FLOWAIR
intelligent air flow

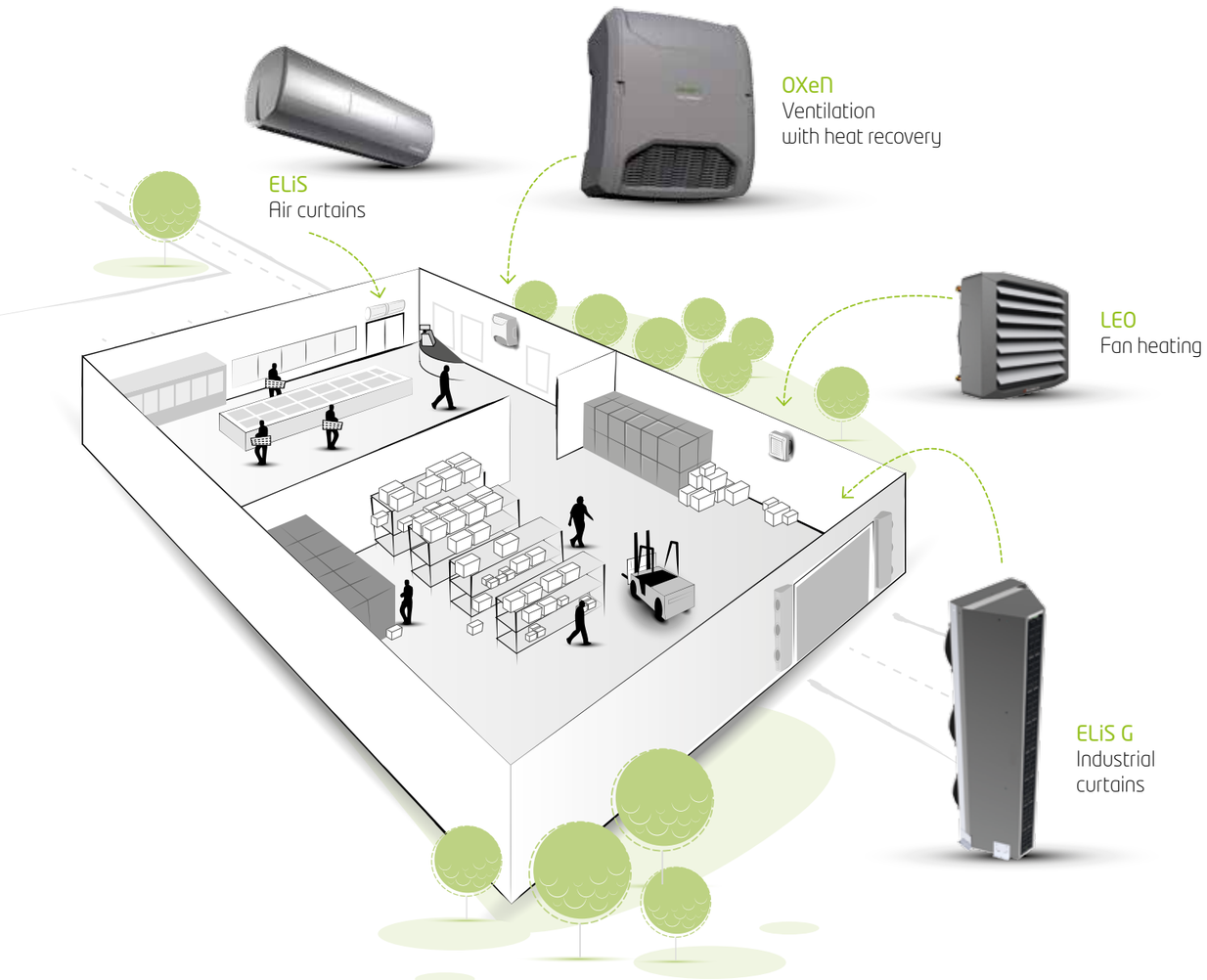
OXeN

Ductless ventilation with heat recovery

FLOWAIR System

COMPLETE HEATING AND VENTILATION SOLUTIONS

FLOWAIR has a complete heating and ventilation system for industrial and public buildings. The offer includes a cost-efficient ductless ventilation, efficient air curtains and a wide range of units for air heating.



