







We are an expert in providing complete heating and ventilation solutions for medium and big cubature buildings. Our offer consists of three main product groups:



Air heating and ventilation



Air curtains and air curtain-fan heater combo units



Ductless ventilation with heat recovery

System FLOWAIR

is a pioneering solution that enables integration of operation of heating and ventilation units and control their operation with only one controller. Innovative control SYSTEM makes possible to take advantage of features that were previously reserved for extensive building management system BMS.



- control of all units from one place
- quick access to operating parameters of the units



OXeN - Main features

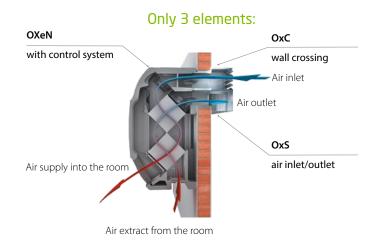
Ductless

No duct system

OXeN is the effective ductless ventilation with direct flow of the air into the occupied zone.

Easy maintenance

No duct system and easy access to filters and heat recovery exchangers. Thanks to this you will quickly perform maintenance of the unit without the involvement of specialized service companies. OXeN is pure ventilation without burdensome and dirty ducts.



Energy-efficient

Lower operation costs

68,4% efficiency of heat recovery



OXeN ventilation units meet all of the requirements of directive no. 2009/125/WE, which establishes a framework of ecodesign requirements for energy-related products.

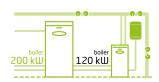
easy to clean and maintenance



The unit's design provides easy access to the heat recovery exchanger and filter replacement.

Lower investment costs

cheaper boiler



Reduced energy demand means lower power boiler and pump and cheaper installation.

cheaper transport and storage



1 palette = 1 OXeN with all accessories and complete, connected control system.

Compact

It could not be designed easier. No assembling, matching, fixing. Oxen after removing from the palette is immediately ready for installation.



Low weight 67 kg – does not require special supporting structures.



To install OXeN only one hole in the wall is required.



Equipped as standard with installation holders.





OXeN



Ventilation unit OXeN

Air flow [m³/h]	150–1200		
Efficiency of heat recovery [%]	up to 78,9		
Weight [kg]	67,2–73,4		
Casing	EPP (expanded polypropylene)		
Colour	grey		

Application:

Medium cubature buildings, where fresh air supply is demanded and where air duct installation is unfounded, e.g. gas stations, stores, workshops, warehouses, sports halls etc.

OXeN ventilation unit is:

- the easiest way to create mechanical ventilation system with heat recovery,
- $\bullet \ \ the \ ductless \ ventilation \ system, \ which \ allow \ significant \ \textbf{reduction of investment costs},$
- the highly-efficient heat recovery system, which reduces operation costs.

Available models



- X2-N-1.2-V unit without additional air heating for installation on the wall
- X2-W-1.2-V junit with air heating by water heater for installation on the wall



- X2-N-1.2-H unit without additional air heating for installation under the ceiling
- X2-W-1.2-H unit with air heating by water heater for installation under the ceiling

Dimensions











Technical data

	X2-W-1.2-V	X2-N-1.2-V	X2-W-1.2-H	X2-N-1.2-H		
Max. air flow stream inlet/outlet(1) [m³/h]		1200				
Air stream range ⁽²⁾ [m]		15				
Air flow regulation inlet/outlet [m³/h]	stepless, 150–1200					
Acoustic pressure level(3) [dB(A)]	49					
Power supply [VAC/Hz]		230/50				
Max. current consumption [A]		1,9				
Max. power consumption [W]		420				
Type of casing		EPP – expanded polypropylene				
Colour ⁽⁴⁾		grey				
Weight of unit [kg]	69,6	67,2	72,6	70,2		
Weight of unit filled with water [kg]	70,4	-	73,4	_		
Place of installation		indoors				
Max. air contamination [g/m³]		0,3				
Oparating temperature [°C]		5–45				
Installation position	vertically or	vertically on the wall under the ceiling				
IP		42				
Filter class		E	U4			
Type of heat recovery exchanger	two	two-step heat recovery in cross heat exchangers				
Thermal efficiency dry / wet ⁽⁵⁾ [%]		68,4 / 78,9				
Type of additional heater	water heater	-	water heater	_		
Nominal heating capacity ⁽⁶⁾ [kW]	10	_	10	_		
Air temperature rise (ΔT) ⁽⁶⁾ [°C]	25	-	25	_		
Connection ["]	1/2	-	1/2	_		
Max. water pressure [MPa]	1,6	-	1,6	_		
Max. water temperature [°C]	95	_	95	_		
Control system		controller with touch screen				
Antifreeze protection of heat recovery exchanger		reduction of fan revs				
Antifreeze protection of water heat exchanger	temperature mesure- ment of suppied air and water by PT-1000 sensor	-	temperature mesure- ment of suppied air and water by PT-1000 sensor	-		

