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.
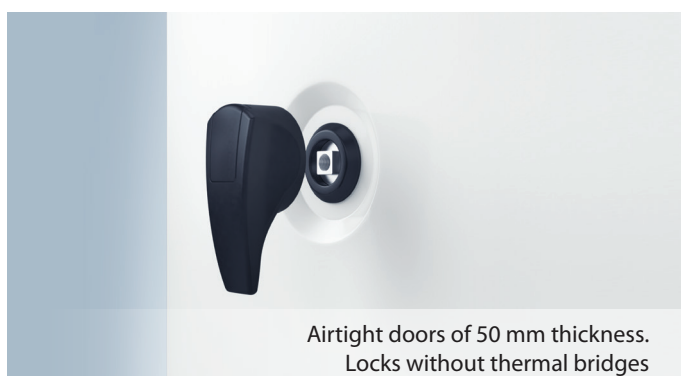
RELIABLE AND DURABLE CASING

- 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.

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.

LOW NOISE LEVEL

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

HUMIDITY CONTROL

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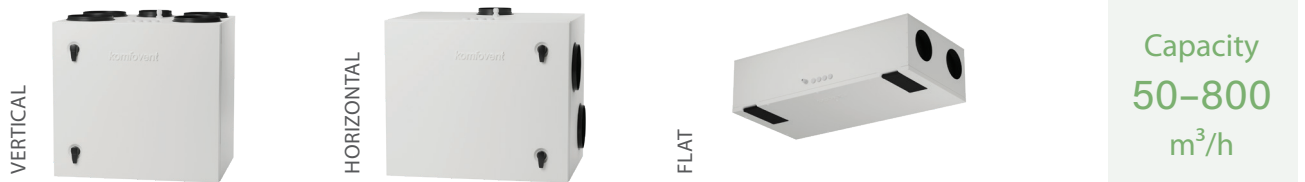
LONG-LIFE SOLUTIONS

- 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.

Minimalist design

Plastic duct connections ensure better tightness and reduce thermal bridges

Additional duct connection is intended for the short-term removal of polluted air from the stove or sanitary rooms

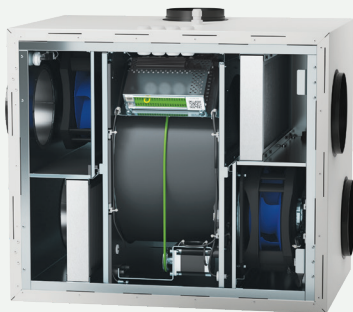Airtight doors of 50 mm thickness. Locks without thermal bridges

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.
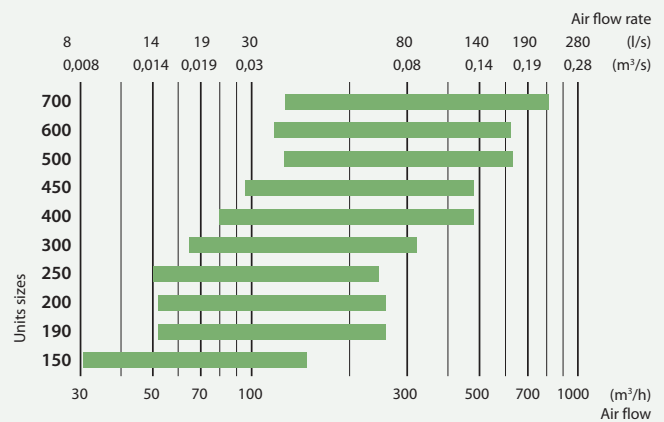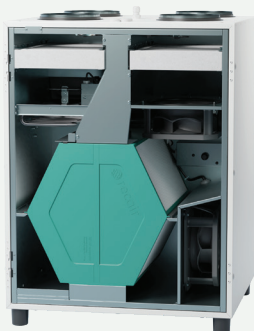
TYPES OF THE UNITS

VERTICAL

HORIZONTAL

FLAT

Capacity
50–800
m³/h

TYPES OF THE HEAT EXCHANGERS

Domekt R
with rotary heat exchanger

Sizes and capacities of Domekt R units

Air flow rate

	8	14	19	30	80	140	190	280	(l/s)
	0,008	0,014	0,019	0,03	0,08	0,14	0,19	0,28	(m³/s)

Units sizes: 700, 600, 500, 450, 400, 300, 250, 200, 190, 150

| 30 | 50 | 70 | 100 | 300 | 500 | 700 | 1000 | (m³/h) |

Air flow

Domekt CF
with counter flow heat exchanger

Sizes and capacities of Domekt CF units

Air flow rate

	8	14	19	30	80	140	190	280	(l/s)
	0,008	0,014	0,019	0,03	0,08	0,14	0,19	0,28	(m³/s)

