komfovent®

Commercial ventilation units VERSO

Verso R
units with rotary heat exchanger

Verso P
units with plate heat exchanger

Verso CF
units with counterflow plate heat exchanger

Verso S
supply air units

VERSO

Efficient AHU with integrated automatic control

Energy saving technology

Units are equipped with the most efficient and advanced technical solutions: high efficiency PM/EC fans, non-freezing rotary heat exchangers, high efficiency counter flow heat exchangers, high surface area air filters. All of these solutions greatly reduce operational costs and shorten payback time.

Plug & Play – all included

All units are assembled and tested at the factory, therefore installation and commissioning work is significantly simplified. Integrated intelligent automation requires minimum user input. Factory predefined settings – simply "Plug and Play". The user can change every setting according to individual preferences. Units can be monitor and controlled remotely via the Internet.

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 others are tested.

Advanced technical solutions

PM motors

Ultra Premium efficiency IE5 class PM fan motors minimize power consumption and ensure durability of the unit.

Energy recovery

Non-freezing rotary heat exchangers efficiently recover heat and cold, control humidity and provide comfort throughout the year.

Inteligent control C5

Smart algorithms in the integrated automation ensure reliable and efficient operation of the unit and reduce operating costs.

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VERSO series and range

Verso R
units with a rotary heat exchanger

Verso CF
units with a counterflow plate heat exchanger

Verso P
units with a plate heat exchanger

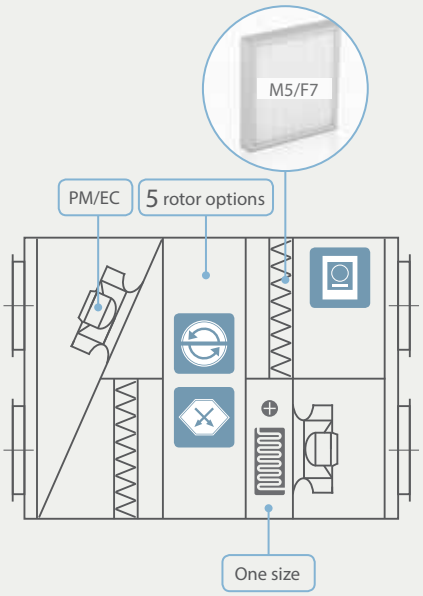
Verso S
supply air units

VERSO units are designed for efficient ventilation and are suitable for various types of projects. You can choose unified unit from VERSO Standard series, or VERSO Pro which can be specifically tailored to meet your requirements. Large number of configurations (vertical, horizontal, flat and universal type, with rotary or plate heat exchangers) allows you always select optimal and most efficient solution.

VERSO Standard

1000 – 8000 m³/h

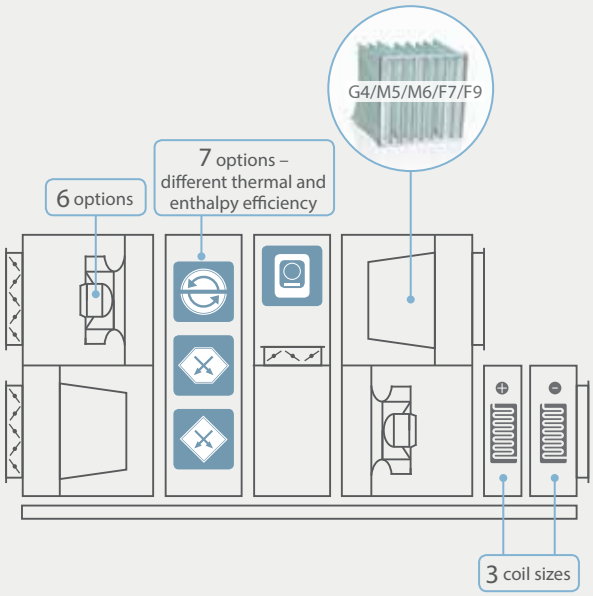
- ✓ Vertical, horizontal, flat or universal application
- ✓ Compact design
- ✓ Models for REVIT software



VERSO Pro

1000 – 40000 m³/h

- ✓ 10 basic sizes for various combinations
- ✓ Professionally convenient software
- ✓ Selection of desired heat exchanger, fan, heater/cooler
- ✓ REVIT models



VERSO Standard

Capacity range from 1000 to 8000 m³/h

Fast choice
Available in technical catalogue.

Exact selection
Possible with selection software.

