

220-850kW



FEATURES

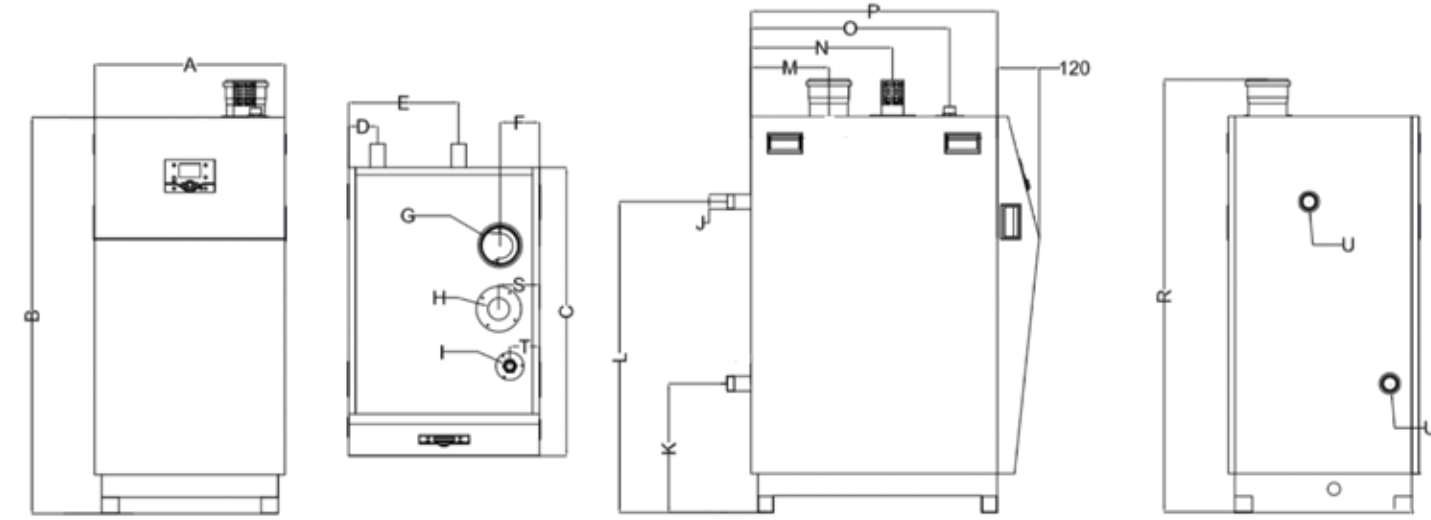
Ongas Floor Type Condensing Boilers offer a wide range of heating options from 69 kW to 850 kW, while aluminium casting exchanger offers a long lasting operation with its stainless steel burner and high-tech automation panel.

Rima Condensing Boilers use energy more efficiently thanks to condensing technology, both reducing the heating costs and protecting our nature by minimizing natural resources with LOW NOx and CO emissions.



