

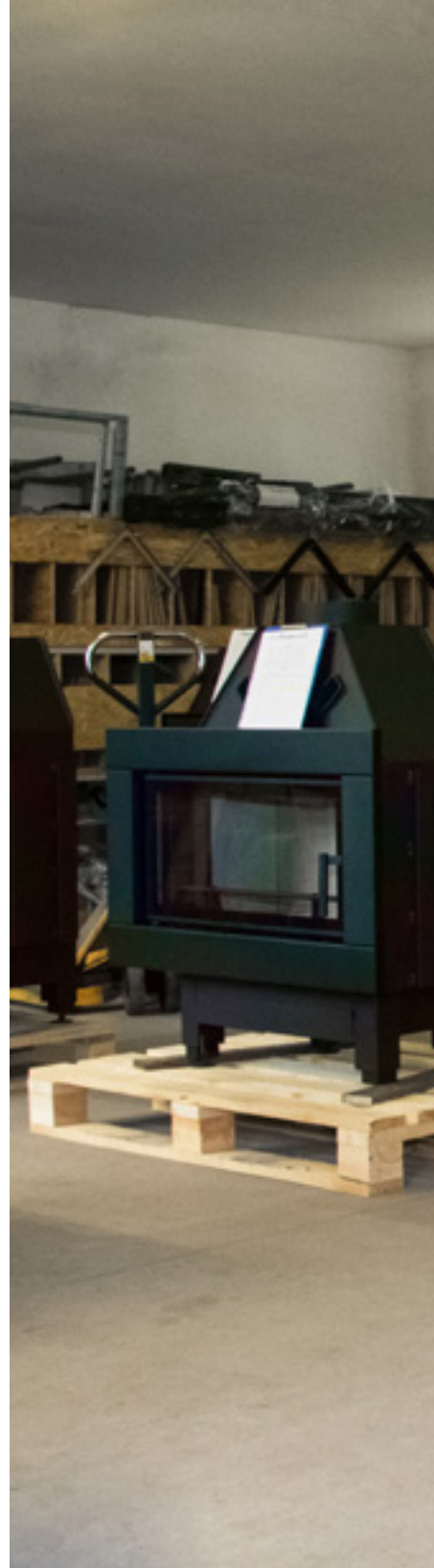


Since Unirol is a family business, it is a strong asset that allows us to grow and build lasting relationships with our partners. Owing to the search for innovative solutions, improved technologies over the years and the development of a positive image of the company with joy and full responsibility, we apply the following motto: *Quality makes a difference*. We are happy because we can ensure that Unico products are trouble-free, their use is safe, and the satisfaction of using the fireplace is guaranteed.

Waldemar Wuczyński



Bartosz Wuczyński







Success is never the result of “a flash in the pan”  
– Here you have to go through the real fire.

James Madison

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Dragon 2B

Ryszard Zawadzki, Krzysztof Anuszkiewicz, Wrocław

POLISH FIREPLACES



Dragon 2B  
Kominki Strzelko, Poznań

# WHY UNICO?

## **A POLISH PRODUCT**

Unico inserts are entirely manufactured in Poland. We are one of the leading manufacturers of fireplaces in the country.

## **ATTENTION TO DETAILS**

The hand finishing of each insert guarantees the highest quality.

## **INDIVIDUAL CONFIGURATION**

As the only manufacturer in Poland, we are able to select the finishing elements of the insert: glass panes, handles, frames and ceramics, which satisfies various needs and tastes of the user.

## **INNOVATIVE TECHNOLOGIES**

We have our own modern technical laboratory, which allows us to constantly improve our products.

## **ENVIRONMENTAL PROTECTION**

Our fireplace inserts minimize dust and carbon monoxide emissions. All inserts comply with BImSchV2 and Ecodesign standards.

## **DESIGN**

The efficiency of the Unico inserts goes hand in hand with their unique design. Our customers can choose the insert not only in terms of its efficiency, but also perfectly match it to their interior. The variety of available finishing elements allows to create an individual vision of fire.

## **30 YEARS OF EXPERIENCE**













Unirol Sp. z o.o., the manufacturer of Unico inserts, has been operating in the heating equipment industry since 1988.

# TECHNOLOGY

Our inserts are manufactured exclusively from the highest quality certified materials and the most modern technologies are used in their manufacturing process. They are functional, comfortable to use, and stand out due to their modulated power, which translates into very good efficiency. Tight and durable steel and ceramic structures make Unico inserts a solid and safe product.

## REFRABOX CERAMICS

An innovative solution used exclusively in Unico is the lining of the hearth with plates and self-supporting deflector made of proprietary Refrabox ceramics. Fire-resistant and impact-resistant material increases the amount of energy stored in the combustion chamber and allows the insert to be used for a long time.

