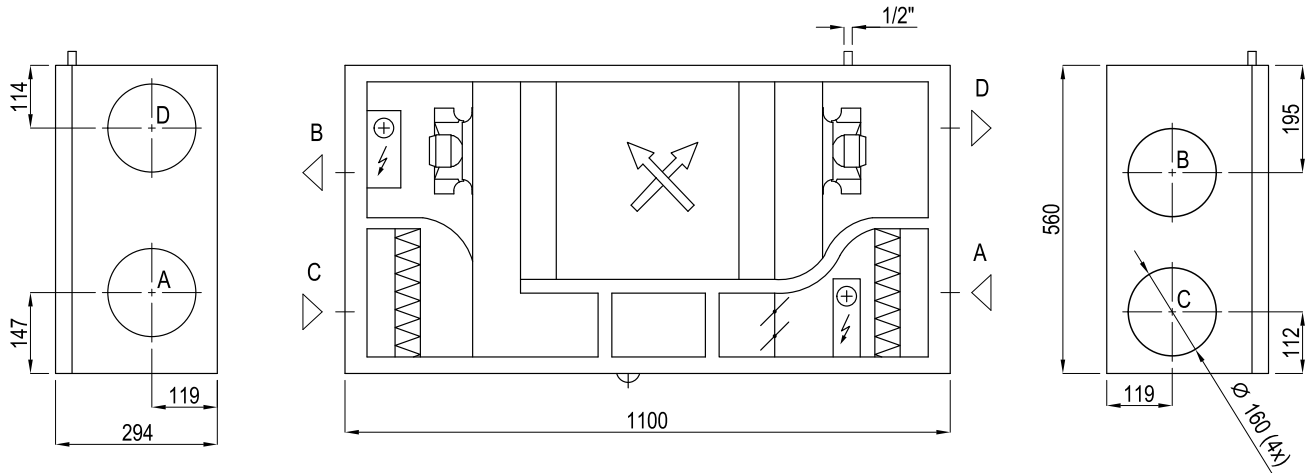


Date: 21-Feb-22

Air handling unit model:

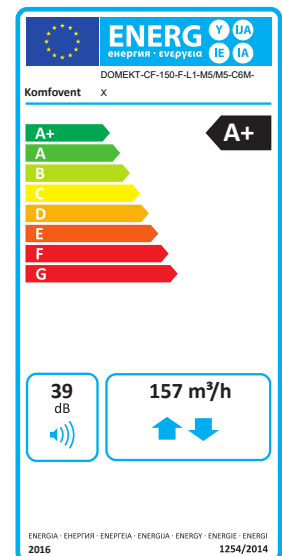
DOMEKT-CF-150-F-L1-M5/M5-C6M-X



- 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]	30
Dimensions b×h×l	[mm]	560×294×1100
Duct connection	[mm]	4×160
Filter dimensions b×h×l	[mm]	250×232×46
Mass	[kg]	29
Max current	[A]	6.1
Supply voltage	[V]	1~ 230
Color		RAL 9003
Version		False ceiling
Inspection side		Left
Heater		Electric
Motor type		EC motor
Controller		C6M
SPI	[W/(m³/h)]	0.2



INPUT DATA

Supply		
Nominal flow rate	[m³/h]	90
Nominal external pressure (ΔPs, ext.)	[Pa]	120

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Exhaust

Nominal flow rate	[m³/h]	90
Nominal external pressure (ΔP_s , ext.)	[Pa]	120

Climate parameters
Winter

Outdoor temperature	[°C]	-3
Outdoor relative humidity	[%]	80

Summer

Outdoor temperature	[°C]	38
Outdoor relative humidity	[%]	35

Set point temperature

Winter	[°C]	21
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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]	8	8