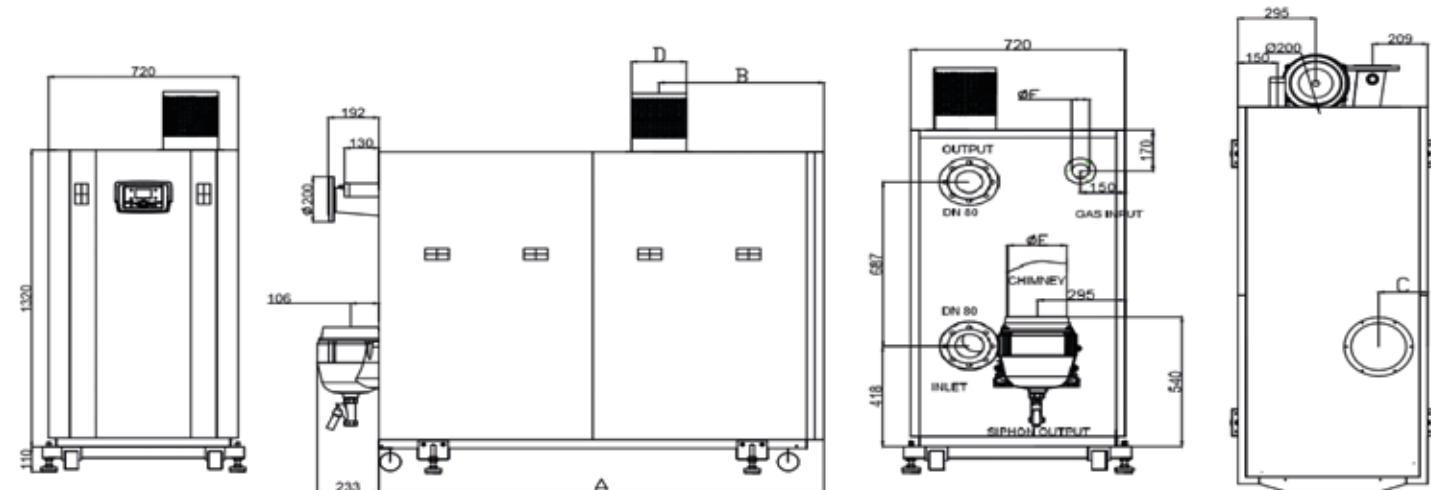
69-190kW

Ongas 300 Floor Type



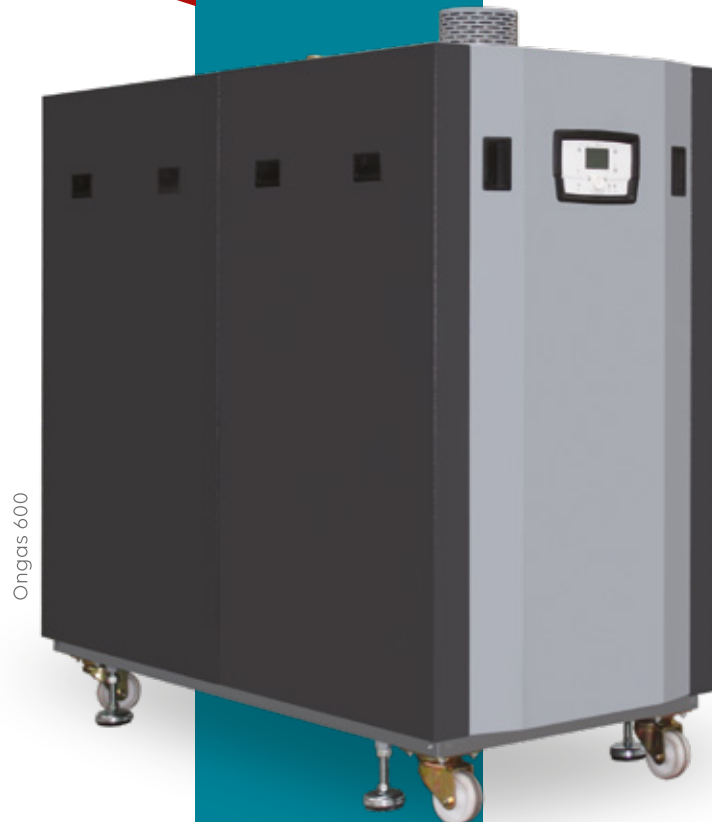
The ergonomic dimensions of Ongas 300 floor standing condensing devices are listed in the table.

