

Coming soon!

Automatic control system

Fully integrated control system Komfovent ensures safe operation of the air handling unit, controls preset ventilation system parameters and optimizes unit's operating costs.

Control system C5

- Detailed information for the user
- Energy saving counters
- Integrated web server
- Plenty of functions
- Control panel C5.1

Control system C4

- User friendly interface
- Essential functions
- Control panel C4.1 or C4

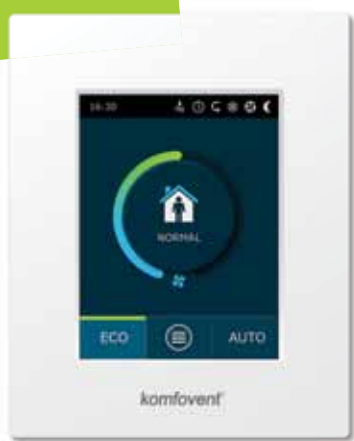
Features:

- 5 different operation modes: *Comfort1, Comfort2, Economy1, Economy2* and *Special*.
- Temperature control modes: Supply air / Extract air / Room / Balance.
- Energy parameters indication: thermal efficiency of the heat exchanger, heat exchanger's recovered energy, energy saving indicator.
- Air quality control.
- Flow control modes: CAV, VAV and DCV.
- Air flow indication (m³/h, m³/s, l/s).
- Rotary or plate heat exchanger failure protection.
- Rotary heat exchanger cleaning and warm-up function.
- Intelligent self-diagnostic.
- Summer night cooling.
- Holiday, weekly operating scheduling.
- Min. supply air temperature maintenance.
- Combined water heater & cooler control.
- Inverter-type DX outdoor unit control.
- Cooling recovery function.
- Outdoor compensated ventilation.
- Humidity control: air humidification and dehumidification.
- Circulation pumps control by demand.
- Warm-up function of circulation pumps and mixing valves.
- Air filter clogging indication.
- Operation hours and energy counters.
- Remote control via web interface.
- Built-in data logger for all air handling unit parameters.
- Application software for smartphones based on "Android" and "iOS".

Mobile application "Komfovent"



NOTE: all C4 features are also available in C5 control system.



Smart control system C6

- Intuitive control
- Ready for home use
- Integrated power meter
- 1W in standby mode
- Integrated web server



- User friendly interface allows intuitive control of the air handling unit.
- Various operation modes are preprogrammed for all situations.
- Intelligent energy saving mode ensures minimum power consumption.
- Automatic air quality control selects the most appropriate mode and ensures the comfort conditions in the room.

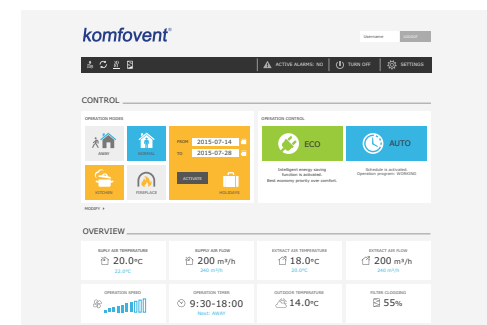
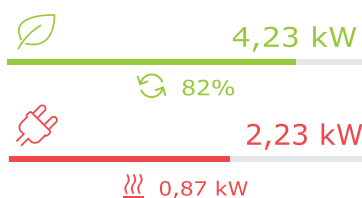


- Efficiency and energy consumption indication gives the possibility to monitor and set up unit operation in a proper way.
- Energy counters helps to determine operation costs of the air handling unit and additional heater.



- Komfovent Home** application software for smartphones replicates control panel possibilities and allows to control your home ventilation from any place, wherever you are.

- Advanced users are able to adjust AHU's operation in accordance with the specific needs, as many additional information and settings are provided.



- User friendly web interface enables remote control via computer or other mobile device.



Residential ventilation air handling units DOMEKT

Domekt R units with rotary heat exchanger

Domekt RHP units with rotary heat exchanger and heat pump

Domekt P units with plate heat exchanger

Domekt CF units with counterflow plate heat exchanger

Domekt S supply air units

Komfovent DOMEKT

DOMEKT air handling units are designed for the ventilation of residential premises. DOMEKT is a standardized series of the air handling units (AHU) with a heat recovery performed by a rotor, a heat pump + rotor, a plate exchanger, or just ordinary supply air units. An actual air flow ranges between 50 m³/h and 1 000 m³/h.



