



**Unical**

**X+**



The new wall hung condensing boiler **X+** is synonymous with **X**, as inoxidable (stainless steel), for the heat exchanger that forms the engine of these wall hung condensing boilers, and + **(more)** as:

- + **Power** + **Quantity of domestic hot water**
- + **Performance** + **Quietness**
- + **Respect for the environment**

X+ is available as **Combi boiler (C)** and **System boiler (R)**:

**R 24 / R 35**: nominal output in Heating mode: 24 / 33 kW is as standard pre-wired for both DHW sensor and 3 way valve kit".

**C 24**: (nominal output in Heating mode: 24 kW / DHW mode: 30 kW)

**C 35**: (nominal output in Heating mode: 33 kW / DHW mode: 33 kW) combined, instantaneous, for natural gas or LPG with conversion kit supplied.

Main characteristics:

- **Low NOx Premix burner (class 6)**
- **IPX5D (also for outdoor installation)**
- **Adjustment of minimum output** when in heating mode
- Electronic antifreeze function for **operation up to -15 °C**
- **Management of 2 heating zones** at different temperatures (high/low)
- **Electronics with HWS "Hot Water Speed" function** in order to reduce any possible delay during the production of DHW, and **automatic air vent function (combi)**
- **Wide range of accessories**



## STAINLESS STEEL HEAT EXCHANGER

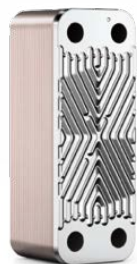
- REDUCED EMISSIONS / HIGHER EFFICIENCY
- NO WELDING
- QUIETER OPERATION
- LOWER PRESSURE LOSSES
- MONOSPIRAL OVAL SECTION
- GREATER COMBUSTION CHAMBER VOLUME
- REDUCTION IN DEPOSITS
- LONGER LIFESPAN
- SPECIAL CHAMBER MADE OF COMPOSITE MATERIAL AND GLASS FIBER, IDEAL FOR REDUCING THERMAL AND ACOUSTIC LOSSES
- FRONT ACCESS FOR EASY MAINTENANCE

■ **Compact size compatible with other Unical models**  
(ideal for replacements)

■ **Designed with ample space for easy maintenance**

**Stainless steel exchanger/condenser**

**High efficiency modulating pump**



**D.H.W. heat exchanger**

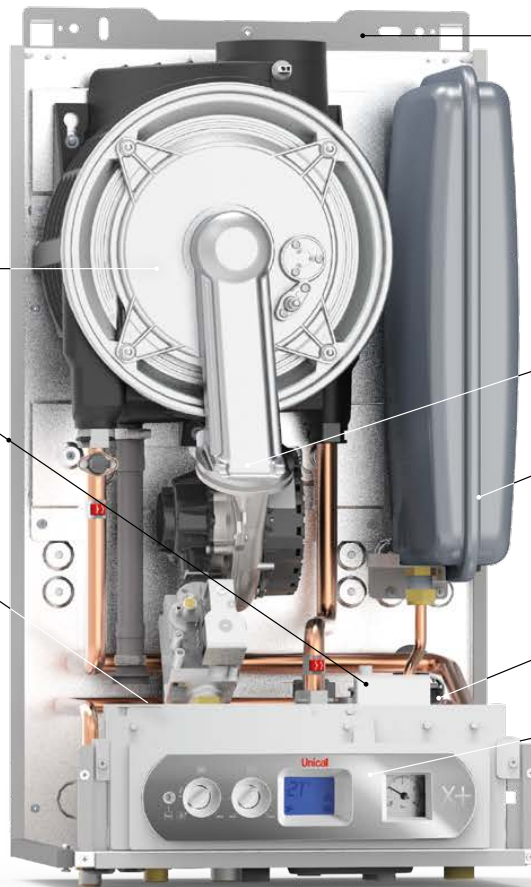
**(combi boiler)**

stainless steel with  
braze-welded plates.

12 plates for model 24 C  
16 plates for model 35 C

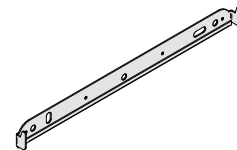
New asymmetric  
technology:

- size reduction
- greater efficiency



**Standardized template and connections**

with easy wall fixing bracket supplied  
as standard



**Low NOx premix modulating burner**

**10 litre expansion vessel**

**Brass safety valve with G 1/2 connection**

**Control Panel**

with a captivating aesthetic special  
**Silver gloss treatment**, equipped with  
display with selector function and  
temperature adjustment potentiometer  
and reset button

# EXT version for outdoor installation


The X+ boiler is standard IPX5D, with a high degree of protection as required by the regulations. For that reason with the addition of the protection top (optional), it can be installed outdoors with 60/100 coaxial exhaust system.

