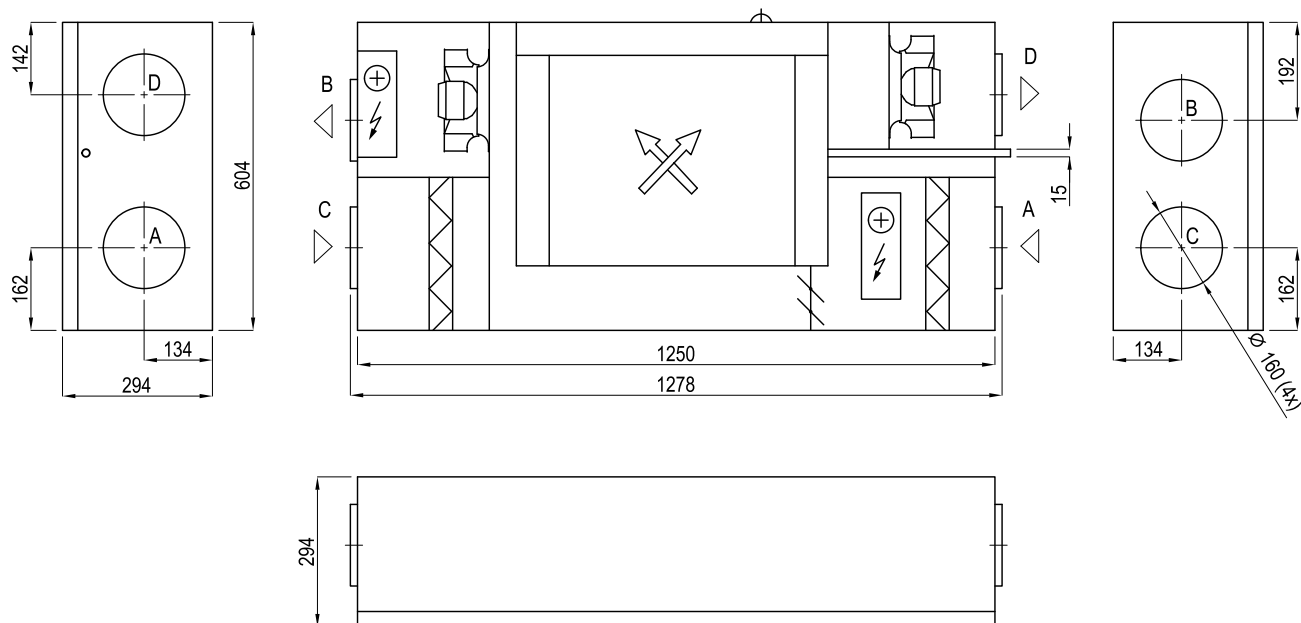


Date: 21-Feb-22

Air handling unit model:

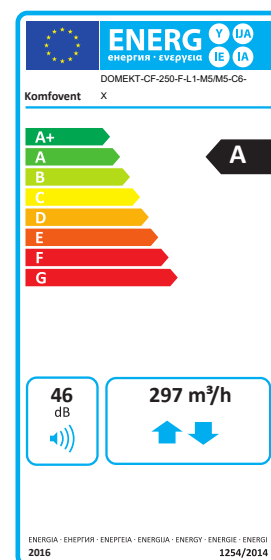
DOMEKT-CF-250-F-L1-M5/M5-C6-X



A - outdoor intake
B - supply air
C - extract indoor
D - exhaust air

TECHNICAL SPECIFICATION

Unit category		RVU
Unit type		BVU
Type of HRS		Counter flow heat exchanger
Panel thickness	[mm]	30
Dimensions bxxhxl	[mm]	605×295×1252
Duct connection	[mm]	4×160
Filter dimensions bxxhxl	[mm]	265×250×46
Mass	[kg]	52
Max current	[A]	8.3
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		False ceiling
Inspection side		Left
Heater		Electric
Motor type		EC motor
Controller		C6
SPI	[W/(m³/h)]	0.29



INPUT DATA

UAB Komfovent, Ozo g. 10, LT-08200 Vilnius, tel. +370 (5) 230 05 85, info@komfovent.com <https://www.komfovent.com>

Domekt 1.23.0 21-Feb-22

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Supply

Nominal flow rate	[m³/h]	100
Nominal external pressure (ΔP_s , ext.)	[Pa]	120

Exhaust

Nominal flow rate	[m³/h]	100
Nominal external pressure (ΔP_s , ext.)	[Pa]	120

Climate parameters

Winter

Outdoor temperature	[°C]	-10
Outdoor relative humidity	[%]	80

Summer

Outdoor temperature	[°C]	38
Outdoor relative humidity	[%]	35

Set point temperature

Winter	[°C]	21
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CALCULATION DATA IN SPECIFIED WORKING POINT