Units sizes: 700, 500, 400, 300, 250, 200

| 30 | 50 | 70 | 100 | 300 | 500 | 700 | 1000 | (m³/h) |

Air flow

3

Specifications

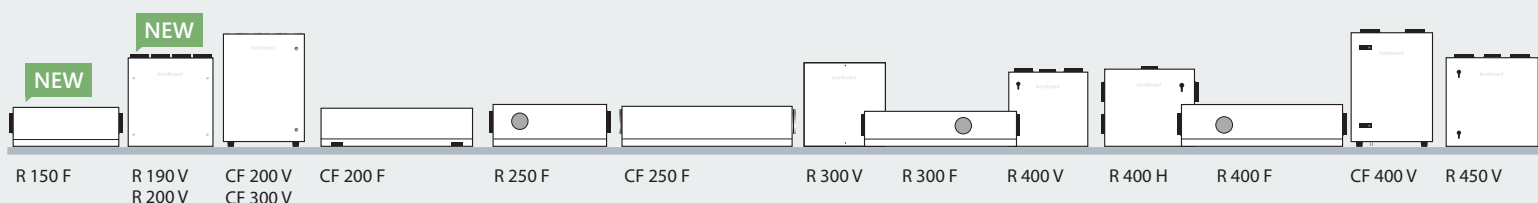| Unit size	150	190	200			250		300		
AHU type	Domekt R	Domekt R	Domekt R	Domekt CF	Domekt CF	Domekt R	Domekt CF	Domekt R	Domekt R	Domekt CF
Control system	C8	C8	C8	C6M	C8	C6	C6	C8	C8	C6M
Heat exchanger type	Rotary	Rotary	Rotary	Counterflow	Counterflow	Rotary	Counterflow	Rotary	Rotary	Counterflow
Humidity recovery Standard / Enthalpy	L/A / L/AZ	L/A	L/A	Condensing / ER	Condensing / ER	L/A / L/AZ	Condensing / ER	L/A / L/AZ	L/A / L/AZ	Condensing / ER
Duct connection	flat	vertical	vertical	vertical	flat	flat	flat	vertical	flat	vertical
SEC	A	A	A	A+	A+	A	A	A+	A	A+
Reference flow rate — m³/s	0,03	0,05	0,05	0,039	0,036	0,049	0,058	0,062	0,06	0,062
Reference flow rate — m³/h	108	183	183	140	129	175	208	224	217	222
Maximal air flow at 100 Pa — m³/h	155	261	261	201	185	250	297	320	310	318
Dimensions — B, mm	460	325	325	630	560	602	604	515	630	630
Dimensions — H, mm	280	605	605	790	294	310	294	615	280	790
Dimensions — L, mm	780	599	599	595	1100	842	1250	605	1090	595
Unit weight — kg	29	39	39	42	28	40	52	29	56	42
Duct diameters — mm	Ø 125 (1×) Ø 160 (4×)	Ø 125 (6×)	Ø 125 (6×)	Ø 160 (4×)	Ø 160 (4×)	Ø 125 (1×) Ø 160 (4×)	Ø 160 (4×)	Ø 100 (1×) Ø 160 (4×)	Ø 125 (1×) Ø 160 (4×)	Ø 160 (4×)
Thermal efficiency of heat recovery — %	82	80	80	92	88	80	86	85	83	88
Electric power input of the fan drive at reference flow rate — W	15	27	27	15	13	40	32	30	32	34
Electric power input of the fan drive at maximum flow rate — W	41	67	67	37	41	90	91	78	81	91
Electric preheater / air heater capacity — kW	−/0,5	−/0,5	−/1,0	1,0/0,5	−/0,5	−/1,0	1,0/0,5	−/0,5	−/1,0	1,0/0,5

LEGEND:

Heat exchanger type:

Rotary
◊◊◊ L/AZ – Sorption-enthalpy
◊ L/A – Condensing

Counterflow
◊◊ ER – Diffusion-enthalpy
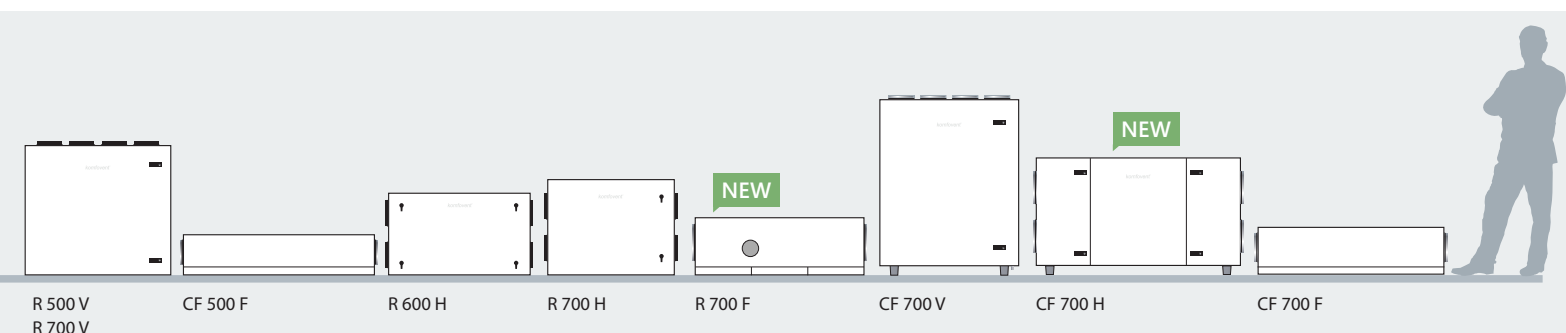✍ Condensing

Types of the units:

horizontal · vertical · flat

DOMEKT air handling units

NEW

NEW

R 150 F | R 190 V / R 200 V | CF 200 V / CF 300 V | CF 200 F | R 250 F | CF 250 F | R 300 V | R 300 F | R 400 V | R 400 H | R 400 F | CF 400 V | R 450 V

400				450	500		600	700					
Domekt R	Domekt R	Domekt R	Domekt CF	Domekt R	Domekt R	Domekt CF	Domekt R	Domekt R	Domekt R	Domekt R	Domekt CF	Domekt CF	Domekt CF
C6M	C6M	C6M	C6	C6M	C6	C6	C6M	C6	C6M	C6M	C6	C6M	C6
A	A+	A	A+	A+	A+	A	A+	A+	A+	A+	A+	A+	A
0,074	0,09	0,088	0,076	0,095	0,122	0,1013	0,131	0,148	0,147	0,136	0,124	0,125	0,14
266	324	316	272	344	440	364	471	534	531	489	446	449	504
380	463	451	389	491	628	521	673	763	758	698	637	641	720
495	515	700	600	585	645	1045	570	645	634	850	495	487	875
561	567	310	800	655	950	295	600	950	700	420	1220	700	344
598	660	1170	598	680	1070	1400	1060	1070	930	1240	1020	1500	1365
49	49	65	54	60	113	93	80	114	83	93	100	95	81
∅ 125 (1×) ∅ 160 (4×)	∅ 125 (1×) ∅ 160 (4×)	∅ 125 (1×) ∅ 200 (4×)	∅ 160 (4×)	∅ 125 (1×) ∅ 160 (4×)	∅ 125 (1×) ∅ 250 (4×)	∅ 200 (4×)	∅ 125 (1×) ∅ 200 (4×)	∅ 125 (1×) ∅ 250 (4×)	∅ 125 (1×) ∅ 250 (4×)	∅ 125 (1×) ∅ 250 (4×)	∅ 200 (4×)	∅ 250 (4×)	∅ 250 (4×)
85	84	82	88	86	85	87	82	84	84	83	88	87	82
41	44	40	33	54	47	67	62	73	70	65	73	66	70
114	113	99	91	146	107	171	155	180	180	175	179	178	177
−/1,0	−/1,0	−/1,0	1,5 / 0,5	−/1,0	−/1,0	1,5 / 0,5	−/1,0	−/2,0	−/2,0	−/2,0	1,5 / 0,5	1,5 / 0,5	1,5 / 0,5

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

R 500 V
R 700 V   CF 500 F   R 600 H   R 700 H   R 700 F   NEW   CF 700 V   CF 700 H   NEW   CF 700 F

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, CO_2, 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.

AWAY	NORMAL	INTENSIVE	BOOST
KITCHEN	FIREPLACE	OVERRIDE	HOLIDAYS

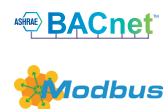* Except C8 control system.

Control options

App "Komfovent Control"   Control panel   Webserver   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 800 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.

D DOMEKT

KOMFOVENT DOMEKT + REVIT

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

AUTODESK
REVIT