Heat exchanger data

		Winter		Summer	
		Supply	Exhaust	Supply	Exhaust
Actual temp. efficiency	[%]	95.4		93.3	
Dry temp. efficiency	[%]	93.2		93.3	
Energy recovery	[kW]	0.7		-0.3	
Face velocity	[m/s]	0.6	0.6	0.6	0.6
Pressure drop	[Pa]	42	42	49	49
Inlet temperature	[°C]	-3	21	38	26
Inlet rel. humidity	[%]	80	45	35	55
Outlet temperature	[°C]	19.9	3.3	26.8	37.2
Outlet rel. humidity	[%]	17	100	66	29
Condensation	[kg/h]		0.2		0

Electric heater data

		Winter
Capacity	[kW]	0.03
Outlet temperature	[°C]	21
Outlet rel. humidity	[%]	15.8
Max power	[kW]	0.5

DOMEKT-CF-150-F-L1-M5/M5-C6M-X

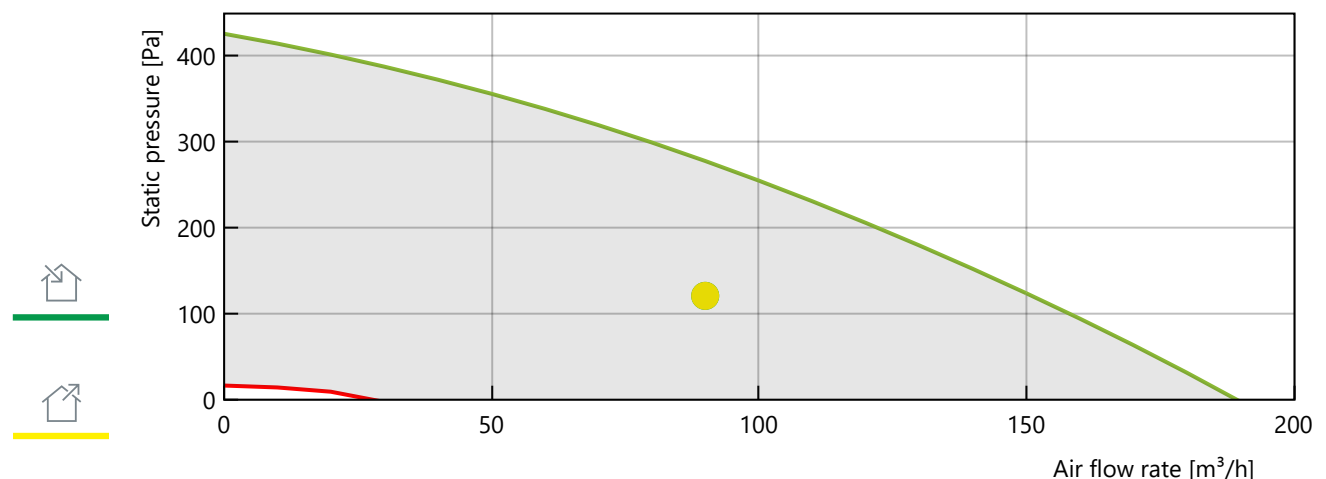
Fans data

Input power	[W]	27	
Max current	[A]	0.3	
Nominal voltage	[V]	200..240	
Overall efficiency	[%]	36	
		Supply	Exhaust
Rotating speed	[RPM]	2909	2909
Running current	[A]	0.12	0.12
Static pressure	[Pa]	175	175
Usable power	[W]	12	12
Specific fan power	[kW/(m ³ /s)]	0.5	0.5

ACOUSTICS DATA

Frequency	[Hz]	63	125	250	500	1000	2000	4000	8000	dB(A)
Outdoor Lw	[dB]	47	49	51	47	45	41	37	32	50
Supply Lw	[dB]	55	58	61	57	54	53	50	44	61
Extract Lw	[dB]	47	49	51	47	45	41	37	32	50
Exhaust Lw	[dB]	55	58	61	57	54	54	50	45	61
Casing Lw	[dB]	49	49	48	34	31	27	19	14	41
Casing Lp 1 m	[dB]	45	45	43	30	27	23	15	10	37
Casing Lp 3 m	[dB]	40	41	34	22	21	16	9	4	30

PLOT



Instructions

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

Domekt manual version: 21-03

Control manual version: guide_20-08