



Unical





Technology marries design. The boiler finally becomes a piece of design,
emerging as a protagonist in a new domestic environment.

Osa^s all contained in 18 centimetres



reddot award 2017
winner



SELECTION
2016



GERMAN
DESIGN
AWARD
NOMINEE
2017



the color of your style



White

Inox Supermirror

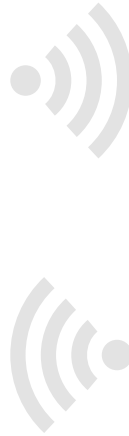
Apple Green

Matt Black

Black

Front panels in polymethylmethacrylate. For updates on the availability of the colours, please get in touch with the Unical dealer.

Ufly, everything under control

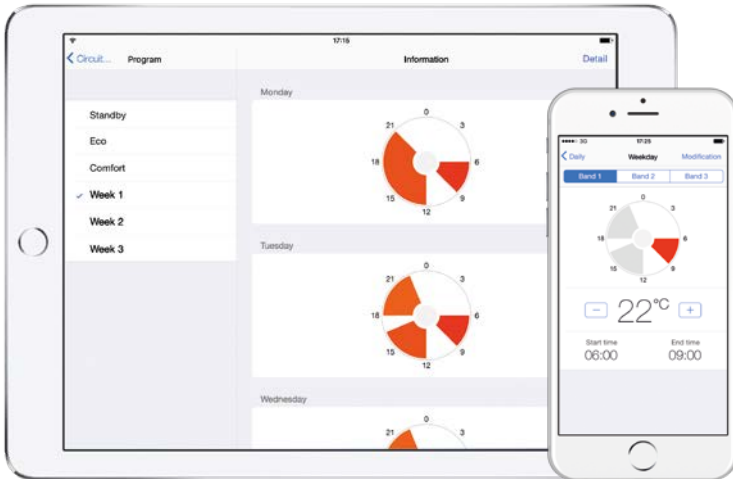


Ufly control panel with touch-screen and upgradable software, "appears" almost magically when needed and once you finish using it you can also stick it magnetically on the appliance's side panel. Remotable, it can also become a room chrono-thermostat thanks to the indoor and outdoor temperature sensors, (standard supplied).

always connected



Ufly is also an APP, with which you can easily control your heating system and OSA boiler using your smartphone or tablet (via the Home Wi-fi)





Osa^S



- Osa^S, thanks to Ufly, the integrated slide-in concealed control console, connected to the indoor and outdoor temperature sensors, supplied as standard, attains the Class **A+** seasonal efficiency in heating mode.
- Low NOx Class 5
- Heat exchanger/Condenser in aluminium/silicon/magnesium
- Total premix burner, with constant combustion ratio, completely electronic (both the gas valve and modulating fan)
- Ignition and electronic flame control via a single electrode
- Modulation ratio 1:8
- Automatic combustion feed-back via the electrode (that constantly monitors the quality of the combustion)
- DHW heat exchanger in anti-scaling stainless steel with 12 plates (mod. 24 kW) and 14 plates (mod. 35 kW), all with "thermal length" optimized for condensation
- Min. heat output adjustment in C.H function
- HWS "Hot Water Speed": commutation from C.H to DHW mode without stopping the pump
- Management of 2 zones: high / low temperature, with differentiated priority
- Clever hydraulic filling of the C.H. system, able to warn of possible leakages
- Electronic anti-freeze function from 5°C
- Multigas operation (Natural or LPG) with simplified commutation
- Up-gradable via USB type interface
- High efficiency pump, complying with the ErP Directive (in force from September 2015), modulating according to the heat output request, managed by the on-board electronics
- Connection for diagnostics and programming via computer or portable programmer
- Double expansion vessels, 10 liters total
- Burner inspection system and heat exchanger cleaning via quick release clamps
- Standard delivery in "Black"
- Registered Design and Trade Mark



design and technology

A choice of specially designed, simple and compact elements, a direct consequence of high engineering

Exclusive fully concealed coaxial system of connections ø 60/100 (up to 5.5 m)

Note:
installation is also available in a standard exposed configuration with ø 80 split discharge system (up to 40 m)












Ufly panel housing

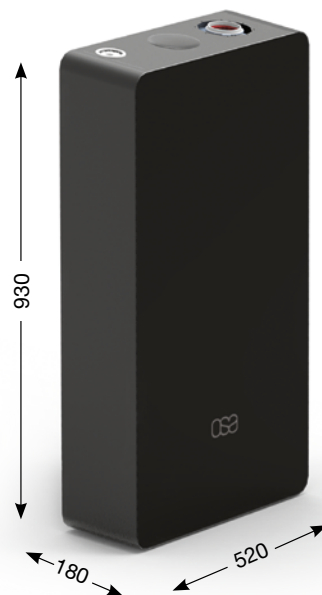


It is also possible to add a 6-litre expansion vessel with a stainless steel Super Mirror front panel (optional)

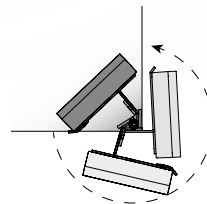
technical data and dimensions

Data according to ErP directive		Osa ^s 24	Osa ^s 35
Nominal Heat Output	kW	23	32
Seasonal space heating energy efficiency of package (*)	η_s %	98	98
Seasonal EFFICIENCY heating energy efficiency class of package (*)			
Seasonal space heating energy efficiency	η_s %	94	94
Seasonal EFFICIENCY CLASS in heating mode			
Useful Heat Output in high-temp. regime (Tr 60°C/Tm 80°C)	P4 kW	13	18,4
Useful efficiency at nom. heat output in high-temp. regime (Tr 60°C/Tm 80°C)	η_4 %	88.7	88.7
Useful heat output at 30% of nom. heat output in low-temp. regime (Tr 30 °C)	P1 kW	4.3	6.1
Useful efficiency at 30% of nom. heat output in low-temp. regime (Tr 30 °C)	η_1 %	99.2	98.2
Emissions of nitrogen oxides (NO _x)	mg/kWh	41	39
Declared load profile		L	XL
Energy efficiency in D.H.W. produc. mode	η_{WH} %	84	86
Seasonal efficiency class in D.H.W. production mode			
Production of D.H.W. in continuous operation with Δt 25 K (mixed)	l/min	13.2	18.6
Heating circuit pressure. (min/max)	bar	0.5 / 3	0.5 / 3
Protection degree	IP	X4D	X4D
NOx Class		5	5
Net weight	kg	41	41

(*) Osa^s is supplied complete with the Ufly panel and indoor and outdoor temperature sensors



In addition to the specified dimensions, while rotating the panel board to take it out, also consider an extra 85 mm (radius) projection



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