Compressive strength [MPa]	<b>Refrabox</b>	<b>80</b>	
	chamotte	20	
	vermiculite	2	
Density [g/cm <sup>3</sup> ]	<b>Refrabox</b>	<b>2,7</b>	
	chamotte	2,0	
	vermiculite	0,5	
Thermal conductivity [W/mK]	<b>Refrabox</b>	<b>2,6</b>	
	chamotte	1,4	
	vermiculite	0,2	
Thermal capacity related to volume [kJ/dm <sup>3</sup> K]	<b>Refrabox</b>	<b>2,7</b>	
	chamotte	2,0	
	vermiculite	0,5	



## REFRABOX DEFLECTOR

Each Unico insert is equipped with a Refrabox deflector. It extends the path of exhaust fumes and thus improves their combustion. This allows you to obtain more heat with less fuel consumption and thus increase the efficiency of the fireplace.

## REMOVABLE WATER HEAT EXCHANGER IN TOPECO



In inserts of the following series Nemo TopEco water heat exchanger is located above the hearth, and the characteristic feature that distinguishes it, is the possibility of disconnecting it from the body. This makes it much easier to transport and install the insert.



## **GRATELESS COMBUSTION**

The use of an efficient air control system and durable ceramic materials allowed us to eliminate the grate, making wood burn much more efficiently. Burning wood on a hot plate results in a significant reduction of ash, which can be removed from a flat and smooth floor surface without any problems.

## **FLUE GAS AFTERBURNING SYSTEM**

In the second stage of the combustion process, the air is supplied to the upper part of the insert, which causes the “afterburning of smoke” thus reducing the emission of pollutants into the atmosphere, and at the same time generating an additional amount of heat.

## AIR CIRCULATION MECHANISM

Precise regulation of combustion air in Dragon and Nemo inserts is based on the use of a mechanism in the shape of the sun. Its rays are openings allowing primary and secondary air. The entire combustion process can be precisely regulated with one motion of the rod. It significantly increases the economy and ecology of the fireplace.







Dragon 8B XXL  
TiM Kominki, Warszawa

## DOUBLE GLAZING

The double glazing reduces the amount of heat radiated through the glass, resulting in a high temperature in the hearth. This has a positive effect on the combustion process and helps to maintain the effect of clean glass over the long term.

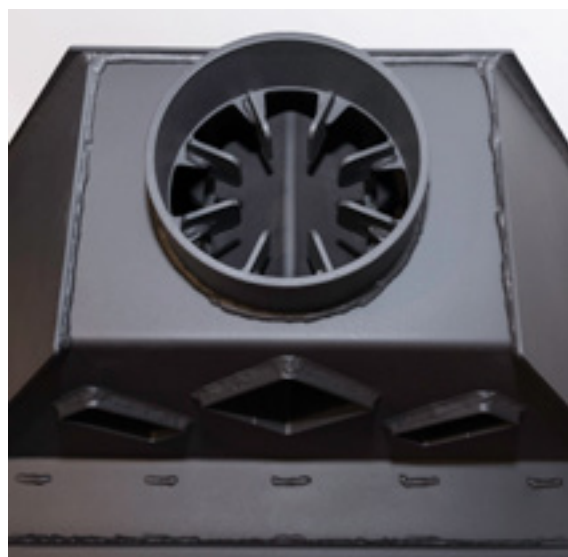
Double glazing is particularly recommended for water jacket inserts. This makes it possible to transfer a larger amount of energy to the water heat exchanger. The choice of double glazing is advisable when materials sensitive to high temperatures are located in close proximity to the fireplace and in the case of accumulator units.

## CLEAN GLASS SYSTEM

In order to keep the glass pane impeccably clean, all Unico inserts have been fitted with an original air circulation system. Air for combustion is directed to the glass with special air pipes located in the upper part of the insert. Clean air flows through the openings above the door, creating natural air passages to protect the glass from soiling by combustion deposits. The Refrabox deflector also helps to keep the glass clean.

## EXHAUST FUME BREAKERS

They are also designed to break down the stream of exhaust fumes, which causes their additional afterburning, and increases the efficiency of the insert.





Dragon 2B

Centrum Ogrodzeniowo-Kamieniarskie Paweł Jacewicz, Gorzów Wlkp.

## COOPERATION WITH RECUPERATION

Owing to the tightness of the whole body and the possibility of connecting the air from outside the building, the insert can be successfully used in rooms with recuperation (mechanical ventilation).





## LIFTABLE GLASS

This solution is dedicated to customers who value comfort and convenience of use. Liftable glass will add prestige and elegance to the interior.

This system is also recommended for interiors where standard door opening may cause a collision with other elements of interior design.





Dragon 8

# CONVENIENT INSTALLATION AND MAINTENANCE

## 3 STUBS FOR OUTSIDE AIR SUPPLY

To ensure a smooth and easy installation, all inserts have three optional connection stubs.



