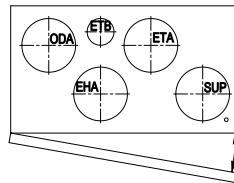
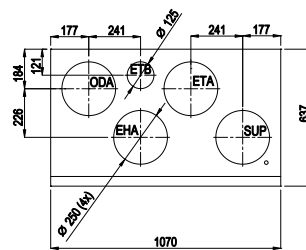
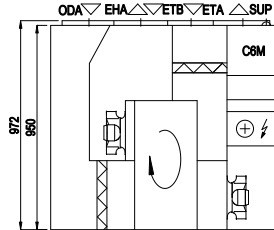


Date: 17/01/2023

Air handling unit model:

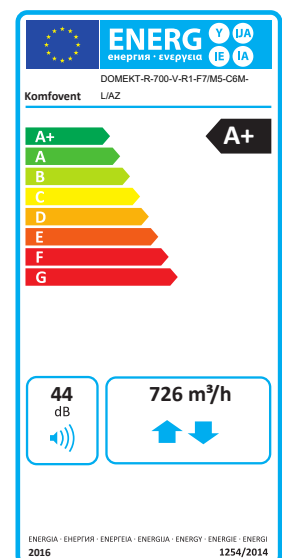
DOMEKT-R-700-V-R1-F7/M5-C6M-L/AZ



- ODA - outdoor air
- SUP - supply air
- ETA - extract air
- EHA - exhaust air
- ETB - by-pass extraction without heat recovery

TECHNICAL SPECIFICATION

Unit category		RVU
Unit type		BVU
Type of HRS		Rotary Heat Exchanger
Panel thickness	[mm]	45
Dimensions bxxhxl	[mm]	637×950×1070
Duct connection	[mm]	4×250 1×125
Filter dimensions bxxhxl	[mm]	540×260×46
Mass	[kg]	110
Max current	[A]	11.6
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		Vertical
Inspection side		Right



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Heater		Electric
Motor type		EC motor
Controller		C6M
SPI	[W/(m³/h)]	0.27

INPUT DATA

Supply		
Nominal flow rate	[m³/h]	396
Nominal external pressure (ΔPs, ext.)	[Pa]	150
Exhaust		
Nominal flow rate	[m³/h]	396
Nominal external pressure (ΔPs, ext.)	[Pa]	150
Climate parameters		
Winter		
Outdoor temperature	[°C]	-21.0
Outdoor relative humidity	[%]	90.0
Summer		
Outdoor temperature	[°C]	27.0
Outdoor relative humidity	[%]	50.0
Set point temperature		
Winter	[°C]	18.0

CALCULATION DATA IN SPECIFIED WORKING POINT

AHU data		
SFP	[kW/(m³/s)]	1.34

Filter data			
		Supply	Exhaust
Filter class(EN ISO 16890)		ePM1 55% (F7)	ePM10 50% (M5)
Pressure drop (clean filter)	[Pa]	36	13

Heat exchanger data					
		Winter		Summer	
		Supply	Exhaust	Supply	Exhaust
Actual temp. efficiency	[%]	85.7		85.7	
Humidity efficiency	[%]	89.7		88.8	
Face velocity	[m/s]	1.3	1.3	1.3	1.3
Pressure drop	[Pa]	76	76	76	76
Inlet temperature	[°C]	-21.0	21.0	27.0	25.0
Inlet rel. humidity	[%]	90	20	50	60

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Outlet temperature	[°C]	15.0	-15.0	25.3	26.7
Outlet rel. humidity	[%]	27	77	59	51

Energy recovery

Sensible heat	[kW]	4.8		-0.2	
Latent heat	[kW]	0.8		0.2	
Total heat	[kW]	5.5		0.0	
OACF		1.15		1.15	

Electric heater data

		Winter	
Capacity	[kW]	0.40	
Outlet temperature	[°C]	18.0	
Outlet rel. humidity	[%]	22.1	
Max power	[kW]	2.0	

Fans data

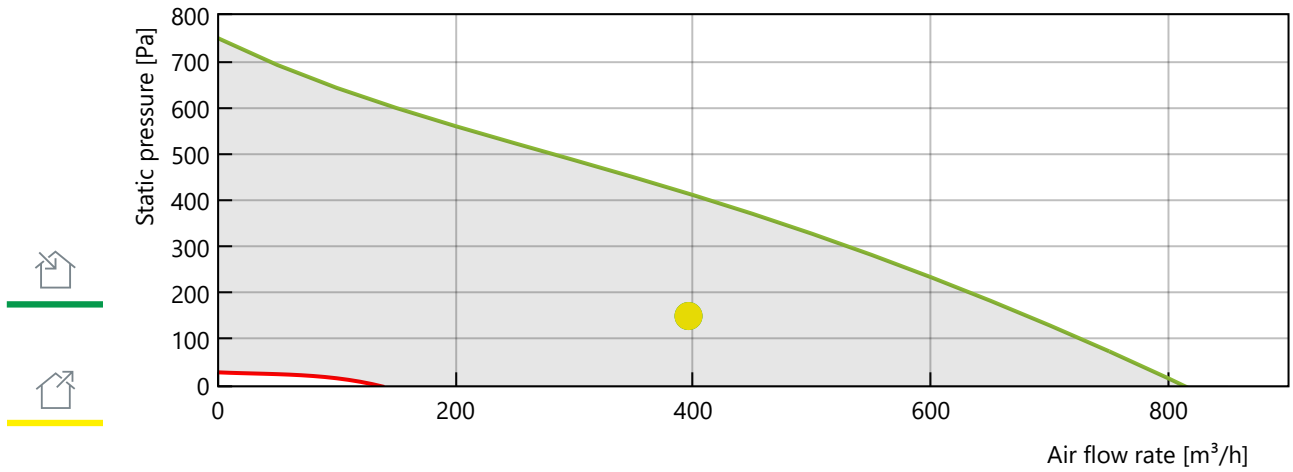
Input power	[W]	170.0	
Max current	[A]	1.4	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	47	
		Supply	Exhaust
Rotating speed	[RPM]	2,238	2,158
Running current	[A]	0.62	0.57
Static pressure	[Pa]	320	295
Usable power	[W]	77	71
Specific fan power	[kW/(m³/s)]	0.70	0.64

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	56	55	57	57	54	50	44	37	59
Supply Lw	[dB]	63	63	66	65	63	58	52	46	67
Extract Lw	[dB]	55	54	56	56	53	49	43	36	58
Exhaust Lw	[dB]	62	62	64	64	62	57	52	46	66
Casing Lw	[dB]	54	53	50	38	35	29	20	14	44
Casing Lp 1 m	[dB]	51	49	46	34	32	25	16	10	40
Casing Lp 3 m	[dB]	46	44	37	26	26	18	10	4	33

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PLOT



Instructions

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