ONGAS 300 DIMENSIONS		size mm																
Model	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T
Ongas 300	560	1250	550	84	317	114	Ø80	Ø60	G1"	372	897	178	303	371	510	1355	142	56
Ongas 304	560	1250	550	84	317	114	Ø100	Ø60	G11/4"	372	897	188	315	451	600	1355	108	48
Ongas 305	560	1250	550	84	317	114	Ø110	Ø60	G11/4"	372	897	197	387	552	690	1355	100	62
Ongas 306	560	1250	550	84	317	114	Ø125	Ø75	G11/2"	372	897	221	410	622	780	1355	98	51
Ongas 307	560	1250	600	84	317	140	Ø160	Ø75	G11/4"	372	897	247	462	860	1030	1355	131	337



ONGAS 600P DIMENSIONS		size mm					
Model	A	B	C	D	E	F	
Ongas 600 P	1065	399	80	104	160	G 11/4"	
Ongas 605P	1160	399	80	104	160	G 11/2"	
Ongas 606 P	1410	553	162	123	200	G 2"	
Ongas 607 P	1500	553	162	173	200	G 2"	
Ongas 608 P	1595	553	162	173	200	G 2"	
Ongas 609 P	1692	553	162	173	200	G 2"	
Ongas 610 P	1787	553	162	173	200	G 2"	
Ongas 611 P	1882	553	162	173	200	G 2"	
Ongas 612 P	1977	553	162	173	200	G 2"	

Ongas 600



6 BAR

%109 Efficiency

ERP

Low DB

CAST IRON

Frost Protection

Onmetal

High Heating Capacity: 13600 kW is reached by connecting 16 boilers together with a single control panel in the cascade system.

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



Rima Heating Systems, cast iron industry in Turkey with over 50 years of experience in the Foundry Industry Onmetal 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.



rima

Rima Isı Sistemleri San. A.Ş.
İkitelli OSB Mah. 25. Cad. No:10
Başakşehir 34306, İstanbul

Tel: +90 212 485 48 74
www.rima.com.tr
www.onmetal.com.tr
f@/rimaisistemleri



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www.rima.com.tr

ONGAS 300
ONGAS 600P
FLOOR TYPE CONDENSING BOILER



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



ONGAS 300

Pump Section

ΔT: 15 is recommended for pump selection

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.

Ongas 300

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

Ongas 600 P

Models	Grundfos	Wilo	Pump Diameters
Ongas 604 P	Magna 50-100 F	Yonos Maxo 50/120	DN 50
Ongas 605 P	Magna 50-100 F	Yonos Maxo 50/120	DN 50
Ongas 606 P	Magna 65-100 F	Yonos Maxo 65 /120	DN 65
Ongas 607 P	Magna 65-100 F	Yonos Maxo 65/120	DN 65
Ongas 608 P	Magna 80-100 F	Yonos Maxo 80/120	DN 80
Ongas 609 P	Magna 80-100 F	Yonos Maxo 80/120	DN 80
Ongas 610 P	Magna 80-100 F	Yonos Maxo 80/120	DN 80
Ongas 611 P	Magna 80-100 F	Yonos Maxo 80/120	DN 80
Ongas 612 P	Magna 80-100 F	Yonos Maxo 80/120	DN 80



ONGAS 600 P

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

Model	ONGAS 303	ONGAS 304	ONGAS 304 Plus	ONGAS 305	ONGAS 306	ONGAS 307	
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		