## ADJUSTABLE LEGS

Adjustable, sturdy legs of the insert allow you to adjust the height of the foundation without the need to build an additional elevation or use additional stands.



## EASY ACCESS TO THE AIR DISTRIBUTOR

In the interests of service safety, access to the distribution mechanism from the inside of the insert was made possible.



## EASY DOOR DISMANTLING

If necessary, it is possible to easily dismantle the door without disturbing the fireplace structure.







## ECOLOGY

Taking care of nature and the environment, we use the latest technologies to increase the efficiency of our equipment while minimizing pollutant emissions.

All Unico inserts have been subjected to specialist tests and obtained certificates confirming that they meet the requirements of such standards as Ecodesign and BimSchV 2.

This means that in the next few years, when stricter regulations will be introduced to limit the possibility of installing fireplaces that do not meet strict emission standards, the users of our fireplaces will not have to deal with activities related to the exchange of heat source.

Nemo 4B





Nemo 6XL





# DESIGN

Bearing in mind the ever-changing trends and diverse needs of our customers, we have created tailor-made inserts, so that everyone can find the insert ideally suited to their needs and tastes.

With a wide range of finishes, Unico inserts will fit perfectly into any interior. From traditional, richly finished to modern and minimalist inserts.

The glass, handle, ceramics and camouflage covers can be individually matched to each insert.



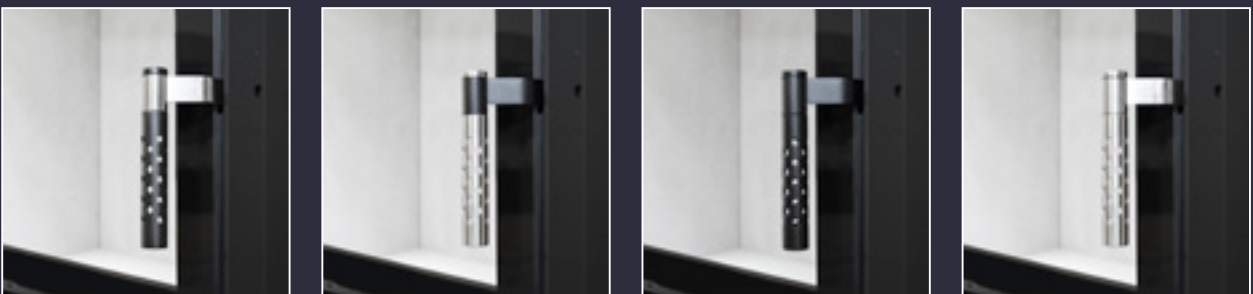
# HANDLES

Wide selection of handles emphasizing the individual character and charm of the fireplace.

## CLASSIC

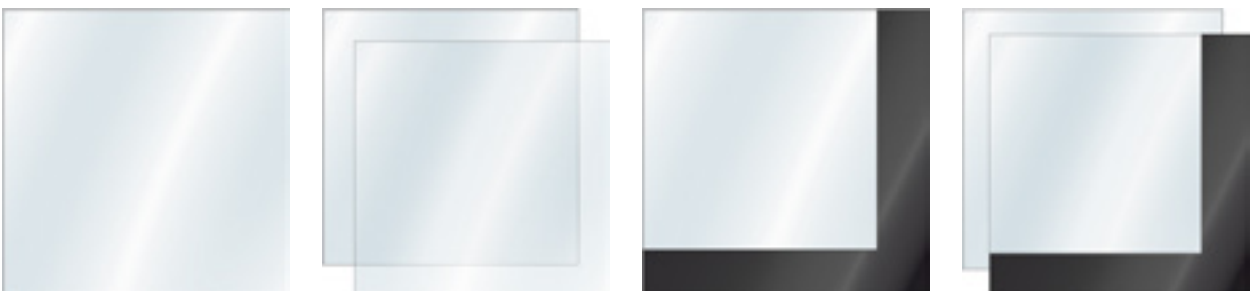


## DESIGN



# GLASS

There is a choice of classic glass pane or modern black frame camouflage printing, single or double glazing.



## COVERS

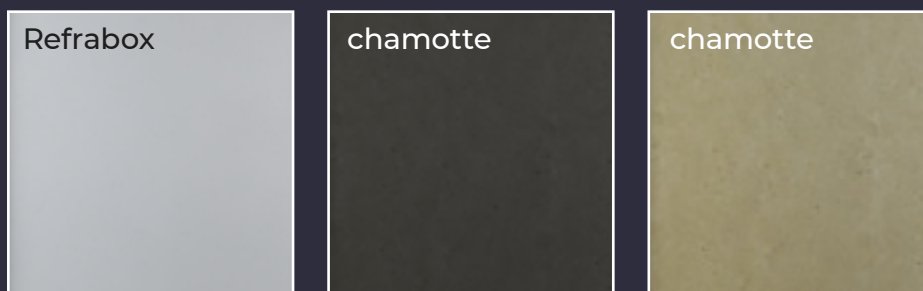
Elegant collection of minimalist covers faced with the wall will create a perfect fire setting in a modern interior.

