



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

VARMAX 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	35,7	37,7	33,7	36,9	36,9	36,2	36,7	41,7
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	912				
B	(mm)	1530	1780	1877	2023				
C	(mm)	1189	1218	1341	1392				
D	(mm)	148	169	169	168				
E	(mm)	103	150	109	92				
F	(mm)	510	630	680	750				
G	(mm)	138,5	138,5	138,5	138,5				
Ø T smoke outlet		150	150	180	200				
Ø U discharge connection outlet		1"	1"	1"	1"				
Ø AA safety valve and closed expansion connection outlet		1"	1"	1" 1/4	1" 1/4				

