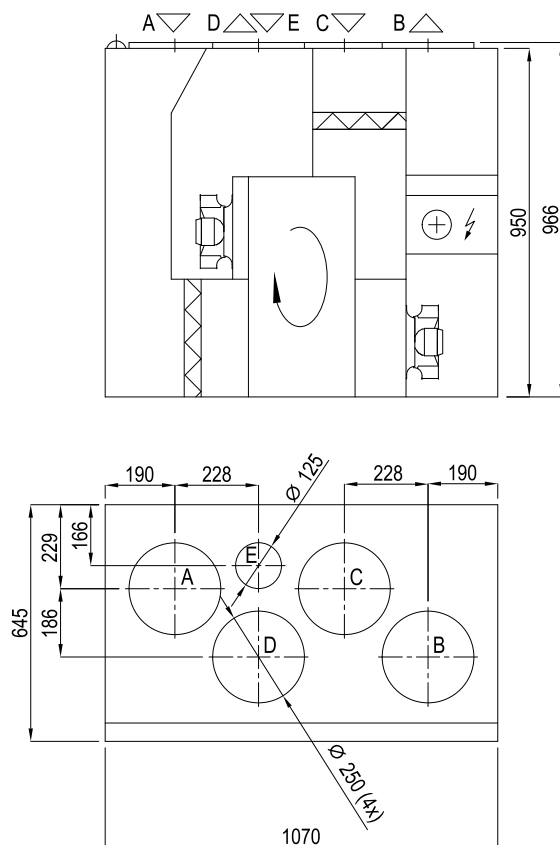


Date: 10/16/2020

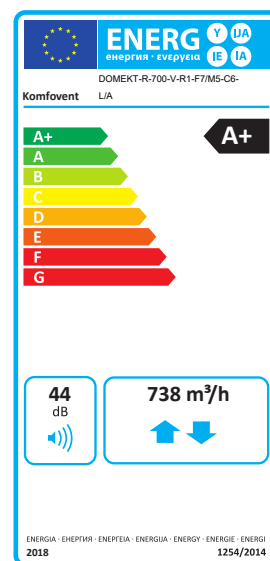
Air handling unit model:



- 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 bxxhxl	[mm]	645×950×1070
Duct connection	[mm]	4×250 1×125
Filter dimensions bxxhxl	[mm]	540×260×46
Mass	[kg]	114
Max current	[A]	11.7
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		Vertical
Inspection side		Right



Heater		Electric
Motor type		EC motor
Controller		C6
SPI	[W/(m³/h)]	0.26

INPUT DATA

Supply		
Nominal flow rate	[m³/h]	558
Nominal external pressure (ΔPs, ext.)	[Pa]	205
Exhaust		
Nominal flow rate	[m³/h]	558
Nominal external pressure (ΔPs, ext.)	[Pa]	205
Climate parameters		
Winter		
Outdoor temperature	[°C]	-24
Outdoor relative humidity	[%]	80
Set point temperature		
Winter	[°C]	20

CALCULATION DATA IN SPECIFIED WORKING POINT

Filter data			
		Supply	Exhaust
Filter class(EN ISO 16890)		ePM1 55% (F7)	ePM10 50% (M5)
Pressure drop (clean filter)	[Pa]	48	28

Heat exchanger data				
		Winter		
		Supply	Exhaust	
Actual temp. efficiency	[%]	83.5		
Humidity efficiency	[%]	51.8		
Face velocity	[m/s]	1.8	1.8	
Pressure drop	[Pa]	100	100	
Inlet temperature	[°C]	-24	21	
Inlet rel. humidity	[%]	80	40	
Outlet temperature	[°C]	13.6	-16.6	
Outlet rel. humidity	[%]	35	95	
Energy recovery				
Sensible heat	[kW]	7.1		
Latent heat	[kW]	1.4		

Total heat	[kW]	8.5
OACF		1.46

Electric heater data

		Winter
Capacity	[kW]	1.21
Outlet temperature	[°C]	20
Outlet rel. humidity	[%]	23.3
Max power	[kW]	2

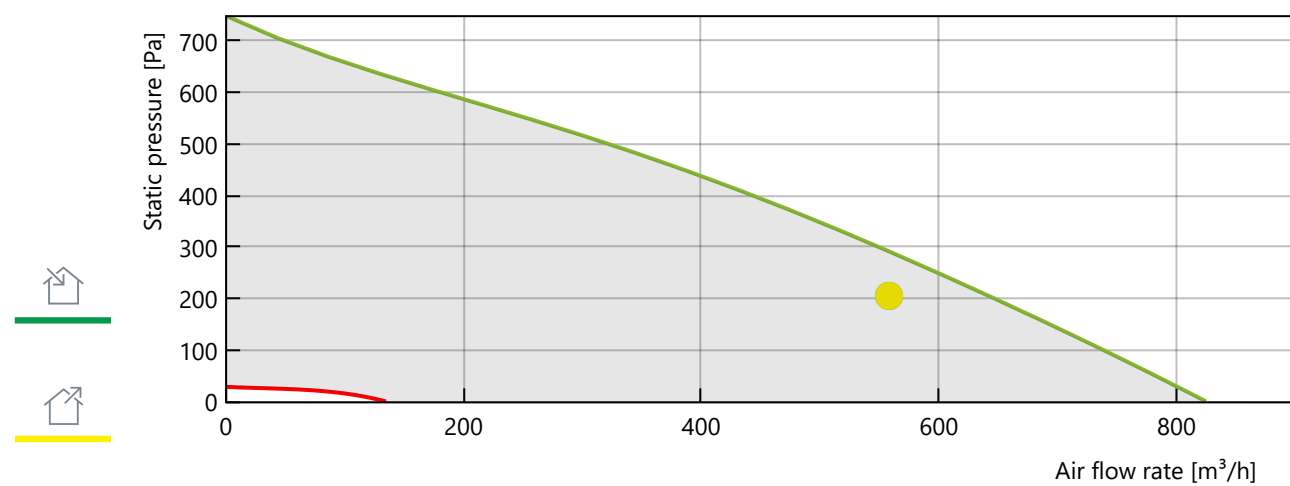
Fans data

Input power	[W]	170	
Max current	[A]	1.4	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	50	
		Supply	Exhaust
Rotating speed	[RPM]	2689	2635
Running current	[A]	1.14	1.08
Static pressure	[Pa]	446	426
Usable power	[W]	143	135
Specific fan power	[kW/(m³/s)]	0.92	0.87

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	64	56	59	60	56	52	47	41	61
Supply Lw	[dB]	64	64	67	69	66	60	56	51	70
Extract Lw	[dB]	64	55	58	60	56	52	47	41	61
Exhaust Lw	[dB]	63	64	66	68	65	60	56	52	70
Casing Lw	[dB]	60	56	54	45	42	35	27	22	49
Casing Lp 1 m	[dB]	56	52	50	41	38	31	23	18	45
Casing Lp 3 m	[dB]	51	48	41	33	32	24	17	11	38

PLOT



Instructions

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

Domekt manual version: 20-05

Control manual version: 20-03

