

**CONDENSING WALL-HUNG BOILERS**  
with post heat exchanger in stainless steel  
and composite material

**NEW**

# CIAO AT



A Carrier Company

 **Beretta**

**CIAO AT,  
THE IDEAL BOILER  
FOR HIGH TEMPERATURE  
SYSTEMS**



LOW  
NOx

## BERETTA INTRODUCES THE NEW CIAO AT, THE SPECIFIC CONDENSING BOILER FOR REPLACEMENT IN TRADITIONAL HIGH TEMPERATURE SYSTEMS

The new range **CIAO AT** is available in two combi models with 25 kW output, respectively fuelled by natural gas and LPG. Both models are equipped with **DIN standard hydraulic connections**, to allow easy replacement of boilers with DIN hydraulic connections.

Many new features compared to the previous range. First of all the **new post heat exchanger in stainless steel and composite material**, which allows to pre-heat the return water from the primary circuit using the residual heat of the exhaust fumes. The **cooled burner**, the **new electronics**

and **interface**, the **reduced depth** of the boiler which allows it to be installed even in small recesses, complete the innovative profile of this product, which is going to become the reference in the specific segment of replacement in systems.

The **simple and linear design**, in line with the Beretta style, the **compactness of dimensions** and the **installation flexibility** make CIAO AT easy to integrate into any living context, both **inside the home and outside (in partially protected places) or recessed**, by means of **dedicated accessories**.



TRADITIONAL PRIMARY  
HEAT EXCHANGER



STAINLESS STEEL  
POST-EXCHANGER



NEW ELECTRONICS  
AND INTERFACE



QUICK AND EASY  
INSTALLATION



UNIVERSAL  
INSTALLATION



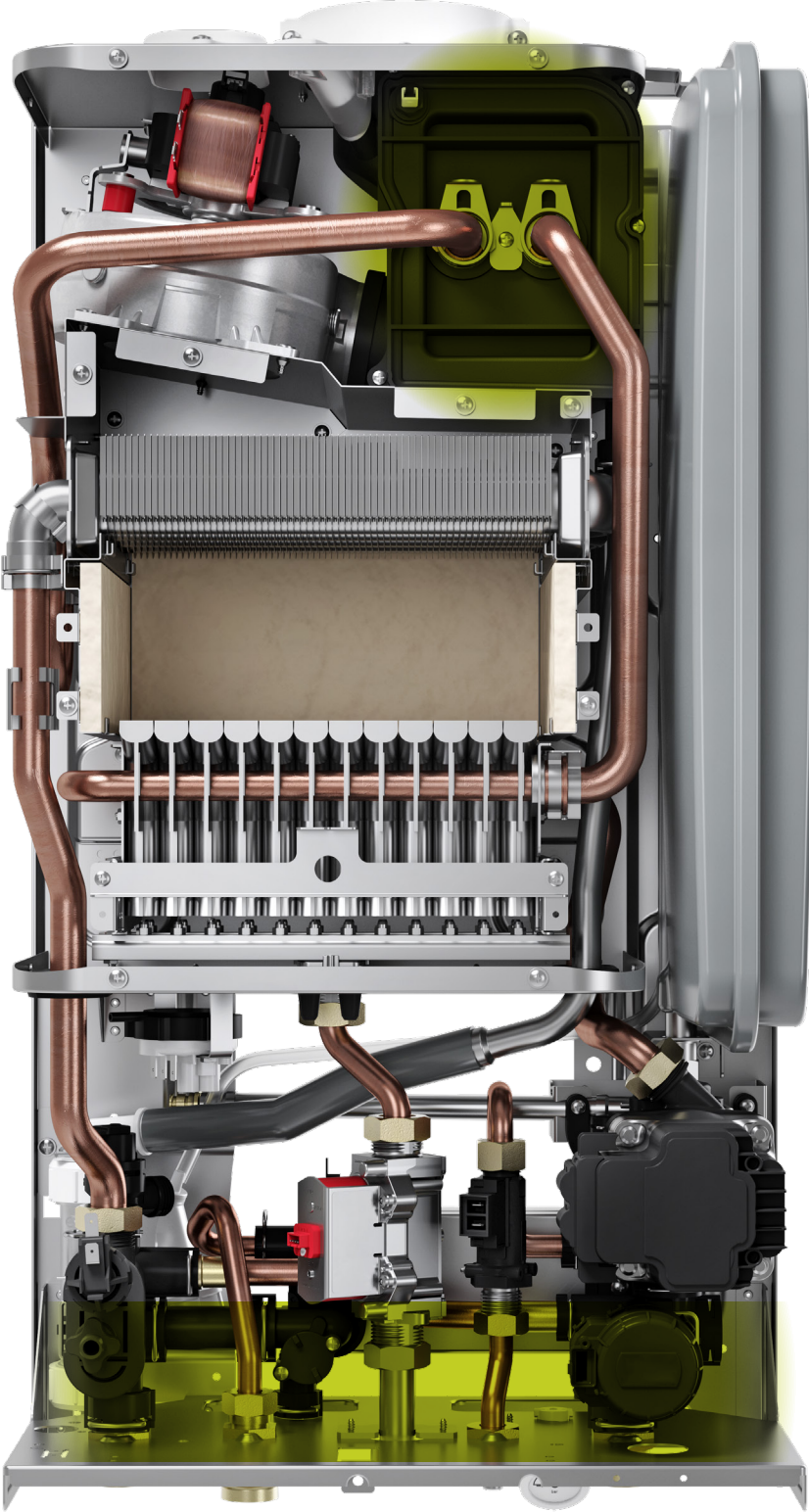
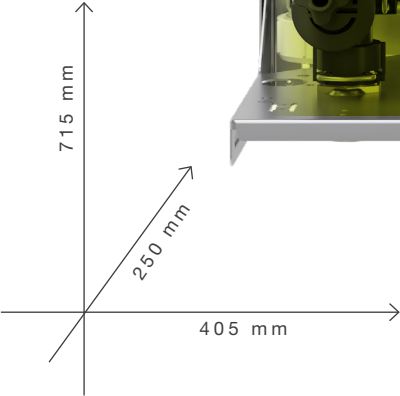
LOW NOx  
CLASS 6 COMPLIANT