⁽¹⁾ Max, air flow during operation with EU4 filter and OxS air inlet
(2) Range of isothermal air stream, at 0,2 m/s velocity limit
(3) Acoustic pressure level at the distance of 5 m from the unit, in the room of medium capability of sound absorption and 500 m³ of cubature

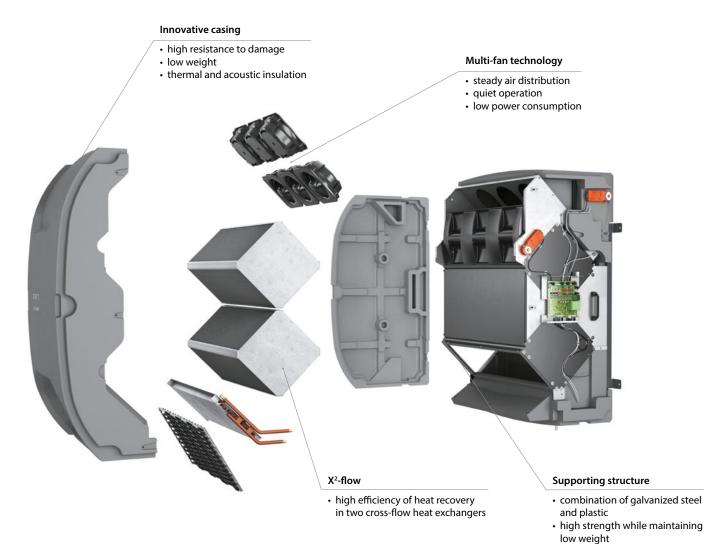
⁽⁴⁾ Similar to 9007

⁽a) According to directive 2009/125/EC measured with balanced mass flow, an indoor-outdoor air temperature difference of 20 K and the airflow 1200m³/h (b) At water temperature 80/60°C, inlet air temperature 5°C and 1200 m³/h of air flow



Construction

Construction of the unit is a combination of properly selected materials. It is worth to use custom solutions to achieve the desired effect. In this way, we obtained a unique, functional unit.



Solution worth of awards

OXeN heat recovery unit has been recognized as a model for complex designing by the chapters of most prestigious competitions in the world design. Experts praised the project for the quality, selection of materials, innovation, functionality and ergonomics.



reddot award 2014 winner



easy service access

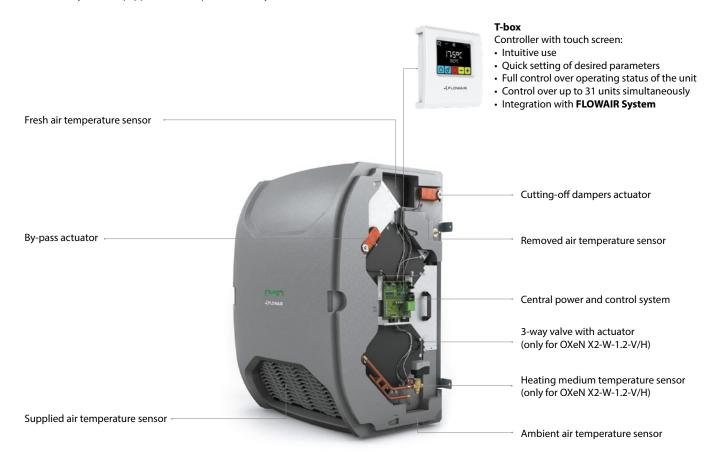


2014



Control system

OXeN heat revovery unit is equipped with complete control system.



