

komfovent®

DOMEKT



Residential
ventilation units
with heat recovery

DOMEKT features

ENERGY SAVING

- Modern energy efficient EC fans.
- High efficiency rotary and counterflow plate heat exchangers.
- Low resistance and high filtration class air filters.
- Over 20 functions optimise unit's operation and reduce running costs.

SMART CONTROL

- "Komfovent Control" app.
- Ability to control via a web browser.
- Integration into a smart home management system.
- Demand control ventilation according to the air quality parameters by connecting additional sensors.

HUMIDITY CONTROL

- Optional heat exchangers – sorption-enthalpy rotary or diffusion-enthalpic counterflow plate – efficiently recover humidity.
- Air quality function ventilates premises according to the user desired humidity settings.

RELIABLE AND DURABLE CASING

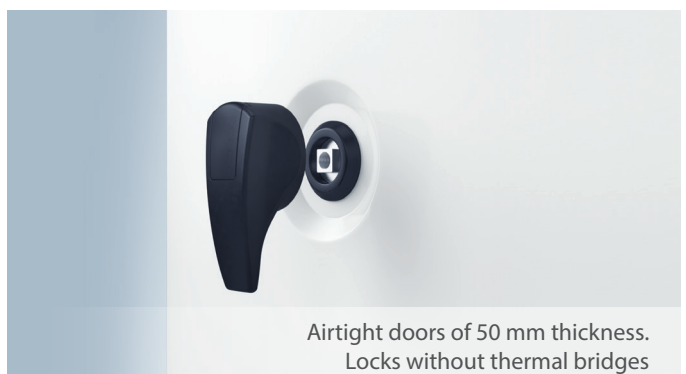
- Powder coated (RAL 9003) galvanized steel panels insulated with mineral wool.
- Hydrophobic and lightweight EPP (expanded polypropylene) casing without thermal bridges and condensation is designed for several units.

LOW NOISE LEVEL

- Perfectly balanced fans.
- All of the unit's components are aerodynamically matched.
- Sound absorbing insulation and special composite materials.

LONG-LIFE SOLUTIONS

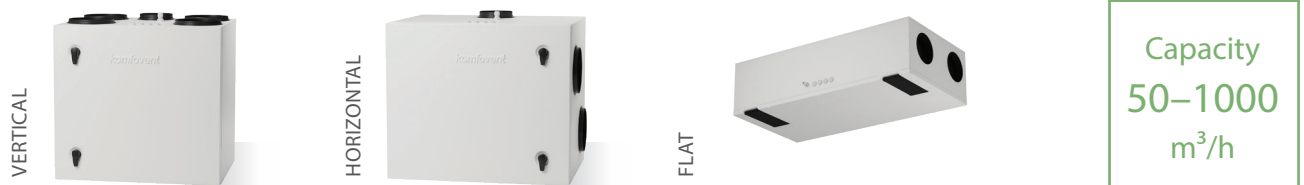
- Variable rotary heat exchanger speed control.
- Fan motors are protected from humidity and dust, and equipped with long-life bearings.
- Up to 10 safety functions, which ensure reliable operation of unit components.



Range review

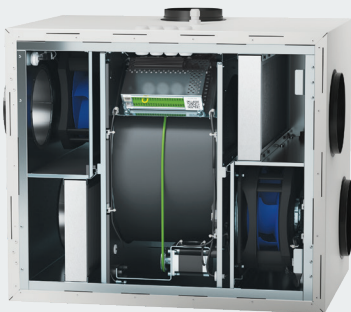
DOMEKT – residential ventilation units with heat recovery. Depending on the individual requirement, a rotary or counterflow plate heat exchanger, vertical, horizontal or flat units can be selected from a wide range of modifications.