You can choose between black and inox covers.



## CERAMICS

You can also choose a ceramic floor covering: Refrabox or chamotte in black and natural colours.





# LINES OF UNICO INSERTS



## RASTER

hearth lining with Refrabox ceramics

glass pane with black masking print on the frame, single or double

narrow black or inox profiles instead of the traditional frame of the glass

Design handle

## TREND

black chamotte lining of the hearth

classic glass, combined in corner inserts, single or double

wide steel frame with straight lines

Design handle





Dragon 2B  
Precom, Toruń

## MODERN

chamotte lining of the hearth

classic glass, combined in  
corner inserts, single or double

steel frame, classic, with slightly  
rounded edges

Classic handle



# DRAGON

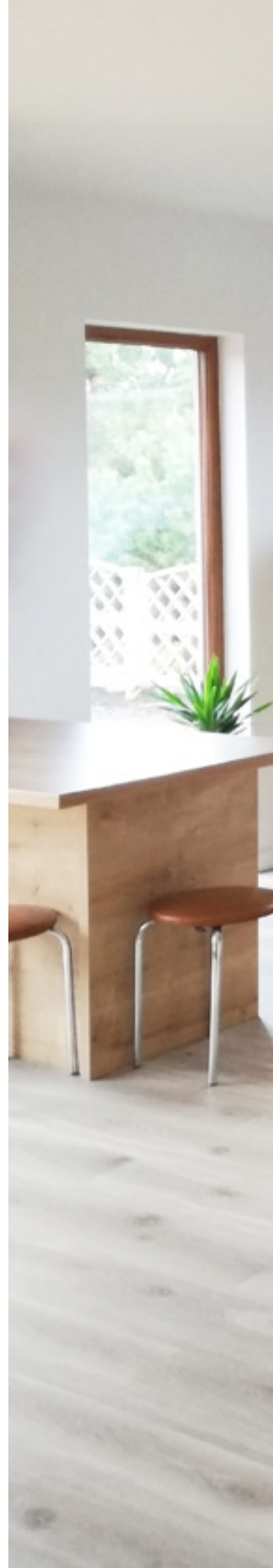
## CONVECTION INSERTS

Convection inserts are a solution dedicated for people looking for an efficient source of heat in a relatively small area, in rooms with large heat losses, in buildings with large cubic capacity or poor insulation.

The air supplied to the fireplace flows through the hot insert and additional heating surfaces, heats up quickly and then returns to the room through grilles and ventilation ducts.

The Dragon series includes grateless fireplaces in which combustion air is supplied by a specially designed, integrated duct system.

Dragon inserts can be used both for recreational, weekend heating, as well as to provide the household members with warmth on a daily basis. Ideal for both warm buildings and traditional convection buildings.