Filter data

		Supply	Exhaust
Filter class(EN ISO 16890)		ePM10 50% (M5)	ePM10 50% (M5)
Pressure drop (clean filter)	[Pa]	8	8

Electric preheater data

		Winter
Capacity	[kW]	0.34
Inlet temperature	[°C]	-10
Relative humidity at inlet	[%]	80
Outlet temperature	[°C]	0
Outlet rel. humidity	[%]	34
Max power	[kW]	1

Heat exchanger data

		Winter		Summer	
		Supply	Exhaust	Supply	Exhaust
Actual temp. efficiency	[%]	95.2		92.6	
Dry temp. efficiency	[%]	92.6		92.6	
Energy recovery	[kW]	0.8		-0.4	
Face velocity	[m/s]	0.7	0.7	0.7	0.7
Pressure drop	[Pa]	48	48	48	48
Inlet temperature	[°C]	0	24	38	26

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Inlet rel. humidity	[%]	34	45	35	55
Outlet temperature	[°C]	22.8	6.7	26.9	37.1
Outlet rel. humidity	[%]	7	100	65	29
Condensation	[kg/h]		0.3		0

Electric heater data

		Winter
Capacity	[kW]	0
Outlet temperature	[°C]	22.8
Outlet rel. humidity	[%]	7.5
Max power	[kW]	0.5

Fans data

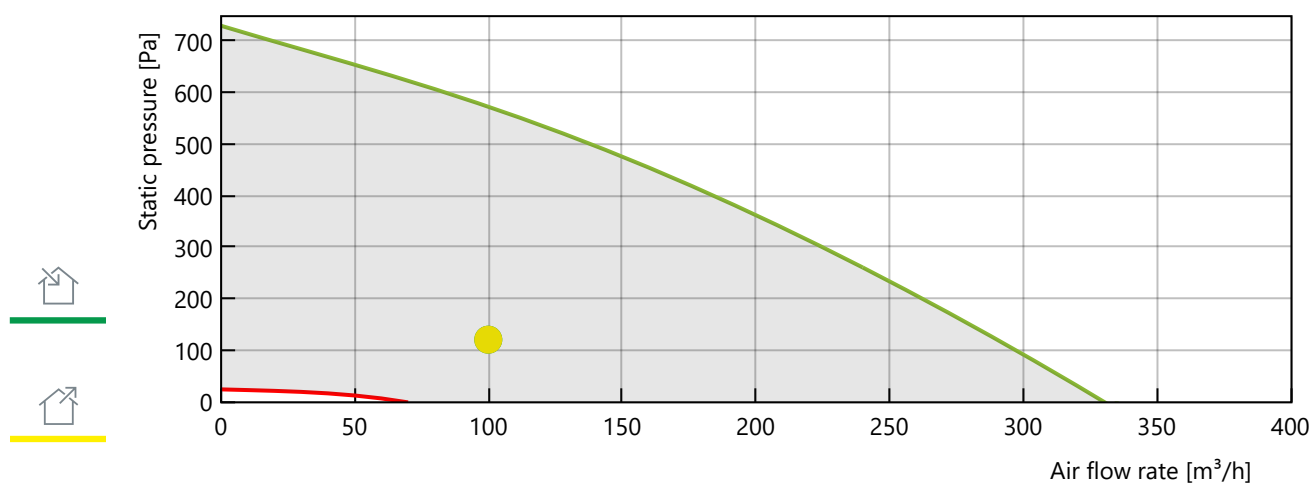
Input power	[W]	85	
Max current	[A]	0.8	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	27	
		Supply	Exhaust
Rotating speed	[RPM]	2243	2243
Running current	[A]	0.16	0.16
Static pressure	[Pa]	170	170
Usable power	[W]	18	18
Specific fan power	[kW/(m³/s)]	0.63	0.63

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	50	57	54	53	50	44	37	30	54
Supply Lw	[dB]	59	66	65	64	60	56	51	42	65
Extract Lw	[dB]	50	57	54	53	50	44	38	31	54
Exhaust Lw	[dB]	59	66	65	64	60	57	51	43	65
Casing Lw	[dB]	50	52	47	32	28	23	13	7	41
Casing Lp 1 m	[dB]	46	49	42	28	25	19	9	4	37
Casing Lp 3 m	[dB]	41	44	33	20	19	12	3	0	31

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PLOT



Instructions

<https://www.komfovent.com/>

Domekt manual version: 21-03

Control manual version: 20-03