

komfovent

VERSO
Standard



Compact units
for commercial
premises

VERSO Standard features



Compact units for convenient transportation

- Most of the units can be moved through a standard, 900 mm wide door opening.
- Larger units can be split into separate sections.
- We offer mounting frames or legs (except flat ones), which ensures easier transportation.



Simplified access with VERSO Standard FS units

A sliding door mechanism solves the issue of flat AHU access when there is not enough space for a hinged door due to a false ceiling. The VERSO Standard FS allows easy entry, quick maintenance, and is space-efficient with its sliding door construction. The option is available for all flat VERSO Standard air handling units with rotary and counterflow plate heat exchangers*.

* Except Verso CF 2500 F C5.



Sorption-enthalpy rotary heat exchanger

- Sorption-enthalpy rotary heat exchanger controls the humidity in the premises more efficiently than a condensing rotor. Now sorption-enthalpy is an available option for all Verso R Standard units (except Verso R 1000/1500/2000/3000 F C5 models).
- The humidity from the exhaust air is used to humidify the supply air in winter.
- Wet supplied air in the summertime is dried.
- High comfort is ensured all year long.



Wide range of flat units

15 different models of low-profile F units for saving space when mounted on the ceiling. Some of the units have optional sliding doors, for easier access when installed above false ceiling constructions. Flat units with rotary heat exchangers as well as supply units can also be mounted on the wall or on the floor if needed*.

* AHU's with water heater only.



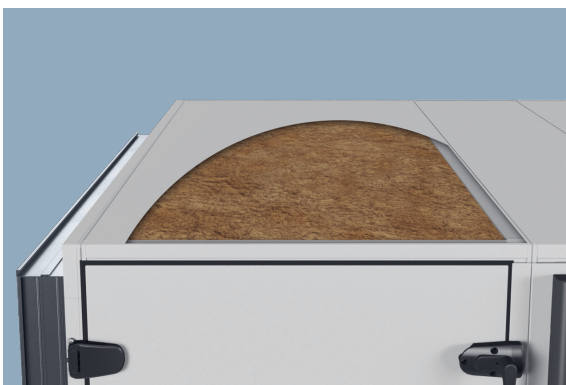
Integrated DX coil

- All VERSO Standard units of the universal type can be ordered with an integrated DX coil.
- Extremely economical air heating even at very low outdoor temperatures.
- Cooling/heating power control.
- Wide range of inverter outdoor units.



Multi-level frost prevention option

- Reduces the energy consumption used for counterflow heat exchanger defrost.
- Less power of the post-heater is needed to reach desired temperatures in winter conditions.
- For water heaters, smaller size PPU can be used.
- Better seasonal heat recovery efficiency is achieved.



Eurovent certificated casing T2 / TB2 / D1 / L1

- The casing is filled with 45/50 mm long-lasting, fire-resistant mineral wool.
- Reduced thermal bridges ensure minimal heat loss through the case and the possibility of condensation both inside and outside the unit.
- The casing filled with mineral wool perfectly reduces noise in the environment.



EUROVENT certified

VERSO units are tested on a regular basis at the EUROVENT climatic laboratory in Germany. Parameters such as performance, efficiency, noise level, tolerances and other are tested.



Control system C5 for VERSO units



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 standard internet browser without any accessories.
- Possibility to control air handling unit by smartphone via Android OS or iOS application software.
- Ability to control the unit not only by control panel or computer, but also by different external devices (switch, timer, etc.) and systems (e.g. the smart house system).

Detailed information for the user

- Air flow indication (m^3/h , m^3/s , l/s).
- Thermal efficiency of the heat exchanger (%).
- Heat exchanger energy recovery (kW).
- Thermal energy savings indicator (%).
- Air heater energy consumption (kWh).
- Heat exchanger recovered energy counter (kWh).
- Fan's energy consumption (kWh).
- SFP factor of PM fans.
- Clogging level of filters (%).

