

70-190kW



FEATURES

Ongas 300 W offers a wide range of heating options from 69 kW to 190 kW, while aluminum casting casting exchanger, stainless steel burner and high-tech automation panel provides comfortable operation.

You will continue to use your boilers with the highest quality aluminium cast heat exchanger produced in the Önmetal Casting Production facilities that use their own original designs in all boilers, as well as being capable of producing the highest heating capacity condensing boiler exchanger in Europe.



Aluminum casting heat exchanger with high corrosion resistance

Original Design: The production and boiler assembly of aluminum casting heat exchangers with an original design are completed at Önmetal casting facilities.

High Operating Pressure: Boilers can operate smoothly in high-rise buildings without the need for a plate heat exchanger with a working pressure of 6 bars.

Large Modulation Range: 1:7 ratio modulation ratio works according to the need and provides high gas saving.

Maximum Energy Saving: Thanks to specially designed pins and flue gas channels, it reaches up to 109% efficiency value.

Compliant with ERP Regulation: It has low emission values with its environmentally friendly product design

Use with Natural Gas: Gas inlet pressure of boilers 21 mbar



6 BAR

%109 Efficiency

ERP

Low DB

CAST IRON

Frost Protection

Önmetal

Rima Heating Systems, cast iron industry in Turkey with over 50 years of experience in the Foundry Industry Önmetal is a commercial organization and a registered trademark. In our product range; Floor and Wall Standing Condensing boilers with heat exchangers produced by our own patent and atmospheric boilers, solid fuel boilers, boilers with gas /fuel burner

The head office is located in İstanbul Organized Industrial Zone and the main factory is located in Edirne. It has a high production capacity in its modern production facilities in a closed area of 10.000 m2 with a continuous investment in new machinery and automation.



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Rima reserve the right to make any modifications to product specifications or any other details, without prior notification.

Önmetal

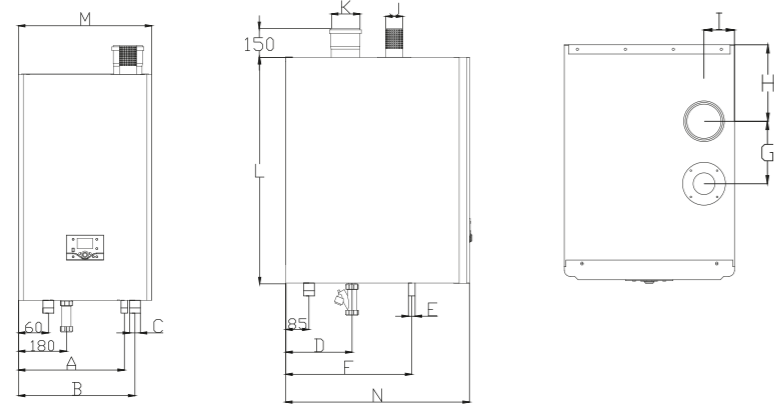


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ONGAS 300 W
WALL HUNG CONDENSING BOILER

ONGAS 300 W WALL HUNG CONDENSING BOILER



Dimensions

The ergonomic dimensions of Ongas 300 W wall mounted condensing devices are listed in the table.

ONGAS 300 W DIMENSIONS														size mm
MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
303 W	403	385	R 1"	178	R 3/4"	318	129	195	85	60	80	800	480	550
304 W	403	403	R 1 1/4"	220	R 3/4"	402	125	211	75	60	100	840	480	650
304 W PLUS	403	403	R 1 1/4"	220	R 3/4"	402	125	211	75	60	100	840	480	650
305 W	403	403	R 1 1/4"	257	R 3/4"	489	190	215	89	60	110	840	500	740
306 W	403	403	R 1 1/2"	304	R 3/4"	581	216	243	87	75	125	840	500	830
307 W	262	262	R 1 1/2"	349	R 1 1/2"	776	216	268	112	75	160	840	540	1050

It provides space saving in narrow spaces with its side-by-side and back-to-back mounting configurations.

