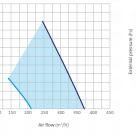
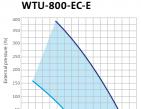
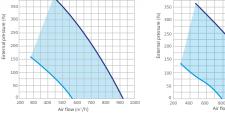
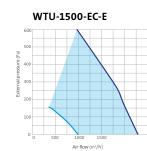


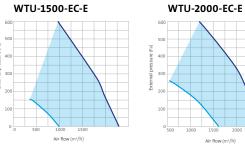
WTU-1000-EC-E



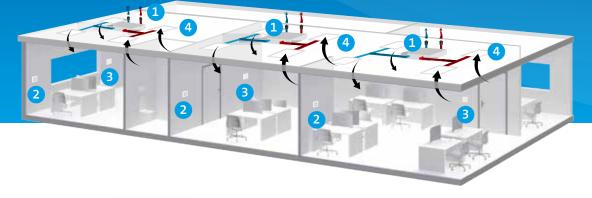








- 1 WTU decentralised
- 2 CO, wall sensor
- 3 Display WTU
- 4 Ceiling diffuser







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 CO2 control options, e.g. also on the basis of a weekly timer
- Readout and control via laptop with Corrigo E-tool Ventilion (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.



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



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' is the green label of Orcon and its sister company green igloo 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

> The office of Orcon and Thercon in Veenendaal is a perfect example of a modern and energy efficient office building, fully airconditioned according to the Green Igloo label. Follow the energy consumption of our building closely with the Energy Monitor at 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.





Compact and extremely quiet MVHR units for offices and shops



Landjuweel 25, 3905 PE Veenendaal | Postbus 416, 3900 AK Veenendaal t +31 (0)318 54 47 00 | info@orcon.nl | www.orcon.nl

WTU-EC-IE

Flat heat recovery units for offices and shops







WHAT MAKES THE WTU-EC-IE SPECIAL?

· Comfortable indoor climate with filtered and pre-

· Low noise level because the motors are mounted

• Easy to install above a suspended ceiling, thanks

• Conforms to ERP 2018- Standard suitable for CO2-

• Easy to integrate into a TCP/IP network, can be

read centrally, for example by the building

Integrated smart controller and display

• Plug and play installation, ready to plug in

• Easy to maintain thanks to service hatches

• EPS-insulation with double housing and extra

Ventilation controlled per room

High energy savings

Automatic bypass control

to the low built-in height

• Capacity 250 to 2,000 m3/h

PEOPLE PERFORM BETTER IN A HEALTHY ENVIRONMENT WITH SUFFICIENT OXYGEN. THIS CERTAINLY APPLIES TO OFFICES AND SHOPS WHERE MANY PEOPLE COME TOGETHER AND WORK TOGETHER, YET THE MAJORITY OF RETAIL AND OFFICE BUILDINGS STRUGGLE WITH TOO HIGH CO2 LEVELS, ORCON HAS DEVELOPED THE WTU-EC-IE TO ENABLE PEOPLE TO PERFORM AT THEIR BEST EVERY DAY IN A COMFORTABLE INDOOR CLIMATE. THIS SILENT BALANCE VENTILATION SYSTEM ENSURES HEALTHY AND FRESH AIR IN EVERY SINGLE ROOM AND CONTRIBUTES TO A MORE EFFECTIVE AND EFFICIENT WORKING ENVIRONMENT AND EFFICIENT WORKING ENVIRONMENT. ORCON CALLS THIS WORKING IN AN EXCEPTIONAL INDOOR CLIMATE.

heated air

No condensate drain required

The WTU-EC-IE is equipped with an enthalpy heat exchanger which recovers both heat and humidity. This keeps the temperature and relative humidity at a comfortable level. An additional advantage: no condensate drain is required.

Cool air in summer

For optimum comfort, the WTU-EC-IE is equipped as standard with an automatic bypass. The bypass ensures that the building does not heat up further in summer by blowing fresh filtered air at night.

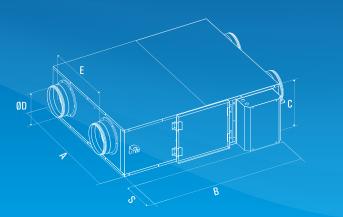
Energy-saving

To ensure that no heat is lost, the WTU-EC-IE heats the cold incoming air with the warm outgoing air. It is therefore the most energy-efficient way of ventilation. In addition, the energy consumption is very low thanks to the use of the latest technologies. The applied EC-motors with backward-curved blades are equipped with DC technology, resulting in a very high efficiency, high energy savings and a long lifetime.

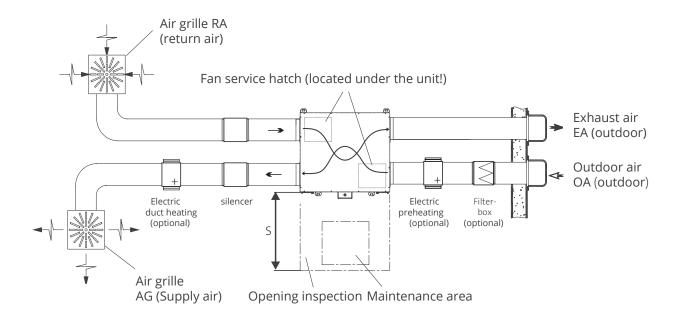
DIMENSION

Device dimensions							
	Α	В	С	ØD	Е		
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		





TOP VIEW



Туре	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

Гуре		WTU-250-EC-IE	WTU-600-EC-IE	WTU-800-EC-IE	WTU-1000-EC-IE	WTU-1500-EC-IE	WTU-2000-EC	
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	
Гуроlоду				NR	·VU			
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 different	ial 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		www.orcon.nl/categorie/wtu-ec-ie-decentrale-wtw-unit-utiliteit/						
Internet address for service and maintenance		www.orcon.nl/categorie/wtu-ec-ie-decentrale-wtw-unit-utiliteit/						
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



battery







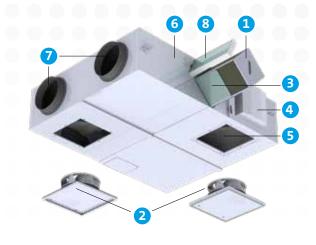








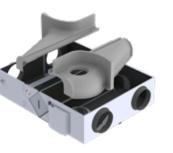
ZTR 3-away valve RVAZ Klepaandrijving Channel sensor



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



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



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.