

VARMAX

GROUND TYPE CONDENSING BOILERS

Premix Burner, Gas Fired Stainless Steel Condensing Hot Water Boiler



8 models ranging from 120 kW to 450 kW

- * 6 bar operating pressure
- * 109,1 % efficiency
- * Heat exchanger and condenser is made of stainless steel material
- * Premix burner operating with natural gas or LPG with modulation rates between 20% and 100%
- * Optimax: more efficient and economic with 2, 3 and 4 connection outlet options
- * Class 5 NOx class (< 30 mg/kWh)
- * Warning lights enabling remote communication with Turkish NAVISTEM B3000 control panel
- * Can be connected with up to 16 boilers as cascade
- * Compliant with ErP regulation
- * Standard parts include chimney flap, fresh air filter, carrying strap, internal lighting and flue gas temperature sensor
- * Optionally; automation sensors, room thermostats, control over internet module, NaviPass unit to directly communicate with building automation via modBUS language, neutralization kit, magnetic filter and chimney connection kits
- * Suitable for B23, B23p, C13, C33 and C53 chimney types

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Premix Burner, Gas Fueled Stainless Steel Condensing Hot Water Boiler



Technical Specifications	Unit	120	140	180	225	275	320	390	450
Effective nominal power (Pn) at 80/60 °C	kW	117	136	175	219	268	312	381	439
Effective nominal power at 50/30 °C	kW	127	148	191	238	290	338	415	478
Intermediate Power at 30% Load	kW	39	46	59	74	89	104	127	147
Effective certified productivity on PCI at 100% load (80/60°)	%	97.7	97.7	97.6	97.6	97.9	97.9	97.8	97.8
Effective certified productivity on PCI at 30% load (30 °C return)	%	108.8	108.8	109.1	109.1	108	108	108.9	108.9
Power consumption of auxiliary equipment at Pn	W	204	311	179	320	238	352	480	660
Power consumption of auxiliary equipment at no load	W	5	5	5	5	5	5	5	5
Stoppage loss (T = 30 K)	W	182	182	213	213	259	259	311	311
Minimum operating temperature	°C	22	22	24	24	20	20	23	23
Maximum operating temperature	°C	85							
Flue gas temperature (80/60°)	°C	60,8	62,1	61,0	62,3	61,7	63,4	62,5	64,8
Flue gas temperature (50/30°)	°C	56,9	57,3	56,6	57,7	58,3	57,2	57,4	57,1
Flue gas temperature (80/60°)	°C	35,7	37,7	33,7	36,9	36,9	36,2	36,7	41,7
Flue gas temperature (50/30°)	°C	28,8	30,2	30,0	30,2	29,8	28,3	30,0	30,2
NOx emissions (according to EN 656 and EN 13836)	mg/kWh	30 (Class 5)			40 (Class 5)			35 (Class 5)	
Load losses at P/20 flow rate (exchanger + condenser)	daPa	600	750	570	810	820	11185	7701	970
Load losses at P/20 flow rate (main exchanger)	daPa	500	650	440	660	790	1060	660	840
Load losses at P/20 flow rate (condenser)	daPa	110	120	55	75	50	65	190	230
Operating Pressure	bar	6							
Water Volume	L	116	116	151	151	239	239	287	287
Net weight (excl. package and smoke kit)	kg	340		393		502		592	

Models		120	140	180	225	275	320	390	450
A	(mm)	734	734	812	812	912	912	912	912
B	(mm)	1530	1780	1877	1877	2023	2023	2023	2023
C	(mm)	1189	1218	1341	1341	1392	1392	1392	1392
D	(mm)	148	169	169	169	168	168	168	168
E	(mm)	103	150	109	109	92	92	92	92
F	(mm)	510	630	680	680	750	750	750	750
G	(mm)	138,5	138,5	138,5	138,5	138,5	138,5	138,5	138,5
Ø T smoke outlet		150	150	180	180	200	200	200	200
Ø U discharge connection outlet		1"	1"	1"	1"	1"	1"	1"	1"
Ø AA safety valve and closed expansion connection outlet		1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

