



# Arizona 150 – 3500kW

High output, pressurised steel boilers  
for use with forced draft air burners



- > Steel fire tube
- > High output
- > Forced draft
- > European quality



**AutomaticHeating**  
efficiency  performance  solutions



# Boilers and Water Heaters



## PRODUCT QUICK CHECK

**Product:** Arizona Boiler

**Type:** Steel Fire Tube

**Range:** 150 – 3500kW

**Efficiency:** 83%

**Outdoor option:** Yes

**Modulation:** up to 1:4

**Cascade able:** Yes

**Max Pressure:** 500 kPa

**Building J Code compliant:** Yes

## Arizona Steel Boilers

150 – 3,500kW

***Arizona is a range of pressurised steel boilers suitable for use with forced draft air burners running on diesel, oil or gas.***

### Three Pass Performance

The Arizona is a high output boiler made entirely of carbon steel to allow it to operate at different powers within a set range. Arizona is a scotch marine boiler featuring three combustion gas passes. The cylindrical combustion chamber has a wet back, which improves heat exchange between the combustion gases and the water. The front door is lined with specially shaped firebrick to make it easier for the combustion gas to enter the tubes. The combustion gas passes through the tubes at very high speed and turbulence, and into the rear smoke chamber. The turbulence is accentuated by specially designed turbofans that help increase heat exchange.

### Expansion

The firebox of the Arizona boiler is designed to expand to increase the elasticity of the entire structure and enable it to withstand stress better.

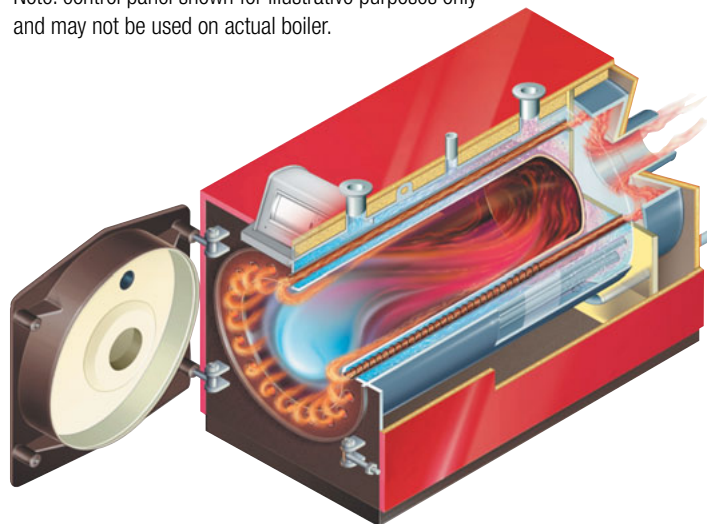
### Anti Condensation

An exclusive system has been implemented to prevent the formation of condensation. The smoke tubes and turbo fans are specially designed to guarantee a high and rapid heat exchange for the combustible gases. The shape of the rear section of the smoke tubes protects the welds by raising the temperature in the area as far as possible.

### Uniform Temperature Distribution

The internal panelling has been designed to allow the water inside the boiler to be distributed optimally and evenly, depending on the temperature. This ensures maximum safety and reduces scale deposits which reduce the surface area and make the boiler less efficient.

Note: control panel shown for illustrative purposes only and may not be used on actual boiler.





