Önmetal

ONGAS 300 SERİSİ TEKNİK TABLOSU / *ONGAS 300 SERIES TECHNICAL TABLE*

ONGAS 300 Serisi Kazan Modeli / *ONGAS 300 Series Boiler Model*		**ONGAS 303**	**ONGAS 304**	**ONGAS 304 P**	**ONGAS 305**	**ONGAS 306**	**ONGAS 307**
Efficiency and performance							
Max. heat input in CH mode	kW	65	95	110	119	148	180
Min. heat input in CH mode	kW	15	20	20	19	34	38
Max. heat output in CH mode (80/60°C)	kW	62	90	109	115	142	171
Min. heat output in CH mode (80/60°C)	kW	14	19	19	18	33	37
Max. heat output in CH mode (50/30°C)	kW	69	100	115	124	154	187
Min. heat output in CH mode (50/30°C)	kW	16	22	22	21	37	41
Efficiency at Pmax (80/60°C)	%	96,2	94,7	97,5	96,4	96	95,1
Efficiency at Pmin (80/60°C)	%	93,7	94,8	94,8	94,8	96,2	96,4
Efficiency at Pmax (50/30°C)	%	106,4	105,2	104,5	104,3	103,8	103,7
Efficiency at Pmin (50/30°C)	%	107,1	108,3	108,3	108	109,4	109,5
Efficiency at 30% (30°C)	%	105,8	105,3	108,4	105,7	106,2	106,6
Gas consumption (max) (G20)	m^3/h	6,9	9,3	11,2	11,9	14,9	18,9
Gas consumption (min) (G20)	m^3/h	1,5	2,1	2,1	2,0	3,4	3,9
NOx class		6					
Max. central heating temperature	°C	80					
Max. domestic hot water temperature	°C	65					
Max. heat exchanger ΔT	°C	25					
Safety limit temperature	°C	105					
Limit temperature for flue thermostat	°C	75					
Max. stack pressure at Pmax	pascal	230	230	260	180	210	190
Operating pressure (min – max)	bar	1,0 – 6,0					
Water resistance at ΔT (10/20°C)	mbar	300/125	220/110	360/160	360/160	275/160	300/150
Sound level (1 mt distance from boiler)	dB	35	41	44	48	52	55
Water and gas fittings							
Water inlet (return) & outlet (flow)	Ø	1”	1 ¼”			1 ½”	
Gas inlet	Ø	1”					1 ¼”
Flue gas outlet (Ø)	mm	80	100	100	110	125	160
Combustion							
Type of appliance		B23, C63, C13, C33	B23, C63				
Combustion efficiency at Pmax	%	98,2	98,2	98,3	98,3	98,2	98,1
Combustion efficiency at Pmin	%	98,4	98,4	98,4	98,5	98,4	98,4
Flue gas temperture at Pmax (80/60°C)	°C	59,3	60,8	62,3	59,9	59,7	61,4
Flue gas temperture at Pmin (80/60°C)	°C	58,7	56,4	56,3	55,3	57,3	56,3
Flue gas temperture at Pmax (50/30°C)	°C	41,8	39,4	42,4	40,4	42,1	42,6
Flue gas temperture at Pmin (50/30°C)	°C	30,8	30,5	31,5	29,9	31,6	30,9
Flue gas temperature in DHW mode (average)	°C						
Flue gas flow-rate at Pmax	g/s	29,5	38,4	41,7	48,7	62,6	77
Flue gas flow-rate at Pmin	g/s	9,6	11,8	13,4	14,6	19,7	24,5
CO_2 at Pmax	%	9,2	9,6	9,3	9,3	9,4	9,7
CO_2 at Pmin	%	9	9,1	9,1	9,1	9,1	9,2
CO O_2=0% at Pmax	ppm	124	142	171	116	96	140
CO O_2=0% at Pmin	ppm	18	16	15	10	28	18
CO O_2=0% weighted	ppm	74	76	63	62	50	98
NOx at Pmax	mg/kWh	38,14	39,11	42,75	51,6	37,33	59,58
NOx at Pmin	mg/kWh	16,05	15,88	13,54	11,34	9,07	8,97
NOx weighted	mg/kWh	22,39	25,64	24,73	23,95	18,13	31,43
Electrical specifications							
Power supply voltage	V/Hz	~230V / 50Hz					
Protection level	IP	IPX4D					
Power consumption	W	190	190	190	190	310	320