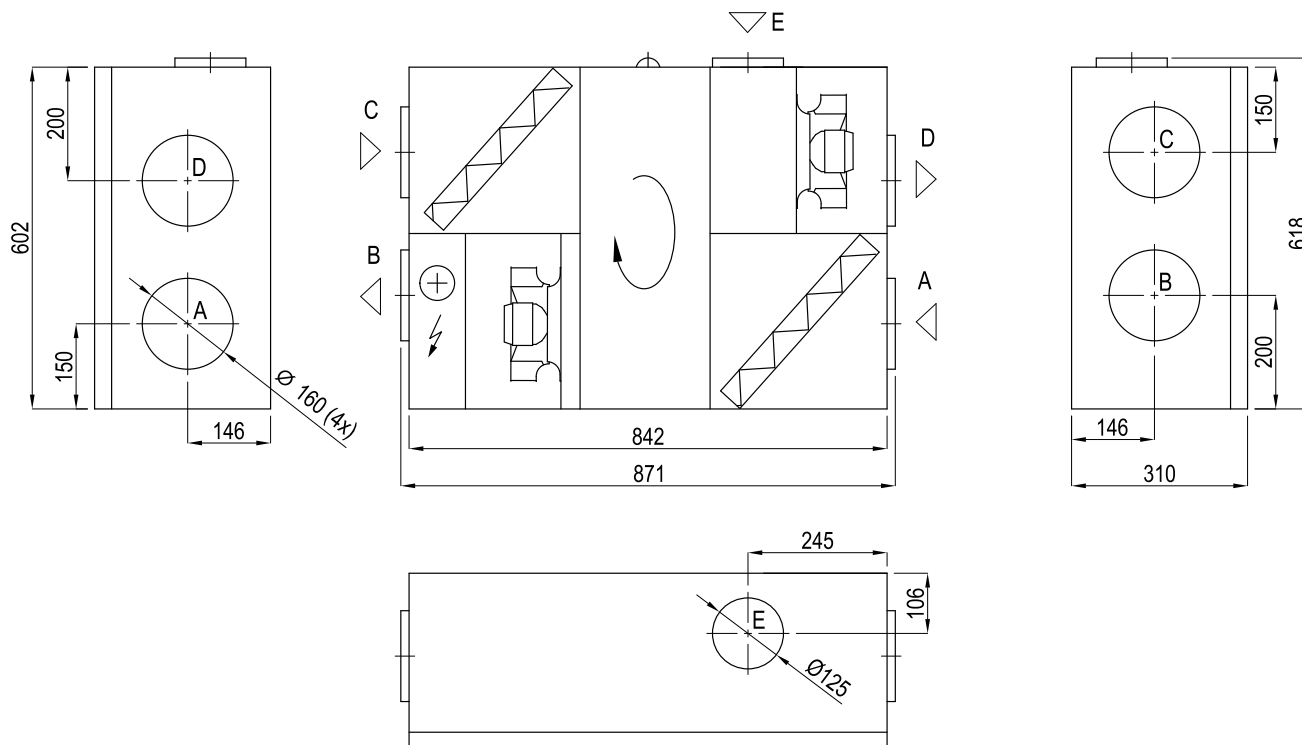


Date: 21-Feb-22

Air handling unit model:

DOMEKT-R-250-F-L2-M5/M5-C6-L/A



A - outdoor intake

B - supply air

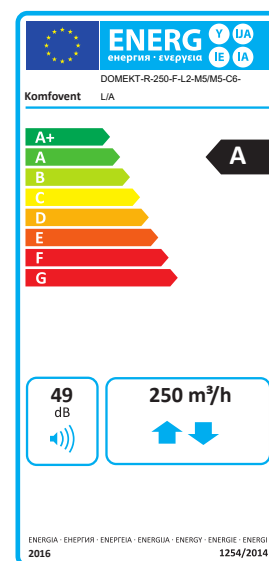
C - extract indoor

D - exhaust air

E - additional extraction connection (by-pass extraction without heat recovery)

TECHNICAL SPECIFICATION

Unit category		RVU
Unit type		BVU
Type of HRS		Rotary Heat Exchanger
Panel thickness	[mm]	50
Dimensions b×h×l	[mm]	605×310×845
Duct connection	[mm]	4×160 1×125
Filter dimensions b×h×l	[mm]	278×258×46
Mass	[kg]	40
Max current	[A]	6.1
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		False ceiling
Inspection side		Left
Heater		Electric
Motor type		EC motor
Controller		C6



