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How Packman condensing boiler works

The Boiler operation is governed by the desired temperature of hot water outlet. Using a digital, high precision temperature controller, the owner will identify the required hot water temperature. A temperature sensor located in the boiler outlet manifold continuously measures the outlet water temperature. A servomotor controlling the gas valve actuator and the air damper separately. which throttles the air/gas mixture entering the burner. For as long as the set temperature is above that of the outlet water, the boiler operates at maximum output capacity. Analogue output signals from the temperature sensor are sent to the temperature controller, which in turn sends corresponding signals to the actuator. Therefore, the appropriate volume of air/gas mixture flows into the burner, allowing for almost perfect air/gas mass, and volume ratios. As the outlet temperature approaches the set temperature, the air/gas mixture flow is gradually reduced by the servomotor (connected to the gas butterfly valve and the air damper). This results in the corresponding gradual decrease in the unit's capacity. Thus the modulating system allows for optimum continuous operation of the boiler, significantly reducing on/off cycles. The said system offers the user almost infinite modulating capacity within the boiler operating range.

Operation of all products is based on the patented radial pulsed technology. Due to the turbulent mode of heat transfer, turbulent water flow and direct heating of the heat exchanger, the overall heat transfer (thermal) efficiency of the products is in the range of 94.0% - 98.9%, depending on the return water temperature. Packman Rayka Condensing Boilers have been certified as boilers, and water heaters (open cycle heating), as well as for potable water, Water Desalination System swimming pool applications.

In the construction of these boilers, all tests are conducted in accordance with the American National Standard Institute (ANSI). In addition, all parts of the Pressure Parts are in accordance with the American Society of Mechanical Engineers (ASME). All materials used in the heat exchanger are also selected according to the requirements of the American Society of Testing Material (ASTM).



Scan this code To access the Pakman product selection application and select this product.

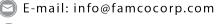


Scan this code to receive a 3D product file.



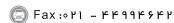
More info about this product.

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Condensing Boiler Material

Packman Boilers are fabricated with 300 series stainless steel (316L) because materials containing nickel and chromium have more solidity than 400 series.

Element	Fractional Size	Metric & Imperial Sizes					
Element	Compositions, wt. %						
Chromium	16.0 to 18.0	17.0 to 19.0					
Nickel	11.0 to 14.0	12.5 to 15.0					
Molybdenum	2.00 to 3.00	2.50 to 3.00					
Manganese	2.00 max	2.00 max					
Silicon	0.75 max	1.00 max					
Carbon	0.035 max	0.030 max					
Sulfur	0.030 max	0.015 max					

Capacity Range

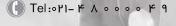
The capacity range of Rayka Packman condensing boilers differs from 400,000 to 10,000,000 kcal/ with working pressure up to 190 bar g. The stainless steel heat exchanger used in the boilers is constructed as a vertical coil based on capacity.

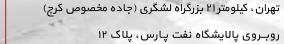
These condensing boilers can directly produce sanitary hot water because of the structure of heat exchanger and the material.

Applications

These boilers are used in schools, commercial and residential buildings, potable water direct heating, water desalination systems, swimming pools and other area which need heating system.





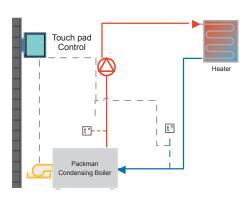




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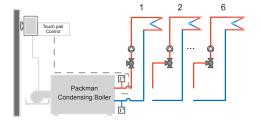
BMS connection

- Remote control ability for heating programing and set points.
- Communicating any type of protocol supported.
- Fault and status report from BMS.
- Air and gas automatic damper control.



Load controling

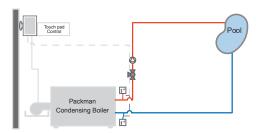
- Capacity range from 16% to 100% of full load.
- Adjustable hot water flow rate.
- Boiler Operation based on return water temperature direct heating.



Direct Heating

- O Direct water heating for pool, domestic hot water and etc.
- 5 centigrade degree water inlet is acceptable.
- 90°C temperature difference.
- Used in water desalination systems.