## PERFORMANCE DATA

Model	Thermal Output kW	Thermal Input kW	Min. Heat Input kW	Pressure Drop Water ( $\Delta T$ 15°C) mbar	Nominal Pressure kPa	Test Pressure kPa	Combustion Press. Drop mbar	Total Water Volume l	Combustion Chamber Volume m3	Dry Weight Kg	Burner	Back Pressure mbar
150	150	163	82.3	14	500	750	1.2	172	0.135	346	GS200	1.2
200	200	218	109.5	15	500	750	1.9	172	0.135	346	GS280	1.9
250	250	272	138.3	15	500	750	2.0	220	0.162	431	GS350	2.0
300	300	325	165.5	16	500	750	2.0	300	0.209	475	GS400	2.0
350	350	380	193.1	18	500	750	2.9	356	0.256	542	GS550	2.9
400	400	433	220.2	20	500	750	4.1	360	0.307	584	GS550	4.1
500	500	542	275.6	22	500	750	4.2	540	0.412	853	GS60	4.2
620	620	672	341.9	27	500	750	6.4	645	0.515	963	GS65	6.4
750	750	813	413.9	25	500	750	5.2	855	0.593	1205	GS72	5.2
850	850	921	468.4	27	500	750	7.2	855	0.593	1205	GS72	7.2
950	950	1030	523.7	32	500	750	5.2	950	0.679	1417	GS72	5.2
1020	1020	1106	562.6	26	500	750	4.0	1200	0.897	1843	GS72	4.0
1200	1200	1301	661.7	30	500	750	5.5	1200	0.897	1843	GS73A-1	5.5
1300	1300	1409	717.4	32	500	750	6.5	1200	0.897	1843	GS73A-1	6.5
1400	1400	1517	774.7	28	500	750	6.5	1500	1.163	2600	GS73A-1	6.0
1600	1600	1733	884.9	32	500	750	6.5	1500	1.163	2600	GS73A-1	6.5
1800	1800	1950	994.5	37	500	750	7.0	1650	1.275	2750	GS91A	7.0
2000	2000	2167	1107.4	35	500	750	6.0	2000	1.454	3650	GS93A	6.0
2400	2400	2600	1324.5	40	500	750	7.5	2300	1.606	3900	GS93A	7.5
3000	3000	3250	1656.5	49	500	750	8.0	3150	2.337	5200	GS512A	8.0
3500	3500	3792	1940.1	60	500	750	9.0	3650	2.724	5700	GS512A	9.0

Nominal working pressure 500 kPa. Higher pressures available on request.

Outdoor "crane-liftable" versions available in all sizes.



# Arizona

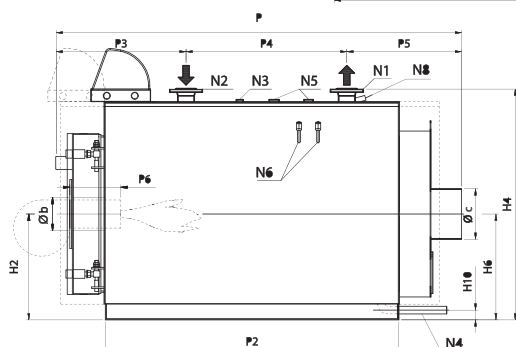
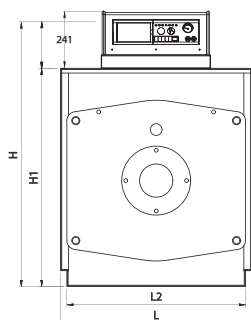
## DIMENSIONAL DATA