COMPACTNESS AND FLEXIBILITY

25C NG - 25C LPG

COMBI MODELS



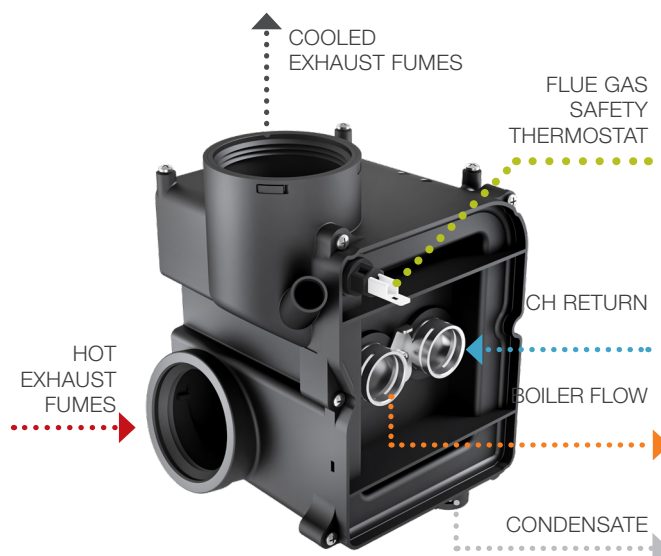
## TECHNICAL CHARACTERISTICS

- › **CONDENSING BOILER FOR HEATING AND DOMESTIC HOT WATER PRODUCTION, SPECIFIC FOR HIGH TEMPERATURE SYSTEMS**
- › **NEW LAYOUT WITH COMPACT DIMENSIONS AND LOW WEIGHT (ONLY 31 KG !)** TO FACILITATE PORTABILITY AND IN-WALL INSTALLATION
- › TRADITIONAL PRIMARY HEAT EXCHANGER IN COPPER
- › **NEW AND ROBUST FINNED PACK POST HEAT EXCHANGER IN STAINLESS STEEL, WITH SHELL IN COMPOSITE MATERIAL**
- › DHW PLATE HEAT EXCHANGER WITH THE POSSIBILITY OF PRE-HEATING
- › **INNOVATIVE GAS-AIR COMBUSTION SUPERVISION SYSTEM**, TO OFFER IDEAL OPERATION DEPENDING ON THE THERMAL LOAD OR FLUE GAS CONFIGURATIONS
- › ROOM-SEALED COMBUSTION AND FORCED DRAFT WITH **LOW NOX COOLED BURNER**
- › AUTOMATIC HYDRAULIC BY-PASS AS STANDARD
- › MODULATION RANGE 1: 3
- › **LOW CONSUMPTION CIRCULATOR** ( $EEI \leq 0.20$ ), 6 m, WITH ANTI-BLOCKING
- › ANALOGUE HYDROMETER AS STANDARD
- › **LOW NOX EMISSIONS: CLASS 6 (UNI EN 15502-1)**
- › **INNOVATIVE GAS VALVE ADJUSTMENT PROCEDURE**
- › **DIN TYPE HYDRAULIC CONNECTION SEQUENCE**, IDEAL FOR THE REPLACEMENT OF PRODUCTS WITH THE SAME TYPE OF CONNECTIONS
- › **MAXIMUM INSTALLATION FLEXIBILITY: INDOOR, OUTDOOR AND RECESSED INSTALLATION (IN A PARTIALLY PROTECTED PLACE)**
- › **KIT OF FREEZE-PROTECTION RESISTORS, HYDRAULIC CONNECTIONS AND EXTERNAL PROBE** AVAILABLE AS ACCESSORIES
- › **NEW FLUE GAS FLANGE WITH CLICK-FIT CONNECTION** FAST AND SAFE, NO EXTERNAL COLLAR REQUIRED
- › IPX5D ELECTRICAL PROTECTION LEVEL
- › BOILER FIXING JIG SUPPLIED AS STANDARD
- › **COMPATIBLE WITH BeSMART WIFI CONTROL AS A THERMOSTAT**