“Komfovent” app

Application is designed to control air handling units with the integrated C5 control system within local network of the building. User-friendly interface is intuitive for both experienced and less experienced users. As the application fully replicates 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 and App Store.

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 / Balance. Possibility to select which temperature to maintain.
- Flow control modes: Constant Air Volume (CAV), Variable Air Volume (VAV), Directly Controlled Volume (DCV).
- Universal operating schedule with up to 20 events, for each of them the user can assign weekday(s) and one of five operating modes.
- Holiday scheduling allows the user to change operating mode or switch off the air handling unit on some dates of the year. Up to 10 events are possible.

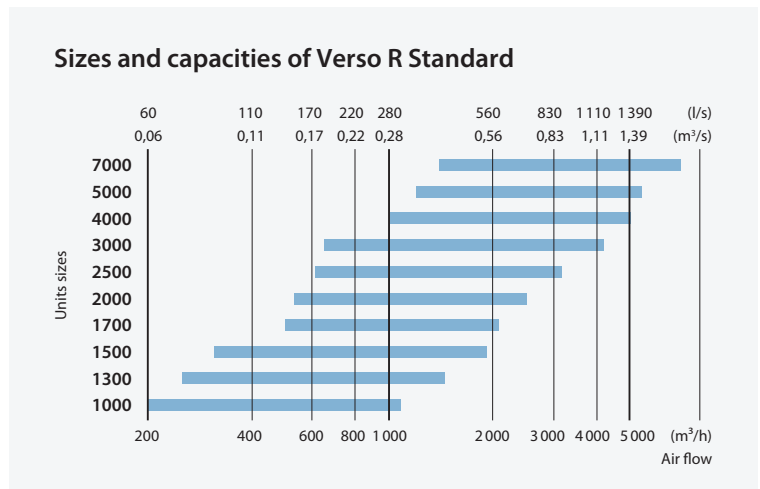
VERSO Standard review

Verso R Standard with rotary heat exchanger

A wide selection of compact units with non-freezing rotary heat exchanger, horizontal, vertical, universal and flat installation.

Verso R Standard units efficiently save energy all year round by significantly reducing both heating and air conditioning costs. Ideal for cold weather countries.

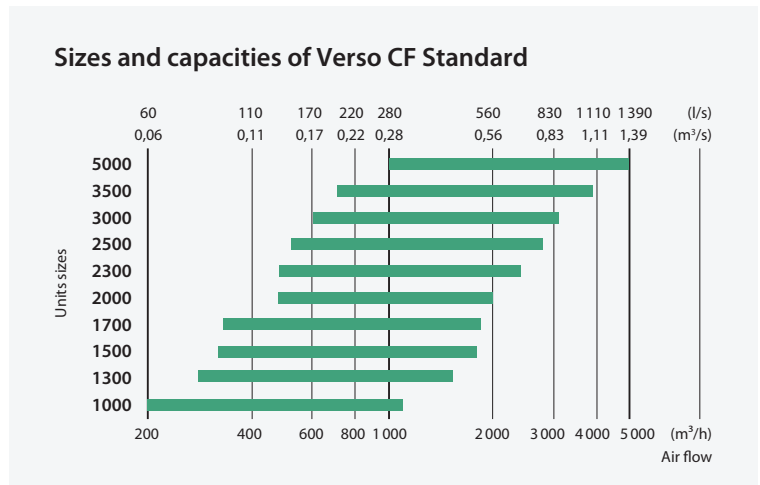
Sorption-enthalpy rotary heat exchangers maintain comfortable indoor climate in the premises.



