

NEW



Acquafun² LN

Instantaneous Gas Water Heaters, conventional flue, LOW NOx

THE NEW LOW NO_x CONVENTIONAL FLUE WATER HEATER

Riello is presenting Acquafun² LN, the new **conventional flue instantaneous water heater**, totally designed and made by Riello.

One of the new range of **low NO_x emissions** products, it is able to offer **maximum water comfort** in compliance with the recent European regulations for reduction of NO_x emissions. The new range is available in two sizes, 11 and 14 l, as well as in the natural gas and LPG versions, with dedicated codes.

Acquafun² LN, with a completely new aesthetic and functional design, is ideal for installation in any residential context, characteristics which, together with **easy maintenance** and performance for the final user, are the hallmarks of Acquafun² LN as an **ideal solution** for producing domestic hot water for residential use.



THE TECHNOLOGIES AND ADVANTAGES



CHARACTERISTICS

- Conventional flue instantaneous water heater with dedicated natural gas and LPG versions
- Battery ignition (two 1.5 V batteries supplied)
- High hot water load profile (XL on the 14 l model)
- Produces abundant domestic hot water at Δt 25°C of 11 and 14 litres/min
- Innovative functional design
- New self-adapting system with thermostat device
- Increased control of domestic hot water output and flow rate as compared to the previous range
- Electronic water and flue gas thermostat reset from user interface, in the event of faults (RESET button).

HIGH COMFORT

- Wide range of flow rates and comfort
- High temperature stability of delivered hot water
- Delivery of domestic hot water even with minimum outputs and low water pressure

LOW ENERGY CONSUMPTION

- Due to the advanced electronic flame regulating system

EASY INSTALLATION AND MAINTENANCE

- Simple and rapid installation without need to remove the casing
- Innovative electronic gas valve with no membrane for less maintenance

NEW DESIGN

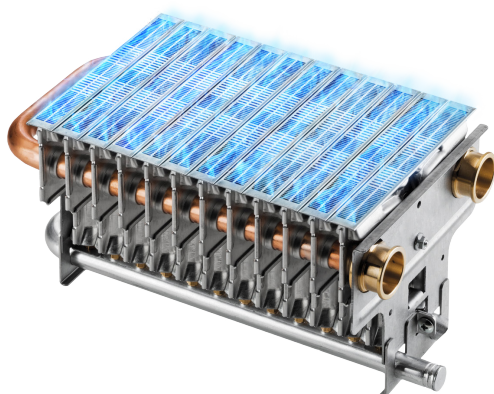
- Innovative interface with backlit display, 3 control buttons and LED battery replacement warning light
- Modern aesthetics and compact dimensions ensure that it easily fits in anywhere in a home

SIMPLE TO USE

- Instinctively and easily understandable control buttons
- Immediate viewing of the temperature on the display
- Battery charge level shown on the display with a LED warning light to indicate that they need replacing



LATEST GENERATION BURNER WITH LOW NO_x EMISSIONS



The hyperstoichiometric and water-cooled **innovative burner**, allows a considerable in the carbon monoxide and nitrogen oxide **pollution levels** produced by combustion, in compliance with the demanding requirements provided for by (EU) Regulation no. 814/2013 which demands emissions equal to or lower than 56 mg/kWh.

The **high heat input**, together with the extensive possibility of flame regulation (up to 45% of the rated level) complete the profile of this new burner in terms of performance, offering users **maximum water comfort**.

SIMPLE AND INTUITIVE CONTROL INTERFACE



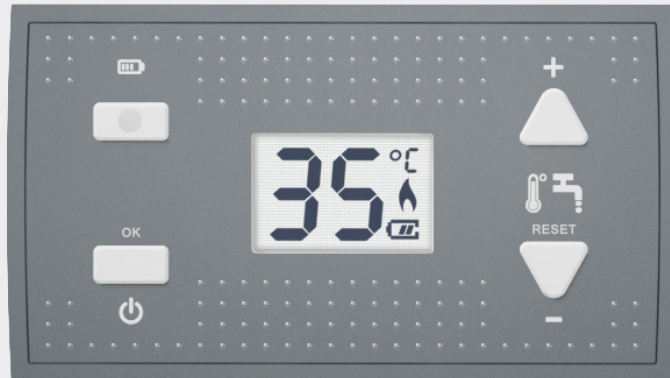
SIMPLE AND INTUITIVE BACKLIT DISPLAY SHOWING DI TEMPERATURE OF THE WATER IN °C, PRESENCE OF FLAME AND BATTERY CHARGE LEVEL