Operating modes



weekly programmer



automatic regulation of supplied air temperature



COMFORT / ECO change of operating parameters by one click



filters operating time counter





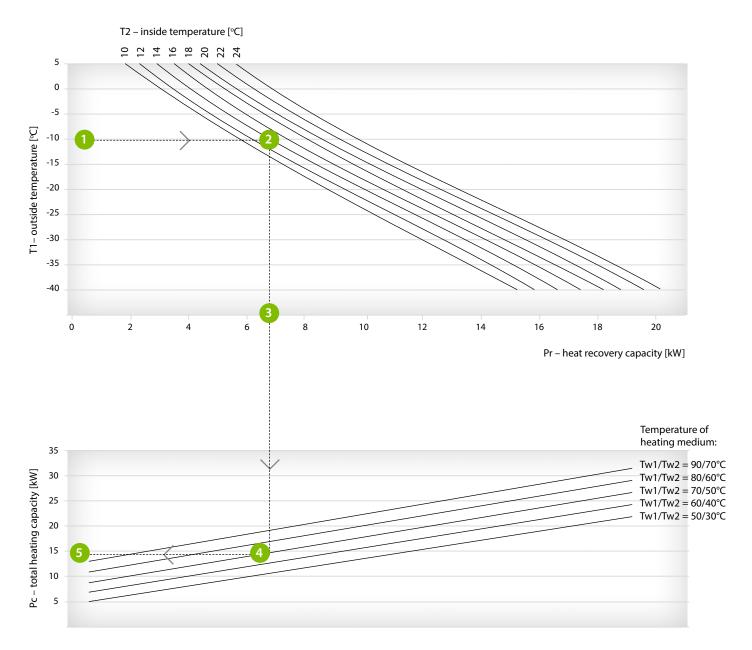
compatibility with BMS MODBUS RTU system



operation with or without heat recovery



Nomogram of heating capacity – for max. air flow 1200 m³/h

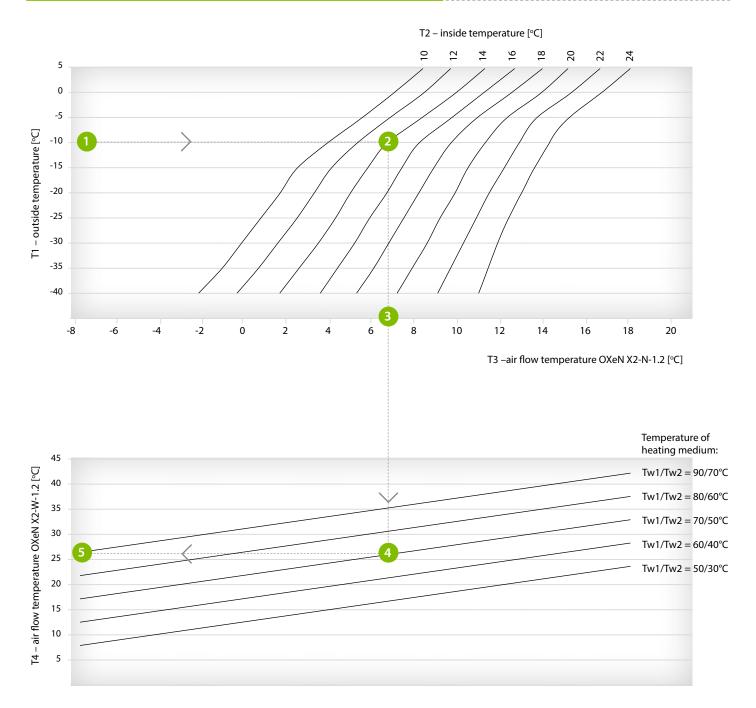


- 1. Specify outside temperature
- 2. Specify inside temperature
- 3. Read the capacity of heat recovery Pr (total heating capacity of OXeN without water heat exchanger X2-N-1.2)
- 4. Specify heating medium temperature
- 5. Read the total heating capacity Pc (for OXeN with water heat exchanger X2-W-1.2)