TYPES OF THE UNITS

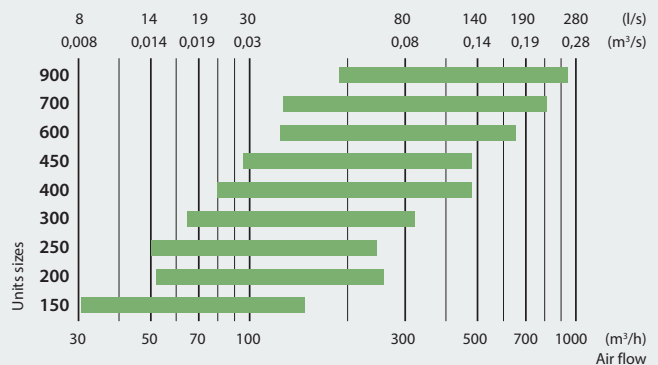


TYPES OF THE HEAT EXCHANGERS

Domekt R with rotary heat exchanger



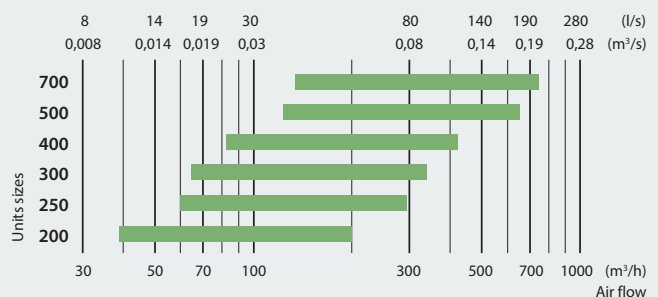
Sizes and capacities of Domekt R units



Domekt CF with counter flow heat exchanger



Sizes and capacities of Domekt CF units



Specifications

Unit size		150	200		250		300					
AHU type		Domekt R	Domekt R	Domekt CF	Domekt CF	Domekt R	Domekt CF	Domekt R	Domekt R	Domekt CF	Domekt R	
Control system		C8	C8	C6M	C8	C6	C6	C8	C8	C6M	C6M	
Heat exchanger type												
Humidity recovery Standard / Enthalpy												
Duct connection												
SEC												
Reference flow rate	m³/s	0,03	0,05	0,04	0,04	0,05	0,06	0,06	0,06	0,06	0,07	
	m³/h	108	163	132	127	175	204	218	202	213	260	
Maximal air flow at 100 Pa		m³/h	154	233	189	181	250	292	311	288	304	371
Dimensions	B, mm	460	325	630	560	602	604	515	630	630	495	
	H, mm	280	605	790	294	310	294	615	280	790	561	
	L, mm	780	599	595	1100	842	1250	605	1090	595	598	
Unit weight		kg	29	39	42	28	40	52	29	56	42	49
Duct diameters		mm	Ø 125 (1x) Ø 160 (4x)	Ø 100 (1x) Ø 125 (5x)	Ø 160 (4x)	Ø 160 (4x)	Ø 125 (1x) Ø 160 (4x)	Ø 160 (4x)	Ø 100 (1x) Ø 160 (4x)	Ø 125 (1x) Ø 160 (4x)	Ø 160 (4x)	Ø 125 (1x) Ø 160 (4x)
Thermal efficiency of heat recovery		%	82	80	92	88	80	86	85	83	88	85
Electric power input of the fan drive at reference flow rate		W	17	23	15	13	40	33	34	32	35	41
Electric power input of the fan drive at maximum flow rate		W	41	63	37	41	90	91	78	80	91	114
Electric preheater / air heater capacity		kW	−/0,5	−/0,5 −/1 (E1)	1/0,5	−/0,5	−/1	1/0,5	−/0,5	−/1	1/0,5	−/1

LEGEND:

Heat exchanger type:



Rotary

△△△ L/AZ – Sorption-enthalpy

△ L/A – Condensing



Counterflow

△△ ER – Diffusion-enthalpy

△ Condensing

Types of the units:



horizontal

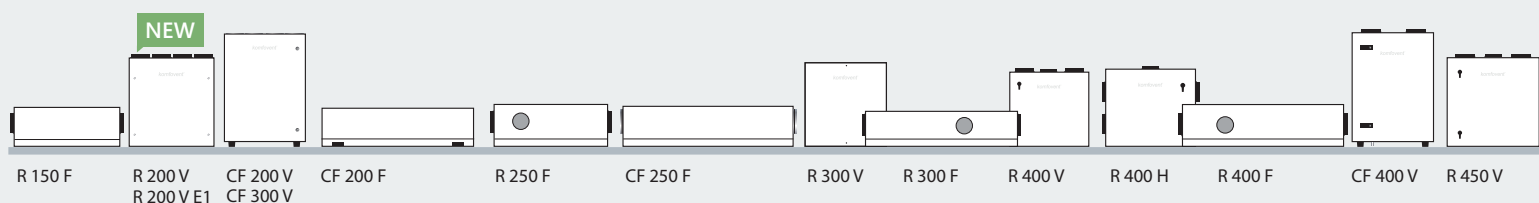


vertical



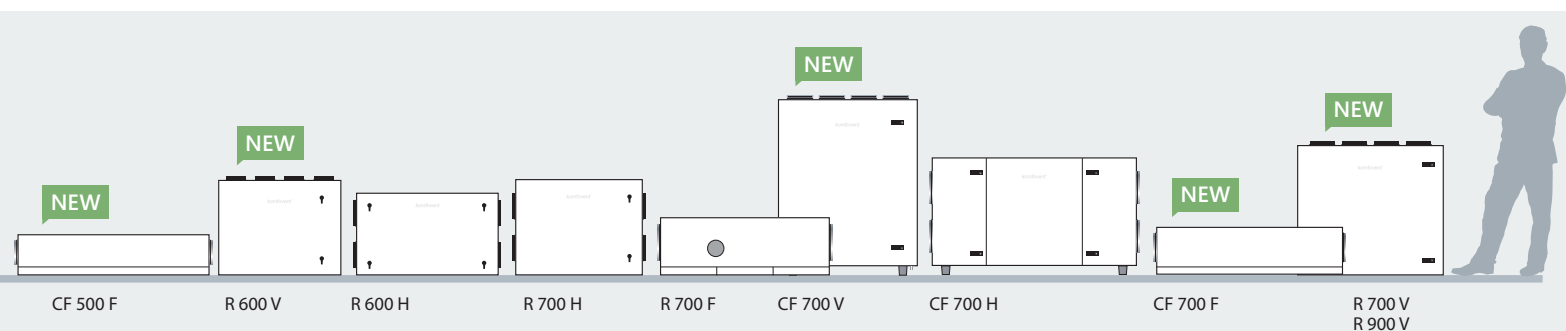
flat

DOMEKT air handling units



400			450	500	600		700						900	
Domekt R	Domekt R	Domekt CF	Domekt R	Domekt CF	Domekt R	Domekt R	Domekt R	Domekt R	Domekt R	Domekt CF	Domekt CF	Domekt CF	Domekt R	
C6M	C6M	C6M	C6M	C6M	C6M	C6M	C6M	C6M	C6M	C6M	C6M	C6M	C6M	
														