Dragon 8  
EV Kominki, Krotoszyn

## STRAIGHT GLASS PANE



**DRAGON 2**  
**13 kW**

W/H/D [mm]  
674/1088/459

Frontage:  
W/H [mm]  
647/465



**DRAGON 6**  
**12 kW**

W/H/D [mm]  
777/1078/459

Frontage:  
W/H [mm]  
750/377



**DRAGON 4**  
**14 kW | 15,5 kW**

W/H/D [mm]  
736/1072/513  
736/1072/583

Frontage:  
W/H [mm]  
711/467



**DRAGON 6XL**  
**12 kW**

W/H/D [mm]  
777/1151/459

Frontage:  
W/H [mm]  
750/450



**DRAGON 4 XL**  
**14 kW | 15,5 kW**

W/H/D [mm]  
736/1115/513  
736/1115/583

Frontage:  
W/H [mm]  
711/510



**DRAGON 6XXL**  
**12 kW**

W/H/D [mm]  
777/1301/460

Frontage:  
W/H [mm]  
750/600



### **DRAGON 8** **11,5 kW**

W/H/D [mm]  
447/1040/508

Frontage:  
W/H [mm]  
419/511



### **DRAGON 8 XXL** **13,7 kW**

W/H/D [mm]  
488/1400/498

Frontage:  
W/H [mm]  
450/680

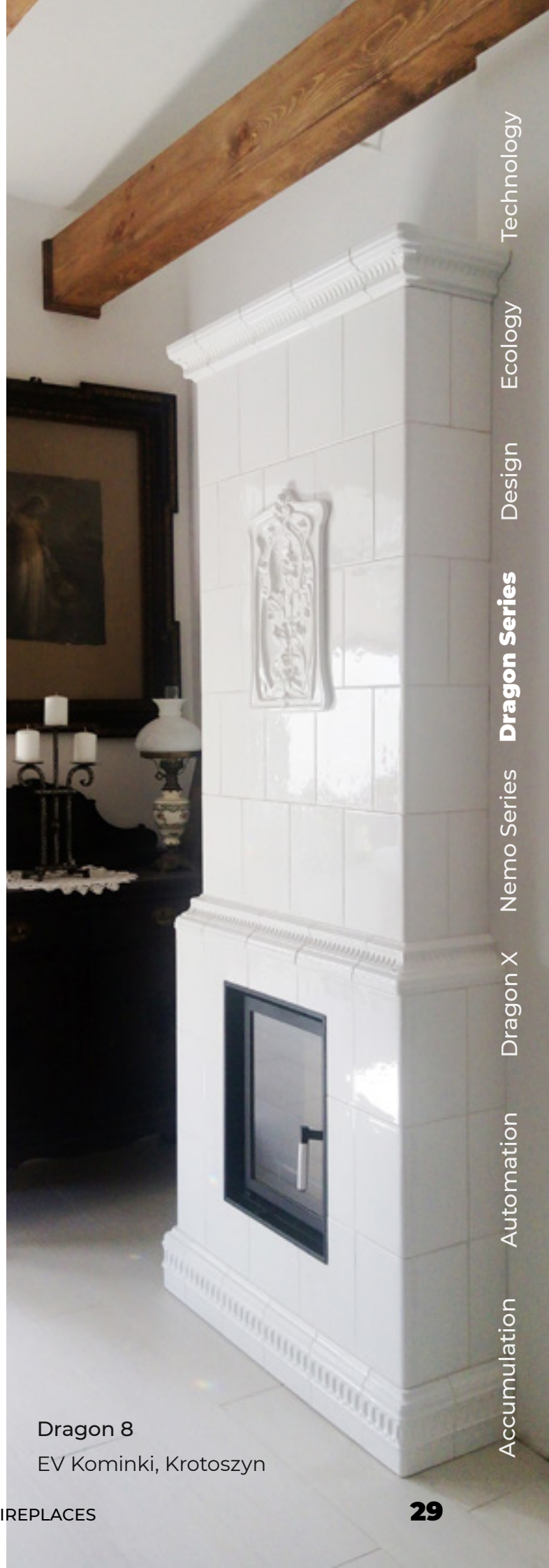
## **SEMICIRCULAR GLASS PANE**



### **DRAGON 8R** **11,5 kW**

W/H/D [mm]  
413/1061/569

Frontage:  
W/H [mm]  
386/476



Dragon 8  
EV Kominki, Krotoszyn



## CORNER GLASS PANE



**DRAGON 2B**  
**13 kW**

W/H/D [mm]  
685/1088/466

Frontage:  
W/H [mm]  
680+335/467

Choice of left or  
right glazing,  
split or uniform  
bent, single  
or double  
glazing.



**DRAGON 4B**  
**15,5 kW**

W/H/D [mm]  
770/1072/590

Frontage:  
W/H [mm]  
760+419/469



**DRAGON 8B**  
**11,7 kW**

W/H/D [mm]  
469/1253/468

Frontage:  
W/H [mm]  
450+450/510



**DRAGON 4B XL**  
**15,5 kW**

W/H/D [mm]  
770/1115/589

Frontage:  
W/H [mm]  
760+419/510



**DRAGON 8B XXL**  
**13,7 kW**

W/H/D [mm]  
468/1420/468

Frontage:  
W/H [mm]  
450+450/680



**Dragon 8B XXL**

TiM Kominki, Warszawa

## VIS-A-VIS GLASS PANES

### **DRAGON 2 DUO** **13 kW**

W/H/D [mm]  
674/1055/506

Frontage:  
W/H [mm]  
647/465



### **DRAGON 4 DUO** **15,5 kW**

W/H/D [mm]  
736/1072/681

Frontage:  
W/H [mm]  
711/465



### **DRAGON 8 DUO** **11,5 kW**

W/H/D [mm]  
447/1040/532

Frontage:  
W/H [mm]  
419/511



Technology

Ecology

Design

**Dragon Series**

Nemo Series

Dragon X

Automation

Accumulation



Nemo 2 TopEco





# NEMO

## INSERTS WITH A WATER HEAT EXCHANGER

Fireplace inserts with water jacket are an energy-saving solution suitable for those who want to reduce heating costs. The technology used in them uses heat from the fireplace to heat water for use in the heating system. Since these inserts have to cooperate with other energy sources, the decision to purchase them should be made already at the design stage of the house or before the general renovation.