THREE BUTTONS CONTROL ALL THE FUNCTIONS OF THE WATER HEATER



SIMPLE FOR USERS TO OPERATE DUE TO BUTTONS WITH SYMBOLS INDICATING EACH USER FUNCTION



ICONS



BATTERY LEVEL LED
It blinks when the batteries are low, telling users to replace them.



FLAME
Detects when the flame is lit.



ON - OFF / CONFIRM BUTTON
Switches the heater on and off. Confirms a choice.



TEMPERATURE
Indicates the temperature of the domestic hot water delivered.



+/- BUTTON
Allows users to browse through available parameters, change a parameter setting and increase/decrease the temperature set for domestic hot water.

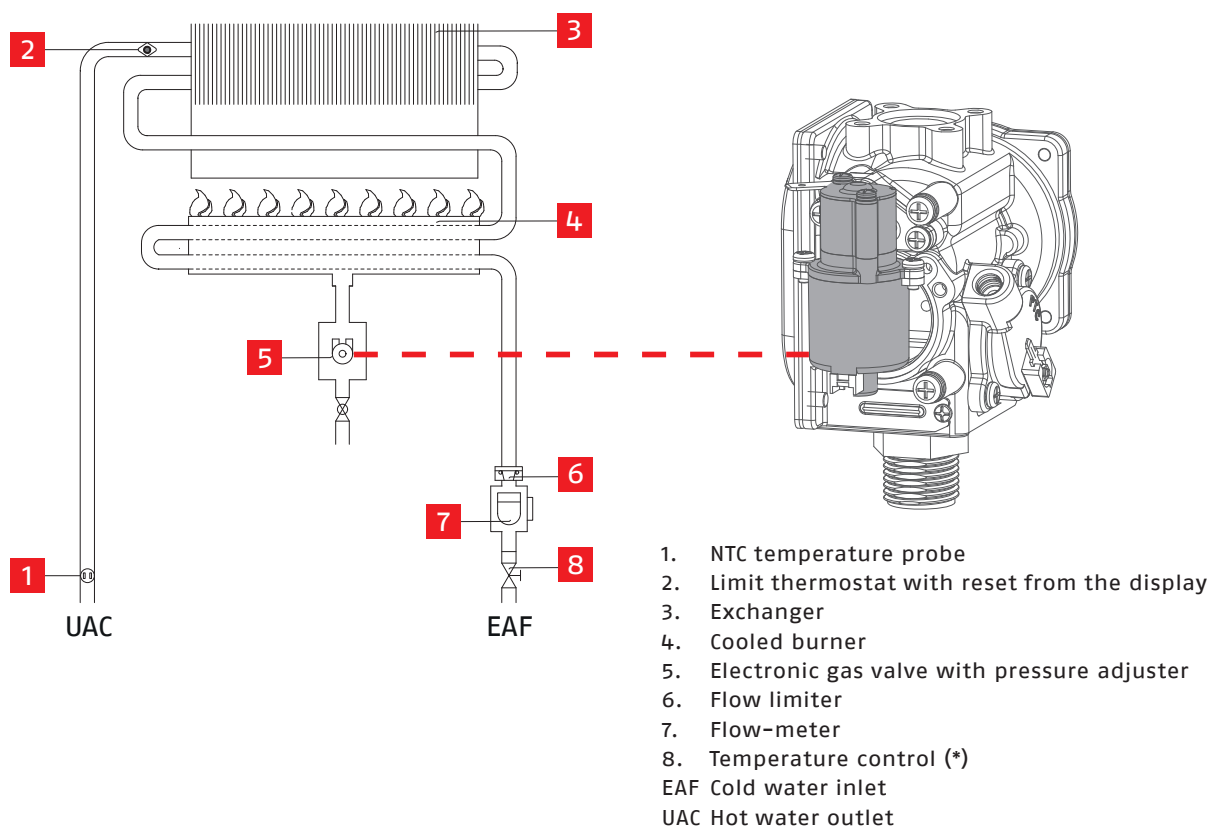


RESET BUTTON
Press the button for 5 seconds to RESET a fault.