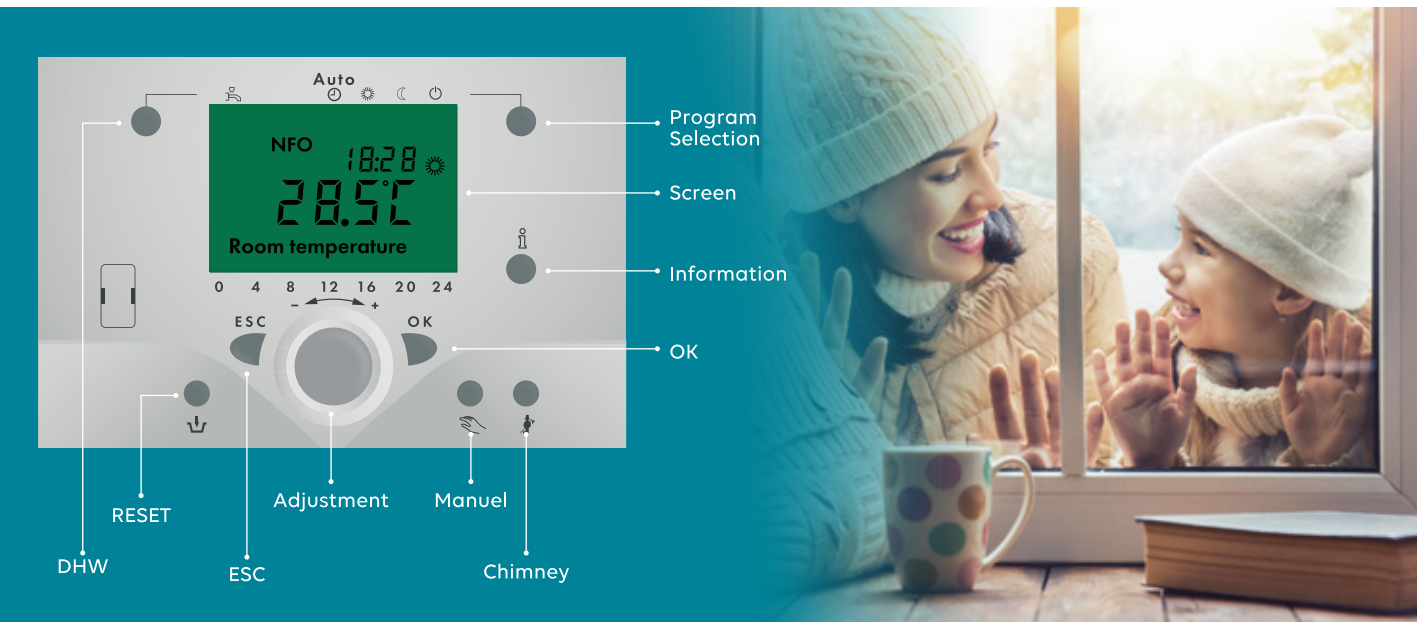
Model	604P	605P	606P	607P	608P	609P	610P	611P	612P
Maksimum Chimney Length (m)	35	38	43	47	53	58	*	*	*

* Get in touch with us.



- 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

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

Technical Table

Ongas 300 Floor Standing Condensing Boiler

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

Ongas 600 P Floor Standing Condensing Boiler

Ongas 600 P		604P	605P	606P	607P	608P	609P	610P	611P	612P	
Max. heat output (80/60°C)	kW	214	285	356	429	498	570	642	713	788	
Min. heat output (80/60°C)	kW	23	31	39	44	55	62	70	84	93	
Max. heat output (50/30°C)	kW	230	305	380	455	530	605	680	760	845	
Min. heat output (50/30°C)	kW	26	35	43	49	61	69	78	93	103	
Efficiency at maximum load (80/60°C)	%	97,3	97,4	97,4	97,2	97,4	97,4	97,4	97,8	97,4	
Efficiency at minimum load (return 30°C)	%	108,8	108,6	108,6	108,5	108,6	108,6	108,6	108,7	108,6	
NOx Class		6									
Max. heating mode setting temperature	°C	80									
Max. domestic water setting temperature	°C	65									
Flue gas pressure at full load	pascal	190	200	230	180	220	250	250	250	250	
water pressure (min – max) (min – max)	bar	1-6									
Water resistance	mbar	210	200	210	230	220	250	250	250	250	
Water inlet		2"		2,5"		DN 80					
Gas inlet		1 1/2"	1 1/2"	1 1/2"	2"						
Power Supply	V/Hz	230/50									
Protection level	IP	X4D									
Power consumption	W	320	390	460	550	700	850				
Flue gas outlet (Ø)	mm	160			200						
Type of appliance		B23, C63								B23	