- › **DEDICATED LPG CODE** FOR GAS TRANSFORMATION, PLEASE CONTACT THE BERETTA AUTHORIZED SERVICE CENTERS

# NEW COMBUSTION CHARACTERISTICS

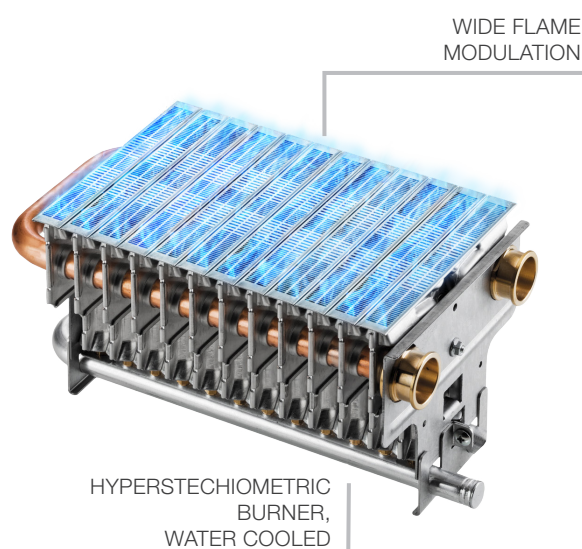
## INNOVATIVE POST HEAT EXCHANGER

- › HEAT RECOVERY UNIT WITH FINNED PACK IN STAINLESS STEEL, IN A SHELL IN THERMOPLASTIC MATERIAL
- › IDEAL FOR USE IN HIGH TEMPERATURE SYSTEMS
- › PRE-HEATING FUNCTION OF THE PRIMARY CIRCUIT, USING THE RESIDUAL HEAT OF THE EXHAUST FUMES AND OF THE COOLED LOW NOX BURNER
- › REDUCED NEED FOR CLEANING, THANKS TO THE USE OF TECHNOLOGICALLY ADVANCED MATERIALS



## LOW NOX BURNER

CIAO AT is able to meet the most demanding requirements in terms of low emissions, in order to make heating appliances less polluting. The innovative **CIAO AT** burner, of the hyperstoichiometric type, features a very low temperature flame. This characteristic, in combination with the cooling of the burner through the water of the heating circuit, produces a significant lowering of the polluting values of carbon monoxide and nitrogen deriving from combustion, such as to satisfy with full marks the new limits set by the legislation (EU Regulation 814/2013).



# NEW INTERFACE

The **new digital interface of CIAO AT**, **designed with particular attention to the ease of use**, is equipped with a modern backlit display that allows an immediate and complete reading of the information on the operating status of the machine, both for the user and the

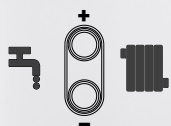
installer or maintenance technician. Through six keys with intuitive functionality it is possible to easily adjust both the heating and DHW temperature, to access the configuration of the machine parameters, or to reset the alarm status.

