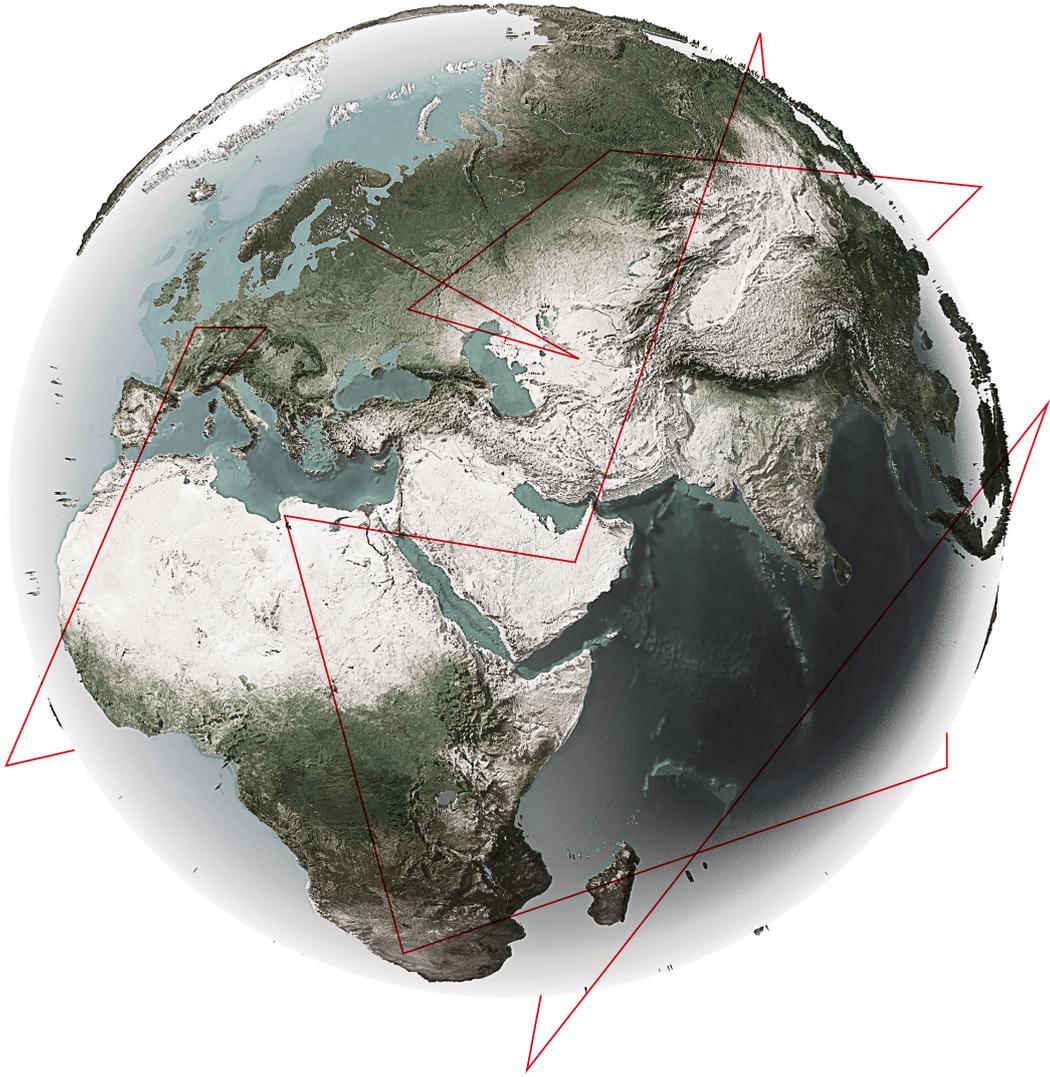


ENERGY FOR LIFE

HEATING SYSTEMS



BURNERS

PRODUCT HIGHLIGHTS

# CONDENSING WALL-HUNG BOILERS

- Stainless steel primary condensing heat exchanger
- Self-adaptive electronic combustion control
- Class 6 NOx
- Combi and heating only models, NG and LPG compatible

RESIDENCE



NEW



Residence is a new condensing wall-hung boiler, ideal both for new installations and as a replacement. The primary heat exchanger, which is made of stainless steel on the inside and with front access to the combustion chamber, provides maximum efficiency and reliability over time.

Residence comes with outputs of 20, 25, 30, 35 and 40 kW, in instantaneous combi or heating only versions.

- ACC adaptive electronic combustion control
- Range Rated type-approval
- New simple and intuitive digital control panel with backlit display
- Low consumption modulating circulator
- Modulation ratio 8:1
- Flue gases flange as standard with dedicated flue system
- Check valve and SRD device as standard
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory
- Possibility also of recessed installation (model 25 KIS) and outdoors in partially protected places (IPX5D)
- Easy to install and availability of a wide range of accessories
- Integrated management of up to 2 direct or mixed circuits (with BAG3 HYBRID accessories or zone management kit)

