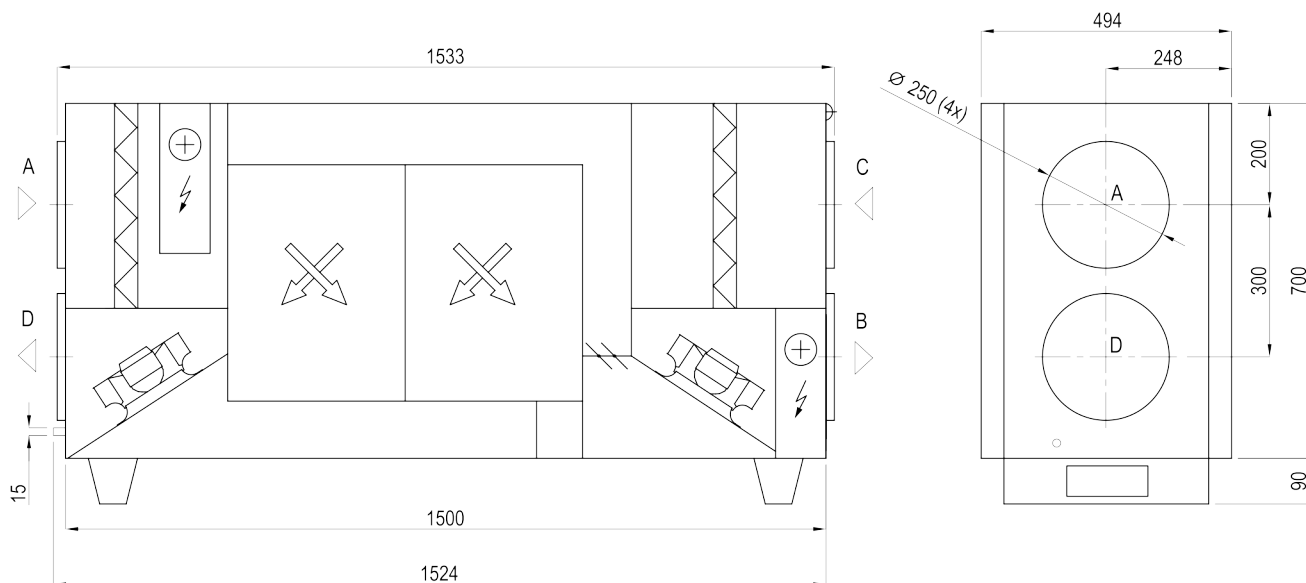


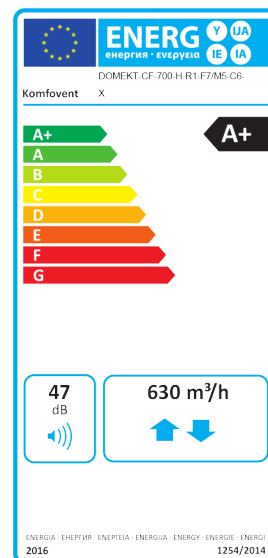
DOMEKT-CF-700-H-R1-F7/M5-C6-X



- A - outdoor intake
- B - supply air
- C - extract indoor
- D - exhaust air

TECHNICAL SPECIFICATION

Unit category		RVU
Unit type		BVU
Type of HRS		Counter flow heat exchanger
Panel thickness	[mm]	45
Dimensions b×h×l	[mm]	490×700×1500
Duct connection	[mm]	4×250
Filter dimensions b×h×l	[mm]	390×300×46
Mass	[kg]	115
Max current	[A]	11,7
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		Horizontal
Inspection side		Right
Heater		Electric
Motor type		EC motor
Controller		C6
SPI	[W/(m³/h)]	0,29



INPUT DATA

Supply

Nominal flow rate	[m ³ /h]	550
Nominal external pressure (ΔP_s , ext.)	[Pa]	125

Exhaust

Nominal flow rate	[m ³ /h]	550
Nominal external pressure (ΔP_s , ext.)	[Pa]	125

Climate parameters

Winter

Outdoor temperature	[°C]	-12
Outdoor relative humidity	[%]	90

Summer

Outdoor temperature	[°C]	27
Outdoor relative humidity	[%]	60

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]	61	37

Electric preheater data

		Winter	
Capacity	[kW]	1,5	
Inlet temperature	[°C]	-12	
Relative humidity at inlet	[%]	90	
Outlet temperature	[°C]	-3,9	
Outlet rel. humidity	[%]	44,3	
Max power	[kW]	1,5	

