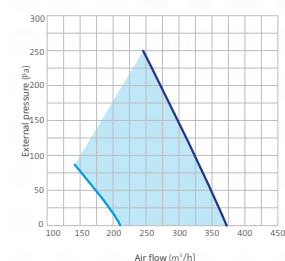
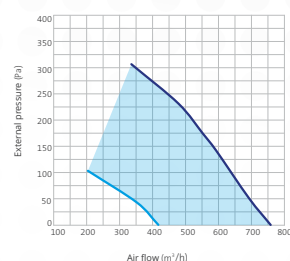


## TECHNICAL DATA

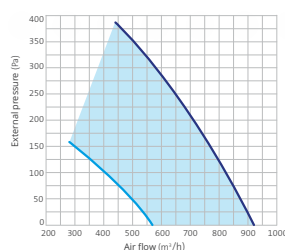
WTU-250-EC-E



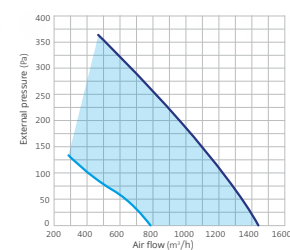
WTU-600-EC-E



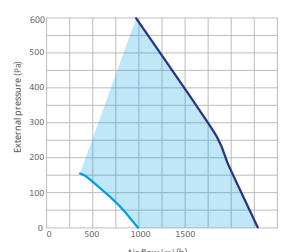
WTU-800-EC-E



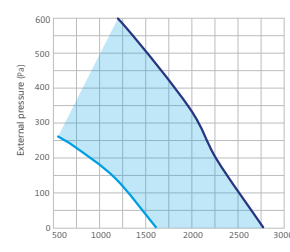
WTU-1000-EC-E



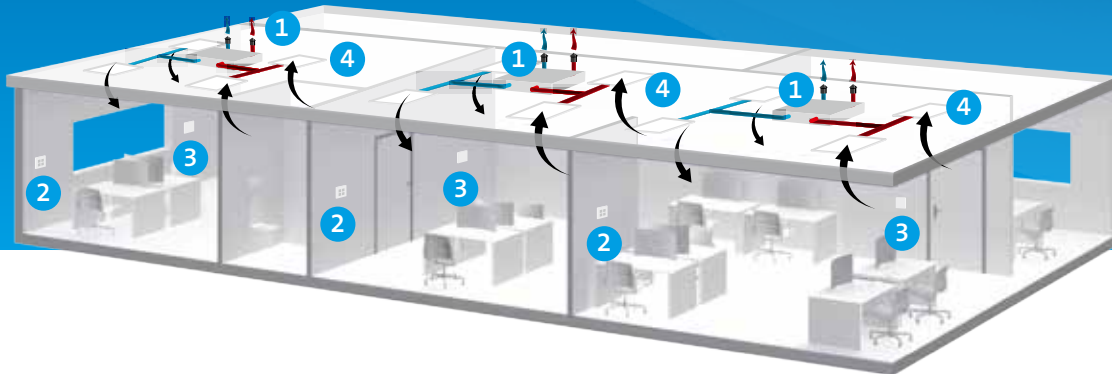
WTU-1500-EC-E



WTU-2000-EC-E



- 1 WTU decentralised
- 2 CO<sub>2</sub> wall sensor
- 3 Display WTU
- 4 Ceiling diffuser



## REGULATION

The WTU-EC-IE is supplied with a Regin controller and a digital control panel with cable. The control panel has the following functions:

- MOD bus/ BAC-net/Exoline over TCP/IP and RS-485 (for full control from BMS system)
- Output for 0-10V, on/off heating and/or cooling
- Multilingual menu structure (including Dutch)
- Alarm output/input
- Fully automatic control
- Engine speeds adjustable on the display
- Integrated defrost function
- Extensive CO<sub>2</sub> control options, e.g. also on the basis of a weekly timer
- Readout and control via laptop with Corrigo E-tool Ventilation (download free of charge from orcon.nl)
- Filter indication
- The WTU-1000, 1500 and 2000 models are suitable for connection to DX battery and Freeverter heat pump for top cooling and heating.

## Want to know more about an exceptional indoor climate?

Our goal is to provide everyone with the most comfortable and healthy indoor climate possible. An environment in which people feel comfortable and function optimally. With this vision in mind, we have developed into the leading supplier of ventilation systems for residential and commercial construction.



### Orcon Academy

Being a leader in products also means being a leader in knowledge. Orcon closely follows technological developments and legislation and incorporates these in various training courses. Visit our website for more information or to register for a training course.