Verso CF Standard with counterflow heat exchanger

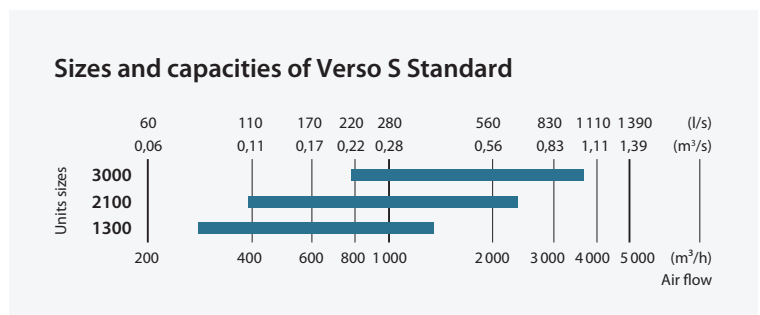
A wide selection of compact units with counterflow plate heat exchanger, horizontal, vertical, universal and flat installation.

Verso CF Standard units efficiently save energy all year round by significantly reducing both heating and air conditioning costs. Ideal for mild and warm climate countries.



Verso S Standard supply air handling unit

Low-height false ceiling supply air handling units are easily installed even in the smallest premises. All VERSO S Standard units have integrated control system, which simplifies units' installation.



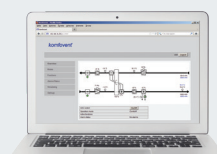
Control options



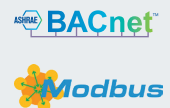
App "Komfovent"



Control panel



Web Server



Connectivity & Protocols

Specifications

Unit size		1000					1300					1500			1700	
AHU type		Verso R	Verso R	Verso R	Verso CF	Verso CF	Verso R	Verso R	Verso CF	Verso CF	Verso S	Verso R	Verso R	Verso CF	Verso R	Verso CF
Heat exchanger type																
AHU version																
Nominal air flow according to ErP 2018	m³/h	945	890	1000	1055	868	1500	1025	1400	1300	1350	1700	1500	1470	1930	1620
Dimensions	B, mm	906	940	1050	910	1100	906	940	910	1100	700	906	1050	1100	910	910
	H, mm	905	480	485	905	527	905	480	905	527	350	905	485	527	1000	905
	L, mm	1355	1360	3000	1810	1650	1355	1360	1810	1650	893	1355	1807	1650	1485	1810
Unit weight	kg	196	140	238	269	173	203	144	225	175	46	206	195	190	220	243
Duct connections	mm	Ø 315 (4x)	Ø 315 (4x)	Ø 315 (2x)	Ø 315 (4x)	Ø 315 (4x)	Ø 315 (4x)	Ø 315 (4x)	Ø 315 (4x)	Ø 315 (4x)	500x200 (2x)	Ø 315 (4x)	Ø 315 (4x)	Ø 315 (4x)	300x400 (4x)	Ø 315 (4x)
Max. operating current with electric air heater	A	7,3	8,5	7,8	9,5	7,3	11,1	8,9	11,1	11,1	15,4 / 24,1	11,1	12,1	11,1	11,1	11,1
Max. operating current with water air heater	A	3,3	4,5	—	3,3	3,3	4,9	4,9	4,9	4,9	2,7	4,9	3,8	4,9	4,9	4,9
Supply voltage	V/Hz	HE 3~400 HW 1~230	HE 3~400 HW 1~230	3~400	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
Fans type		EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC
Electric power input of the fan drive at maximum flow rate	W	179	267	115	178	168	352	533	340	291	236	366	350	525	528	526
Integrated heater type: E – electric, W – water, HCW – changeover coils, HCDX – direct expansion		E, W, HCW, HCDX	E	E	E, W, HCW, HCDX	E	E, W, HCW, HCDX	E	E, W, HCW, HCDX	E	E, W	E, W, HCW, HCDX	E	E	E, W, HCW, HCDX	E, W, HCW, HCDX
Nominal electric heater capacity	kW	3,0	3,0	3,0	4,5	3,0	4,5	3,0	4,5	4,5	9 / 15	4,5	6,0	4,5	4,5	4,5

LEGEND:

Heat exchanger type:



rotary



counterflow



supply air unit

Types of the units:



universal



horizontal

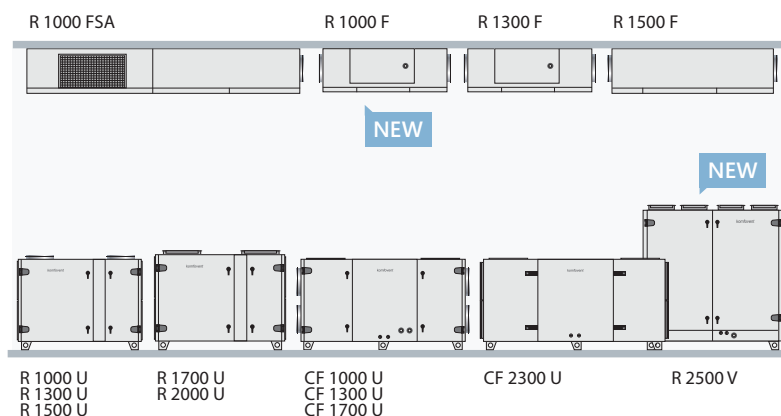


vertical

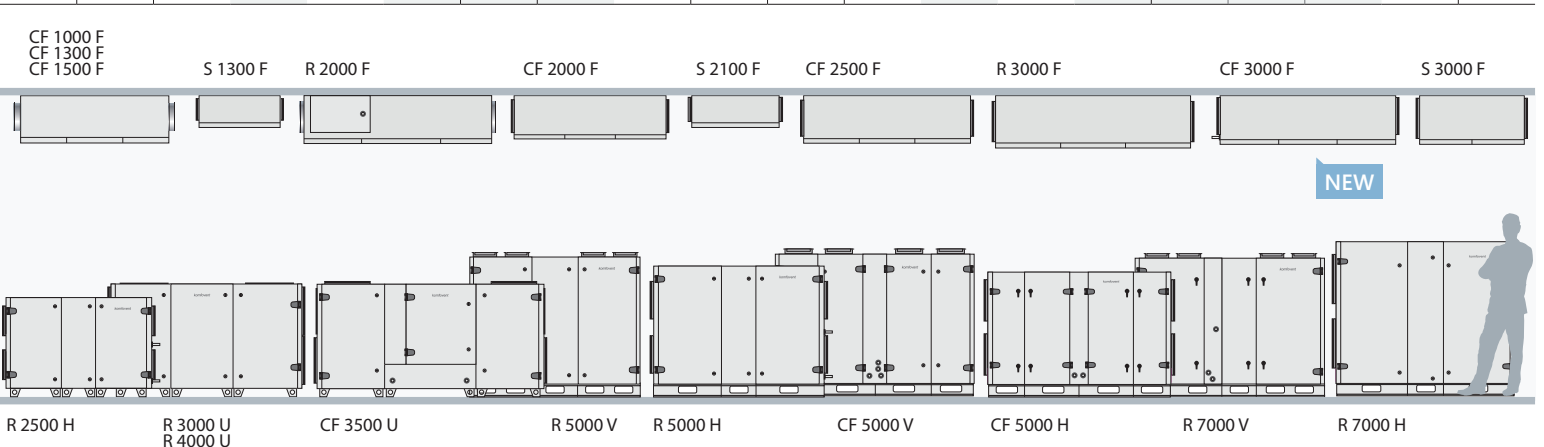


flat

- Standard filter class (supply/exhaust) – ePM1 60% / ePM10 50% (F7/M5)
- C5 control system is integrated in all VERSO units