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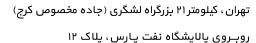


Packman Rayka Condensing Boiler Advantage

- A wide temperature range from 5 to 120°C
- Capacity range from 400,000 to 10,000,000 Kcal/h
- Working Pressure up to 190 bar
- No need to water treatment system for inlet water
- Special design with no fouling formation
- Direct water heating with no auxiliary heat exchanger
- Easy maintenance and commissioning
- Efficiency up to 98% HHV
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- O Special radial pulse burner for lowest amount of contamination
- O Modular burner with capacity range from 20% to 100%
- Capability works with dual fuel burner no need to long chimney (upvc chimney accepted)
- PLC Control panel with capability to connect to the BMS
- Suitable for potable water direct heating, Water Desalination Systems, swimming pools direct heating and etc.

Condensing Boiler Efficiency

Packman's Condensing Boilers have the highest certified efficiency among condensing boilers. This high specific efficiency is the result of the combustion characteristics and the heat transfer process of the device, which leads to the condensation of water vapor. The efficiency values depend on the water temperature. The lower the input water, the greater the amount of condensation, so the higher the yield. Boilers circulate water inside the system, so the boiler water intake is the same water returning from the building, which has a higher temperature than the city's water pipeline. Given the amount of condensation, the presence of this latent heat increases the efficiency by about 11%. For example, the following graph shows the boiler efficiency variations of 500,000 kcal / h with different water temperatures. As the heat transfer equations show, if the input capacity is reduced and the heat transfer surface remains constant, the temperature transfer rate on the unit of heat exchanger will increase. So the efficiency will go up. The chart shows the increase in the amount of efficiency in low-load loads at different water temperatures.

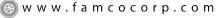
Product Capacity Calculation & Selection:

The hot water boiler selected based on the building type, load of heating, configuration and layout to arrangement boilers.

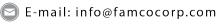
The better way to select the capacity of the boiler is following below steps:

- 1- Calculate the maximum heat load based on your building type
- 2- Adding 20% to maximum load for coefficient of confidence
- 3- Consider the 95% average efficiency for condensing boiler
- 4- Determine the number of boiler you have: for 2 boilers you should normally select one boiler up to 75% full load and for 3 boiler you can select based on 50 % of full load for each boiler

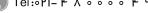
Finally you can select the model from following table.



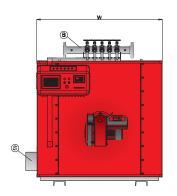
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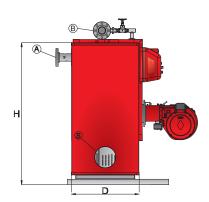






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		400,000	500,000	600,000	700,000	800,000		
Boiler Capacity (Kcal/h)		Boiler Model						
	Unit	PHWB-CO-400	PHWB-CO-500	PHWB-CO-600	PHWB-CO-700	PHWB-CO-800		
HHV Efficiency % @ Full Load	Percent	95	95	95	95	95		
HHV Efficiency % @ P	Percent	98	98	98	98	98		
Type of Fuels	Туре	Gas	Gas	Gas	Gas	Gas		
Gas Consumption at 9,600 Kcal/m³	m³ / hr.	41.6-6.95	52.1-8.7	62.5-10.4	72.9-12.15	83.4-13.9		
Working Pressure (bar) -	bar g.	16	16	16	16	16		
(Maximum Allowable Boiler Working Pressure 190 bar)								
Design Water Temperature (°C)	°C	120	120	120	120	120		
Maximum Differential Temperature (°C)	°C	100	100	100	100	100		
Minimum Inlet Temperature (°C)	°C	5	5	5	5	5		
Electrical Rating (ph./Hz/v)	ph./Hz/v	3/50/380	3/50/380	3/50/380	3/50/380	3/50/380		
Water Content	lit	210	280	330	330	410		
Recommended Water Flow Rate@ΔT=20°F	lit/min	600	755	900	1050	1200		
Gas inlet Pressure	mbar	20-35	70-139	70-139	70-139	70-139		
Boiler Shell Width (W)	mm	1700	1700	1700	1700	1700		
Boiler Shell Depth (D)	mm	800	800	800	800	800		
Boiler Shell Height (H)	mm	1680	1680	1680	1680	1680		
Overall Width (W1)	mm	1700	1700	1700	1700	1700		
Overall Height /Outlet (H1)	mm	1960	1960	1960	1960	1960		
Transport Weight	Kg	820	1040	1160	1160	1380		
Supply & Return Connection (A,B)	in	4	4	5	5	5		
Gas Connection (C)	in	1 1/2	2	2	2	2		
Exhaust Gas Outlet Connection (S)	in	8	10	10	10	12		
Pressure safety valve Connection (G)	in	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4		
Drain Connection	in	3/4	3/4	3/4	3/4	3/4		
Air Vent Connection	in	3/8	3/8	3/8	3/8	3/8		