⌀/⌀⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀⌀	⌀/⌀⌀	⌀/⌀⌀	⌀/⌀⌀⌀	
														
														
0,09	0,09	0,08	0,1	0,12	0,13	0,13	0,14	0,14	0,13	0,13	0,12	0,14	0,19	
312	307	284	347	446	468	459	517	519	462	455	435	494	667	
446	438	406	496	637	669	656	738	742	660	650	621	706	953	
515	700	585	585	1045	905	570	637	634	850	491	487	875	637	
567	310	750	655	292	750	600	950	700	420	1220	700	344	950	
660	1170	598	680	1400	610	1060	1070	930	1240	1020	1500	1365	1070	
49	65	55	60	93	82	80	110	83	93	100	95	84	110	
⌀ 125 (1x) ⌀ 160 (4x)	⌀ 125 (1x) ⌀ 200 (4x)	⌀ 160 (4x)	⌀ 125 (1x) ⌀ 160 (4x)	⌀ 200 (4x)	⌀ 125 (1x) ⌀ 200 (4x)	⌀ 125 (1x) ⌀ 200 (4x)	⌀ 125 (1x) ⌀ 250 (4x)	⌀ 125 (1x) ⌀ 250 (4x)	⌀ 125 (1x) ⌀ 250 (4x)	⌀ 125 (1x) ⌀ 250 (4x)	⌀ 200 (4x)	⌀ 250 (4x)	⌀ 250 (4x)	⌀ 125 (1x) ⌀ 250 (4x)
84	82	88	86	89	84	83	84	84	83	89	89	88	82	
45	41	45	55	59	59	63	76	73	60	73	71	67	118	
112	98	113	147	172	167	156	178	179	140	178	180	176	241	
−/1	−/1	1 / 0,5	−/1	1 / 0,5	−/1,5	−/1	−/2	−/2	−/2	1 / 1	1,5 / 0,5	1 / 1	−/2	

- Standard filter class (supply/exhaust) – ePM1 55 % / ePM10 50 % (F7/M5)
- Heater type: electric
- Supply voltage: 1~230 V



Your home indoor climate
in your hand with
KOMFOVENT CONTROL app



Smart control systems C6, C6M, C8 for DOMEKT units

For both: beginners and advanced users

A user-friendly interface enables intuitive navigation and control of the unit. The core philosophy behind the design of C6, C6M, C8 – the ventilation unit would operate properly without constant adjustments from the user. Different ventilation modes are optimized for the user's daily needs. Automatic air quality control selects the most appropriate mode and ensures the comfort conditions in the room. Advanced users can control a unit's operation according to his needs, as many settings and control possibilities are provided as well:

- Air flow control: CAV / VAV / DCV*.
- Intensity control by air quality, CO₂, humidity level.

Operating modes

- 8 preset modes.
- Intelligent energy saving algorithms.
- Automatic air quality control with optional AQ sensor.
- Extensive weekly schedule.

Energy counters*

- Real-time energy consumption indicator.
- Possibility of observing the running costs of the ventilation unit.
- Heat recovery counter.

* Except C8 control system.



Control options



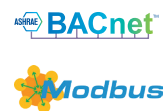
App "Komfovent Control"



Control panel



Web Server



Connectivity & Protocols



"Komfovent Control" app

A new cloud-based application is designed to control residential ventilation units with C6, C6M, C8 control system. A user-friendly interface ensures intuitive control. As the application fully replicates a control panel functions, you will have access to all monitoring and control possibilities available in the control panel. The application is available on Google Play, App Store and Huawei AppGallery.





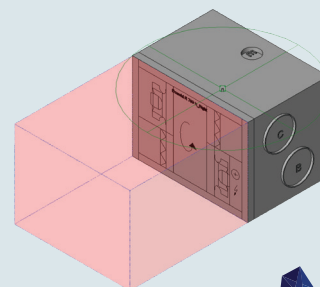
DOMEKT SELECTION SOFTWARE

- For DOMEKT units with a capacity from 50 to 1000 m³/h.
- Parameters are calculated for specific climate and operating conditions.
- Selection of unit's accessories.
- Comparison of the units.
- DOMEKT 3D REVIT models are available in the selection software.



KOMFOVENT DOMEKT + REVIT

Easy unit's integration into building information modeling – 3D REVIT models of DOMEKT units are available in the REVIT add-in KOMFOVENT HUB library.



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