### DOUBLE INSULATION OF THE HEARTH

Refrabox Nemo TopEco System

Hearths with an integrated water heat exchanger and an isothermal combustion chamber. Owing to the application of increased heat exchange area, the efficiency level of the appliance increases to 90%, combustion is efficient and energy-saving, and the amount of harmful exhaust components such as tar or soot is reduced to a minimum.

In the construction of the water heat exchanger the phenomenon of attracting gases to the exchange elements has been used, which in combination with the increased temperature of exhaust gases in the lower parts of the exchanger increases the intensity of heat transfer, and thus the efficiency of the whole device. If used correctly, the glass pane and the walls of the combustion chamber do not get dirty. It is possible (in so-called open systems) or it is necessary (in so-called closed systems) to install a cooling coil, which prevents water boiling in the exchanger.

## STRAIGHT GLASS



**NEMO 2 TOPECO**  
**16 kW**

W/H/D [mm]  
647/1359/478

Frontage:  
W/H [mm]  
647/465



**NEMO 4 TOPECO**  
**20 | 21,3 kW**

W/H/D [mm]  
781/1436/613

Frontage:  
W/H [mm]  
711/467



**NEMO 8**  
**12 kW**

W/H/D [mm]  
521/1245/516

Frontage:  
W/H [mm]  
419/511



**NEMO 6 TOPECO**  
**18 kW**

W/H/D [mm]  
824/1261/478

Frontage:  
W/H [mm]  
750/377



**NEMO 6XL TOPECO**  
**18 kW**

W/H/D [mm]  
824/1334/478

Frontage:  
W/H [mm]  
750/450



Nemo 4 TopEco  
Flamma, Białystok





Nemo 4 Duo

## CORNER GLASS



**NEMO 2B TOPECO**  
**15 kW**

W/H/D [mm]  
711/1359/484

Frontage:  
W/H [mm]  
680+335/467



**NEMO 4B TOPECO**  
**19,5 | 21 kW**

W/H/D [mm]  
797/1436/619

Frontage:  
W/H [mm]  
760+419/469



**NEMO 8B**  
**12 kW**

W/H/D [mm]  
499/1269/475

Frontage:  
W/H [mm]  
450+450/510

## VIS-A-VIS GLASS PANES



**NEMO 2 DUO**  
**16 kW**

W/H/D [mm]  
758/1113/506

Frontage:  
W/H [mm]  
647/465



**NEMO 4 DUO**  
**21 kW**

W/H/D [mm]  
820/1147/681

Frontage:  
W/H [mm]  
711/465

# DRAGON X

Ecological fireplace insert for bottom combustion with universal use. There are two exchangers **Condens** water heat exchanger or **Cumulus** air heat exchanger. It achieves more than 95% efficiency, meets the most stringent environmental requirements, and the bottom combustion enables the decomposition of hydrocarbons and oxidation of soot. This ensures that the glass remains clean and the temperature is raised.

**ECO**

**CO<500**

mg/m<sup>3</sup>

**Efficiency**

over

**95%**

**mass**

**>550**

kg



Condens



Cumulus

## DRAGON X

**14 kW**

W/H/D [mm]

540/1005/676

Frontage:

W/H [mm]

419/511



Dragon X is designed for users who value economy, innovation, and care for the environment. As a result of the very wide range of achievable power, it can heat both small apartments and larger stand-alone buildings.

The hearth is ideal for channel accumulation.



Dragon X



# CONTROL OF THE COMBUSTION PROCESS

Dragon and Nemo series fireplaces are grateless fireplaces, in which the air control rod is located in the lower part of the frontage. Its movement changes the amount and direction of air, and each change of position has a significant impact on the combustion process.

We can offer combustion process control in manual, semi-automatic or automatic versions.

## MANUAL CONTROL

It is based on manual movement of the air control rod on the basis of observation of burnt wood and perceived thermal comfort. Primary (firing-up) air and curtain air is proportionally closed, while for safety reasons the secondary air (afterburning air) is not manually regulated.

## SEMI-AUTOMATIC CONTROL

The control is carried out by means of a one-way air throttle based on the temperature of exhaust gases and information about the combustion phase: firing-up, fuel loading, fuel sweeping – information from the door sensor (optional) or manually by pressing a button on the controller.

The throttle is responsible for ensuring optimal combustion by dosing the right amount of air into the hearth.

It is only up to the user to limit the amount of primary air after firing up the wood by manually moving the air control rod. The controller automatically regulates the curtain air and secondary air.

It performs controlled secondary (afterburning) air blasts.

Controllers for the Dragon series:  
 Tatarek RT-08 OM/OM Grafik/OM White  
 For the Nemo series:  
 Tatarek RT-08 G/RT-08 G White

## AUTOMATIC CONTROL – UNICO INTEGRA

The control is carried out by means of a two-way air throttle based on the temperature of exhaust gases and information about the combustion phase (firing-up, fuel loading, fuel sweeping – information from the door sensor (optional) or manually by pressing a button on the controller).

