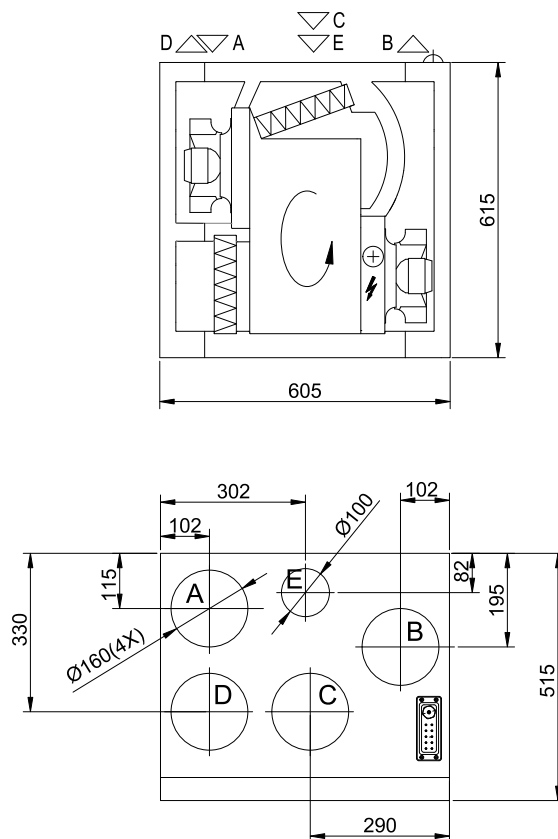


Date: 21-Feb-22

Air handling unit model:

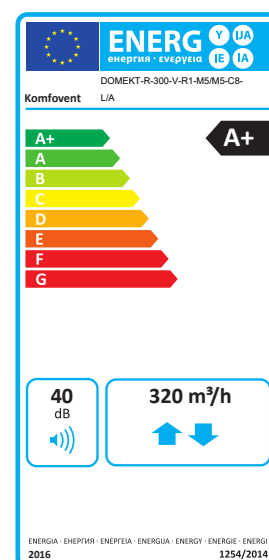
DOMEKT-R-300-V-R1-M5/M5-C8-L/A



- 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]	515×615×605
Duct connection	[mm]	4×160 1×100
Filter dimensions bxxhxl	[mm]	290×205×46
Mass	[kg]	29
Max current	[A]	3.9
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		Vertical
Inspection side		Right



DOMEKT-R-300-V-R1-M5/M5-C8-L/A

Heater	Electric
Motor type	EC motor
Controller	C8
SPI	[W/(m³/h)] 0.28

INPUT DATA

Supply		
Nominal flow rate	[m³/h]	120
Nominal external pressure (ΔPs, ext.)	[Pa]	120
Exhaust		
Nominal flow rate	[m³/h]	120
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] 11	11

Heat exchanger data					
		Winter		Summer	
		Supply	Exhaust	Supply	Exhaust
Actual temp. efficiency	[%]	87.5		87.5	
Humidity efficiency	[%]	55.6		0.0	
Face velocity	[m/s]	1	1	1	1
Pressure drop	[Pa]	50	50	50	50
Inlet temperature	[°C]	-5	21	38	26
Inlet rel. humidity	[%]	80	45	35	55
Outlet temperature	[°C]	17.7	-1.7	27.5	36.5
Outlet rel. humidity	[%]	38	95	63	30

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Energy recovery

Sensible heat	[kW]	0.9	-0.4
Latent heat	[kW]	0.3	0
Total heat	[kW]	1.2	-0.4
OACF		1.16	1.16

Electric heater data

Winter			
Capacity	[kW]	0.13	
Outlet temperature	[°C]	21	
Outlet rel. humidity	[%]	30.8	
Max power	[kW]	0.5	

Fans data

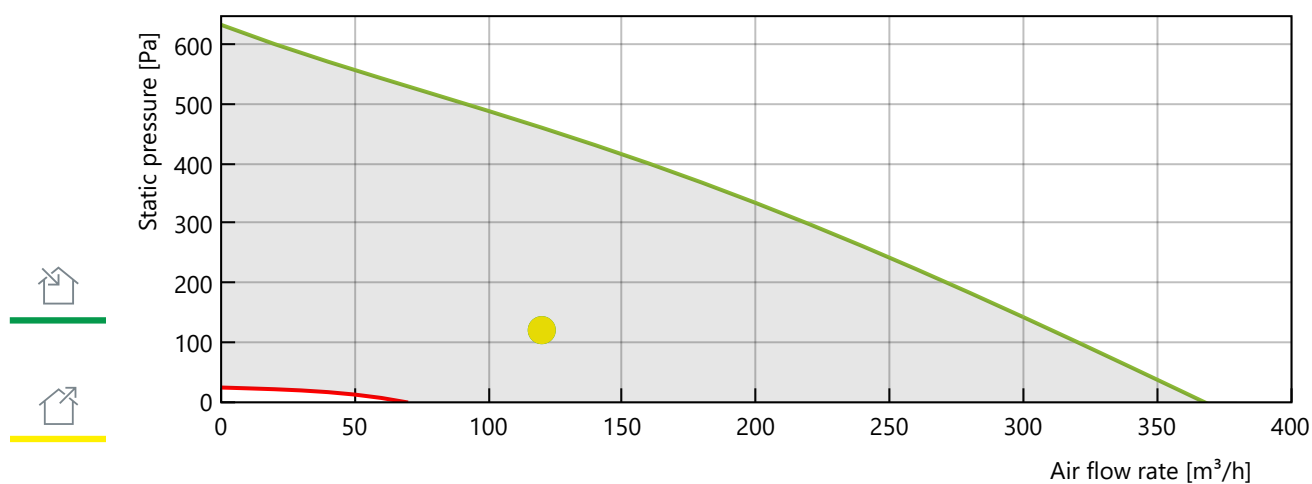
Input power	[W]	85	
Max current	[A]	0.8	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	30	
		Supply	Exhaust
Rotating speed	[RPM]	2396	2396
Running current	[A]	0.2	0.2
Static pressure	[Pa]	192	192
Usable power	[W]	21	21
Specific fan power	[kW/(m³/s)]	0.64	0.64

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	51	55	53	53	50	47	42	33	55
Supply Lw	[dB]	58	63	61	61	59	56	51	43	64
Extract Lw	[dB]	51	55	53	53	50	48	42	33	55
Exhaust Lw	[dB]	58	63	61	61	59	56	51	43	64
Casing Lw	[dB]	47	48	43	30	27	23	13	8	37
Casing Lp 1 m	[dB]	44	45	38	26	24	18	10	4	33
Casing Lp 3 m	[dB]	39	40	29	18	18	11	3	0	27

DOMEKT-R-300-V-R1-M5/M5-C8-L/A

PLOT



Instructions

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

Domekt manual version: 21-03

Control manual version: guide_21-01