### Green Igloo

Green Igloo' is the green label of Orcon and its sister company Thercon. Green Igloo' stands for an efficient ventilation system and a sustainable heating system in a well insulated low-energy house, school or office. You can read more about Green Igloo at [www.greenigloo.nl](http://www.greenigloo.nl)

The office of Orcon and Thercon in Veenendaal is a perfect example of a modern and energy efficient office building, fully air-conditioned according to the Green Igloo label. Follow the energy consumption of our building closely with the Energy Monitor at [www.greenigloo.nl/energiemonitor](http://www.greenigloo.nl/energiemonitor).



### Corporate Social Responsibility

An exceptional indoor climate also means attention to the outdoor climate. We therefore feel responsible for people and the environment. For example, we use recyclable materials as much as possible in the development of our products and we employ people from sheltered employment in our production process.

# WTU-EC-IE

## Compact and extremely quiet MVHR units for offices and shops





# WTU-EC-IE

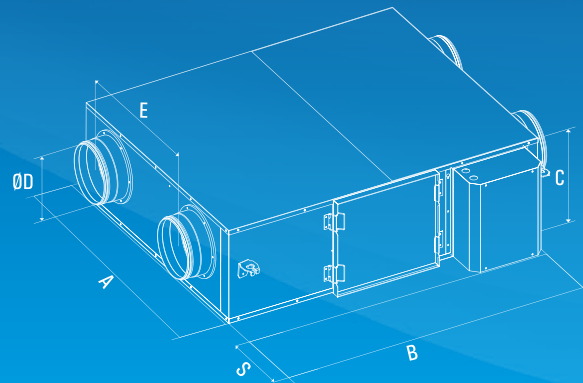
Flat heat recovery units  
for offices and shops



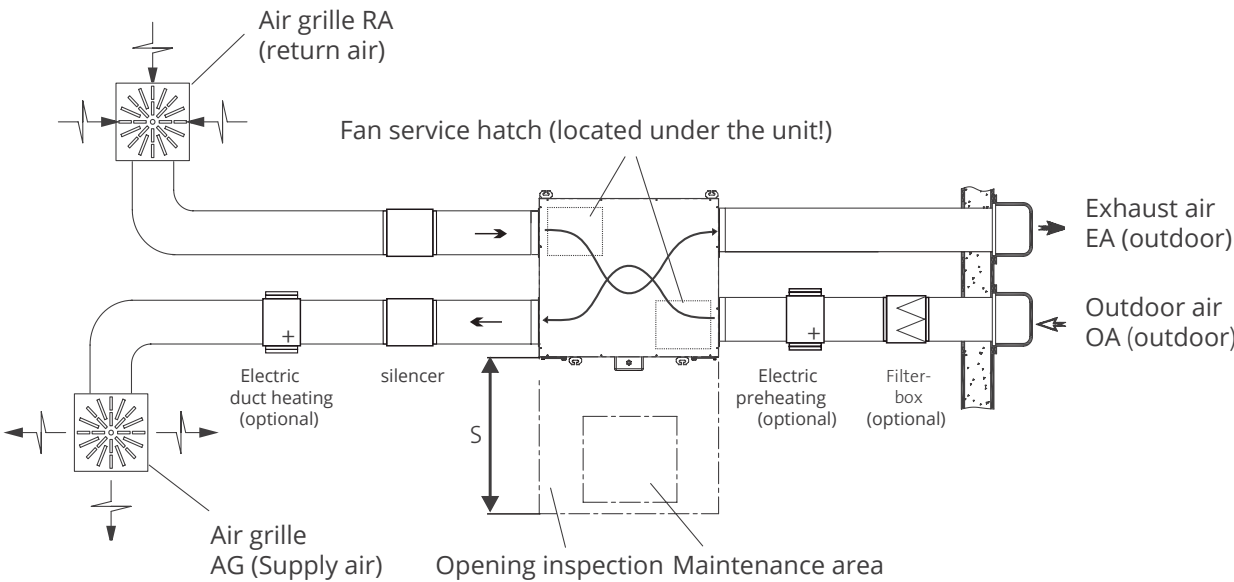
## DIMENSION

Device dimensions					
	A	B	C	ØD	E
WTU-250-EC-IE	808	956	358	Ø160	404
WTU-600-EC-IE	981	1186	416	Ø200	505
WTU-800-EC-IE	1071	1264	472	Ø250	590
WTU-1000-EC-IE	1351	1657	472	Ø300	720
WTU-1500-EC-IE	1185	1856	614	Ø355	623
WTU-2000-EC-IE	1485	1856	614	Ø355	921

\* All dimensions are in millimetres.