OXeN heat recovery unit complements a wide range of FLOWAIR product line with a ductless ventilation system with heat recovery.

the easiest way to create mechanical ventilation system with heat recovery

ductless ventilation system makes possible to **reduce the investment costs**

high efficiency of heat recovery makes possible to **reduce the operating costs**

Before we start producing energy from renewable and conventional sources - save it first!

Heat losses related to ventilation have the largest share in the total heat losses in the building!

60%

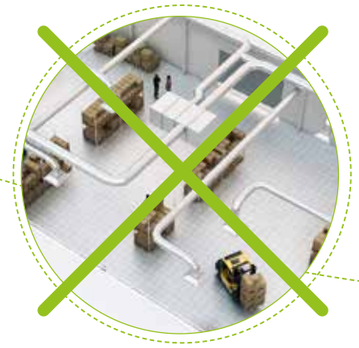
It is even 60% of total building heat demand!

Distribution of heat losses in a building

Ductless

No air duct installation

OXeN is an effective ductless ventilation with direct air flow into the zone occupied by the people.



Easy maintenance

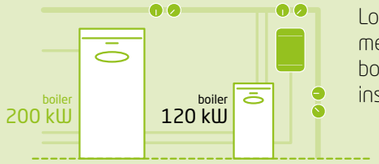
No air duct installation and easy access to the air filters and heat recovery exchangers. Simple and easy maintenance. OXeN is the clean ventilation without hard-to-reach, dirty air ducts.

Economic

Lower investment costs

cheaper installation

cheaper boiler



Lower heat demand means cheaper boiler, pumps and installation.

cheaper transport and storage

Lower operating costs

15 kW
of free energy

High efficiency is ensured by two step heat recovery from used air.

lower costs related to the maintenance and service of the unit

Compact

Easy installation

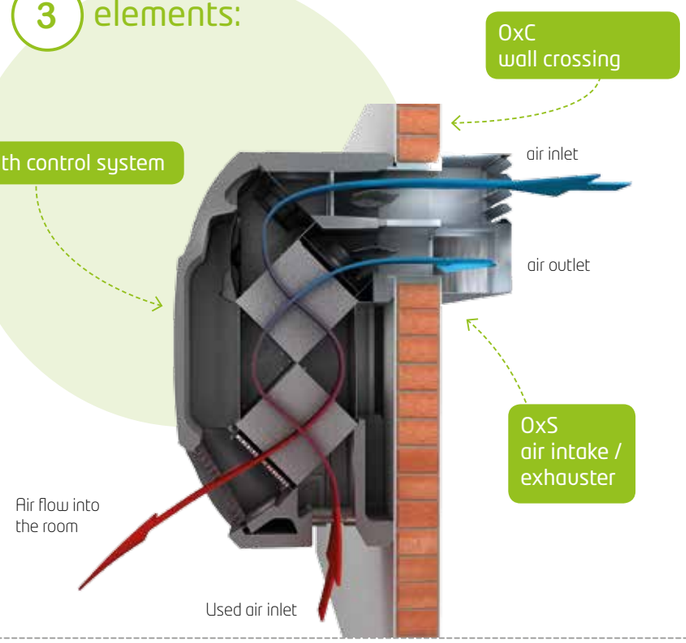
OXeN needs only one opening in the wall.

65kG

Low weight 65 kg
- no need of special load-bearing structures.

Installation brackets as a standard equipment.

Only 3 elements:



Simple logistics

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

It could not be simpler. The end of the assembling, matching and twisting. Oxen after removing from the pallet is immediately ready for installation.

Construction

The construction of the unit combines specially selected materials. It is worth to use a custom solutions to achieve the desired effect. In this way, we designed a unique, functional unit.

Innovative casing
- high resistance to damage
- low weight
- acoustic and thermal insulation

Multi-fan technology
- steady air distribution
- silent operation
- low power consumption

Two versions of the unit:
X2-W-1.2 - with water heater
X2-N-1.2 - without additional heater

X²-flow
- high efficiency of heat recovery in two cross exchangers

Construction:
- combination of galvanized steel and plastics
- high durability and low weight
- easy service access

SOLUTION WORTH THE AWARDS!

