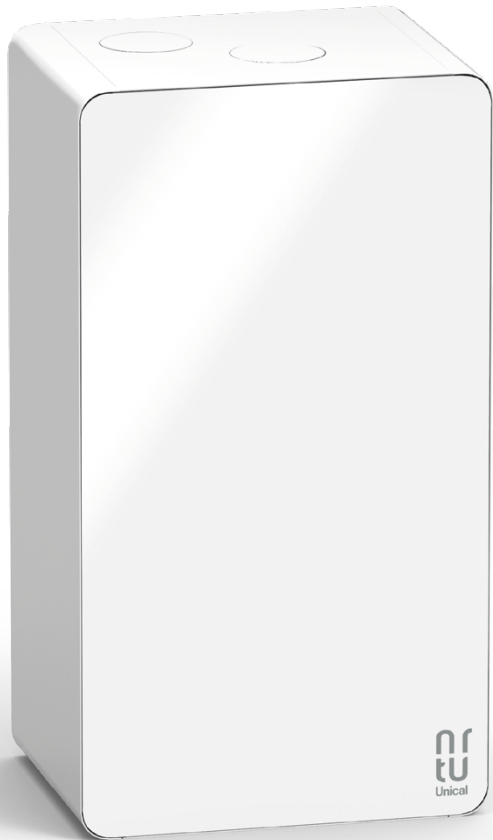




Unical

KON1





KON1 is the “décor” boilers produced by Unical in synergy with ArtÙ Design Studio.

Soft lines, with an elegant front panel in polymethylmethacrylate available in different colours, enclosing a state-of-the-art condensing boiler that produces instantaneous hot water.

The heat outputs is **24 kW**.



KXeasy

Backlit (7) DAY modulating remote control with Open Therm Protocol (std. supplied)

 **Class V +3%**
seasonal energy performance

The exclusive Unical system of both hydraulic connections and total disappearance of the flue gas discharge allows an elegant installation and integration of KON1 in both modern and classic environments, avoiding unsightly exposed pipes.

HWS “Hot Water Speed”

The new **KON1 electronics** switch from heating to D.H.W. function with burner and pump always in operation, thus greatly improving the user’s comfort who does not have to “wait” for the hot water.

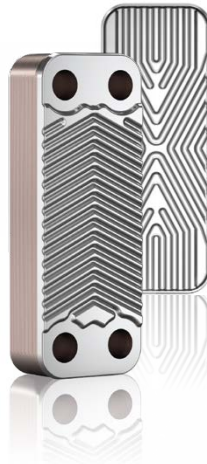
Secondary heat exchanger

In stainless steel AISI 316L:

- with 12 plates

Especially efficient since it is suitable for condensing boilers designed to use low temperature.

Thanks to the new “ecological” design of the plates, it allows more heat to be transferred while making the most of its stainless steel features.



- Exceptional actual **modulation ratio up to 1:8**
- **Efficiency >107%** (ex dir. CE 92/42) η_s **93%**
- **Energy class A**
- Ultrathin **primary heat exchanger** in **Al/Si/Mg**
- Electronic PCB with HWS function “**Hot Water Speed**”
- **Low NOx Class 6** (UNI EN 15502-1) thanks to the premix modulating burner
- **Domestic Hot Water production up to 13.2 l/min**, with Δt 25 K, with special stainless steel heat exchanger
- “**Pit stop**” service
- **KXeasy**: Backlit (7) DAY modulating remote control with Open Therm Protocol (std. supplied)
- Set up for future applications in systems and suitable to meet the requirements provided in the new installation Standards
- **High efficiency modulating pump** (according to ErP Directive)
- **Completely disappearing connections.**

Modulating premix burner

Electro-pneumatic control with constant combustion ratio. The "Flat" burner ensures:

- **long duration** thanks to the low thermal and mechanical stresses and to the physical inalterability of the fibre in FeCr alloy
- **ideal propagation** of the radiation heat thanks to its chemical-physical structure able to develop a particularly soft and bright flame
- **Low NO_x** (UNI EN 15502)
- **"Quick Release"** unlocking of the complete plate. The release allows the complete removal of the combustion system.

"Quick release" lock and unlocking



Exclusive Heat Exchanger in Al/Si/Mg Alloy

It is made of a special Al/Si/Mg alloy which ensures such a high level of **efficiency and resistance**. Thanks to the internal heat exchange configuration, efficiency levels exceeding 107% in condensation can be reached, which means that the user has increased cost savings and there is a lower impact on the environment.

Filling valve

Fully concealed coaxial system of connections (optional)

Ø 60/100

Fan and gas valve

- compact and silent
 - wide modulation range 1:8
 - absolute safety operation due to the absence of turbulence
- The valve is designed to compensate for the gas pressure fluctuations in the mains and to stabilise the supply pressure, regardless of the suction pressure generated by the premix fan. User friendly adjustable features and easy to maintain, it ensures an accurate mixture of air/gas combustion to guarantee high levels of CO₂ and help condensation with extremely low levels of CO and NO_x.