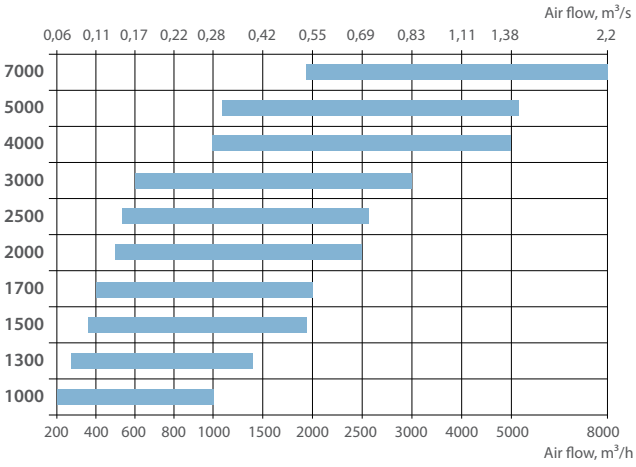
Unification and standardization
Precisely selected the most suitable and most effective components.

Wide range of units
Various connection and application opportunities.

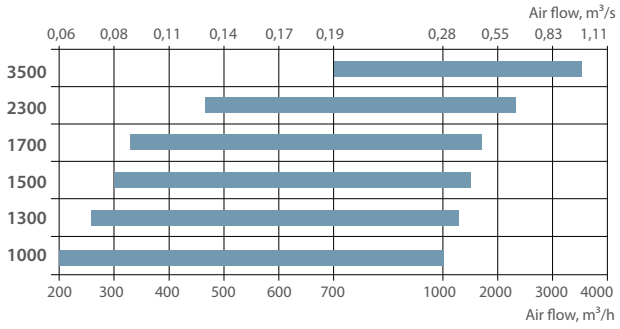
Intelligent control
Fully integrated multi functional control with BMS connectivity.

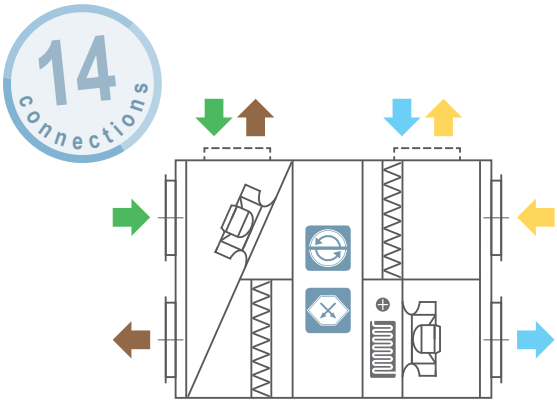
Universality
Vertical and horizontal, heating and cooling in one.

