	%
Rel. humidity - exhaust in	50	%
Condensation - supply	0	l/h
Condensation - exhaust	0	l/h
Temperature - supply out	27,4	°C
Temperature - exhaust out	33,1	°C
Rel. humidity - supply out	61,6	%
Rel. humidity - exhaust out	33,2	%
Exchange efficiency - supply	84,4	%
Exchange efficiency - exhaust	78,9	%
Heat recovery - supply	-0,6	kW
Heat recovery - exhaust	0,6	kW

Noise characteristics

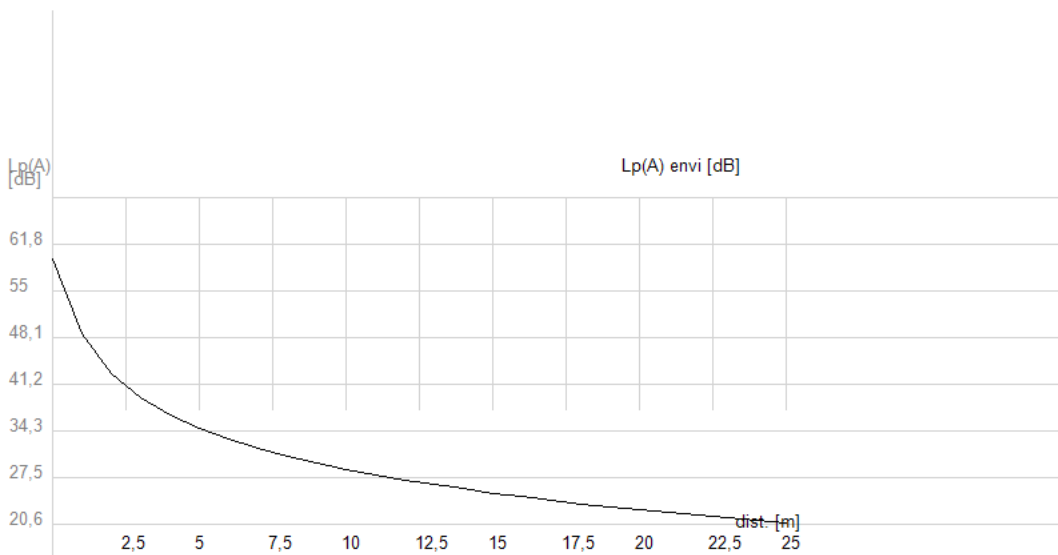
26/2/2016

Distance 1 m:

AV [m ³ /h]	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	total
Lw(A) su	43,9	49	54,4	56	50,9	46,2	34,7	16	59,8
Lw(A) ex	51,6	60,5	61,6	60,2	58,2	60,7	54,8	44,4	67,8
Lw(A) envi	33,2	43	52,5	54,6	53,7	52,1	43,2	30,4	59,7
Lp(A) envi	22,2	32	41,5	43,6	42,7	41,1	32,2	19,4	48,7

Distance 3 m:

AV [m ³ /h]	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	total
Lw(A) su	43,9	49	54,4	56	50,9	46,2	34,7	16	59,8
Lw(A) ex	51,6	60,5	61,6	60,2	58,2	60,7	54,8	44,4	67,8
Lw(A) envi	33,2	43	52,5	54,6	53,7	52,1	43,2	30,4	59,7
Lp(A) envi	12,6	22,5	31,9	34,1	33,2	31,6	22,7	9,8	39,2



Accessories

26/2/2016

N/A

Regulation

Antifreeze protection	yes
Freecooling	yes
Boost function	yes
Possibility to set the offset exhaust fan	yes
Control of supply flaps	yes
Possibility of regulation by CO2 sensors, or PIR RH	yes
Error signalization	yes
An integrated preheating	yes
An automatic preheater power regulation	yes