Air parameters: supplied air RH 90%, removed air RH 30%, air flow 1200 m^3/h



Nomogram of air flow temperature – for max. air flow 1200 m³/h

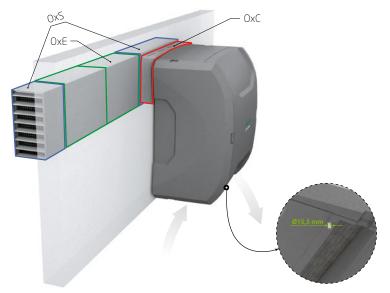


- 1. Specify outside temperature
- 2. Specify inside temperature
- 3. Read the air flow temperature for OXeN without water heat exchanger
- 4. Specify heating medium temperature
- 5. Read the air flow temperature for OXeN with water heat exchanger

Air parameters: supplied air RH 90%, removed air RH 30%, air flow 1200 m³/h



Installation on the wall



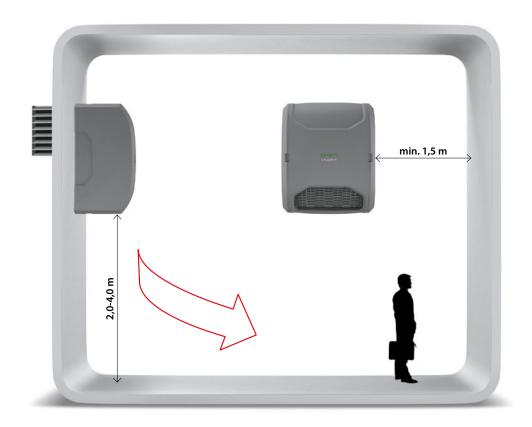
OxS – wall-mounted air inlet/outlet

OxE – extension duct

OxC – wall crossing (one piece as standard with OXeN)

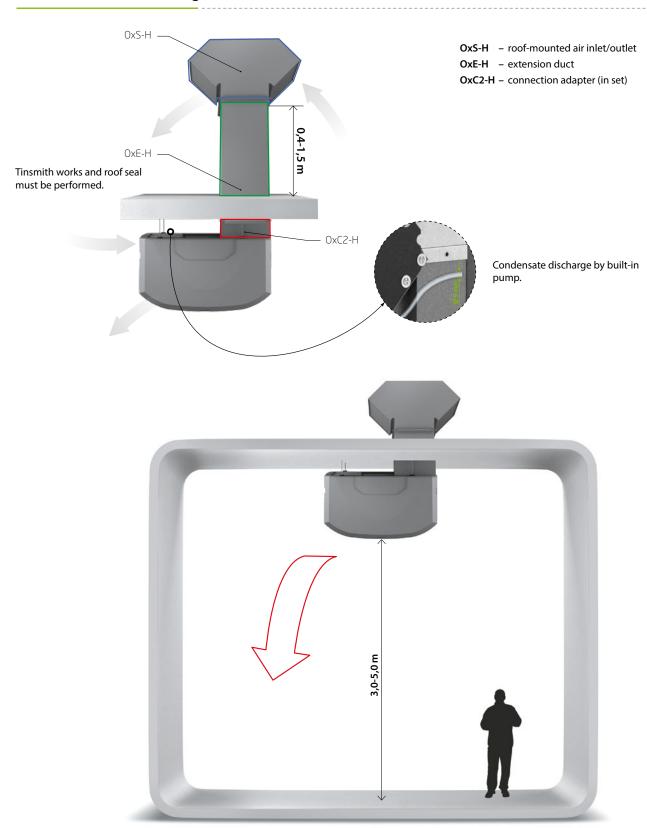
Gravitational condensate discharge.

Possibility to install the OxS air inlet/outlet on both sides.





Installation under the ceiling



Find out more

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watch movies!



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