Sizes of Verso R units



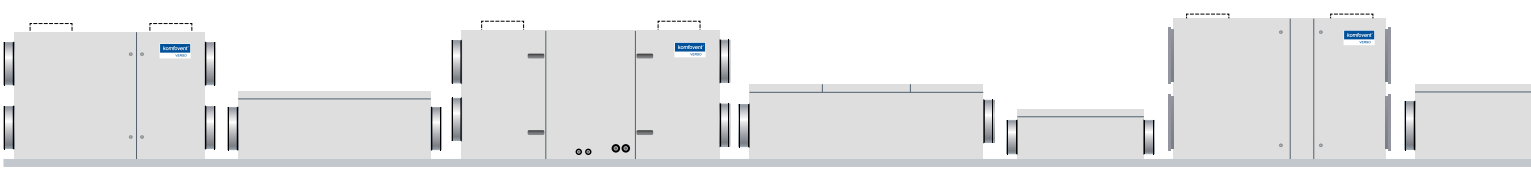
Sizes of Verso CF units





VERSO STANDARD air handling units. Specifications

Unit size		1000			1300				
AHU type		Verso R	Verso CF	Verso CF	Verso R	Verso R	Verso CF	Verso CF	Verso S
Heat exchanger type		rotary	counter cross-flow	counter cross-flow	rotary	rotary	counter cross-flow	counter cross-flow	supply air unit
AHU version		universal* (U)	universal* (U)	flat (F)	universal* (U)	flat (F)	universal* (U)	flat (F)	flat (F)
Nominal air flow	m^3/h	900	1050	1000	1300	1500	1400	1300	1300
Dimensions	B, mm	906	910	1210	906	940	910	1100	700
	H, mm	905	905	527	905	480	905	527	350
	L, mm	1355	1810	1650	1355	1360	1810	1650	893
Unit weight	kg	196	225	173	203	144	225	175	46
Duct connections	mm	∅ 315 (4×)	∅ 315 (4×)	∅ 315 (4×)	∅ 315 (4×)	∅ 315 (4×)	∅ 315 (4×)	∅ 315 (4×)	∅ 250 (2×)
Max. operating current with electric air heater	A	7,3	9,5	7,3	11,7	10,7	11,7	11,7	15,7 / 24,4
Max. operating current with water air heater	A	3,3	3,3	3,3	5,5	6,7	5,5	5,5	2,9
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
Fans type		EC	EC	EC	EC	EC	EC	EC	EC
Electric power input of the fan drive at maximum flow rate	W	178	165	171	221	428	260	310	350
Heater type: E – electric, W – water HCW – changeover coils		E/HCW	E/HCW	E/W	E/HCW	E/W	E/HCW	E/W	E/W
Maximal electric heater capacity	kW	3,0	4,5	3,0	4,5	3,0	4,5	4,5	9 / 15
Control panel type		C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1



Verso R 1000 U
Verso R 1300 U
Verso R 1500 U

Verso R 1300 F

Verso CF 1000 U
Verso CF 1300 U
Verso CF 1700 U

Verso CF 1000 F
Verso CF 1300 F
Verso CF 1500 F

Verso S 1300 F

Verso R 1700 U
Verso R 2000 U

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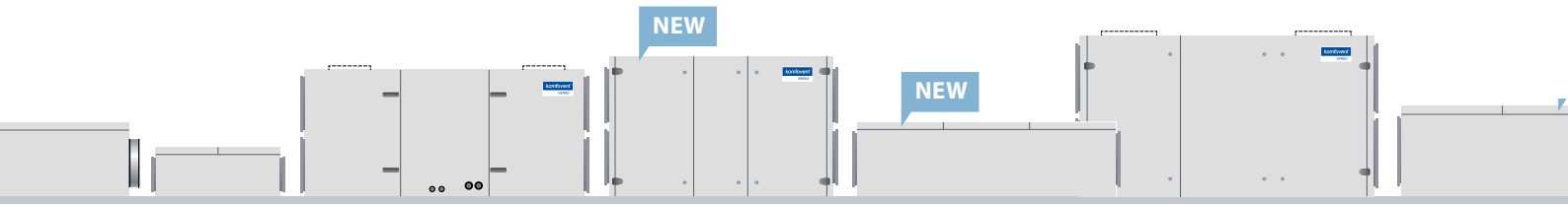
1500		1700		2000		2100	2300	2500	
Verso R	Verso CF	Verso R	Verso CF	Verso R	Verso R	Verso S	Verso CF	Verso R	Verso CF
rotary	counter cross-flow	rotary	counter cross-flow	rotary	rotary	supply air unit	counter cross-flow	rotary	counter cross-flow
universal* (U)	flat (F)	universal* (U)	universal* (U)	universal* (U)	flat (F)	flat (F)	universal* (U)	horizontal (H)	flat (F)
1800	1600	2000	1700	2500	2150	1900	2400	2800	2600
906	1100	910	910	910	1210	1000	910	1000	2000
905	527	1000	905	1000	527	350	905	1000	528
1355	1650	1485	1810	1485	2060	893	2000	1612	1850
206	190	220	243	210	280	73	250	340	340
∅ 315 (4×)	∅ 315 (4×)	300×400 (4×)	∅ 315 (4×)	300×400 (4×)	∅ 355 (4×)	700×250 (2×)	300×400 (4×)	700×300 (4×)	700×300 (4×)
12,9	12,9	12,9	12,9	16,9	16,9	24,7 / 35,6	16,8	22	16,9
6,7	6,7	6,7	6,7	6,3	6,3	3,3	6,3	11,7	6,3
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
EC	EC	EC	EC	EC	EC	EC	EC	EC	EC
444	420	430	465	610	580	340	640	771	607
E/HCW	E/W	E/HCW	E/HCW	E/HCW	E/W	E/W	E/HCW	E/W	E/W
4,5	4,5	4,5	4,5	7,5	7,5	15 / 22,5	7,5	7,5	7,5
C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1



Verso S 2100 F | Verso CF 2300 U | Verso R 2500 H | Verso CF 2500 F | Verso R 3000 U, Verso R 4000 U | Verso R 3000 F

