Technical Heating Platform



OTTIMO 120
OTTIMO 135
OTTIMO 150
OTTIMO 165



Technical Heating Platform

Main Features

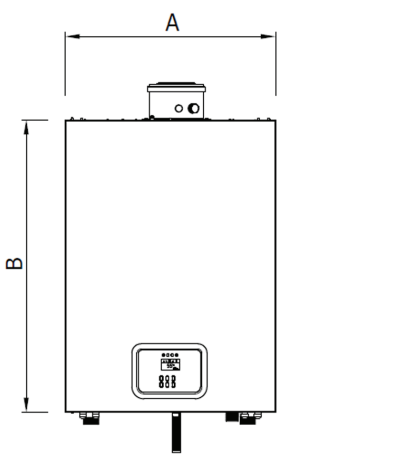
- High Quality **Stainless Steel Heat** Exchanger Offers More Resistance to Oxidation, Seizing and Corrosion
- **Metallic Fiber** Premix Burner, Reduces Emissions Increase Efficiency.
- Wide Modulation Ratio : **1 ÷ 7**
- **Up to 14** Boiler Cascade, **2310 kW power**
- Suitable for Use in High-Rise Buildings (**Up to 6 bar**)
- **Superior Insulation** reduced heat loss and **Super Silent** Operations
- **Internal Flap** System Eliminating the Need for Dampers in Cascade
- **Intergrated Cascade** controller
- Device Can be used Master / Slave or Single Boiler (no difference – **One stock**
- **Easy & Fast, Cascade Installation** with Smart Socket-Plug System
- Hermetic Body (Compatible with **Type B and C Chimneys**)
- Compact and Optimised Dimensions
- Easy **ACCESIBILITY** for Maintanance.

