

# KALÉO BOILER

Richel Group offers a highly innovative, low-temperature condensing heating system.

The Kaléo boiler is economical, easy to install and highly energy-efficient heating system for horticulture. Highly compact and modular it can be installed either inside or outside the greenhouse. Made up of several stainless steel heat exchangers, each unit offers a wide range of loads and secures heat production. Combined with a low-temperature distribution network, the Kaléo boiler makes it possible to heat your crops efficiently at an affordable price.



## COMPACT AND COST-EFFICIENT

- Controlled investment
- Low installation cost
- Equipment delivered ready to plug in
- No need to build a heating control room or a dedicated water tank
- Highly compact installation



## RELIABLE AND EFFECTIVE

- Stainless steel condensing boiler
- No acidification of the feed-water
- Closed, stable water loop
- Optimum energy efficiency (up to 108%)



## MODULAR AND SECURE

- Several heat exchangers per module guarantee consistent heat production
- Possible to have the various heat exchangers operate in sequence, for enhanced modularity



# TECHNICAL CHARACTERISTICS

## DESCRIPTION

- Compact frame installed in an insulated, waterproof casing made of galvanised metal
- Stainless steel heat collector
- Distribution pump installed on the frame
- Natural gas or propane burner
- 2 m stainless steel flue (dia 200 mm)
- Control: Integrated regulation on the frame, can be controlled via the greenhouse's climate control unit. Temperature of heating water precisely controlled by the unit itself. Option of autonomous regulation
- Option of CO2 recovery (coming soon)
- Installation inside or outside the greenhouse
- Dimensions of the 250 kW module : L1485 mm x W1300 mm x H1340 mm

## TECHNICAL CHARACTERISTICS

PERFORMANCE	KALÉO 250	KALÉO 375	KALÉO 500
Number of heat exchangers	2	3	4
Nominal heating power	250 kW	375 kW	500 kW
Minimum heating power	25 kW		
Nominal effective output 80°/60°C	240 kW	360 kW	480 kW
Nominal effective output 50°/30°C	270 kW	405 kW	540 kW
Thermal efficiency LHV 100%	96,2%		
Thermal efficiency LHV 30%	108%		
Modulation ratio	1 to 8	1 to 12	1 to 16
NOx class	Class 5		

### HYDRAULIC CHARACTERISTICS

Max/min water temp °C	85°c/20°c
Max/min operating pressure	6 bar/1 bar

### COMBUSTION CHARACTERISTICS

Max temp of expelled gases	90°c
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