

ONGAS 300 Series Boiler Model		303	304	304 Plus	305	306	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	96,0	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	108,0	109,4	109,5
Efficiency at 30% (30°C)	%	105,8	105,3	108,4	105,7	106,2	106,6
NOx class		5					
Max. central heating temperature	°C	80					
Max. domestic hot water temperature	°C	65					
Max. heat exchanger ΔT	°C	26					
Max. stack pressure at Pmax	pascal	230	230	260	180	210	190
Operating pressure (min – max)	bar	0,8 – 6,0					
Water resistance at ΔT (10/20°C)	mbar	300/125	220/110	360/160	360/160	275/160	300/150
Structural characteristics							
Water Contents	litres	6,5	8,5	8,5	10,5	12,5	14,5
Net weight (wall)	kg	65	82	88	103	130	167
Net weight (floor)	kg	107	133	142	164	196	226
Electrical specifications							
Power supply voltage	V/Hz	230/50					
Protection level	IP	IPX4D					
Power consumption	W	160	160	190	190	310	320
Water and gas fittings							
Central heating return inlet	Ø	1”	1 ¼”			1 ½”	
Gas inlet	Ø	¾”					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 temperature at Pmax (80/60°C)	°C	59,3	60,8	62,3	59,9	59,7	61,4
Flue gas temperature at Pmin (80/60°C)	°C	58,7	56,4	56,3	55,3	57,3	56,3
Flue gas temperature at Pmax (50/30°C)	°C	41,8	39,4	42,4	40,4	42,1	42,6
Flue gas temperature at Pmin (50/30°C)	°C	30,8	30,5	31,5	29,9	31,6	30,9
Flue gas flow-rate at Pmax	g/sec	29,5	38,4	41,7	48,7	62,6	77,0
Flue gas flow-rate at Pmin	g/sec	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	%	9,0	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