## THE KEYS

Six intuitive and easy-to-use keys, both for the user and the installer/maintenance technician. When pressed in certain combinations, they allow additional functions.

## ICONS

Through icon language, **CIAO AT** communicates with the user and the installer in an immediate way, visualizing on the display all the information about the boiler status. In addition to the most common icons, some interesting new features have been introduced:



Increase / decrease  
DHW and Central heating temperature

connection to an  
OT device



info menu  
entry



selection of boiler operating mode  
(SUMMER, WINTER, HEATING  
ONLY, OFF)

need for  
maintenance,  
contact Service



- presence of  
flame  
- flame lock



resetting of any alarm status;  
enabling / disabling INSTALLER /  
BOILER CONFIGURATION mode

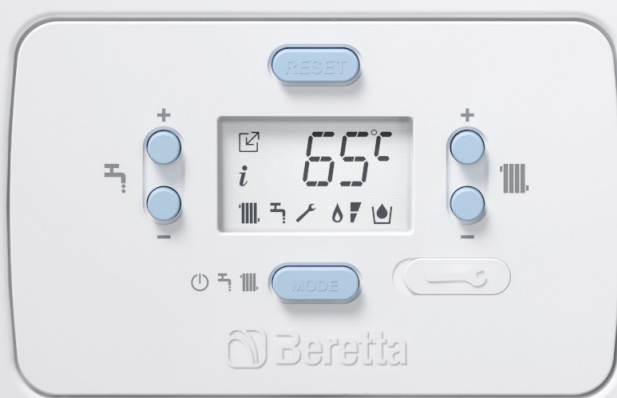


access for SERVICE

need for filling



modulation range:  
- from 0 to 50%  
- from 51% to  
100%



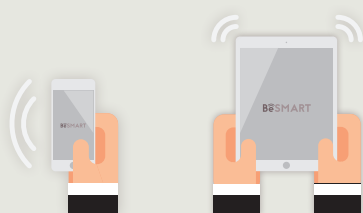
## CONNECTIVITY WITH BeSMART

**CIAO AT** is compatible with BeSMART, the WiFi thermostat by Beretta that allows to control the boiler and remotely manage all its functions, even the most advanced, through OTBus protocol.

A large liquid crystal display shows all the important information. Using the keys, you can easily and intuitively set the temperature of the central heating and of the domestic hot water, and you can make the hourly programming.



Thanks to the WiFi Box kit, an optional accessory, you can manage the comfort of home wherever you are, after connecting to the Internet. All BeSMART functions, even the most advanced, are therefore always at your fingertips. Also thanks to the WiFi Box kit, it is also possible to connect additional BeSmart in radio frequency and without wiring, allowing the management of systems with up to 8 independent, unmixed zones.