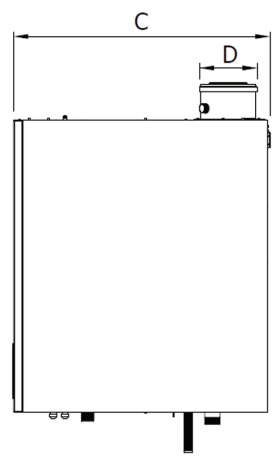


Dimension

Compact and Optimised Dimensions

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

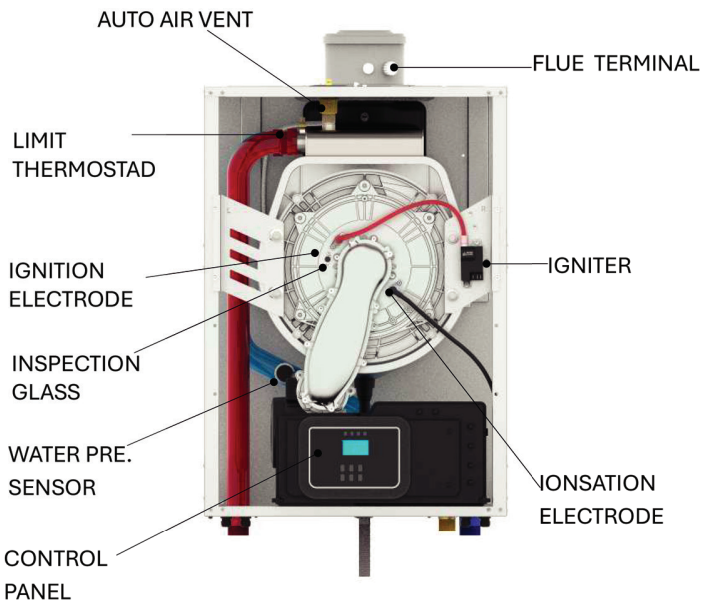


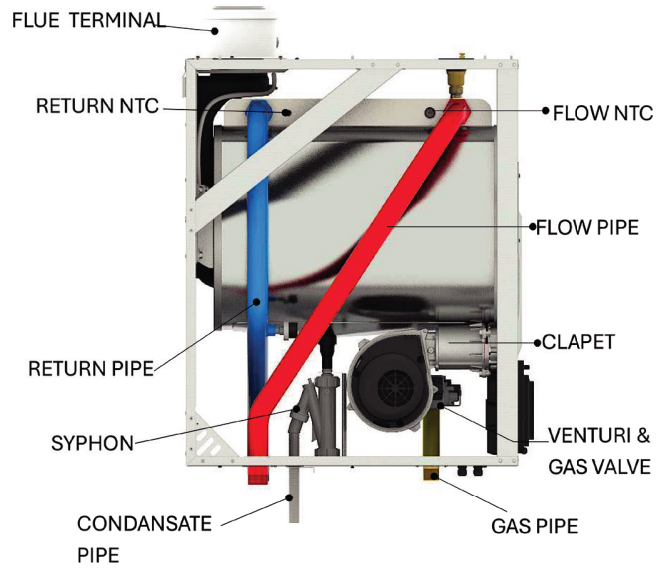




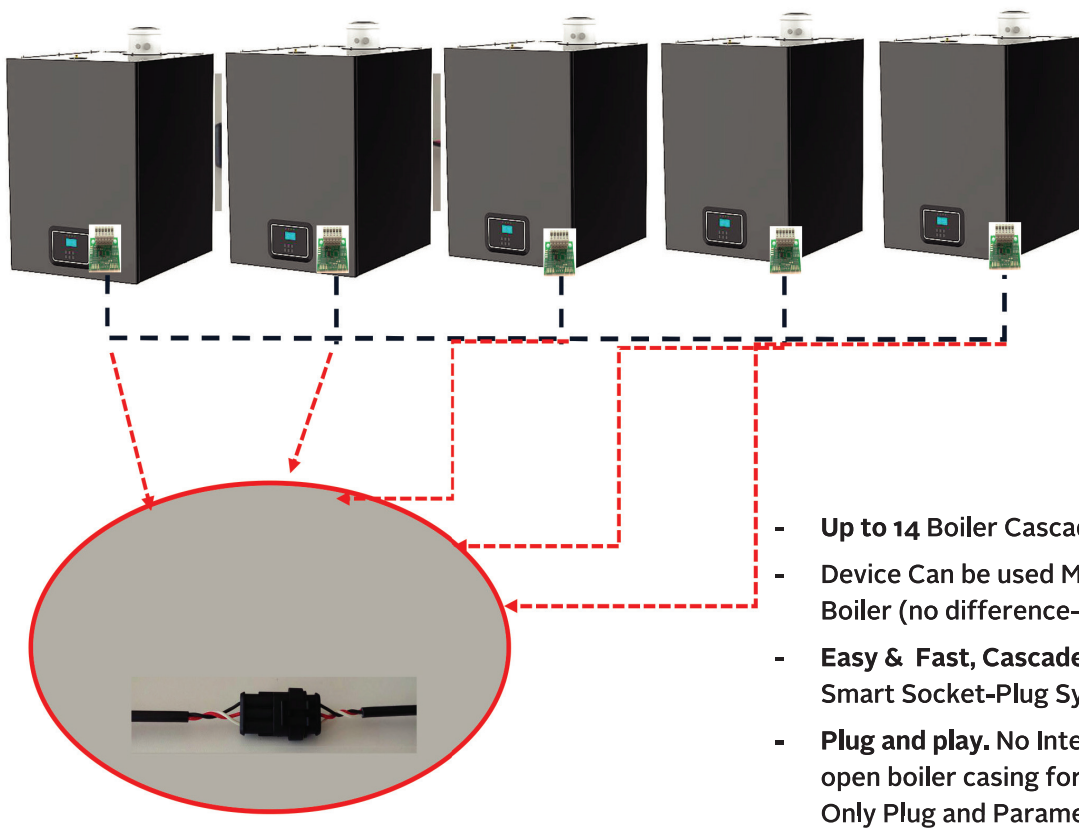
Technical Heating Platform

Inner Design





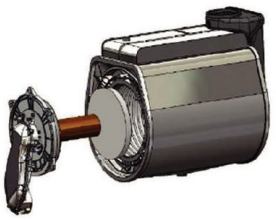
Cascade Connections



- **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

Technical Heating Platform

Features



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



Up to 14 Boiler Cascade, **2310 kW power**

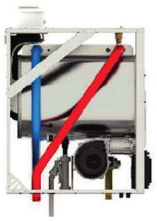


Plug and play. No Intervention require to open boiler casing for cascade adjustments.