Capacity range from 50 to 1000 m³/h

Features and benefits of DOMEKT units:

- Energy efficient solution
- PLUG & PLAY concept – units are fully prepared for installation
- DOMEKT air handling units are especially silent
- Energy saving high performance EC fans in DOMEKT units
- Integrated automatic control
- Wide choice of automatic control functions already included as a standard – no options are needed
- Integrated web server for clever control (only for C5.1)
- Control via Smartphone available

A compact air handling units' design helps to integrate them in a limited dedicated space for installation.

All DOMEKT units are based on the principle of PLUG & PLAY: each unit has the integrated control system and is delivered with a complete automatic control installed and prewired inside the unit. A modern control panel is included with each DOMEKT unit supplied.

Due to the availability of clever design and functions the units offer a great opportunity to keep running costs low, they are safe, reliable and durable in operation. The air is filtered and supplied clean and fresh to the premises, which is especially advisable to allergic people.

DOMEKT air handling units. Specifications

UNIT SIZE	200		250		300	400					450			500					600		650	700								800				900					1000	UNIT SIZE					
AHU type	Domekt R	Domekt R	Domekt CF	Domekt CF	Domekt PP	Domekt R	Domekt R	Domekt R	Domekt P	Domekt P	Domekt CF	Domekt R	Domekt PP	Domekt R	Domekt R	Domekt R	Domekt CF	Domekt R	Domekt RHP	Domekt S	Domekt R	Domekt R	Domekt R	Domekt P	Domekt P	Domekt CF	Domekt CF	Domekt S	Domekt RHP	Domekt S	Domekt R	Domekt P	Domekt P	Domekt CF	Domekt CF	Domekt S	Domekt RHP	Domekt S	Domekt R	Domekt P	Domekt P	Domekt CF	Domekt CF	Domekt S	AHU type
Heat exchanger type	rotary	rotary	counter cross-flow	counter cross-flow	double plate	rotary	rotary	rotary	plate	plate	counter cross-flow	rotary	double plate	rotary	rotary	rotary	counter cross-flow	rotary	rotary & heat pump	supply air unit	rotary	rotary	rotary	plate	plate	counter cross-flow	counter cross-flow	supply air unit	rotary & heat pump	supply air unit	rotary	plate	plate	counter cross-flow	counter cross-flow	supply air unit	rotary & heat pump	supply air unit	rotary	plate	plate	counter cross-flow	counter cross-flow	supply air unit	Heat exchanger type
AHU version	vertical	flat	vertical	flat	vertical	vertical	horizontal	flat	vertical	horizontal	vertical	vertical	vertical	vertical	horizontal	universal	flat	horizontal	universal	flat	vertical	horizontal	flat	vertical	horizontal	vertical	horizontal	flat	universal	flat	universal	vertical	horizontal	universal	flat	flat	flat	flat	flat	flat	flat	AHU version			
SEC	B	B	B	B	A	A	A	A	B	B	B	B	B	A+	A	A+	A	A	A+	B	A+	A	A+	B	B	A	A	E	A+	B	A+	B	C	B	C	B	C	A+	A+	B	SEC				
Reference flow rate	m³/s	0,05	0,05	0,05	0,05	0,06	0,06	0,08	0,09	0,1	0,1	0,09	0,09	0,08	0,13	0,13	0,13	0,11	0,1	0,13	0,13	0,15	0,14	0,14	0,16	0,16	0,16	0,16	0,13	0,15	0,15	0,17	0,16	0,18	0,15	0,17	0,16	0,18	0,21	0,2	0,2	m³/s			
	m³/h	180	180	180	180	216	216	288	324	360	360	324	324	288	468	468	468	396	360	468	468	540	504	504	576	576	576	576	468	540	540	612	576	648	540	612	576	648	756	720	720	m³/h			
Nominal air flow at 100 Pa	m³/h	250	250	270	270	290	290	420	460	530	530	440	480	440	650	650	650	560	530	650	650	770	720	710	820	800	820	800	670	770	770	850	830	900	790	870	820	910	1000	1000	1000	m³/h			
Dimensions	B, mm	320	550	510	605	340	495	510	650	390	390	600	535	340	635	635	640	1050	570	649	475	635	635	854	490	495	490	490	440	905	475	895	490	495	910	1100	700	B mm							
	H, mm	625	310	700	295	700	547	585	310	780	600	650	610	700	940	700	700	290	600	803	297	940	700	420	950	600	1040	700	350	905	350	895	950	600	905	527	350	H mm							