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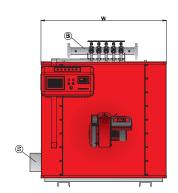
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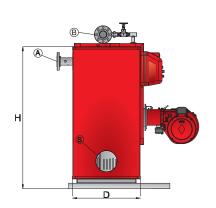
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		1,000,000	1,250,000	1,500,000	1,750,000	2,000,000		
Boiler Capacity (Kcal/h)		Boiler Model						
	Unit	PHWB-CO-1000	PHWB-CO-1250	PHWB-CO-1500	PHWB-CO-1750	PHWB-CO-2000		
HHV Efficiency % @ Full Load	Percent	95	95	95	95	95		
HHV Efficiency % @ P	Percent	98	98	98	98	98		
Type of Fuels	Туре	Gas	Gas	Gas	Gas	Gas		
Gas Consumption at 9,600 Kcal/m³	m³ / hr.	104.2-17.4	130.3-21.8	156.3-26.1	182.3-30.4	208.4-34.8		
Working Pressure (bar) -	bar g.	16	16	16	16	16		
(Maximum Allowable Boiler Working Pressure 190 bar)								
Design Water Temperature (°C)	°C	120	120	120	120	120		
Maximum Differential Temperature (°C)	°C	100	100	100	100	100		
Minimum Inlet Temperature (°C)	°C	5	5	5	5	5		
Electrical Rating (ph./Hz/v)	ph./Hz/v	3/50/380	3/50/380	3/50/380	3/50/380	3/50/380		
Water Content	lit	480	620	740	830	990		
Recommended Water Flow Rate @ΔT=20°F	lit/min	1510	1880	2250	2630	3010		
Gas inlet Pressure	mbar	70-139	70-139	70-139	70-139	70-139		
Boiler Shell Width (W)	mm	1700	1700	1700	2320	2320		
Boiler Shell Depth (D)	mm	1150	1150	1150	1300	1300		
Boiler Shell Height (H)	mm	1680	1680	1680	1800	1900		
Overall Width (W1)	mm	1700	1700	1700	2320	2320		
Overall Height /Outlet (H1)	mm	2100	2100	2100	2100	2200		
Transport Weight	Kg	1590	1970	2280	2550	2960		
Supply & Return Connection (A,B)	in	5	6	6	6	8		
Gas Connection (C)	in	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2		
Exhaust Gas Outlet Connection (S)	in	14	14	16	16	16		
Pressure safety valve Connection (G)	in	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2		
Drain Connection	in	3/4	3/4	3/4	3/4	1		
Air Vent Connection	in	3/8	3/8	3/8	3/8	3/8		

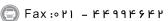
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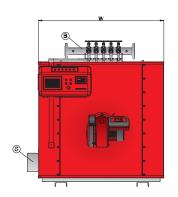