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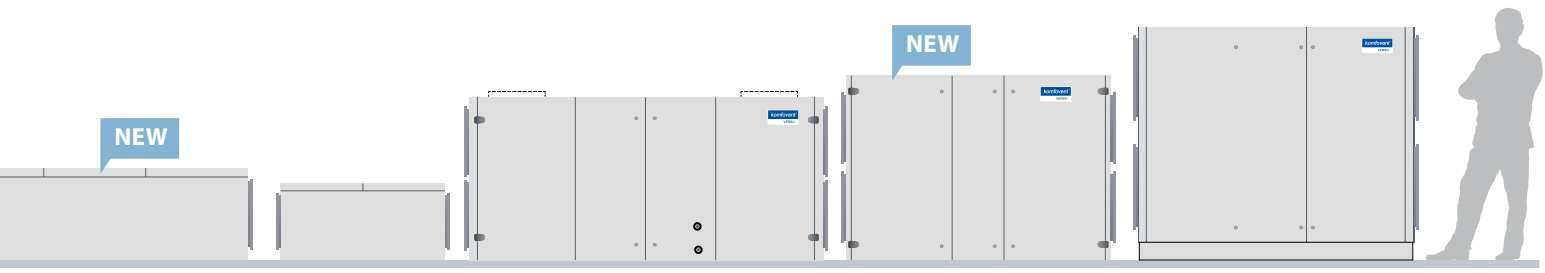
3000			3500	4000	5000	7000	Unit size	
Verso R	Verso R	Verso S	Verso CF	Verso R	Verso R	Verso R		AHU type
rotary	rotary	supply air unit	counter cross-flow	rotary	rotary	rotary		Heat exchanger type
universal* (U)	flat (F)	flat (F)	universal (U)	universal* (U)	horizontal (H)	horizontal (H)		AHU version
3200	4200	3600	3500	5100	5300	6800	m^3/h	Nominal air flow
1150	1318	1015	1150	1150	1300	1500	B, mm	Dimensions
1150	648	555	1150	1150	1300	1520	H, mm	
2100	2160	1160	2500	2100	1872	1890	L, mm	
440	289	125	500	478	442	765	kg	Unit weight
400×500 (4×)	500×400 (2×)	600×400 (2×)	400×500 (4×)	400×500 (4×)	1000×500 (4×)	1200×600 (4×)	mm	Duct connections
19,8	19,9	–	19,8	31,1	–	–	A	Max. operating current with electric air heater
7,1	7,1	3,8	7,1	9,7	13,1	18,1	A	Max. operating current with water air heater
3~400	3~400	3~400	3~400	3~400	3~400	3~400	V/Hz	Supply voltage
PM	PM	PM	PM	PM	PM	PM		Fans type
688	1167	930	851	1371	1410	1570	W	Electric power input of the fan drive at maximum flow rate
E/HCW	E/W	W	E/W	E/HCW	W	W		Heater type: E – electric, W – water HCW – changeover coils
9	9	–	9	15	–	–	kW	Maximal electric heater capacity
C5.1	C5.1	C5.1	C5.1	C5.1	C5.1	C5.1		Control panel type



3000 F Verso S 3000 F Verso CF 3500 U Verso R 5000 H Verso R 7000 H

VERSO Pro

Capacity range from 1000 to 40000 m³/h

Customized solution
Accurate and fast unit selection with Eurovent – certified program.

Plug & Play
Factory installed and tested automation.