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

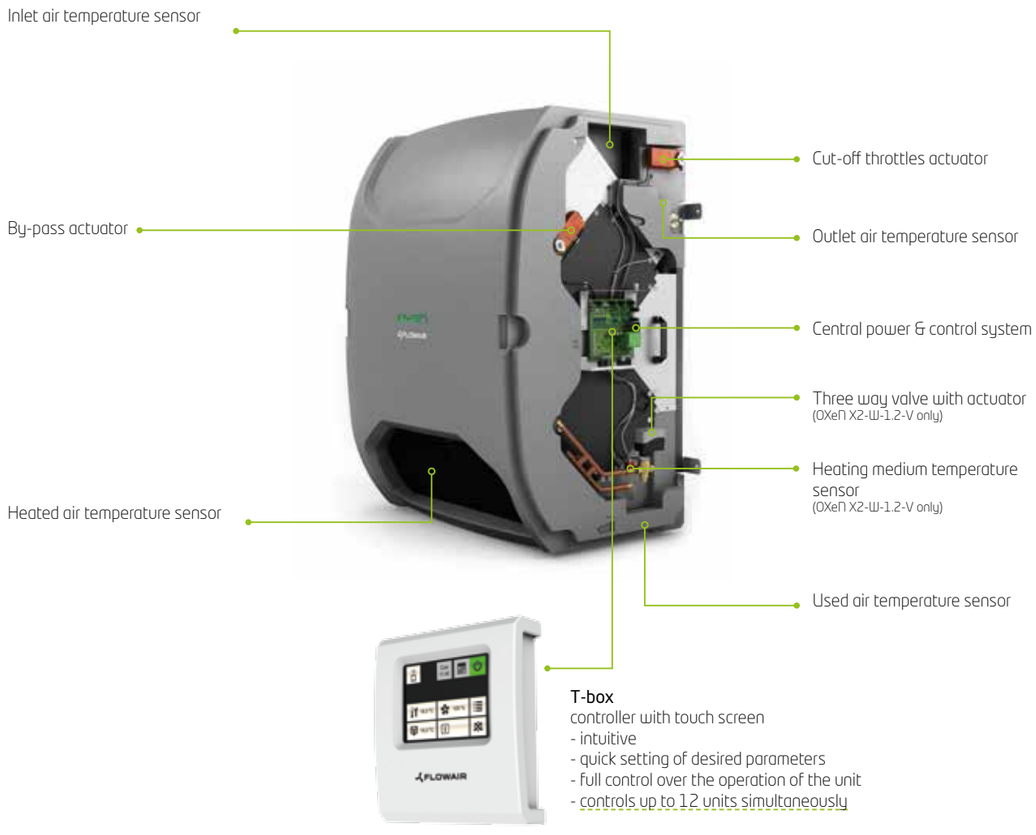
reddot award 2014
winner

product
design award
2014

20 LAT KONKURSU DOBRY WZÓR 2013

Control system

OXEN heat recovery unit is equipped with complete control system.



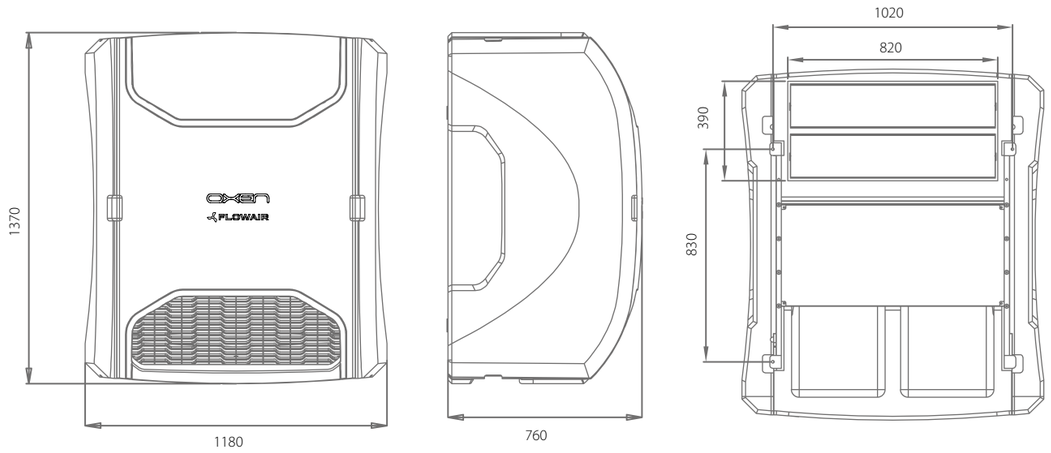
T-box
controller with touch screen
- intuitive
- quick setting of desired parameters
- full control over the operation of the unit
- controls up to 12 units simultaneously