IMMEDIATE AVAILABILITY OF HOT WATER

The **innovative electronic gas valve** coupled with the pressure adjuster allows **immediate supply** of power in delivery, thanks to controlled management of the flow-meter and of the NTC temperature probe.

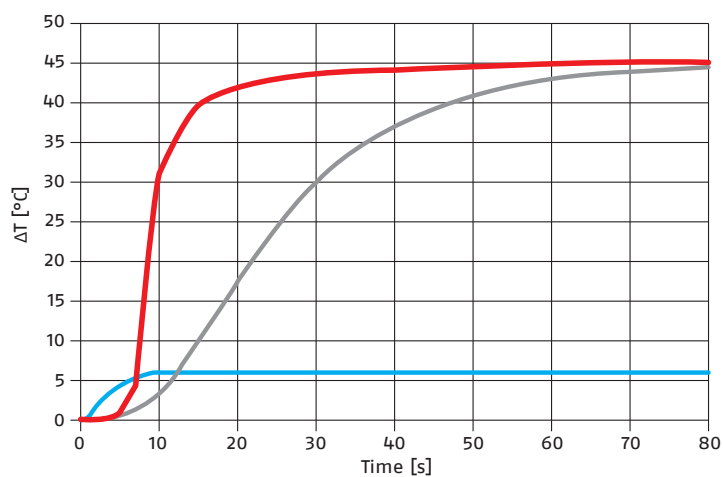
The new electronics **simplify maintenance** and provide high level performances.



(*) Ideal for controlling differing mains water temperatures (e.g. summer/winter).

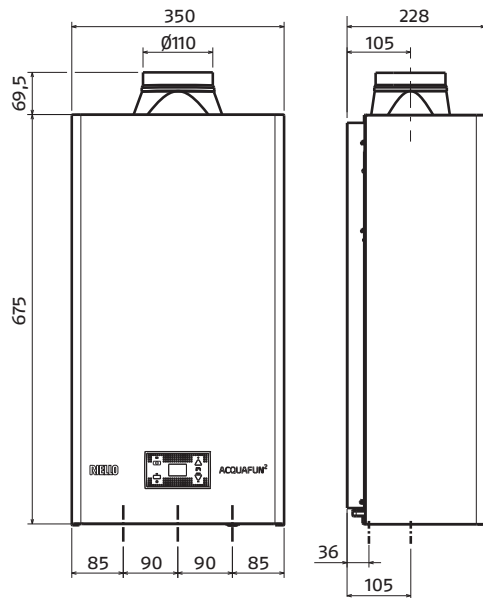
The new Acquafun² LN range stands out because it reaches the desired hot water temperature in a very short time, offering optimum comfort.

- Acquafun² LN with electronic control
- Previous mechanically controlled models
- Domestic hot water output l/min

