



we create warm hearts



ORIANA 120

ORIANA 135

ORIANA 150

ORIANA 165





Features



High Quality **Stainless Steel Heat Exchanger**
Offers More Resistance to Oxidation, Seizing and Corrosion



Up to 14 Boiler Cascade, 2310 kW power

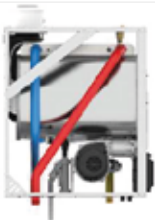


Plug and play. No Intervention require to open boiler casing for cascade adjustments.

Only Plug and Parameter Adjustment by Push Buttons



Internal Clapet System with Good Accesibility



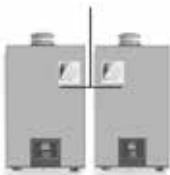
Easy ACCESIBILITY for Maintanance.



Zone Control Unit



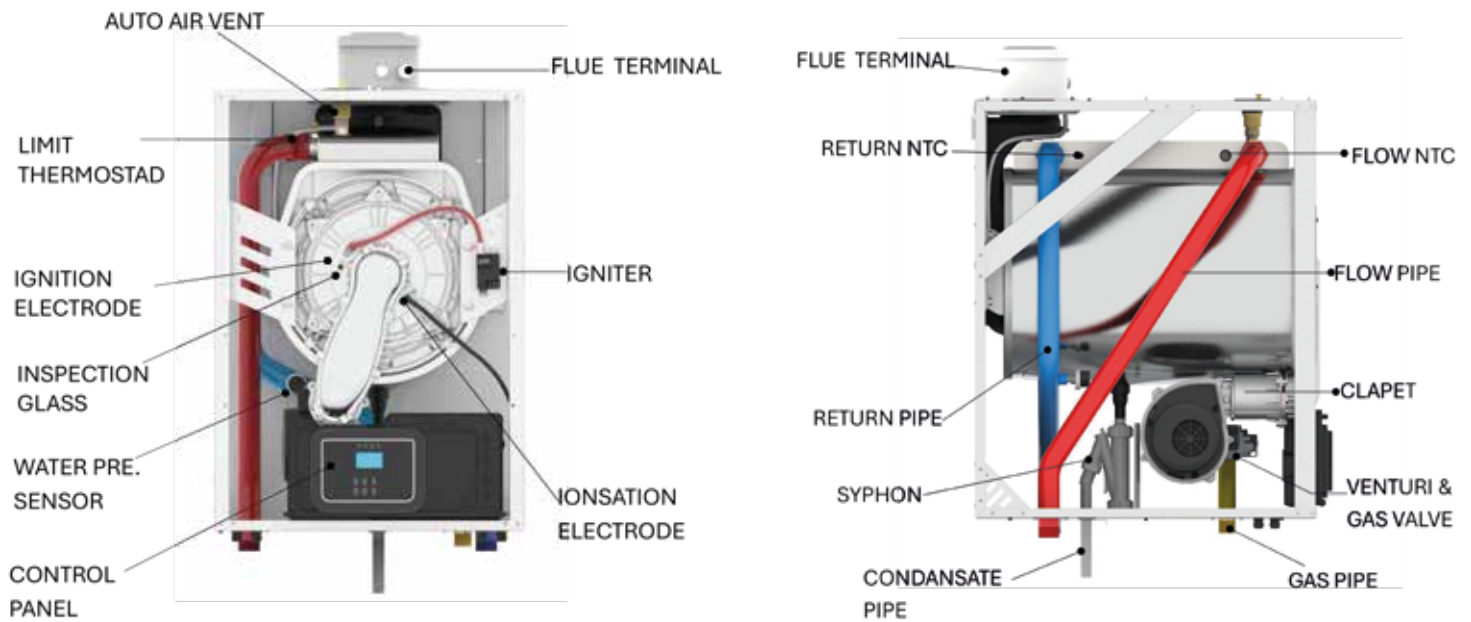
MLC 30-Multi Zone Module



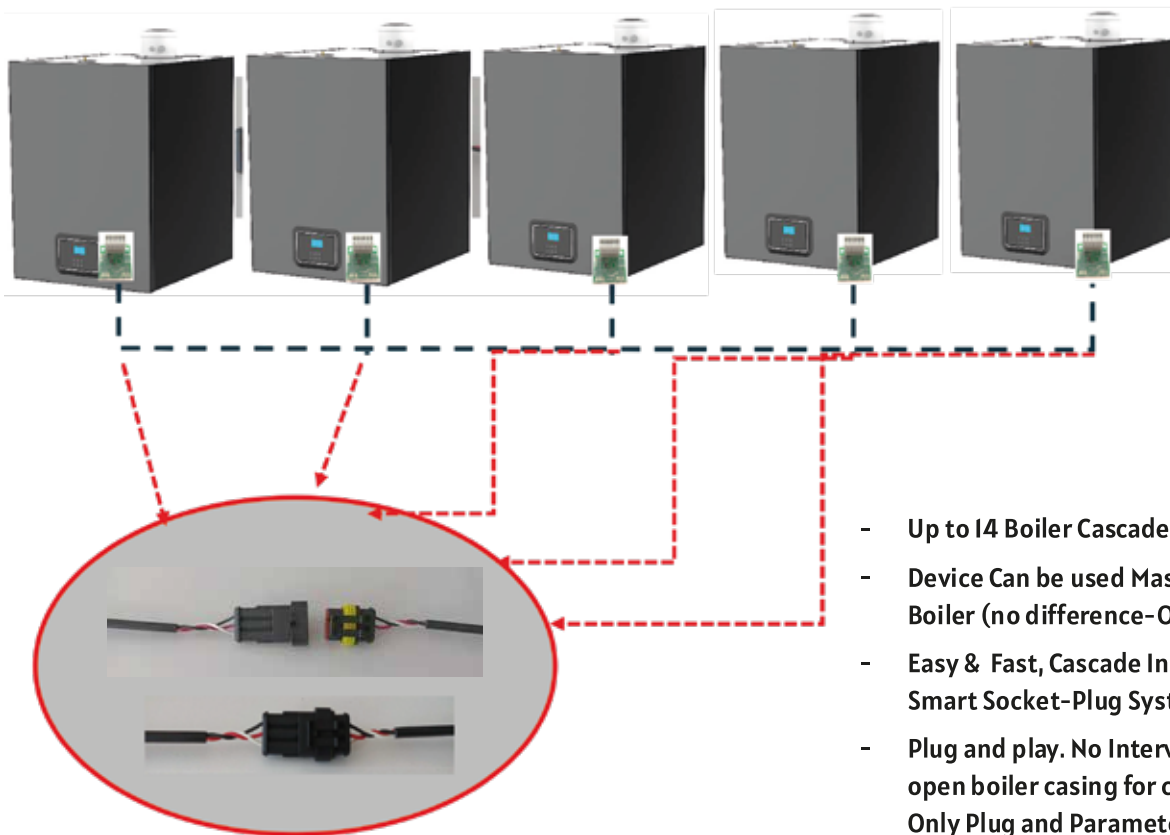
Module for Cascade NO NEED EXTRA MODULE for Cascade



Inner Design



Cascade Connections



- Up to 14 Boiler Cascade, 2310 kW power
- Device Can be used Master / Slave or Single Boiler (no difference-One stock)
- Easy & Fast, Cascade Installation with Smart Socket-Plug System
- Plug and play. No Intervention require to open boiler casing for cascade adjustments. Only Plug and Parameter Adjustment by Push Buttons