Available operation modes:

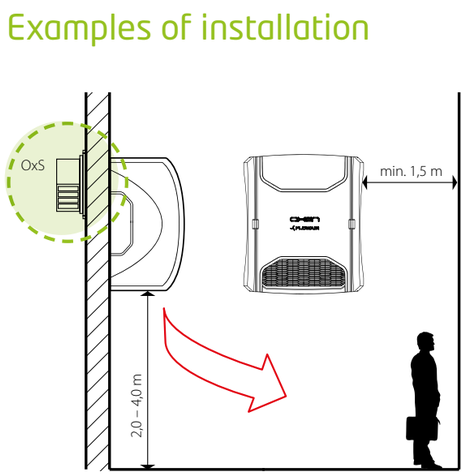
- weekly programmer
- AUTO — automatic adjustment of heated air temperature
- COMFORT / ECO change of operation parameter with one click
- filters operating time counter
- antifreeze protection
- BMS — compatibility with BMS MODBUS RTU system
- operation with or without heat recovery

Technical data

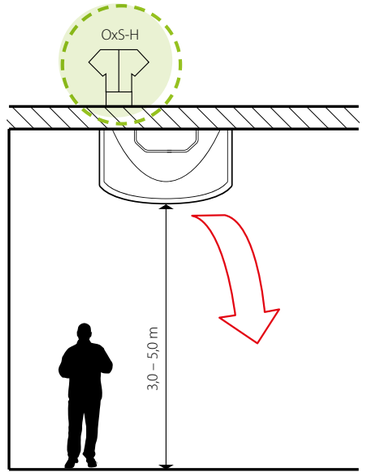
Main dimensions



Examples of installation



OxS - integrated wall-mounted air intake / exhauster



OxS-H - integrated roof-mounted air intake / exhauster

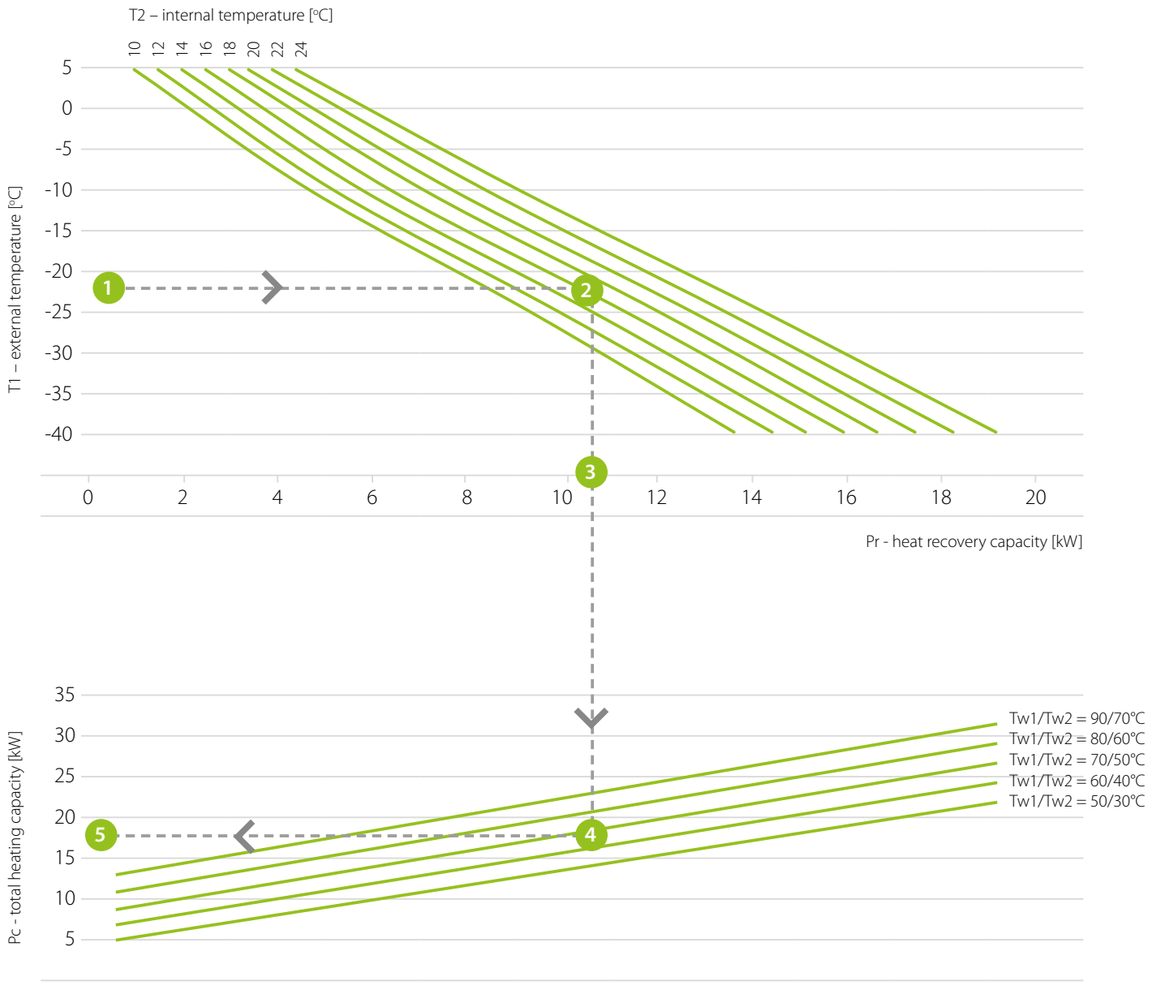
Technical data

	X2-W-1.2 (with water heat exchanger)	X2-N-1.2
Inflow / Outflow		
Inflow / outflow fan section	Multi–fan technology – Diagonal fans module	
Max. air flow stream inflow / outflow *	1200 m³/h	
Air stream range **	7,5 m	
Air flow regulation inflow / outflow	stepless, 150 – 1200 m³/h	
Acoustic pressure level ***	49 dB(A)	
Power		
Power supply	230 V / 50 Hz	
Max. current consumption	2,4 A	
Max. power consumption	552 W	
Casing		
Material	EPP plastic	
Colour	Gray	
Weight of unit	67,5 kg	65,0 kg
Weight of unit filled with water	68,3 kg	–
Place of operation	Indoors	