A two-way throttle automatically regulates all types of air, i.e. primary air (firing-up), curtain air, secondary air (afterburning). Performs controlled secondary (afterburning) air blasts. There is no need to move the air regulation rod manually.

Controllers for the Dragon series:  
 Tatarek RT-08 OM Duo/ RT-08 OM Grafik Duo/RT-08 OM White Duo  
 For the Nemo series:  
 Tatarek RT-08 G Duo/RT-08 G White Duo



Technology

Ecology

Design

Dragon Series

Nemo Series

Dragon X

**Automation**

Accumulation

# UNICO FOR WARM INSTALLATION

## STOVE DOOR

Stove doors are a solution for fireplace builders and stove fitters who build a fireplace from scratch. The door structure is adapted to high temperatures, so they will work well in warm buildings, tile enclosures, and accumulation stoves.

- intake of air from outside
- control of combustion air
- mounting flange
- possibility of installing a second pane of glass

Doors available on request in any size.



## HEAT EXCHANGER

### EASY 700

Energy-accumulating steel and chamotte heat exchanger for lowering the temperature of the exhaust gas. Ideal for modern, energy-efficient construction.



Dragon 8  
EV Kominki, Krotoszyn





Dragon 6XL  
Ekoklimat, Trzcianka

# UNICO FUSION

## MODULAR CONCRETE ENCLOSURES

Modular enclosure of accumulating concrete dedicated for Dragon 2 and 2B and Nemo TopEco 2 and 2B models.

A well thought-out combination of Unico fireplace inserts with accumulating concrete is an ideal solution for modern energy-efficient houses.



Dragon/Nemo 2B



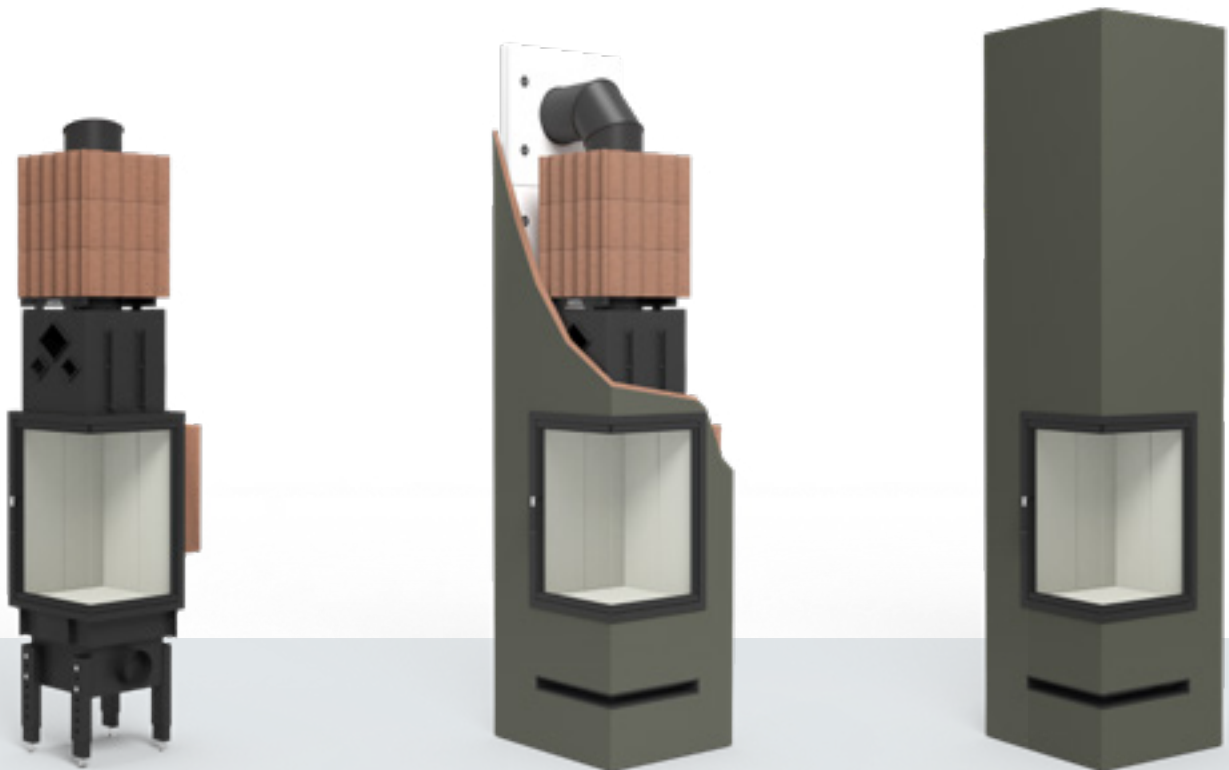
Dragon/Nemo 2

The advanced grateless design of Unico inserts allows you to significantly extend the burning of wood, and the concrete enclosure accumulates heat, giving it away long after the fireplace extinguishes.