	L, mm	600	790	595	1100	740	600	640	1120	900	1000	598	680	740	1060	930	1115	1180	1130	1250	873	1060	930	1240	1000	1170	1020	1500	850	1505	973	1345	1000	1170	1810	1650	893	L mm							
Unit weight	kg	42	41	46	46	42	42	48	62	62	55	55	46	42	140	90	110	70	90	194	35	140	90	104	85	75	95	95	32,5	255	35	195	90	78	210	161	46	kg							
Duct connections	mm	∅ 125 (5x)	∅ 125 (1x) / ∅ 160 (4x)	∅ 125 (4x)	∅ 125 (4x)	∅ 125 (5x)	∅ 125 (1x) / ∅ 160 (4x)	∅ 160 (4x)	∅ 125 (1x) / ∅ 200 (4x)	∅ 160 (4x)	∅ 200 (4x)	∅ 160 (4x)	∅ 200 (4x)	∅ 125 (5x)	∅ 250 (4x)	∅ 200 (4x)	∅ 200 (4x)	∅ 200 (4x)	∅ 125 (1x) / ∅ 200 (4x)	∅ 200 (4x)	∅ 160 (2x)	∅ 250 (4x)	∅ 250 (4x)	∅ 250 (4x)	∅ 200 (4x)	∅ 250 (4x)	∅ 250 (2x)	∅ 250 (4x)	∅ 200 (2x)	∅ 315 (4x)	∅ 200 (4x)	∅ 250 (4x)	∅ 315 (4x)	∅ 315 (4x)	∅ 315 (4x)	∅ 315 (4x)	∅ 250 (2x)	mm							
Max. operating current with electric air heater	A	5,1	5,7	6,1	6,1	5,1	5,2	6,2	6,9	10,7	10,7	5,8	7,1	6	6,9	6,9	7,2	6,9	6,9	9	(RHP 3.7/3) / 10	14,4	11,5	11,5	11,6	13,7	13,7	11,5	11,5	13,8	8,7	(RHP 5.3/4.7) / 8,7	14,4	7,2	9,5	10,3	11,5	7,3	23	A					
Max. operating current with water air heater	A	1,1	1,5	1,8	1,8	0,76	1,1	1,5	2,7	1,7	1,7	1,5	2,7	1,65	2,7	2,7	2,9	2,56	2,7	-	-	2,7	2,7	2,9	-	-	-	-	-	-	1,4	2,9	-	-	2,8	2,9	1,8	A							
Supply voltage	V/Hz	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	3~400 / 1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	1~230	V/Hz				
Fans type		EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	Fans type			
Electric power input of the fan drive at reference flow rate	W	33	36	35	35	26	21	47	58	40	40	43	62	59	60	66	61	77	72	70	79	83	85	78	75	120	75	120	72	78	101	70	84	72	156	79	163	60	57	82	W				
Electric power input of the fan drive at maximum flow rate	W	67	96	85	85	67	67	94	164	96	96	96	171	175	170	170	170	170	170	170	177	180	170	170	170	170	240	170	240	170	170	169	170	170	181	170	250	170	250	170	170	181	W		
Heater type: E – electric, W – water or HCW – changeover coils	E/W	E/W	-	-	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E	E/W	E/W	E/HCW	E/W	E/W	E/W	E/HCW	E/W	E/W	E/HCW	E/W	E/W	Heater type: E – electric, W – water or HCW – changeover coils				
Maximal heater capacity	kW	0,8	1,0	-	-	1,0	1,0	1,0	1,0	2,0	2,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	6	2,0	2,0	2,0	2,5	2,5	2,0	2,0	9	2,0	9	3,0	4,5	4,5	4,5	3,0	15	kW							
Control panel type		C4 / C4.1	C4 / C4.1	C4 / C4.1	C4 / C4.1	C4 / C4.1	C4 / C4.1	C5.1	C4 / C4.1	C3 / C3.1	C3 / C3.1	C4 / C4.1	C4 / C4.1	C4 / C4.1	C5.1	C5.1	C5.1	C4 / C4.1	C4 / C4.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	Control panel type				

- Thermal insulation thickness – 50 mm.
 - Standard filter class (supply/exhaust) – M5, F7 class air filters – on request.
- The definitions of terms**
- **Specific energy consumption (SEC)** (expressed in kWh/(m².a)) means a coefficient to express the energy consumed for ventilation per m² heated floor area of a dwelling or building.
 - **Reference flow rate** (expressed in m³/s) is the abscissa value to a point on a curve in the flow rate/pressure diagram which is on or closest to a reference point at 70 % at least of the maximum flow rate and 50 Pa for ducted units and at a minimum pressure for non-ducted units. For bidirectional ventilation units, the reference air volume flow rate applies to the air supply outlet.

Selection software
The units are selected using an informative and useful software, available to be downloaded to your PC from our website: www.komfovent.com/software.
Technical data sheets present important technical parameters at a specified working point of the selected unit: efficiency, SFP, acoustics and other required data.