Max. pollution of the air	0,3 g/m³	
Operation temperature	5 – 35°C	
Installation	On the wall or under the ceiling	
IP	42	
Filter class	EU4	
Heat recovery - cross exchangers		
Heat recovery exchanger	Two step heat recovery in cross exchanger	
Efficiency of heat recovery ****	74 – 94 %	
Capacity of heat recovery ****	3,0 – 15,0 kW	
Water heat exchanger		
Heat exchanger	Water, copper - aluminium, 1-row	–
Nominal heating capacity *****	9,9 kW	–
Air temperature rise (ΔT) *****	23,0°C	–
Connection	½"	–
Max. operating pressure	1,6 MPa	–
Max. heating water temperature	95°C	–
Control system		
Control	Controller with touch screen	
Antifreeze protection of heat recovery exchanger	Reducing fans speed	
Antifreeze protection of water heat exchanger	PT-1000 temperature sensor	–
Protection against the filter contamination	Time counter	

* Max. air flow stream with EU4 filter and OxS/OxS-H air intake.
** Range of horizontal isothermal air stream, at 0,5 m/s velocity limit.
*** 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.
**** Air parameters: inlet air temperature -24°C, RH 90%, used air temperature +24°C, RH 50%, air flow from 150 to 1200 m³/h.
**** At heating medium temperature 80/60°C, inlet air temperature 5°C.