## TOP VIEW



Type	WTU-250-EC-IE	WTU-600-EC-IE	WTU-800-EC-IE	WTU-1000-EC-IE	WTU-1500-EC-IE	WTU-2000-EC-IE
S	700	700	760	760	800	800

S: indicates the space for service on the side of the device in millimetres

## SPECIFICATIONS

Type		WTU-250-EC-IE	WTU-600-EC-IE	WTU-800-EC-IE	WTU-1000-EC-IE	WTU-1500-EC-IE	WTU-2000-EC-IE
Nominal voltage		230 V/1 ~/ 50 Hz.	230 V/1 ~/ 50 Hz.	230 V/1 ~/ 50 Hz.	230 V/1 ~/ 50 Hz.	230 V/1 ~/ 50 Hz.	230 V/1 ~/ 50 Hz.
Typology		NRVU					
Drive type		VSD					
Heat recovery type		overig					
Thermal rendement [1]	%	75	73	73	76	75	75
Reference flow	m³/h	200	440	800	1000	1200	1700
Maximum flow rate	m³/h	374	760	921	1425	2280	2780
Electrical input power ref. flow rate	W	44	97	244	256	351	462
Maximum power consumption	W	52	218	290	300	1010	1010
SFP int. [1]	W(m³/s)	317	436	757	575	730	745
Air velocity at reference flow	m/s	0,6	0,8	1,1	1	1,2	1,3
Reference external pressure differential	Pa	100					
Internal pressure drop ventilation components	Pa	67	113	240	164	226	218
Internal pressure drop non ventilation components	Pa	nvt					
Static efficiency fans according to (EU 327/ 2001)	%	41	44	50	49	54	58
External unit leakage	%	2,3	1,9	0,4	0,2	1,3	0,6
Filter type according to ISO 16890		Coarse 45%					
Optional filter type supply air according to ISO 16890		ePM1 50%					
Description for visual filter indication for NRVU		<a href="http://www.orcon.nl/categorie/wtu-ecie-decentrale-wtw-unit-utiliteit/">www.orcon.nl/categorie/wtu-ecie-decentrale-wtw-unit-utiliteit/</a>					
Internet address for service and maintenance		<a href="http://www.orcon.nl/categorie/wtu-ecie-decentrale-wtw-unit-utiliteit/">www.orcon.nl/categorie/wtu-ecie-decentrale-wtw-unit-utiliteit/</a>					
Net weight of appliance	kg	52	83	97	135	164	179

\*\* Measured at 1.5 metres distance from the unit's casing @ 250 Hz sound band.

## ACCESSORIES



FFR filterbox



CBRF preheater



CBA reheater



CO<sub>2</sub> channel sensor



CO<sub>2</sub> wall sensor



Grids



VBC hot water battery



ZTV 2-away valve



ZTR 3-away valve

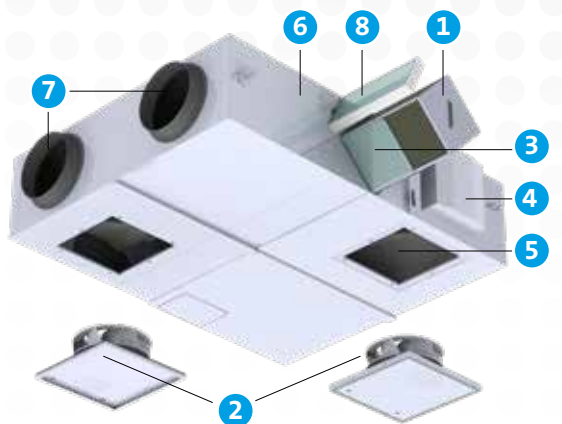


RVAZ Klepaandrijving



Channel sensor

## EQUIPMENT CONSTRUCTION

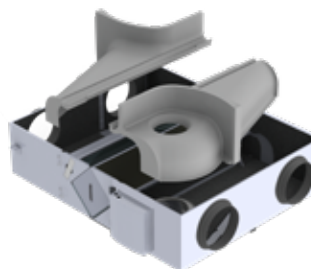


- 1 Heat exchanger
- 2 Exhaust and supply fan with EC technology
- 3 Exhaust and supply filters
- 4 Regin controller
- 5 EPS inside
- 6 Double housing with insulation
- 7 Channel connections
- 8 Optional pollen filter (ePM1)



### Housing

- Double sheet metal 200 gr/m2 galvanised material
- Interior is 40 kg/m2 EPS, aerodynamically shaped



### EPS parts

By using aerodynamically shaped EPS pieces, the air is optimally guided along the exchanger. This ensures that the motors can work as efficiently as possible, so that the energy consumption and noise level are as low as possible.