Casing Design

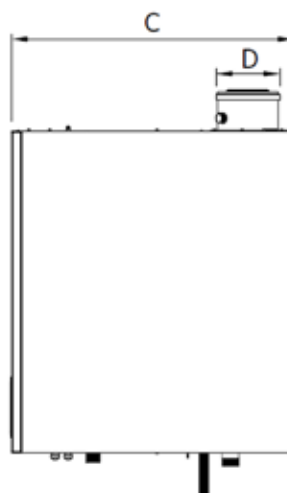
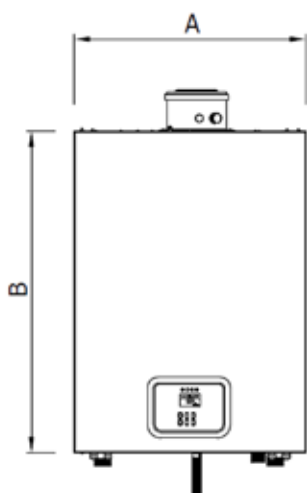
Fully Removable Side Panels & Easy Access from 3 Side



Dimension

Compact and Optimised Dimensions

	Width A (mm)	Height B (mm)	Deep C (mm)	Flue D (mm)	Weight (kg) Ca.
ORIANA 120 – 135	546	805	706	100/150	97,0
ORIANA 150 – 165	546	805	706	100/150	101,5





Accessories / Flue Sets

Product Code	Product Name	Description	Product View
20044000-00	Ø100/150 Horizontal Flue Set	Maximum Flue Distances Lmax= 13 m (ORIENA 120) Lmax= 12 m (ORIENA 135) Lmax= 11 m (ORIENA 150) Lmax= 10 m (ORIENA 165)	
20044001-00	Ø100/150 Extension Flue L= 500m m	Can be used with Horizontal Flue Set and Vertical Flue Set.	
20044002-00	Ø100/150 Extension Flue L= 1000m m	Can be used with Horizontal Flue Set and Vertical Flue Set.	
20044003-00	Ø100/150 Elbow 90°	Can be used with Horizontal Flue Set and Vertical Flue Set. Each 90° elbow use requires a reduction of 100cm from the maximum horizontal/vertical distance.	
20044005-00	Ø100/150 Elbow 45°	Can be used with Horizontal Flue Set and Vertical Flue Set. Each 45° elbow use requires a reduction of 50 cm from the maximum horizontal/ vertical distance.	
20044006-00	Ø100/150 Condensate Discharge Adaptor	It is used in all vertical flue connections to discharge the condensate or rain water that may come from the flue before it reaches the boiler. If this part is used, it is necessary to reduce the maximum horizontal/vertical flue distance by 100 cm.	
20044007-00	Ø100/150 Vertical Flue Set	Maximum Flue Distances Lmax= 18 m (ORIENA 120) Lmax= 17 m (ORIENA 135) Lmax= 16 m (ORIENA 150) Lmax= 15 m (ORIENA 165)	
20044008-00	Straight Roof Passage Apparatus	It is the apparatus that provides a leak-proof passage of the Vertical Flue Set flue from straight roofs.	
20044009-00	Sloped Roof Passage Accessory	It is the apparatus that provides a leak-proof passage of the Vertical Flue Set flue from sloped roofs.	

Accessories / Control Accessories for Cascade System

Accessory Code	Accessory Name	Description	Compatible Product	Product View
20031000-00	Outside Temperature Sensor	Sensor that allows the boiler to regulate according to exterior temperature.	ORIENA 120-165	
20032000-00	Thermostat with Timer	The unit that can be used as a thermostat or only a program timer to provide weekly/ daily program to heater and boiler circuit.	ORIENA 120-165	
20031002-00	QAZ36-Hot Water Tank / Hydraulic Separator Sensor - Immersion Type	The immersion type sensor that will be used to measure the Hot Water Tank or Hydraulic Separator temperature and report to boiler	ORIENA 120-165	
20031003-00	QAD36-System Stream Sensor-Surface Type	A clamp-type sensor for connection on the pipe at the hydraulic separator outlet. It is used to measure the stream water temperature of low temperature zone in double zone systems.	ORIENA 120-165	
20031004-00	MST80 Adjustable Surface Thermostat	A clamp-type adjustable thermostat for heating zone	ORIENA 120-165	
20032001-00	MLC 30-Multi Zone Module	The control unit that controls the Low Temperature/ Underfloor Heating Zone (mixed valve circuit) of ORIENA and ORIENA's boilers or ensures the management of 4 different high temperature zones (radiator, Fan Coil, etc.).	ORIENA 120-165	