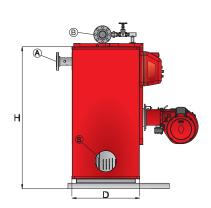
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IHV Efficiency % @ P Perd ype of Fuels Ty as Consumption at 9,600 Kcal/m³ m³ /orking Pressure (bar) - bar /aximum Allowable Boiler Working Pressure 190 bar) esign Water Temperature (°C) °C					3,000,000	4,000,000	
HIV Efficiency % @ Full Load Perd Perd Perd Perd Perd Perd Perd Per		Boiler Model					
IHV Efficiency % @ P Perd ype of Fuels Ty as Consumption at 9,600 Kcal/m³ m³ /orking Pressure (bar) - bar /aximum Allowable Boiler Working Pressure 190 bar) esign Water Temperature (°C) °C	nit	PHWB-CO-2250	PHWB-CO-2500	PHWB-CO-2750	PHWB-CO-3000	PHWB-CO-4000	
ype of Fuels as Consumption at 9,600 Kcal/m³ yorking Pressure (bar) - bat faximum Allowable Boiler Working Pressure 190 bar) esign Water Temperature (°C)	cent	95	95	95	95	95	
as Consumption at 9,600 Kcal/m³ m³ A/orking Pressure (bar) - ball daximum Allowable Boiler Working Pressure 190 bar) esign Water Temperature (°C) °C	cent	98	98	98	98	98	
forking Pressure (bar) - bar faximum Allowable Boiler Working Pressure 190 bar) esign Water Temperature (°C)	ре	Gas	Gas	Gas	Gas	Gas	
faximum Allowable Boiler Working Pressure 190 bar) esign Water Temperature (°C)	hr.	234.4-39.1	260.4-43.4	286.5-47.8	312.5-52.1	416.7-69.5	
esign Water Temperature (°C)	g.	16	16	16	16	16	
0 1 ()							
aximum Differential Temperature (°C)	С	120	120	120	120	120	
aminam 2 more man remperature (°)	С	100	100	100	100	100	
inimum Inlet Temperature (°C)	С	5	5	5	5	5	
lectrical Rating (ph./Hz/v) ph./l	Hz/v	3/50/380	3/50/380	3/50/380	3/50/380	3/50/380	
/ater Content	it	1090	1240	1340	1470	2013	
ecommended Water Flow Rate @ΔT=20°F lit/r	nin	3380	3760	4135	4510	6010	
as inlet Pressure mb	oar	70-139	70-139	70-139	70-139	70-139	
oiler Shell Width (W) m	m	2500	2500	2510	2510	2870	
oiler Shell Depth (D) m	m	1530	1530	1600	1600	1700	
oiler Shell Height (H) m	m	2350	2350	2560	2560	2870	
verall Width (W1) m	m	2500	2500	2500	2500	2500	
verall Height /Outlet (H1) m	m	2800	2800	2800	2800	3000	
ransport Weight K	g	3220	3640	3920	4230	5700	
upply & Return Connection (A,B)	n	8	8	8	8	10	
as Connection (C)	n	3	3	3	3	3	
xhaust Gas Outlet Connection (S)	n	16	20	20	20	24	
ressure safety valve Connection (G)	n	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
rain Connection ii	n	1	1	1	1	1	
ir Vent Connection in	า	3/8	3/8	3/8	3/8	3/8	