DOMEKT-R-250-F-L2-M5/M5-C6-L/A

SPI [W/(m³/h)] 0.45

INPUT DATA

Supply

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

Exhaust

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

Climate parameters

Winter

Outdoor temperature	[°C]	-5
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]	6	6

Heat exchanger data

		Winter		Summer	
		Supply	Exhaust	Supply	Exhaust
Actual temp. efficiency	[%]	85.1		85.1	
Humidity efficiency	[%]	47.7		0.0	
Face velocity	[m/s]	1.5	1.5	1.5	1.5
Pressure drop	[Pa]	77	77	77	77
Inlet temperature	[°C]	-5	21	38	26
Inlet rel. humidity	[%]	80	45	35	55
Outlet temperature	[°C]	17.1	-1.1	27.8	36.2
Outlet rel. humidity	[%]	36	95	62	31

Energy recovery

Sensible heat	[kW]	0.7	-0.4
Latent heat	[kW]	0.2	0

DOMEKT-R-250-F-L2-M5/M5-C6-L/A

Total heat	[kW]	0.9	-0.4
OACF		1.17	1.17

Electric heater data

Winter			
Capacity	[kW]	0.13	
Outlet temperature	[°C]	21	
Outlet rel. humidity	[%]	28.3	
Max power	[kW]	1	

Fans data

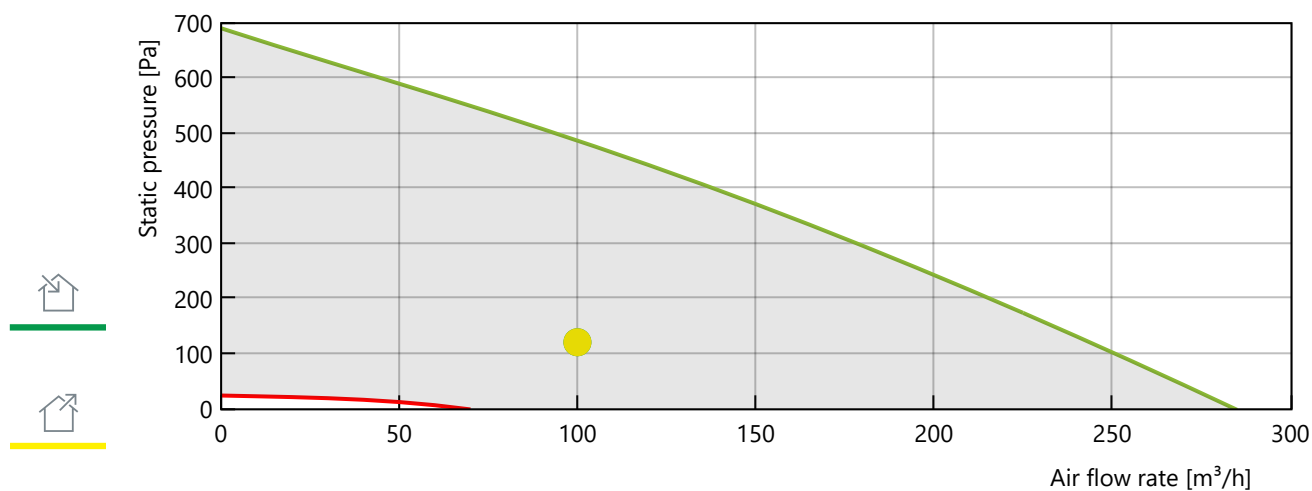
Input power	[W]	85	
Max current	[A]	0.8	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	26	
		Supply	Exhaust
Rotating speed	[RPM]	2736	2736
Running current	[A]	0.26	0.26
Static pressure	[Pa]	257	257
Usable power	[W]	28	28
Specific fan power	[kW/(m³/s)]	1	1

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	56	63	62	61	56	54	48	39	62
Supply Lw	[dB]	63	72	70	70	66	62	57	49	71
Extract Lw	[dB]	56	63	62	61	56	54	48	39	62
Exhaust Lw	[dB]	63	72	70	70	66	63	58	50	71
Casing Lw	[dB]	54	58	52	37	33	27	17	10	46
Casing Lp 1 m	[dB]	51	54	47	33	29	23	13	7	42
Casing Lp 3 m	[dB]	46	50	38	25	23	16	6	0	36

DOMEKT-R-250-F-L2-M5/M5-C6-L/A

PLOT



Instructions

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

Domekt manual version: 21-03

Control manual version: 20-03