Model	H	H1	H2	H4	H6	Dimensions (mm)								Øb	Øc	Ports				
						H10	L	L2	P	P2	P3	P4	P5			P6	N1	N2	N4	N5
150	1080	905	440	961	440	54.5	800	750	1364	1000	513	475	452	200-250	160	250	50	50	1	-
200	1080	905	440	961	440	54.5	800	750	1364	1000	513	475	452	200-250	160	250	50	50	1	-
250	1080	905	440	961	440	54.5	800	750	1614	1250	513	725	376	200-250	160	250	50	50	1	-
300	1180	1005	490	1061	490	54.5	900	850	1614	1295	523	700	467	200-250	180	250	65	65	1	-
350	1180	1005	490	1061	490	54.5	900	850	1864	1500	523	980	437	200-250	180	250	65	65	1	-
400	1190	1015	500	1095	500	50	940	890	1872	1502	600	850	422	230-280	225	250	80	80	1	1-1/4
500	1380	1205	610	1285	610	60	1160	1110	1946	1502	663	850	437	270-320	225	300	80	80	1-1/4	1-1/4
620	1380	1205	610	1285	610	60	1160	1110	2235	1792	663	1150	427	270-320	225	300	80	80	1-1/4	1-1/4
750	1510	1335	675	1417	675	60	1290	1240	2247	1753	704	1100	451	270-320	280	350	100	100	1-1/4	1-1/2
850	1510	1335	675	1417	675	60	1290	1240	2247	1753	704	1100	451	270-320	280	350	100	100	1-1/4	1-1/2
950	1510	1335	675	1417	675	60	1290	1240	2497	2003	704	1200	596	270-320	280	350	100	100	1-1/4	1-1/2
1020	1660	1485	750	1568	750	60	1440	1390	2477	2003	704	1200	596	270-320	280	400	125	125	1-1/4	1-1/2
1200	1660	1485	750	1568	750	60	1440	1390	2477	2003	704	1200	596	270-320	280	400	125	125	1-1/4	1-1/2
1300	1660	1485	750	1568	750	60	1440	1390	2477	2003	704	1200	596	270-320	280	400	125	125	1-1/4	1-1/2
Model	H	H1	H2		H6	H10	L	L2	P	P2	P3	P4	P5	P6	Øb	Øc	N1	N2	N4	N5
1400	1746	1630	880		880	150	1470	1270	2886	2300	831	1300	755	350-400	320	400	150	150	1-1/4	1-1/2
1600	1746	1630	880		880	150	1470	1270	2886	2300	831	1300	755	350-400	320	400	150	150	1-1/4	1-1/2
1800	1746	1630	880		880	150	1470	1270	3096	2510	771	1850	475	450-500	320	400	150	150	1-1/4	1-1/2
2000	1876	1760	945		945	150	1600	1400	3220	2510	903	1550	767	450-500	360	500	200	200	1-1/4	1-1/2
2400	1876	1760	945		945	150	1600	1400	3480	2770	903	1950	627	450-500	360	500	200	200	1-1/4	1-1/2
3000	2146	2030	1080		1080	150	1870	1670	3480	2770	903	2050	527	450-500	400	550	200	200	1-1/4	1-1/2
3500	2146	2030	1080		1080	150	1870	1670	3935	3225	903	2050	982	450-500	400	550	200	200	1-1/4	1-1/2

### Arizona

#### Models 150 – 1300

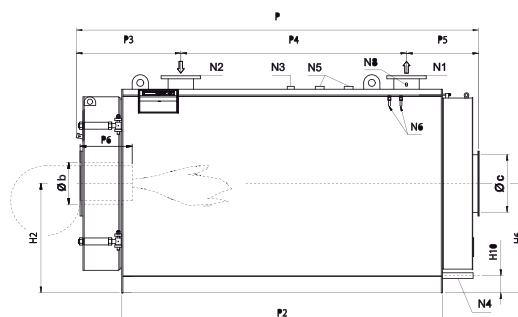
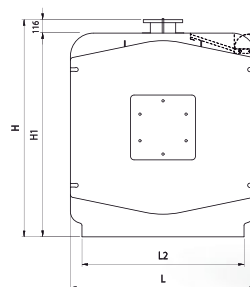
- N1 Boiler supply
- N2 Boiler return
- N3 1/2" connection for additional equipment
- N4 Connection for system loading/unloading
- N5 Safety valve/s connection
- N6 1/2" bulb-holding well
- N8 1/2" inspection well



### Arizona

#### Models 1400 – 3500

- N1 Boiler supply
- N2 Boiler return
- N3 1" connection for additional equipment
- N4 Connection for system loading/unloading
- N5 Safety valve/s connection
- N6 1/2" bulb-holding well
- N8 1/2" inspection well



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51 Assembly Drive Tullamarine Vic 3043 Australia  
PO Box 356 Tullamarine Vic 3043 Australia

Telephone +61 3 9330 3300 Facsimile +61 3 9310 5655

Email [sales@automaticheating.com.au](mailto:sales@automaticheating.com.au)

[www.automaticheating.com.au](http://www.automaticheating.com.au)