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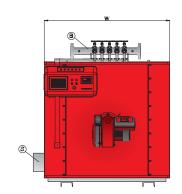
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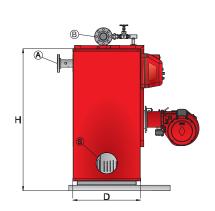
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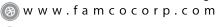
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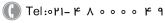
		5,000,000	6,000,000	7,000,000	8,000,000	10,000,000	
Boiler Capacity (Kcal/h)		Boiler Model					
	Unit	PHWB-CO-5000	PHWB-CO-6000	PHWB-CO-7000	PHWB-CO-8000	PHWB-CO-10000	
HHV Efficiency % @ Full Load	Percent	97	97	97	97	97	
HHV Efficiency % @ P	Percent	98.9	98.9	98.9	98.9	98.9	
Type of Fuels	Туре	Gas	Gas	Gas	Gas	Gas	
Gas Consumption at 9,600 Kcal/m³	m³ / hr.	520.83-89.8	625-104.16	729.166-121.5	833.3-138.8	1041.6-173.6	
Working Pressure (bar) -	bar g.	16	16	16	16	16	
(Maximum Allowable Boiler Working Pressure 190 bar)							
Design Water Temperature (°C)	°C	120	120	120	120	120	
Maximum Differential Temperature (°C)	°C	100	100	100	100	100	
Minimum Inlet Temperature (°C)	°C	5	5	5	5	5	
Electrical Rating (ph./Hz/v)	ph./Hz/v	3/50/380	3/50/380	3/50/380	3/50/380	3/50/380	
Water Content	lit	2500	3100	3500	4100	5000	
Recommended Water Flow Rate @ΔT=20°F	lit/min	7511	9013	10515	12017	15022	
Gas inlet Pressure	mbar	70-139	70-139	70-139	70-139	70-139	
Boiler Shell Width (W)	mm	3000	3100	3200	3300	3400	
Boiler Shell Depth (D)	mm	1800	2000	2000	2500	3000	
Boiler Shell Height (H)	mm	3000	3100	3200	3300	3400	
Overall Width (W1)	mm	3000	3100	3200	3300	3400	
Overall Height /Outlet (H1)	mm	3400	3500	3600	3700	3800	
Transport Weight	Kg	6000	6800	7200	8000	9900	
Supply & Return Connection (A,B)	in	10	10	12	12	12	
Gas Connection (C)	in	3	3	3	3	3	
Exhaust Gas Outlet Connection (S)	in	36	38	40	40	44	
Pressure safety valve Connection (G)	in	3	3	3	3	4	
Drain Connection	in	2	2	2	2	2	
Air Vent Connection	in	1	1	1	1	1	

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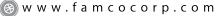
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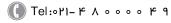








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Min Load Partial Load

OPTIMA Series

The boiler optima series and water heaters are that of the packman common ones which meets the market demand for hot water solutions with less installation and lifecycle costs while providing the best uptime reliability. Because of high efficiency, the optima series operation covers a wide range of facilities as bellow:

- Multi-family/Apartments
- Education
- Hotels
- Medical Centers/Nursing Homes
- Office Buildings

Key Features:

- Available in five capacities from 100 to 350 kW
- o Efficiencies of up to 98%
- Advanced modulation technology
- Natural gas fuel
- Turndown ratio up to 5:1
- O Whisper-quiet operation, even at full fire
- Small footprint
- chain multiple units for applications over 300 kW
- Direct/conventional vent with CPVC, Polypropylene or AL29-4C materials

The high performance with a compact and flexible design of the optima series results in a perfect use for hot water solution systems requiring 100 to 300 kw and above. Instant installation and cost effective accessories eliminate the need of special rigging or changing the system to adopt for a custom mechanical rooms makes the optima series well suited for retrofits.

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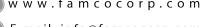
In conclusion the main advantages of optima series are easy installation, having high efficiency which saves the space needed and reduces energy consumption to cause a significant short and long term saving for all kind of buildings, and lowers energy use to create significant short- and longterm savings for all kind of buildings.







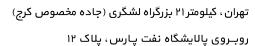
Return Water Tempo C



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The modular design of optima series results in a proper installation operation and reliability which makes it to be competitive with other boiler and water heater classes. Designing a hydronic system with an OPTIMA Series unit delivers advantages such as:

Lower Costs:

Installation, operating, and lifetime costs are all reduced due to the modular design that maximizes efficiency and operation.

Higher Uptime Reliability:

The modular design also creates a level of redundancy and reliability from a single OPTIMA Series boiler or water heater that is typically only found in multi-unit systems.

Installation Flexibility:

A wide variety of venting options allows the OPTIMA Series to be easily integrated into any system, whether it is a retrofit or a new construction.

Space Savings:

Its compact footprint allows the OPTIMA Series to be installed in small mechanical rooms.

Easy Access:

Simple side accessibility makes it more efficient for technicians to conduct scheduled service and maintenance on the units, which in turn saves time and reduces labor costs.

Maintaining the PACKMAN heritage, the OPTIMA Series delivers high operating efficiency up to 98%. By achieving the highest possible seasonal efficiencies, the OPTIMA Series creates short-term and lifecycle energy savings. Best-in-class performance is achieved by using superior design approach that incorporates:

High-quality materials:

At the heart of the boiler is a unique heat exchanger designed with oval-section stainless steel tubes. The heat exchanger is constructed out of 316L stainless steel tubes for high reliability and long life.

