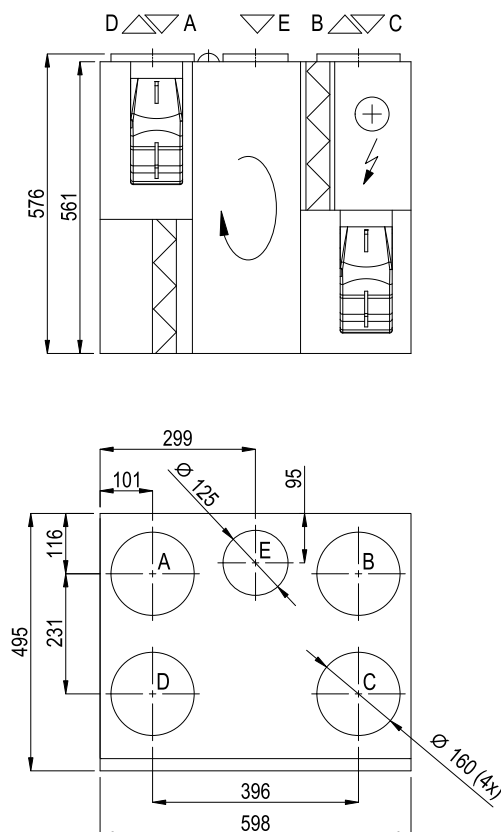


Date: 21-Feb-22

Air handling unit model:

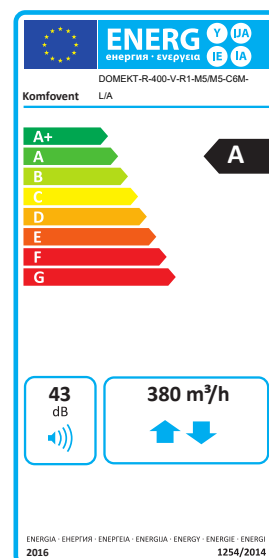
DOMEKT-R-400-V-R1-M5/M5-C6M-L/A



- 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]	30
Dimensions bxxhxl	[mm]	495×561×598
Duct connection	[mm]	4×160 1×125
Filter dimensions bxxhxl	[mm]	428×231×46
Mass	[kg]	49
Max current	[A]	6.5
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		Vertical
Inspection side		Right



DOMEKT-R-400-V-R1-M5/M5-C6M-L/A

Heater	Electric
Motor type	EC motor
Controller	C6M
SPI	[W/(m³/h)] 0.3

INPUT DATA

Supply		
Nominal flow rate	[m³/h]	180
Nominal external pressure (ΔPs, ext.)	[Pa]	120
Exhaust		
Nominal flow rate	[m³/h]	180
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

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] 9	9

Heat exchanger data

		Winter		Summer	
		Supply	Exhaust	Supply	Exhaust
Actual temp. efficiency	[%]	86.0		86.0	
Humidity efficiency	[%]	55.1		0.0	
Face velocity	[m/s]	1	1	1	1
Pressure drop	[Pa]	52	52	52	52
Inlet temperature	[°C]	-5	21	38	26
Inlet rel. humidity	[%]	80	45	35	55
Outlet temperature	[°C]	17.4	-1.4	27.7	36.3
Outlet rel. humidity	[%]	38	95	63	31

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Energy recovery

Sensible heat	[kW]	1.4	-0.6
Latent heat	[kW]	0.4	0
Total heat	[kW]	1.8	-0.6
OACF		1.15	1.15

Electric heater data

		Winter	
Capacity	[kW]	0.22	
Outlet temperature	[°C]	21	
Outlet rel. humidity	[%]	30.7	
Max power	[kW]	1	

Fans data

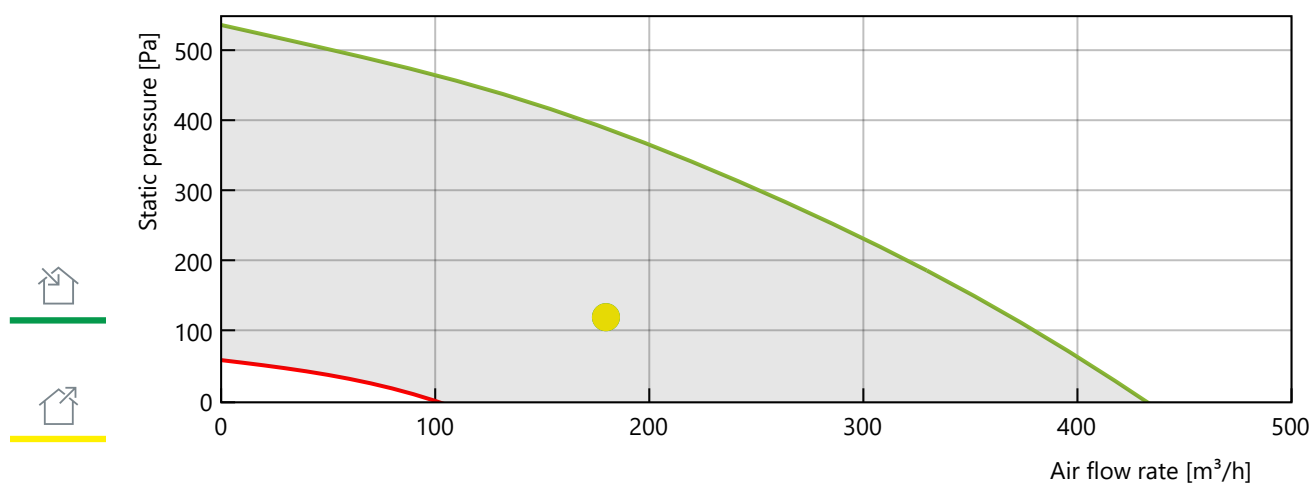
Input power	[W]	118	
Max current	[A]	1	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	38	
		Supply	Exhaust
Rotating speed	[RPM]	1832	1832
Running current	[A]	0.26	0.26
Static pressure	[Pa]	216	216
Usable power	[W]	25	25
Specific fan power	[kW/(m³/s)]	0.51	0.51

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	57	54	51	50	48	48	44	38	54
Supply Lw	[dB]	67	69	66	65	60	59	56	51	67
Extract Lw	[dB]	57	54	51	50	48	48	44	38	54
Exhaust Lw	[dB]	67	69	66	65	60	60	56	52	67
Casing Lw	[dB]	52	50	45	33	29	25	17	12	40
Casing Lp 1 m	[dB]	48	47	41	28	25	21	13	8	36
Casing Lp 3 m	[dB]	44	42	32	21	19	14	7	2	29

DOMEKT-R-400-V-R1-M5/M5-C6M-L/A

PLOT



Instructions

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

Domekt manual version: 21-03

Control manual version: guide_20-08