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

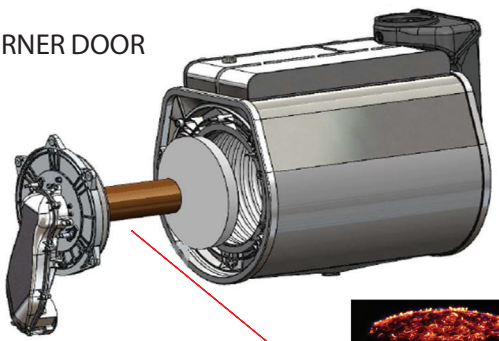


Module for Cascade **NO NEED EXTRA MODULE** for Cascade

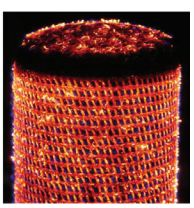
Technical Heating Platform

Heat Exchanger

BURNER DOOR



STAINLESS STEEL
HEAT EXCHANGER



METALLIC FIBER
PREMIX BURNER

- High Quality **Stainless Steel Heat** Exchanger Offers More Resistance to Oxidation, Seizing and Corrosion
- Robust Design,
- Multiple Coil Technology,
- Stainless Steel coil and Side Casing,
- Aluminum Frontal and Back Cover,
- Plastic Back and Top Casing

Components

MAIN HEX.



VALMEX (Italy)

PCB



Bertelli&Partners (Italy)

PUMP (OPITIONAL)



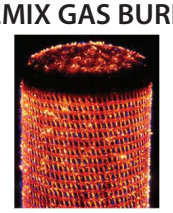
Wilo (Germany)
hydroo (Spain)

FAN



EBMPAPST (Germany)

PREMIX GAS BURNER



POLIDORO (Italy)

GAS VALVE



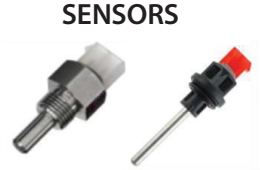
Resideo (Czech Republic)

PRESSURE SENSOR



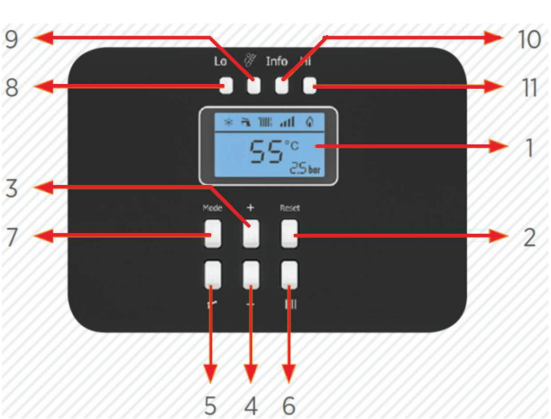
Italy

SENSORS



Tasseron (Holland)

Control Panel



1. **LCD** SCREEN
2. **RESET BUTTON**
3. **PLUS (+)** BUTTON
4. **MINUS (-)** BUTTON
5. **CENTRAL HEATING** SET BUTTON
6. **DHW** SET BUTTON
7. **MODE** BUTTON
8. **LOW POWER** BUTTON
9. **SWEEPER** BUTTON
10. **INFO** MENU BUTTON
11. **HIGH POWER** BUTTON

Technical Heating Platform

Technical Data

TECHNICAL DATA	UNIT	OTTIMO 120	OTTIMO 135	OTTIMO 150	OTTIMO 165
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		1/7			
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} . B_{23P} . C_{13} . C_{33} . C_{43} . C_{53} . C_{63} . C_{83} . 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.

Address: No. 513 , AVA GENERAL , Tavus St , Taremi Bv

Address: Apt.7 , No. 983, Karegar Alley , Hor Sq

021-44342725

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