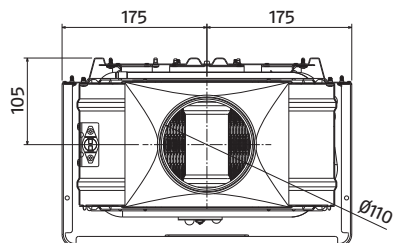


TECHNICAL DRAWINGS

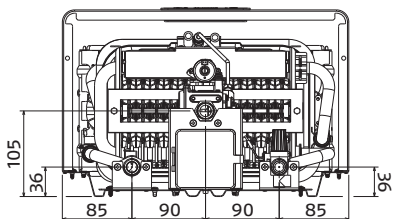
ACQUAFUN² 11 LN



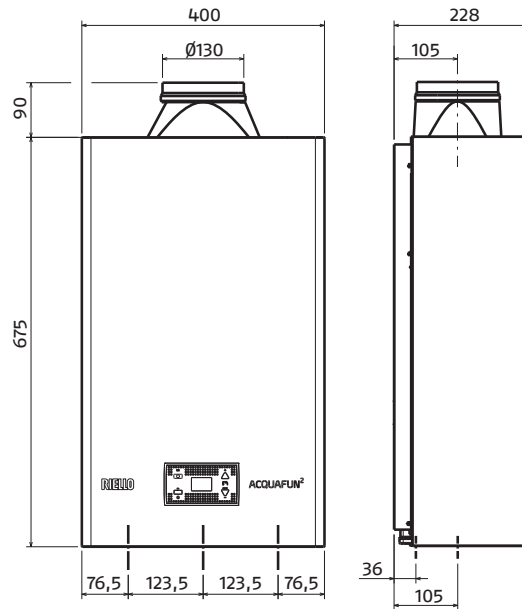
View from above



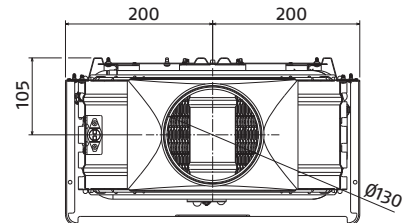
View from below



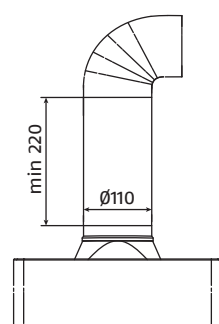
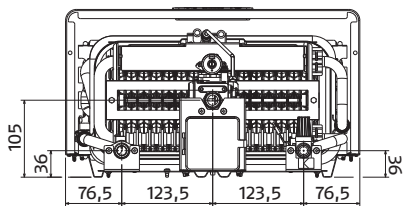
ACQUAFUN² 14 LN



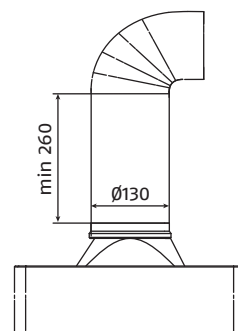
View from above



View from below



Minimum vertical height
from the flue gas outlet,
required for a proper
evacuation



TECHNICAL DATA

MODELS AVAILABLE		ACQUAFUN ² 11 LN	ACQUAFUN ² 14 LN
ENERGY LABEL SPECIFICATIONS ACCORDING TO EUROPEAN ErP DIRECTIVE			
Water heating energy efficiency class	-	A	A
Water heating load profile	-	M	LX
Water heating energy efficiency (η_{wh})	%	77.2	80.0
Daily gas consumption (Q_{fuel})	kW/h	8.084	25.279
Annual gas consumption (AFC)	GJ	6	19
Nitrogen oxide (Nox) emissions	mg/kWh	46	50
CHARACTERISTICS			
Type	-	Conventional flue	
Draught	-	Natural draft	
Ignition	-	Two 1.5 V batteries	
Flame control	-	Ionization	
Flame regulation	-	Continuous	
Hot water production $\Delta t=30^{\circ}$	litres/min	9.3	11.6
Rated heat input (G20/G30-G31)	kW	22.0/21.0	28.0/28.0
Rated heat output (G20/G30-G31)	kW	19.43/18.33	24.36/24.75
WATER			
Range of flow rates - Selector set to minimum	litres/min	from 2.5 to 5.5	from 2.5 to 6.5
Range of flow rates - Selector set to maximum	litres/min	from 2.5 to 11	from 2.5 to 14
Water temperature increase - Selector set to minimum	°C	50	50
Water temperature increase - Selector set to maximum	°C	25	25
Minimum/normal/maximum pressure	bar	0.2/2.0/10.0	0.2/2.0/10.0
Water connections	Ø	1/2"	1/2"
DHW temperature selection range	°C	35-60	1/2"
GAS			
Rated water supply pressure G20/ G30/G31	mbar	20/28-30/37	20/28-30/37
Gas fitting	Ø	1/2"	1/2"
Flue gas temperature G20/G30/G31	°C	190/188/187	173/167/176
FLUE GAS OUTLET PIPE			
Maximum length	m	110	130
DIMENSIONS AND WEIGHT			
Dimensions (H×L×P)	mm	675x350x230	675x400x230
Net Weight	kg	12	12
Available gas versions	-	NG/LPG	



ACQUAFUN2 LN

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The manufacturer strives to continuously improve all products. Appearance, dimensions, technical data, standard equipment and accessories may therefore be liable to modification without notice.

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