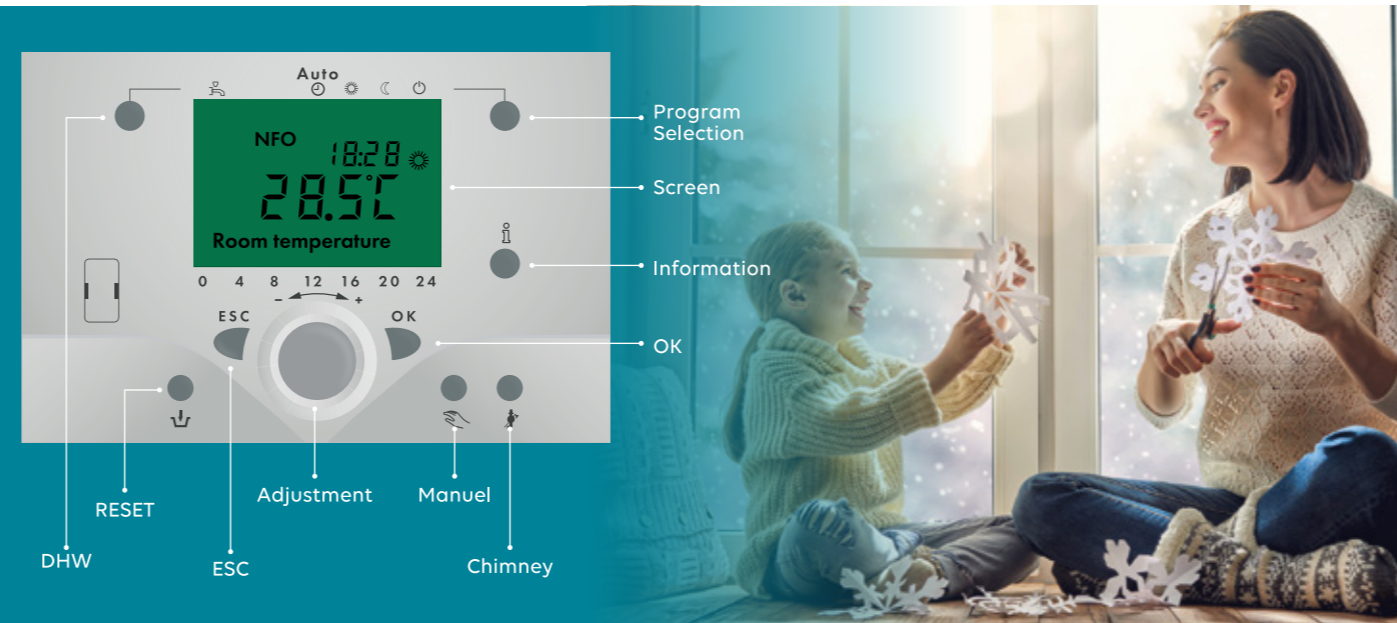
Flue Gas Connection

Ongas 300 W boilers are offered with horizontal and vertical chimney options. All horizontal flue gas pipes must be installed at a 3° angle to ensure the backflow of condensate water. When using with chimney, it should be noted to the distances below.

ONGAS 300 W Condensing Boiler Horizontal Flue Set Contents: 75 cm terminal, enclosure, chimney collar, 90 elbow

Models		ONGAS 303W	ONGAS 304W	ONGAS 304W Plus	ONGAS 305W	ONGAS 306W	ONGAS 307W
Max Chimney Length	m	15	25	25	17	27	37
Missing		For an 90 elbow : 2mt		For an 45 elbow: 1mt		For 1mt terminal: 1mt	

Control Panel



- On-screen automatic diagnostic system
- Programming the daily and weekly working time
- Remote control opportunity without landing in the boiler room
- Frost protection and legionella protection function
- High comfort provided by room thermostat
- Cascade operation up to 16 devices with integrated bus feature
- Multi-zone heating control and, if desired, the option of suitability to work with the Solar panel.



Outside Sensor

It enables the boiler to operate according to the outside temperature. It is mandatory to use



Heat Sensor

It informs the control panel by measuring the temperature of the place where it is mounted. There are two types depending on the mounting location, either clamp type or immersion type.