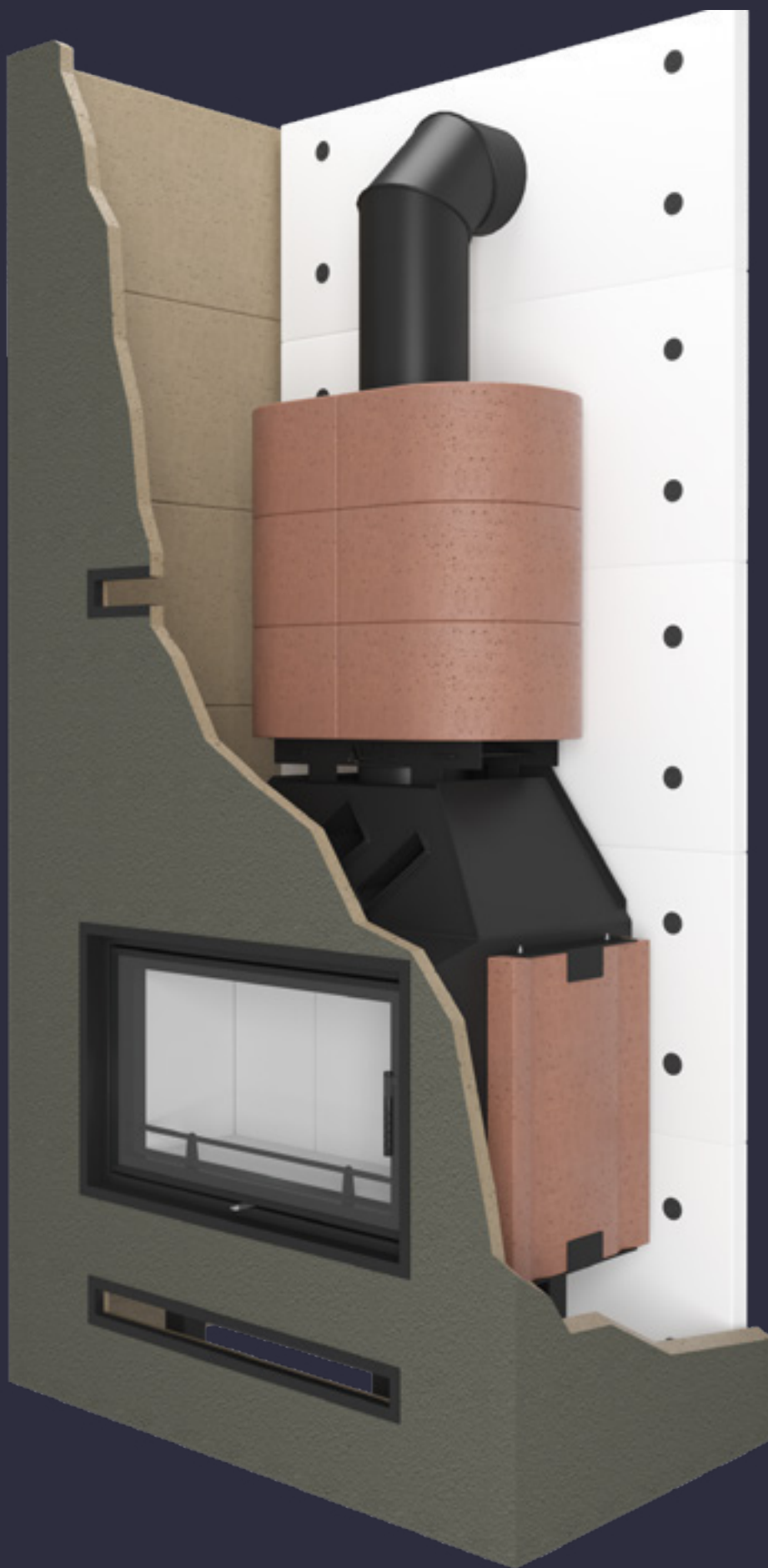
## ACCUMULATION MATERIALS

By enclosing the insert with accumulating materials, heat is transferred to the room in the form of subtle thermal radiation. This kind of heat in its essence is similar to solar radiation – the natural and healthiest form of heating for living organisms.

Stages of installation:



Dedicated materials: plates and thermo-accumulation modules  
Grupa owo.pl, Krzeszowice







[www.unico-kominki.com](http://www.unico-kominki.com)

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The presented data are of informative nature. The manufacturer reserves the right to make changes.