Download APP  
from

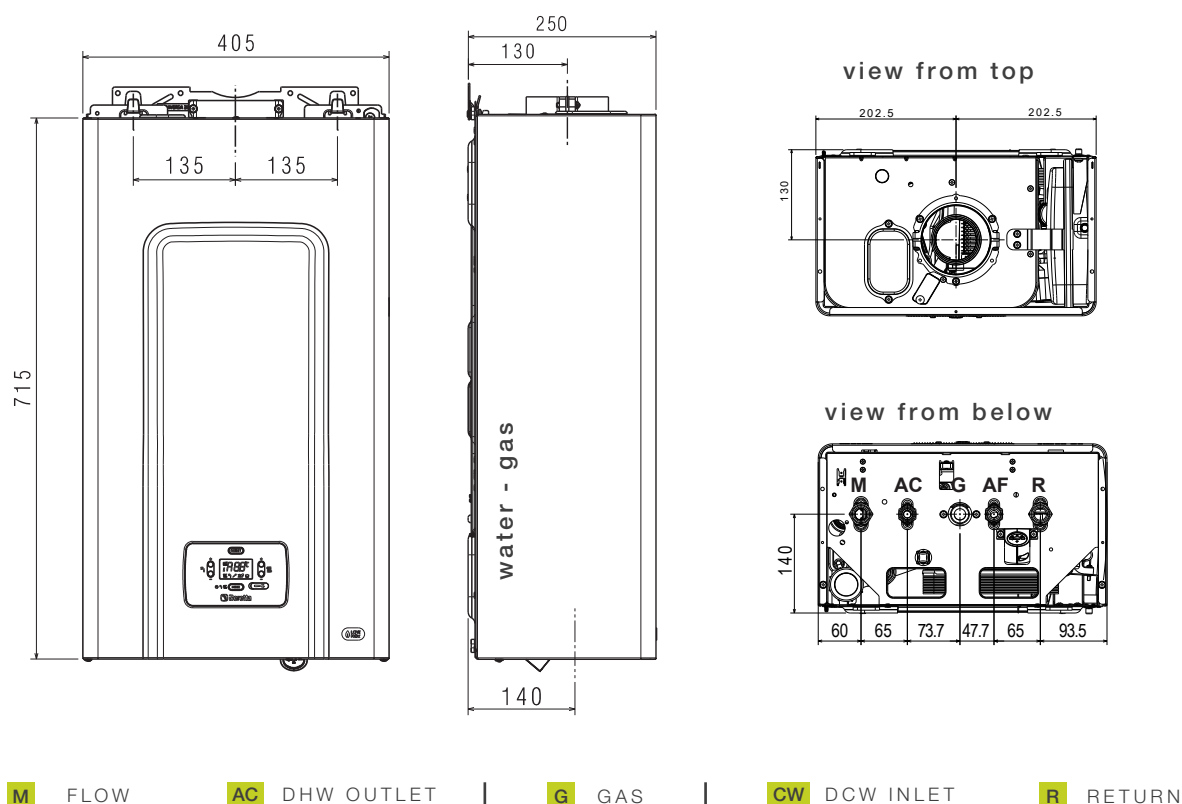


[besmart-home.com](http://besmart-home.com)

Learn more about all the features of BeSMART at [www.besmart-home.com](http://www.besmart-home.com)



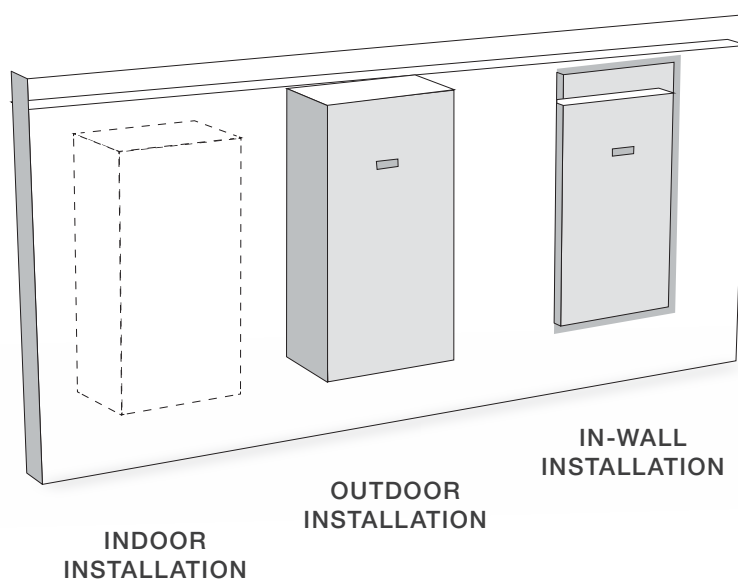
## TECHNICAL DRAWINGS



## UNIVERSAL INSTALLATION

**Ciao AT** is designed to be installed even outdoors in partially protected places or contained recessed spaces (e.g. Beretta Edilbox), thanks to its frost protection of up to 0°C.

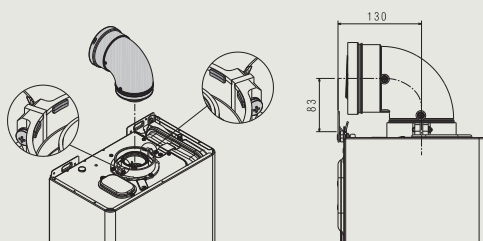
In colder conditions it is possible to extend the protection down to -10°C by using the special frost protection resistance kit.