Technical data

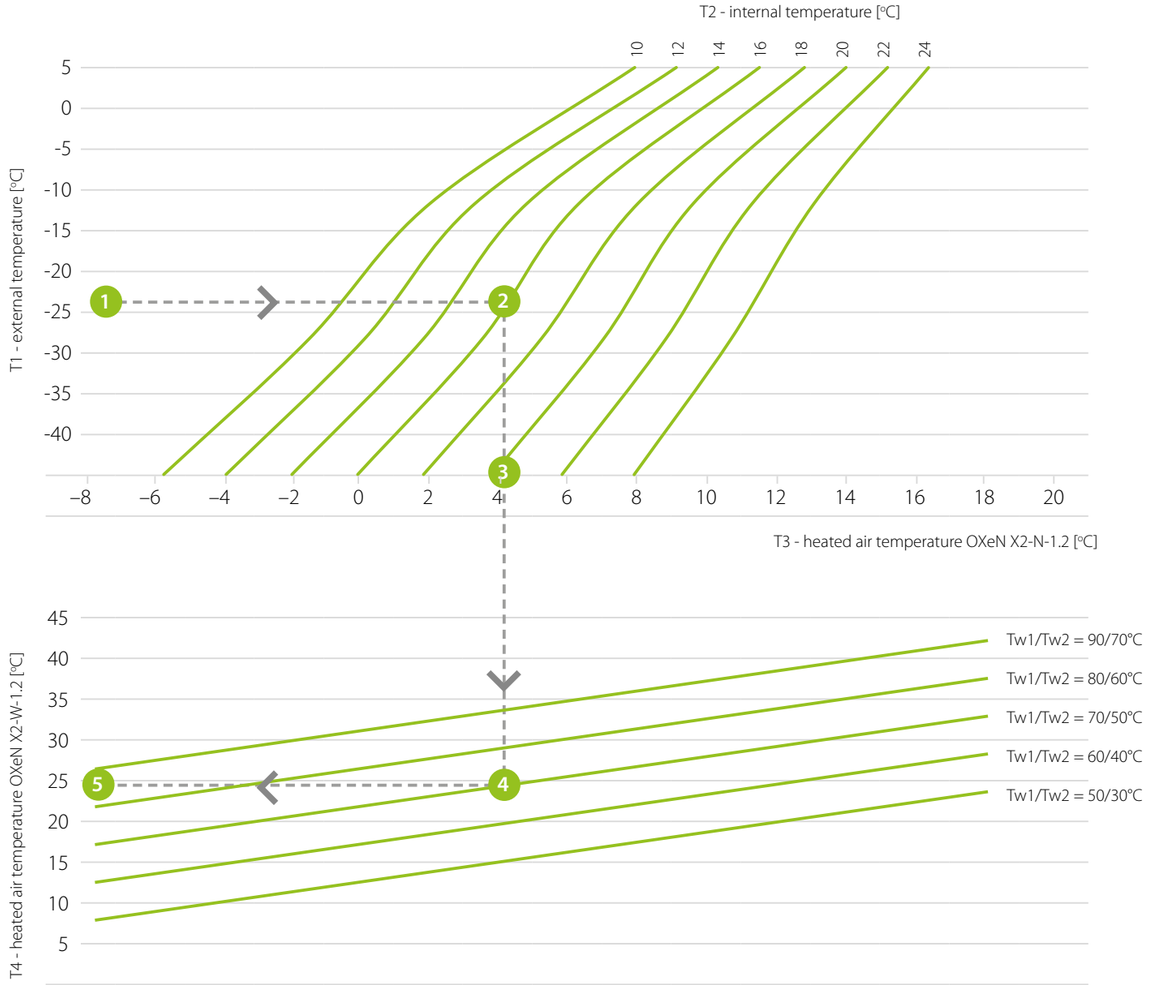
Read of heating capacity



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

Technical data

Read of heated air temperature



1 Specify external temperature
2. Specify internal temperature
3. Read heated air temperature for OXeN without water heat exchanger X2-N-1.2
4. Specify heating medium temperature
5. Read heated air temperature for OXeN with water heat exchanger X2-W-1.2

Find out more

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