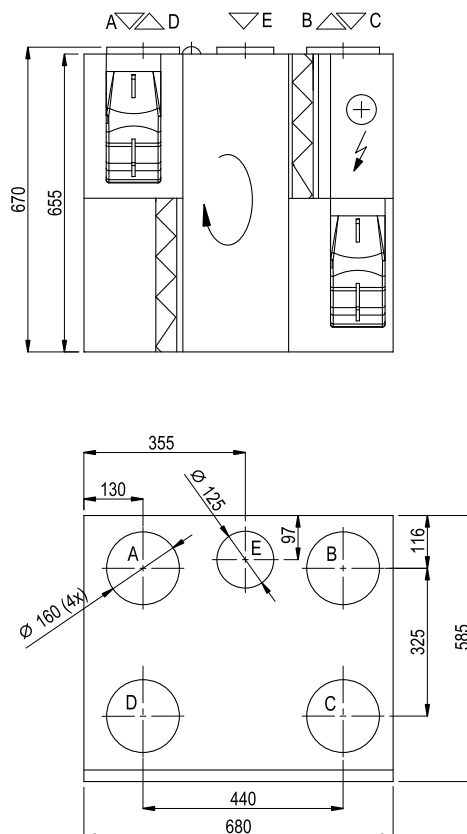


Date: 05/11/2022

Air handling unit model:

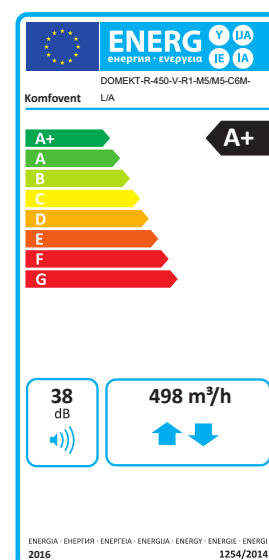
DOMEKT-R-450-V-R1-M5/M5-C6M-L/A



- 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]	45
Dimensions bxxhxl	[mm]	585×655×680
Duct connection	[mm]	4×160 1×125
Filter dimensions bxxhxl	[mm]	517×278×46
Mass	[kg]	60
Max current	[A]	6.5
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		Vertical
Inspection side		Right



DOMEKT-R-450-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]	260
Nominal external pressure (ΔPs, ext.)	[Pa]	155
Exhaust		
Nominal flow rate	[m³/h]	260
Nominal external pressure (ΔPs, ext.)	[Pa]	155
Climate parameters		
Winter		
Outdoor temperature	[°C]	-21
Outdoor relative humidity	[%]	90
Summer		
Outdoor temperature	[°C]	28
Outdoor relative humidity	[%]	50
Set point temperature		
Winter	[°C]	18

CALCULATION DATA IN SPECIFIED WORKING POINT

AHU data		
SFP	[kW/(m³/s)]	1.11
Filter data		
	Supply	Exhaust
Filter class(EN ISO 16890)	ePM10 50% (M5)	ePM10 50% (M5)
Pressure drop (clean filter)	[Pa]	10
Heat exchanger data		
	Winter	Summer
	Supply	Exhaust
Actual temp. efficiency	[%]	85.9
Humidity efficiency	[%]	34.2
Face velocity	[m/s]	0.9
Pressure drop	[Pa]	46
Inlet temperature	[°C]	-21
Inlet rel. humidity	[%]	90

DOMEKT-R-450-V-R1-M5/M5-C6M-L/A

Outlet temperature	[°C]	15.1	-15.1	24.6	27.4
Outlet rel. humidity	[%]	16	95	61	41

Energy recovery

Sensible heat	[kW]	3.2	-0.3
Latent heat	[kW]	0.2	0
Total heat	[kW]	3.4	-0.3
OACF		1.14	1.14

Electric heater data

		Winter
Capacity	[kW]	0.25
Outlet temperature	[°C]	18
Outlet rel. humidity	[%]	13
Max power	[kW]	1

Fans data

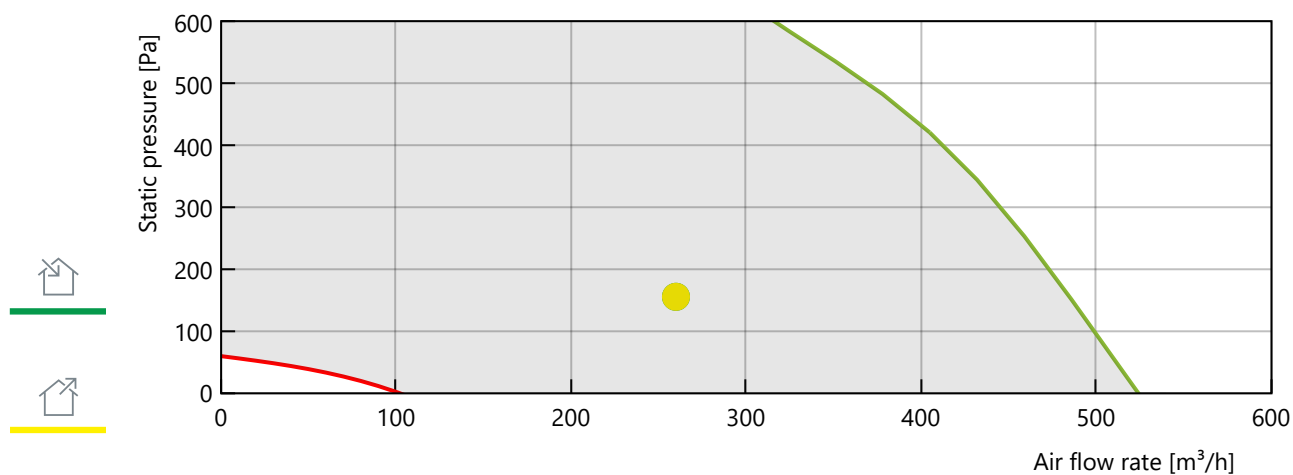
Input power	[W]	170	
Max current	[A]	1.5	
Nominal voltage	[V]	230	
Overall efficiency	[%]	39	
		Supply	Exhaust
Rotating speed	[RPM]	1678	1678
Running current	[A]	0.39	0.39
Static pressure	[Pa]	211	211
Usable power	[W]	40	40
Specific fan power	[kW/(m³/s)]	0.55	0.55

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	59	52	49	51	50	47	43	37	54
Supply Lw	[dB]	62	59	56	58	61	56	52	48	64
Extract Lw	[dB]	59	52	49	51	50	48	44	38	55
Exhaust Lw	[dB]	62	59	56	58	61	56	52	48	64
Casing Lw	[dB]	50	42	37	30	28	24	17	12	35
Casing Lp 1 m	[dB]	47	39	33	25	24	20	13	8	31
Casing Lp 3 m	[dB]	42	34	24	18	19	13	7	2	24

DOMEKT-R-450-V-R1-M5/M5-C6M-L/A

PLOT



Instructions

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