

Control system Komfovent C5

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



Detailed information for the user

- Air flow indication in (m³/h, m³/s, l/s).
- Thermal efficiency of the heat exchanger (%).
- Heat exchanger recovered energy (kW).
- Thermal energy saving indicator (%).
- Operation time counters of fans (h).
- Heater energy consumption counter (kW/h).
- Heat exchanger recovered energy counter (kW/h).

Various operating modes

- 5 different operation modes: *Comfort1, Comfort2, Economy1, Economy2 and Special*. User may set supply and extract air volumes as well as air temperature for each of mode separately.
- Temperature control modes: Supply air / Extract air / Room. Possibility to select which temperature to be maintained.
- Flow control modes: Constant Air Volume (CAV), Variable Air Volume (VAV), Direct controlled volume (DCV).
- Universal operating schedule with up to 20 events, for which of them user can assign weekday(s) and one of five operation modes.
- Holiday scheduling allows the user to change operation mode or switch off the air handling unit at some dates of the year. Up to 10 events are possible.

Extended control possibilities

- Controlling up to 30 units connected into a network from one panel.
- Ability to connect the controller to the Internet network and manage it via a standard internet browser without any accessories.
- Ability to control the unit not only by a control panel or a computer, but also by different external devices (switch, timer, etc.) and systems (e.g. the smart house system).
- Possibility to control air handling unit by Smartphone.



Android



iOS

Connectivity & Protocols

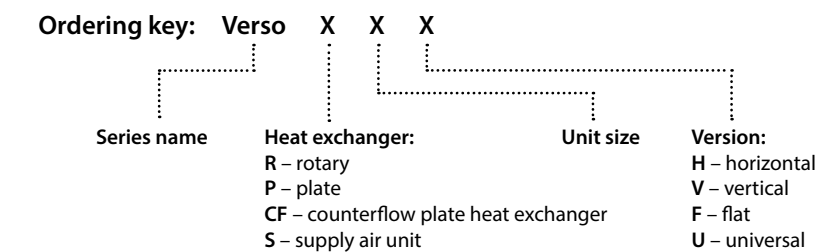
- Modbus RTU over RS-485
- Modbus TCP over Ethernet
- BACnet/IP over Ethernet

C3 control system features are available on www.komfovent.com/resources.



VERSO STANDARD air handling units. Specifications

UNIT SIZE	1200		1300			1400	1500	1600		1700	2000		2100	2300	2500	3000		3500	4000		4500	7000	UNIT SIZE	
AHU type	Verso R	Verso R	Verso CF	Verso CF	Verso S	Verso R	Verso CF	Verso R	Verso P	Verso CF	Verso R	Verso R	Verso S	Verso CF	Verso R	Verso R	Verso S	Verso CF	Verso R	Verso S	Verso R	Verso R	AHU type	
Heat exchanger type	rotary	rotary	counter cross-flow	counter cross-flow	supply air unit	rotary	counter cross-flow	rotary	plate	counter cross-flow	rotary	rotary	supply air unit	counter cross-flow	rotary	rotary	supply air unit	counter cross-flow	rotary	supply air unit	rotary	rotary	Heat exchanger type	
AHU version	universal*	flat	universal*	flat	flat	universal*	flat	universal*	flat	universal*	universal*	flat	flat	universal*	universal*	universal*	flat	universal	universal*	flat	universal*	horizontal	AHU version	
Nominal air flow	m³/h	1300	1200	1300	1300	1200	1500	1500	1800	1700	1700	2000	2000	2000	2300	2500	3600	3000	3500	3900	3700	4500	8000	m³/h
Efficiency of heat exchanger**	%	84	80	79	79	–	84	79	82	66	78	81	83	–	81	79	81	–	81	80	–	79	80	%
Dimensions	B, mm	905	1050	910	1100	700	905	1100	910	1350	910	910	1210	1000	910	910	1150	1075	1150	1150	1075	1150	1500	B, mm
	H, mm	905	480	905	527	350	905	527	1000	528	905	1000	526	350	905	1000	1150	555	1150	1150	555	1150	1520	H, mm
	L, mm	1355	1360	1810	1650	893	1355	1650	1485	1560	1810	1485	2060	893	2000	1485	650/700/750	1160	750/1000/750	650/700/750	1160	650/700/750	750/390/750	L, mm
Unit weight	kg	195	120	269	162	46	195	162	270	190	270	285	280	73	250	285	440 (135/160/145)	125	510 (145/190/175)	450 (140/160/150)	125	450 (140/160/150)	780 (270/230/280)	kg
Duct connections	mm	∅ 315 (4x)	∅ 315 (4x)	∅ 315 (4x)	∅ 315 (4x)	∅ 250 (2x)	∅ 315 (4x)	∅ 315 (4x)	300x400 (4x)	∅ 315 (4x)	∅ 315 (4x)	300x400 (4x)	∅ 355 (4x)	700x250 (2x)	300x400 (4x)	300x400 (4x)	400x500 (4x)	600x400 (2x)	400x500 (4x)	400x500 (4x)	600x400 (2x)	400x500 (4x)	1200x600 (4x)	mm
Max. operating current with electric air heater	A	13,2	11	10,8	10,8	10,6 / 15,4 / 24,1	13,2	13,2	13,2	17,5	13,2	15,3	17,1	25 / 35,9	17,1	17,1	16,7	–	–	25,6	–	27,4	–	A
Max. operating current with water air heater	A	7,2	7,2	4,8	4,8	2,9	7,2	7,2	7,2	7,2	7,2	5	6,8	3,8	6,8	6,8	4,2	2,7	4,2	4,4	2,7	6,2	12,8	A
Supply voltage	V/Hz	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	HE 3~400 HW 1~230	3~400	3~400	3~400	3~400	3~400	3~400	3~400	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	Fans type
Electric power input of the fan drive at maximum flow rate	W	470	470	273	273	273	470	470	470	470	470	500	660	2x170	660	660	1000	1000	1000	1000	1000	1700	2730	W
Heater type: E – electric, W – water or HCW – changeover coils		E/HCW	E/W	E/HCW	E/W	E/W	E/HCW	E/W	E/HCW	E/W	E/HCW	E/HCW	E/W	E/W	E/HCW	E/HCW	E/HCW	W	W	E/HCW	W	E/HCW	W	Heater type: E – electric, W – water or HCW – changeover coils
Maximal electric heater capacity	kW	4,5	3	4,5	4,5	6 / 9 / 15	4,5	4,5	4,5	7,5	4,5	7,5	7,5	15 / 22,5	7,5	7,5	9	–	–	15	–	15	–	kW
Control panel type		C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C3.1	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.

* R 1200 UH, CF 1300 UH, R 1400 UH, R 1600 UH, CF 1700 UH, R 2000 UH, CF 2300 UH, R 2500 UH, R 3000 UH, R 4000 UH, R 4500 UH data

** Wave height – XL.