The following accessories complete the outdoor installation equipment:

- **Anti-freeze heater kit for condensate siphon and pipes**
- **Connections cover kit**



# Accessories (optional)



**POD** is a modulating OT+ wireless Thermostat with Wi-Fi Gateway

- **Easy setting** thanks to the rotating ring
- **Wireless (Bluetooth 4.1 BLE & WI-FI)** for remote weekly / daily programming trough **App for Smartphone and Tablet**

**ErP** Class V **+3%**  
Class VI **+4%\***  
seasonal energy performance  
\*if connected to a Wi-Fi network

GET IT ON **Google Play**    Download on the **App Store**



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

**SIM-CRONO P**  
Backlit ( 7 ) DAY modulating remote control with Open Therm Protocol



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

**KXeasy**  
Backlit ( 7 ) DAY modulating remote control with Open Therm Protocol



**ErP** Class I **+1%**  
seasonal energy performance

**KTsmart**  
( 7 ) DAY digital chronothermostat ON /OFF, Wi-Fi, touch screen











**ErP** Class I **+1%**  
seasonal energy performance

**REGOLAFACILE ON-OFF**  
( 7 ) DAY digital chronothermostat ON /OFF



**EXTERNAL STORAGE TANK MANAGEMENT KIT**

A wide range of accessories to complete the system (hydraulic connections, flue ducts, etc.) are available at [www.unical.eu](http://www.unical.eu).

Technical data according to ErP directive		R 24	C 24	R 35	C 35
Nominal output heating / D.H.W.	kW	24 / 30	24 / 30	33 / 33	33 / 33
Heat output in condensation 50/30 (minimal-nominal)	kW	5.3÷25.2	5.3÷25.2	5.4÷34.7	5.4÷34.7
Seasonal space heating energy efficiency	$\eta_s$ %	93	93	93	93
<b>Seasonal EFFICIENCY CLASS in heating mode</b>					
Useful heat output in high-temp. regime (Tr 60°C / tm 80°C)	P4 kW	23.4	23.4	32.3	32.3
Useful efficiency at nom. heat output in high-temp. regime (Tr 60°C/ Tm 80°C)	$\eta_4$ %	87.8	87.8	87.9	87.9
Useful heat output at 30% of nom. heat output in low-temp. regime (Tr 30 °C)	P1 kW	7.8	7.8	10.8	10.8
Useful efficiency at 30% of nom. heat output in low-temp. regime (Tr 30 °C)	$\eta_1$ %	97.9	97.9	97.8	97.8
Emissions of nitrogen oxides ref. PCS	NO <sub>x</sub>	45	45	49	49
NO <sub>x</sub> class		6	6	6	6
Annual electricity consumption	QHE GJ	73	73	100	100
Declared load profile		XL	XL	XL	XL
Energy efficiency in D.H.W. produc. mode	$\eta_{WH}$ %	88	88	86	86
Daily fuel consumption	Qfuel kWh	22.2	22.2	23.97	23.97
<b>Seasonal EFFICIENCY CLASS in D.H.W. production mode</b>		-		-	
Production of D.H.W. in cont. operation with $\Delta t$ 35 K	l/min	-	12.3	-	13.6
Expansion vessel total capacity	l	10	10	10	10
Maximum production of condensate	kg/h	3.9	3.9	5.3	5.3
Heating circuit pressure. (min./max.)	bar	0.5 / 3.0	0.5 / 3.0	0.5 / 3.0	0.5 / 3.0
D.H.W. circuit pressure (min./max.)	bar	0.5 / 6.0	0.5 / 6.0	0.5 / 6.0	0.5 / 6.0
Sound pressure level LpA at nominal output (*)	dB(A)	43	43	46	46
Protection rating	IP	X5D	X5D	X5D	X5D
Net weight	kg	33	34,5	35,5	37

(\*) measured in free field at 1 m distance from the appliance



Supplied as standard with:  
- LPG Conversion kit  
- Copper pipe connection adapter 22 & 15



The X+ 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