Room Thermostat

It is a heat control device used to keep the ambient temperature at the set value and to provide temperature comfort. We recommend its use in small capacity boilers.

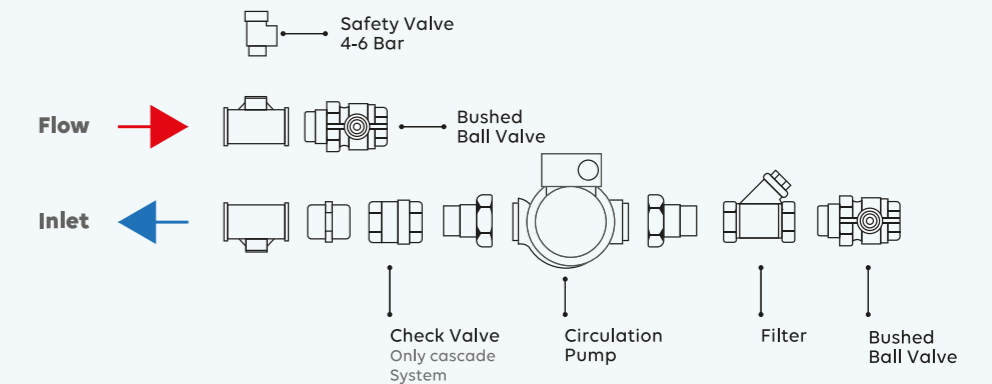


Cascade Module

It enables the boilers to communicate with each other and with the control panel. One order must be placed for each boiler in cascade system

Hydraulic Connection Kit ve Pumps

Pumps to be placed under each boiler in the heating system should be selected from energy efficient pumps. The pump models we recommend are at the bottom. When different brands of pumps are preferred, the flow rates of the preferred pumps and their heights and pump inlet diameters should be the same diameter as the pumps recommended.



Models	Grundfos	Wilo	Pump Diameters
Ongas 303 W	Upml 25/105	Yonos Para 25/7	DN 25
Ongas 304 W	Upml 32/105	Yonos Para 32/10	DN 32
Ongas 304 W Plus	Upmxi 32/125	Yonos Para 32/10	DN 32
Ongas 305 W	Upmxi 32/125	Yonos Para 32/10	DN 32
Ongas 306 W	Magna 40/120	Yonos Para 40/12	DN 40
Ongas 307 W	Magna 40/120	Yonos Para 40/12	DN 40

Technical Table

ONGAS 300W		303W	304W	304W Plus	305W	306W	307W
Max. heat output (80/60°C)	kW	62	90	109	115	142	171
Min. heat output (80/60°C)	kW	14	19	19	18	33	37
Max. heat output (50/30°C)	kW	69	100	115	124	154	187
Min. heat output (50/30°C)	kW	16	22	22	21	37	41
Efficiency at maximum load (80/60°C)	%	96,2	94,7	97,5	96,4	69	95,1
Efficiency at minimum load (50/30°C)	%	107,1	108,3	108,3	108	109,4	109,5
NOx Class		6					
Max. heating mode setting temperature	°C	80					
Max. domestic water setting temperature	°C	65					
Flue gas pressure at full load	pascal	230	230	260	210	210	190
Water pressure (min - max)	bar	1-6					
Dry weight	kg	65	82	88	103	130	167
Power Supply	V/Hz	230/50					
Protection level	IP	IPX4D					
Power consumption	W	190	190	190	190	310	315
Water inlet-outlet diameters		1"	1 1/2"			1 1/2"	
Gas inlet		1"					
Flue gas outlet (Ø)		80	100	100	110	125	160
Flue application		B23, C63, C13, C33		B23, C63			



- The pH level of the system water in which condensing boilers will be operated must be in the range of 7-8.5 and the hardness in the range of 4-8 dH.
- Iron, lime, mud, sediment, burr, etc. should be removed from the installation in order not to damage the boilers and the system. All items must be cleaned