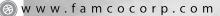
Advanced Modulation and Condensing Technologies:

The OPTIMA Series continues the decades-long trademark of PACKMAN solutions features fully modulating and condensing technologies. High modulation means the OPTIMA Series matches the exact load needed, minimize cycling, eliminate over-firing, and achieve tight temperature control.

Premix Burner:

The OPTIMA Series contain a total premix combustion unit, with variable-speed fan. The burner occupies a very little vertical space, allowing the entire length of the heat exchanger to be exploited and bringing obvious benefits regarding condensation and stratification in the boiler.

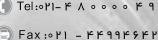
High Level Design: PACKMAN condensing boilers are designed using high level techniques such as computational fluid dynamics (CFD) for high thermal efficiency and finite element (FE) analysis to ensure long life.



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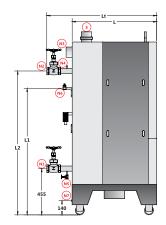
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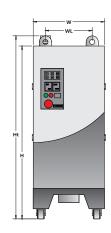
Product Capacity Calculation & Selection:

The hot water boiler selected based on type of building, load of heating, configuration and layout to arrangement boilers.

The better way to select the capacity of the boiler is the following steps:

- 1- Calculate the maximum heat load based on your building type.
- 2- Adding 20% to maximum load for coefficient of confidence.
- 3- Consider the 95% average efficiency for condensing boiler.
- 4- Determine the number of boiler you have: for 2 boiler you should normally select one boiler up to 75% full load and for 3 boiler you can select based on 50 % of full load for each boiler.
- 5- Finally you can select the model from the following table.





Element		Boiler Model				
	Unit	OPTIMA 100	OPTIMA 150	OPTIMA 200	OPTIMA 250	OPTIMA 300
L	mm	830	900	1000	1060	1110
Lt	mm	1080	1150	1270	1350	1400
W	mm	700	770	820	880	930
WL	mm	480	550	600	660	695
Н	mm	1700	1750	1875	1875	2000
Ht	mm	1800	1850	1975	1975	2100
L1	mm	1245	1295	1320	1320	1445
L2	mm	1415	1465	1540	1530	1655
Water content	Liter	165	210	250	300	350
Weight(dry)	Kg	475	560	670	760	850
Weight(Wet)	Kg	640	770	920	1060	1200

• The measures and weights might be different from final product by less than 10%



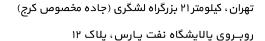
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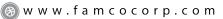
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Item			Boiler Model				
		Unit	OPTIMA 100	OPTIMA 150	OPTIMA 200	OPTIMA 250	OPTIMA 300
Min heat input		KW	0	30	40	50	60
Man heat input		KW	100	150	200	250	300
Min gas consumption	ı	m3/hr	1.86	2.79	3.72	4.65	5.58
Max gas consumption	า	m3/hr	9.3	13.95	18.6	23.25	27.9
Efficiency	30/50	%	97	97	97	97	97
Liliciency	60/80	%	86	86	86	86	86
Gas Connection		inch	3/4	3/4	1	1	1
Min gas pressure		mbar			18		
Max gas pressure		mbar	6	60		100	
Max working pressure	е	bar			6		
Water temp. range		оС			40-85		
Electric supply				22	20 VAC/ 50Hz/ 1 P	'h	
Max condensate		Lit/hr	11.2	16.8	22.4	28.0	33.6
Min water flow		Lit/s	1.5	2.25	3.0	3.75	4.5
Max water flow		Lit/s	5	7.5	10	12.5	15
Inlet/outlet connection	s	inch	2	2	2 1/12	3	3
Vent/Air intake		inch	4	4	6	6	6
Vent material		cm		С	PVC / PP/ AL29-4	С	
Condensate discharg	е	inch	1/2	1/2	1/2	1/2	1/2
Condensate PH		-			4-4.5		
Drain valve		inch	1/2	1/2	3/4	3/4	3/4
Safety valve		inch	1/2	1/2	3/4	3/4	3/4

● The measures and weights might be different from final product by less than 10%







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