Technical Data

TECHNICAL DATA	UNIT	ORIENA I20		ORIENA I35		ORIENA I50		ORIENA I65	
Gas Line		NATURAL GAS		NATURAL GAS		NATURAL GAS		NATURAL GAS	
Type of Gas		G20		G20		G20		G20	
Gas Supply Pressure	mbar	20		20		20		20	
Maximum Gas Consumption (NG)	m³/h	11.63		12.34		14.46		14.86	
Minimum Gas Consumption (NG)	m³/h	1.73		1.73		2.07		2.07	
Modulation Range									
Heat Exchanger Material		Stainless Steel Exchanger							
Efficiency		G20		G20		G20		G20	
(80/60 °C) Efficiency at Maximum Heat Output	%	97.11		97.02		97.01		97.13	
(50/30 °C) Efficiency at Maximum Heat Output	%	105.18		105.29		105.43		105.55	
Seasonal Heating Energy Efficiency	%	Class A							
Radiator Circuit		G20		G20		G20		G20	
Rated Heat Load (Qn) (Max./Min.)	kW	119.0/17		128.3/17.0		142.5/21.3		155,0 / 21,3	
Maximum Heat Power (Pn) (80/60 °C)	kW	115.5		124.4		138.2		150.5	
Minimum Heat Power (Pn) (80/60 °C)	kW	16.5		16.5		20.7		20.7	
Maximum Heat Power (Pn) (50/30 °C)	kW	119.0		135.0		150.2		163.6	
Minimum Heat Power (Pn) (50/30 °C)	kW	17.0		18.1		22.8		22.8	
Temperature Setting Range for High Temperature Circuit (Minimum / Maximum)	°C	25÷80							
Temperature Setting Range for Low Temperature Circuit (Minimum / Maximum)	°C	25÷47							
Operating Pressure (Maximum)	bar	6							
Operating Pressure (Minimum)	bar	0.8							
Domestic Hot Water Circuit									
Temperature Setting Range (min/max)	°C	20/65							
Electric Circuit									
Power Feed	V AC-50 Hz	230 V + %10; -%15							
Exhaust Gas Circuit		G20		G20		G20		G20	
Exhaust Gas Temperature (Max. / Min.) (80/60 °C)	°C	78.8/58.8		81.4/58.8		80.0/54.8		81.3 / 54.8	
Exhaust Gas Temperature (Max. / Min.) (50/30 °C)	°C	54.4/34.9		56.2/34.9		55.5/32.5		56.0 / 32.5	
CO2 (Max. / Min.) (80/60 °C)	%	9.1/8.7		9.1/8.7		9.1/8.7		9.1/8.7	
NOx	Class	6							
NOx Weight (GCV)	mg/kWh	40.00/21.0		43.0/22.0		46.0/26.0		47.0/25.0	
General									
Dimensions (Height x Weight x Depth)	mm	802 x 546 x 706		802 x 546 x 706		802 x 546 x 706		802 x 546 x 706	
Net Weight	kg	97		97		101,5		101,5	
Flue Connection Types		$B_{23} \cdot B_{23P} \cdot C_{13} \cdot C_{33} \cdot C_{43} \cdot C_{53} \cdot C_{63} \cdot C_{83} \cdot C_{93}$							
Category		I_{2H}/I_{2E} (G20=20 mbar)							

All information given in the brochure has been obtained as a result of the conducted tests. Data are subject to change without prior notice.

Arikazan Makina A.Ş.

Address: Oğulbey Mah. Kumludere Cad. No.: 4 06830 - Gölbaşı ANKARA / TÜRKİYE

+90 (312) 615 51 11 / +90 (312) 615 52 52

info@arikazan.com.tr

+90 (312) 615 50 66

www.arikazan.com.tr