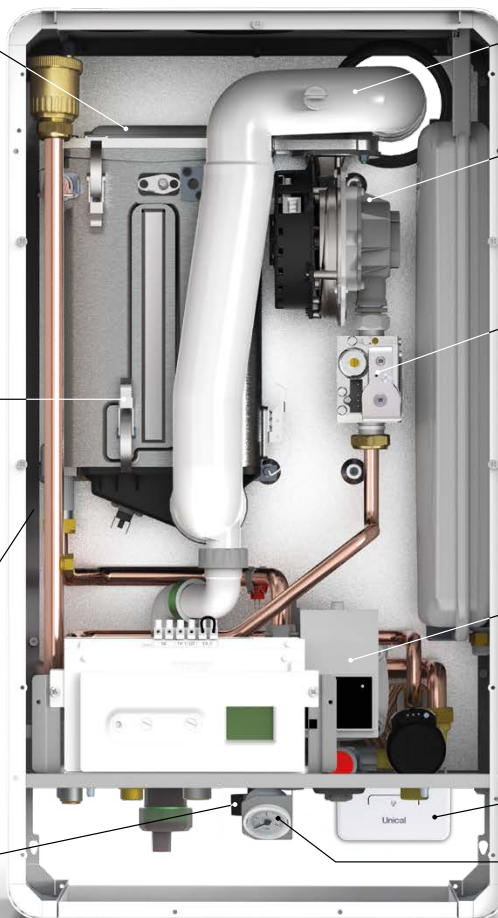


Modulating pump with air vent

High efficiency, in line with the ErP Directive, it automatically sets the boiler output to the system's requirements. Particularly **silent and compact**, it is integrated with safety valve, by-pass and drain valve.

Bridge boiler connection/remote control

Manometer



Accessories (optional)



 Class I +1%
seasonal energy performance

**CHRONOTHERMOSTAT
REGOLAFACILE ON-OFF**



 Class I +1%
seasonal energy performance

**OUTER TEMPERATURE
SENSOR**

A wide range of accessories to complete the system (hydraulic connections, flue ducts, etc.) is available at www.unical.eu





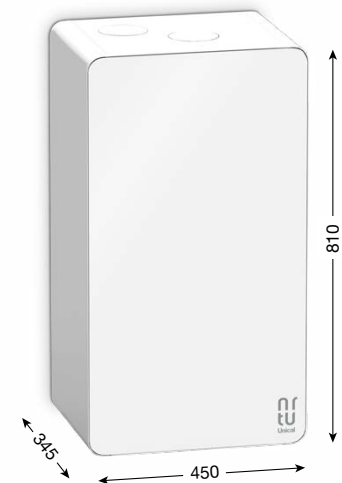
**OT AREAS CONTROL
MODULE**

For installation with hidden smoke outlet



REAR SMOKE EXHAUST
coaxial Ø 60/100

Data according to ErP directive		C24
Nominal Heat Output	kW	3.2 ÷ 23.6
Seasonal space heating energy efficiency	η_s %	92
Seasonal EFFICIENCY CLASS in heating mode		A
Useful Heat Output in high-temp. regime (Tr 60°C/Tm 80°C)	P4 kW	12.7
Useful efficiency at nom. heat output in high-temp. regime (Tr 60°C/Tm 80°C)	η_4 %	87.0
Useful heat output at 30% of nom. heat output in low-temp. regime (Tr 30 °C)	P1 kW	4.2
Useful efficiency at 30% of nom. heat output in low-temp. regime (Tr 30 °C)	η_1 %	96.7
Emissions of nitrogen oxides rif. PCI (PCS)	NO _x mg/kWh	50 (45)
Declared load profile		XL
Energy efficiency in D.H.W. produc. mode	η_{WH} %	86
Daily fuel consumptionI	Q _{fuel} kWh	22.07
Inside sound power level	L _{wa} db(A)	51
Seasonal efficiency class in D.H.W. production mode		A
Production of D.H.W. in continuous operation with Δt 25 K (mixed)	l/min	13.2
Expansion vessel total capacity	l	7
Maximum production of condensate	kg/h	3.7
Heating circuit pressure. (min/max)	bar	0.5 / 3.0
D.H.W. circuit pressure (min/max)	bar	0.5 / 6.0
Protection degree	IP	X4D
NO _x Class		6
Net weight	kg	40



find out more



- The KON1 product complies with:
- Regulation 426/2016 (GAR) - CE marking
 - Directive 2014/30 / EU (electromagnetic compatibility)
 - Directive 2014/35 / EU (low voltage)

**PROUD
TO BE** 
Unical
1972-2022 | 50 years