2000			2100	2300	2500			3000			3500	4000	5000			7000			
Verso R	Verso R	Verso CF	Verso S	Verso CF	Verso R	Verso R	Verso CF	Verso R	Verso R	Verso CF	Verso S	Verso CF	Verso R	Verso R	Verso R	Verso CF	Verso CF	Verso R	Verso R
2280	2070	2000	2210	1980	3040	2650	2542	3840	3200	2950	3800	3074	3985	5470	5270	5025	4605	7000	6850
910	1210	1600	1000	910	950	1000	2000	1150	1210	2000	1015	1150	1150	1405	1300	1400	1410	1505	1525
1000	527	480	350	905	1400	1000	528	1150	648	594	555	1150	1150	1400	1300	1541	1250	1533	1675
1485	2060	1750	893	2000	1500	1606	1850	2100	2160	2050	1160	2500	2100	1900	1872	2315	2327	2204	1980
210	280	235	73	250	270	289	340	456	289	365	130	500	518	600	510	680	684	700	765
300x400 (4x)	∅ 355 (4x)	600x300 (4x)	800x200 (2x)	300x400 (4x)	700x250 (4x)	700x300 (4x)	700x300 (4x)	400x500 (4x)	500x400 (4x)	750x400 (4x)	800x400 (2x)	400x500 (4x)	400x500 (4x)	300x1100 (4x)	1000x500 (4x)	300x1100 (4x)	1100x400 (4x)	300x1200 (4x)	1200x600 (4x)
16,9	16,8	15,4	25,4 / 36,3	16,8	14,5	18,8	16,9	19	19,8	17,1	—	23,4	31,1	29,5	34,1	29,7	29,7	34,9	48
6,3	6,3	4,9	4	6,3	7,5	8,3	6,3	6,3	7,1	8,3	3,8	6,3	9,7	8,1	12,7	8,3	8,3	13,5	13,5
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	HE 3~400 HW 1~230	3~400	3~400	3~400	3~400	3~400	3~400	3~400	3~400	3~400
EC	EC	EC	EC	EC	EC	EC	EC	PM	PM	EC	PM	PM	PM	EC	PM	EC	EC	PM	PM
649	670	544	337	660	744	762	640	862	726	752	680	960	1436	1279	1449	1850	2263	1287	1742
E, W, HCW, HCDX	E	E	E, W	E, W, HCW, HCDX	E, W, HCW, HCDX	E, W	E	E, W, HCW, HCDX	E	E	W	E, W, HCW, HCDX	E, W, HCW, HCDX	E, W, HCW, HCDX	W	E, W, HCW, HCDX	E, W, HCW, HCDX	E, W, HCW, HCDX	W
7,5	7,5	7,5	15 / 22,5	7,5	7,5	7,5	7,5	9	9	9	—	12	15	15	15	15	15	15	24



KOMFOVENT selection software

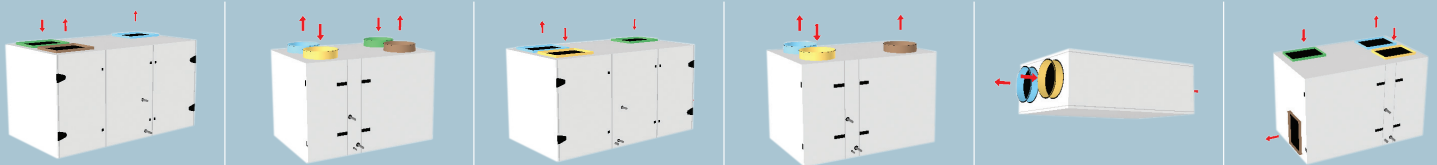
KOMFOVENT SELECT is a newly developed tool designed for seamless selection of the air handling unit. The software enables intuitive customization of modular units to meet specific project requirements. Once a unit is selected, the program generates a detailed BIM model, allowing it to be integrated into your project for seamless execution.

- Cloud-based selection software.
- For VERSO Standard and Pro units with capacity from 250 to 40 000 m³/h.
- EUROVENT and RLT certificates guarantee the accuracy of the parameters.
- Detailed technical data report including fan curves.
- Generating VERSO Pro 3D models for the REVIT program.
- Convenient and friendly user interface.
- Ability to share.



BIM models of VERSO Standard units

- KOMFOVENT Add-in for REVIT
- MagiCAD Cloud



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