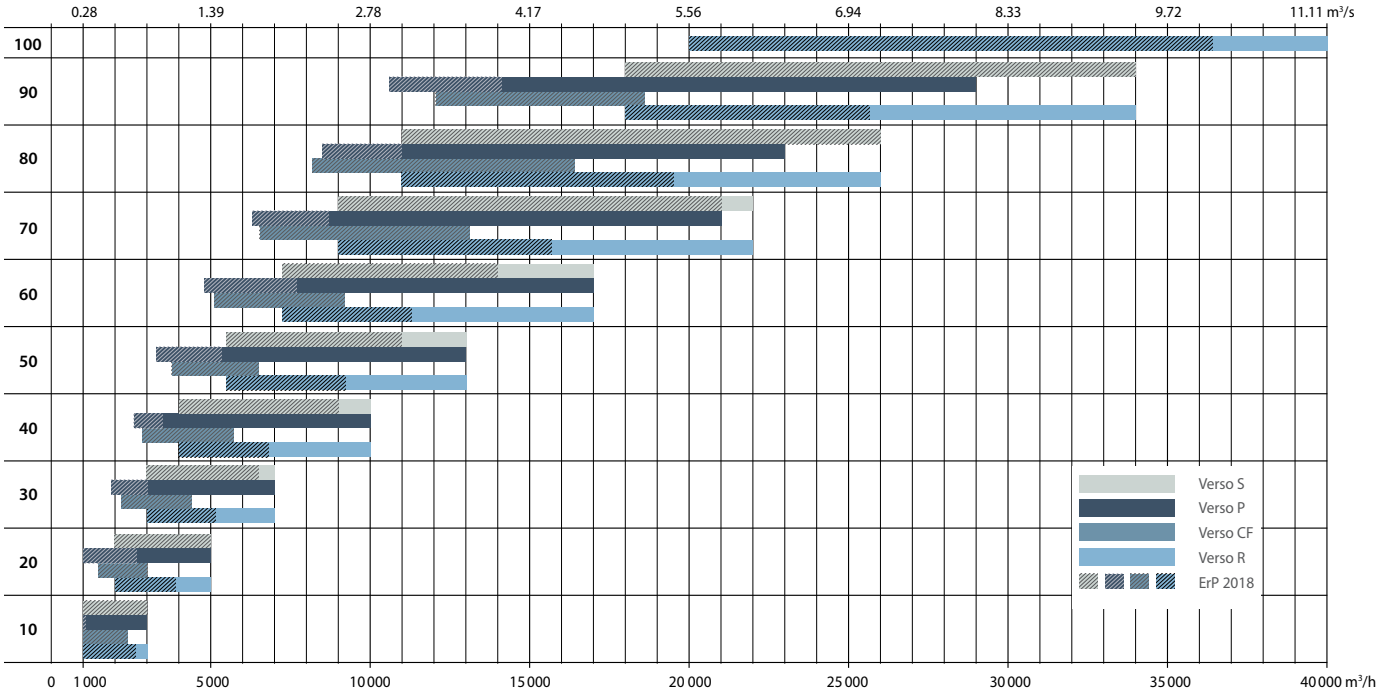
Flexibility
Wide selection of components.

Efficient PM/EC fans
The best *Ultra Premium* IE5 or *Super Premium* IE4 fan motors.

Low noise level
Special materials and unique technical solutions.

3+1 antifrost solution for Verso CF
Lower freezing probability and energy consumption.

Air flow



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VERSO

Professional and convenient selection with Eurovent certified software

- Simple and intuitive selection program generating digital models of equipment for the REVIT design program.
- Accurate and detailed information. The report contains all details according to Eurovent, RLT and Ecodesign requirements.
- The program is constantly updated and enhanced with new features.

1 Select the type of unit.

2 Choose the group VERSO STANDARD or project oriented VERSO PRO units.

3 Technical data sheets present important technical parameters at a specified working point of the selected unit: effciency, SFP, acoustics and other projects' required data.

KOMFOVENT HUB – digital drawings library for REVIT users

Digital drawings of VERSO Standard units can be imported to REVIT using KOMFOVENT HUB library or by downloading the drawing from the KOMFOVENT webpage.

VERSO Pro units' drawings are generated in VERSO selection software.

Using KOMFOVENT HUB for REVIT affords you the following advantages:

- saves team time;
- faster changes;
- exact quantities.

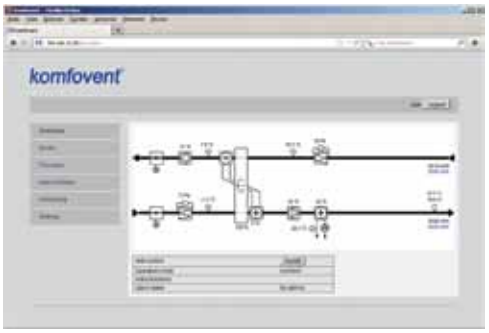
C5 integrated control

C5 automation is specifically designed for controlling ventilation and air conditioning units in order to maximize energy savings. The C5 is best suited for the user needs. The air handling unit can be controlled by both a control panel and a computer or smart mobile device. Many useful features and smart algorithms significantly reduce the operating costs.

Integrated web server

VERSO air handling unit operation may be monitored and controlled via web browser. Implemented Modbus and BACnet protocols allow easy integration of air handling units to any desired Building Management Systems.

Modbus BACnet



Unit's operation analysis

The computer program "Komfovent LogPlotter" has been designed to analyze the unit's operation history of the last 7 days. Unit's operation with C5 can be monitored not only in real-time from now on. The program can be downloaded from **www.komfovent.com.**

UAB KOMFOVENT
Ozo str.10, LT-08200 Vilnius, Lithuania
info@komfovent.com, **www.komfovent.com**

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