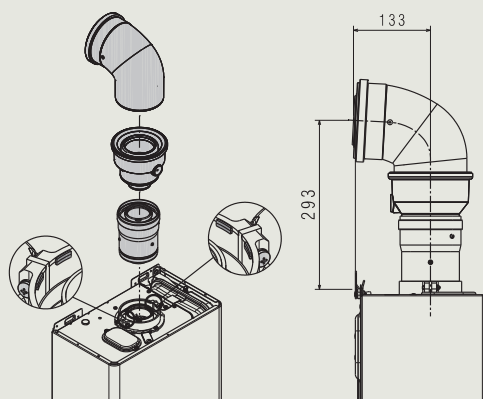
## FLUE OPTIONS

- FLANGE INSTALLED AS STANDARD
- QUICK INSTALLATION WITHOUT THE NEED FOR AN EXTERNAL COLLAR
- BOILER DEPARTURE WITH BERETTA SPECIFIC FLUE OPTIONS

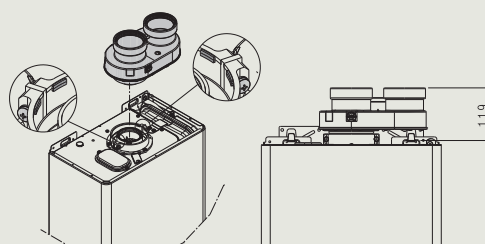
- CONCENTRIC FLUE Ø60-100 mm



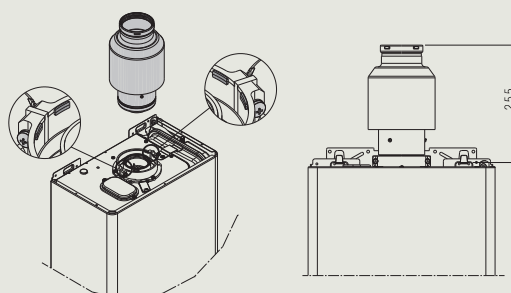
- CONCENTRIC FLUE Ø80-125 mm



- TWIN FLUE Ø80 mm



- FLUE TYPES B22P- B52P



# TECHNICAL DATA



## ENERGY LABELLING SPECIFICATION (in accordance to the ErP Directive)

UOM

Ciao AT 25 C

Product code (fuelled NG)		20176935
Product code (fuelled LPG)		20176941
<b>ENERGY LABEL SPECIFICATIONS ACCORDING TO EUROPEAN DIRECTIVE ErP</b>		
Energy efficiency heating	Class	B
Domestic water seasonal energy efficiency class	Class	A
Domestic water load profile	-	XL
Nominal heat output	kW	24
Seasonal heating efficiency	%	87
<b>CHARACTERISTICS</b>		
Nominal heat input	kW	25,00
Nominal heat output (80°- 60°)	kW	23,95
Reduced heat output (80°-60°)	kW	7,06
Reduced heat input	kW	7,50
NOx	Class	6,00
Total electrical power	Watt	102,00
Supply voltage / frequency	Volt / Hz	230/50
Electrical protection level	IP	IPX5D
Useful efficiency at max. - min. nominal heat input (80°-60°C).	%	95,8-94,1
Useful efficiency at max. nominal heat input (30° return)	%	101,40
<b>CENTRAL HEATING</b>		
Maximum pressure and temperatures	bar/°C	3/90
Heating temperature selection range	°C	30/80
Pump: pump head available for the system	mbar	314
at flow rate of	l / h	800
Expansion vessel capacity	litres	8
<b>DHW OPERATION</b>		
Maximum pressure	bar	8
Minimum pressure	bar	0,15
Quantity of hot water with $\Delta t = 25^{\circ} \text{C}$	litres / min	14,3
Minimum domestic water flow rate	litres / min	2
DHW temperature selection range	°C	35-60
<b>CONNECTIONS</b>		
Central heating flow - return	Ø	3/4 "
DHW inlet - outlet	Ø	1/2 "
Gas inlet	Ø	3/4 "
<b>CONCENTRIC FLUE and AIR INTAKE PIPES</b>		
Diameter	mm	60-100
Maximum length	m	3,5
Loss due to insertion of a 90 ° / 45 ° bend	m	1,3/1,6
Diameter	mm	80-125
Maximum length	m	9
Loss due to insertion of a 90 ° / 45 ° bend	m	1/1,5
<b>TWIN FLUE AND AIR INTAKE PIPES</b>		
Diameter	mm	80
Maximum length	m	14+14
Loss due to insertion of a 90 ° / 45 ° bend	m	1/1,5
<b>DIMENSIONS, WEIGHT</b>		
Boiler size (HxWxD)	mm	715x405x250
Weight	kg	31



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23900 - Lecco

[www.berettaheating.com](http://www.berettaheating.com)

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