Heat exchanger data

		Winter		Summer	
		Supply	Exhaust	Supply	Exhaust
Actual temp. efficiency	[%]	90,6		86,7	
Dry temp. efficiency	[%]	87,1		86,7	
Energy recovery	[kW]	4,2		-0,5	
Face velocity	[m/s]	1,2	1,2	1,2	1,2
Pressure drop	[Pa]	138	138	138	138
Inlet temperature	[°C]	-3,9	22	27	24

Inlet rel. humidity	[%]	44	40	60	55
Outlet temperature	[°C]	19,6	3,5	24,4	26,6
Outlet rel. humidity	[%]	10	100	70	47
Condensation	[kg/h]		1,1		0

Electric heater data

		Winter	
Capacity	[kW]	0,08	
Outlet temperature	[°C]	20	
Outlet rel. humidity	[%]	9,3	
Max power	[kW]	0,5	

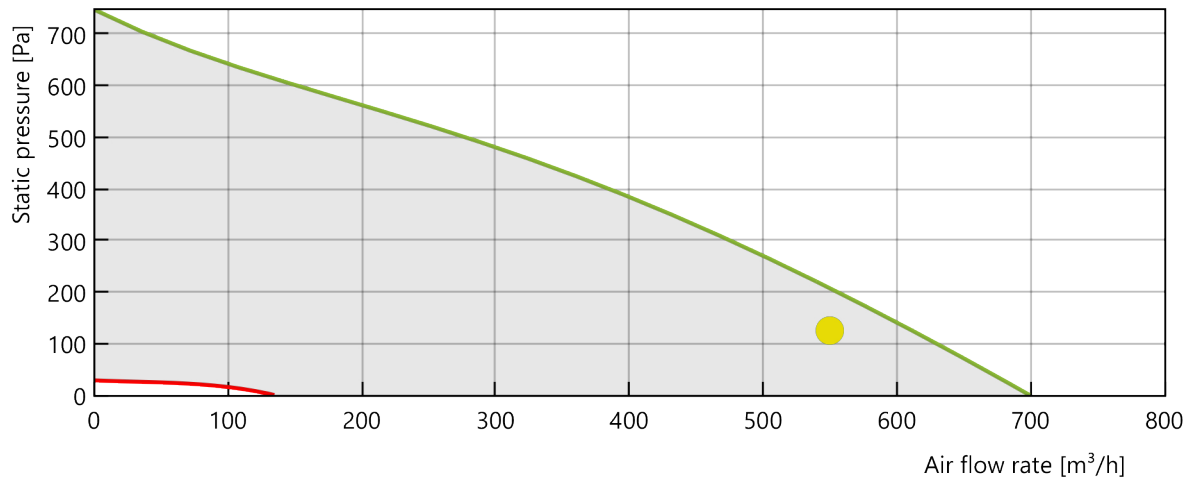
Fans data

Input power	[W]	170	
Max current	[A]	1,4	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	50	
		Supply	Exhaust
Rotating speed	[RPM]	2703	2637
Running current	[A]	1,14	1,08
Static pressure	[Pa]	453	429
Usable power	[W]	143	135
Specific fan power	[kW/(m ³ /s)]	0,94	0,88

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	50	49	49	50	49	38	34	30	52
Supply Lw	[dB]	66	68	72	73	68	63	59	55	74
Extract Lw	[dB]	50	48	48	49	48	39	34	31	51
Exhaust Lw	[dB]	65	67	71	72	68	62	58	54	73
Casing Lw	[dB]	59	59	59	49	45	39	30	25	53
Casing Lp 1 m	[dB]	56	56	55	45	41	35	27	21	49
Casing Lp 3 m	[dB]	51	51	46	37	35	27	20	15	42

PLOT



Instructions

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

Domekt manual version: 20-05

Control manual version: 20-03