

## AGUADENS 180T, 210T and 280T Technical data

MODEL AGUADENS		180T	210T	280T	
Type (Type of fumes exhaust/air intake)			B23;C43;C53;C63;C83		
Category		II2H3P		II2H3P	
CE type certificate (PIN)			0694CP2296		
Certificate Range Rated			APPROVED		
Domestic hot water max. heat input	kW	173,4	210,0	280,0	
Domestic hot water minimum heat input	kW	14,7	14,7	14,7	
Efficiency at maximum output heat	%	104	104	104	
Gas flow rate	Nat GAS	m <sup>3</sup> /h	18,30	22,20	29,61
	LP GAS	kg/h	13,50	16,30	21,73
Gas supply pressure	Nat GAS	mbar	20	20	20
	LP GAS	mbar	37	37	37
Gas supply minimum pressure	Nat GAS	mbar	15	15	15
	LP GAS	mbar	25	25	25
Gas supply maximum pressure	Nat GAS	mbar	30	30	30
	LP GAS	mbar	45	45	45
Combustion agent air pressure	Nat GAS	mbar	N.A.	N.A.	N.A.
	LP GAS	mbar	N.A.	N.A.	N.A.
Primary heat exchanger water content	lt	22,70	22,71	30,28	
Weight of the primary heat exchanger	kg	18,2x3	18,2x3	18,2x4	
Domestic hot water useful heat output	kW	180,3	218,4	291,2	
D.H.W. minimum flow rate with motorized valves	l/min	900	900	900	
D.H.W. minimum flow rate without motorized valves	l/min	2700	2700	2700	
Instantaneous D.H.W. production (dt 30°C)	l/min	86,0	104,3	139,1	
Instantaneous D.H.W. adjustment range	°C	20-80	20-80	20-80	
D.H.W. with Indirect Water Heater adjustment range	°C	40-60	40-60	40-60	
Design temperature	°C	95	95	95	
D.H.W. circuit maximum pressure	bar	11	11	11	
D.H.W. minimum pressure	bar	1	1	1	
Expansion tank pre-load pressure	bar	N.A.	N.A.	N.A.	
Expansion tank capacity	lt	N.A.	N.A.	N.A.	
Rated power supply voltage	V	230	230	230	
Rated power supply frequency	Hz	50	50	50	
Absorbed electric power	W	430	430	590	
Electric protection rating		IP20	IP20	IP20	
Fumes pipe diameter (split)	mm	160	160	160	
Fumes pipe max. length (split)	m	20	20	20	
Equivalent length of a bend	m	4	4	4	
Weighted CO (0% O2 with natural gas)	ppm	15	15	15	
Weighted NOx (0% O2 with natural gas) (class 5 EN 483 and 297)	ppm	15	15	15	
CO2 (%) at natural gas minimum/maximum power	Nat GAS	%	8,5/9,0	8,5/9,0	8,5/9,0
CO2 (%) at LP gas minimum/maximum power	LP GAS	%	9,8/10,2	9,8/10,2	9,8/10,2
O2 (%) at natural gas minimum/maximum power	Nat GAS	%	5,8/4,9	5,8/4,9	5,8/4,9
O2 (%) at LP gas minimum/maximum power	LP GAS	%	6,0/5,4	6,0/5,4	6,0/5,4
Maximum recirculation of fumes allowed in the event of wind	%	10	10	10	
Fumes maximum temperature at boiler outlet	°C	90	90	90	
Fumes minimum temperature at boiler outlet	°C	30	30	30	
Mass flow of the fumes	kg/h	284	345	460	
Mass flow of the fumes at minimum power	kg/h	25,4	25,4	25,4	
Available head at exhaust	Pa	110	110	110	
Maximum temperature of the combustion agent air	°C	40	40	40	
Maximum CO2 content in the combustion agent air	%	0,9	0,9	0,9	
Fumes maximum temperature for overheating	°C	92	92	92	
Max. negative pressure allowed in the fumes exhaust/intake system	Pa	100	100	100	
Condensate maximum flow rate	l/h	21,5	26,1	34,8	
Condensate average acidity	PH	4	4	4	
Operating environment temperature	°C	0 ; +50	0 ; +50	0 ; +50	
Weight of the boiler	kg	211	211	249	