## TECHNICAL DATA

| Description   | Heat input Heating/DHW min-max (kW) | Useful efficiency (%) |                      | DHW production $\Delta T$ 25°C (l/min) | Energy efficiency class |   | Notes | Dimensions * HxLxP (mm) | Code     |
|---|-------------------------------------|-----------------------|----------------------|--|-------------------------|---|-------|-------------------------|----------|
|   |                                     | Pn (50/30°C)          | 30% Pn (return 30°C) |  |                         |   |       |                         |          |
| <b>COMBI HEATING AND INSTANTANEOUS DOMESTIC HOT WATER VERSION</b> |                                     |                       |                      |  |                         |   |       |                         |          |
| RESIDENCE 25 KIS  | 3,6-20,0/3,6-25,0                   | 106,2                 | 108,4                | 15,1                                   |                         |   | (1)   | 740x420x275             | 20139525 |
| RESIDENCE 30 KIS  | 4,9-25,0/4,9-30,0                   | 106,0                 | 108,1                | 18,1                                   |                         |   | (1)   | 740x420x350             | 20148496 |
| RESIDENCE 35 KIS  | 4,9-30,0/4,9-34,6                   | 106,9                 | 108,2                | 20,8                                   |                         |   | (1)   | 740x420x350             | 20139527 |
| RESIDENCE 40 KIS  | 4,9-30,0/4,9-40,0                   | 106,9                 | 108,2                | 24,1                                   |                         |   | (1)   | 740x420x350             | 20139530 |
| <b>ONLY HEATING VERSION</b>                                       |                                     |                       |                      |  |                         |   |       |                         |          |
| RESIDENCE 20 IS   | 3,6-20,0/3,6-20,0                   | 106,2                 | 108,4                | -                                      |                         | - | (1)   | 740x420x275             | 20139526 |
| RESIDENCE 35 IS   | 4,9-30,0/4,9-34,6                   | 106,9                 | 108,2                | -                                      |                         | - | (1)   | 740x420x350             | 20139528 |

(1) The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory)

\* Overall height of the device considering SRD is 822 mm



NEW INOX HEAT EXCHANGER



COMPATIBLE WITH RICLOUD



LOW EMISSIONS (CLASS 6 NOX RATING) AND HIGH EFFICIENCY



AUTO-ADAPTIVE COMBUSTION CONTROL



INTUITIVE CONTROL



COMPACT DIMENSIONS



QUICK INSTALLATION

## STANDARD EFFICIENCY WALL-HUNG BOILERS

- Primary heat exchanger in copper
- DHW heat exchanger in stainless steel
- Room-sealed and conventional flue models
- Digital display

**START**



The Start range is a standard-efficiency combustion boiler, featuring a modern and functional design completed by a digital screen displaying essential information.

The stylish casing, the compact size and special finishing details allow its installation into any setting.

The new Start is available both as conventional flue and room sealed models with 24, 28 and 35 kW output with combi models (for heating and domestic hot water production).

- Double heat exchanger
- CTR system to achieve faster desired comfort and reduce fuel consumption
- Frost protection function which protects the heating and DHW circuits down to -3 °C, with the possibility of extending protection down to -10 °C (as optional)
- Thermoregulation control supplied as standard, fitted with the external probe (available as option).

### TECHNICAL DATA

| Description  | Output 80°/60°<br>min - max<br>kW | Efficiency<br>Pn (80°/60°)<br>% | Efficiency Pn 30%<br>(47 °C return)<br>% | DHW production<br>(Δt 25°)<br>l/min | Fuel | Dimensions<br>HxLxP<br>(mm) | Code            |
|--|-----------------------------------|---------------------------------|--|-------------------------------------|------|-----------------------------|-----------------|
| ROOM-SEALED - COMBI HEATING AND DHW PRODUCTION       |                                   |                                 |  |                                     |      |                             |                 |
| <b>START 24 KIS</b>                                  | 7,5-24,0                          | 92,8                            | 91,8                                     | 13,7                                | NG   | 715x405x248                 | <b>20122798</b> |
| <b>START 28 KIS</b>                                  | 11,0-27,9                         | 93,0                            | 91,9                                     | 16,0                                | NG   | 740x400x328                 | <b>20122801</b> |
| <b>START 35 KIS</b>                                  | 10,8-34,9                         | 92,9                            | 92,5                                     | 20,0                                | NG   | 780x505x328                 | <b>20122802</b> |
| CONVENTIONAL FLUE - COMBI HEATING AND DHW PRODUCTION |                                   |                                 |  |                                     |      |                             |                 |
| <b>START 28 KI</b>                                   | 8,7-28,6                          | 92,4                            | 89,4                                     | 16,4                                | NG   | 740x450x328                 | <b>20122800</b> |

**RIELLO,  
ONE OF THE MAJOR PLAYERS  
IN THE HVAC BUSINESS WORLDWIDE**

Founded in 1922, Riello is a leading provider of products and services for heating, air-conditioning and energy efficiency. Headquartered in Legnago (Verona), Italy, Riello operates now in over 120 Countries worldwide. Since its beginnings, when Pilade Riello, a brilliant Italian Entrepreneur, manufactured the first burner for bakers' oven, for Riello ENERGY has always represented the key concept of its industrial policy, translating daily into new solutions aimed at ensuring maximum comfort and energy efficiency, in harmony with the environment around us.

Riello today is a part of Carrier, a leading global provider of innovative HVAC, refrigeration, fire, security and building automation technologies.

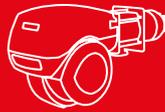


**RIELLO PRODUCT PLANT - SAN PIETRO DI LEGNAGO (VERONA) - ITALY**

HIGHLIGHTS RIELLO ARMENIA - 27016714 EN rev.00 11/2019



**MORE THAN 11 MILLIONS  
WALLHUNG BOILERS  
MANUFACTURED IN OVER 40 YEARS**



**MORE THAN 20 MILLIONS  
BURNERS MANUFACTURED  
IN OVER 40 YEARS**



**MORE THAN 1 MILLION  
PROFESSIONAL HEATING PRODUCTS  
MANUFACTURED IN OVER 40 YEARS**

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