

TURBULATOR



STC TITAN
180kW TO 3000kW



- HIGH EFFICIENCY
- LOW NOX

STC 316L STAINLESS STEEL CONDENSING BOILER WITH TURBO FIN TECHNOLOGY

Manufactured in Australia, Simons STC condensing boilers are made to provide high efficiency in Australian conditions. Condensing / Heat Exchange area is manufactured in 316L Stainless Steel with Titanium enhanced 316L condenser tubes. 316L offers better durability and resists corrosion better than standard Stainless Steel. Uniquely designed Turbo Fin Turbulators are of SS construction and offer optimum efficiency and eliminates the risk of corrosion

FEATURES

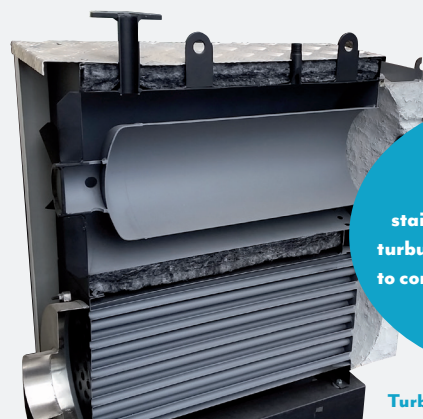
- Internal / External compatible
- 107.5% Net and 97% Gross
- 5 year heat exchange warranty
- Stainless steel condensing tubes
- 600 kPa operating pressure
- Volt free BMS interface for Run, flame failure, High temp cutout
- Relief valve
- Pressure and temperature gauge fitted
- Compact footprint

OPTIONS/ACCESSORIES

- Duplex Stainless Steel
- Operating pressure up to 1100kPa
- Hi Level BMS Interface MODBUS/BACNET
- VSD fan modulation control
- 10:1 modulation turn down
- Weatherproof cabinet
- Condensing neutraliser kit

BENEFITS

- Australia made
- High water content
- Indoor and Outdoor
- Can be used on traditional heating circuits such as radiators and heating fan coils, increasing the efficiency up to 107%
- 316L Stainless Steel Heat Exchanger
- Superior Material & Quality
- Able to resist acidic condensate
- Low NOx and CO
- Compact Footprint

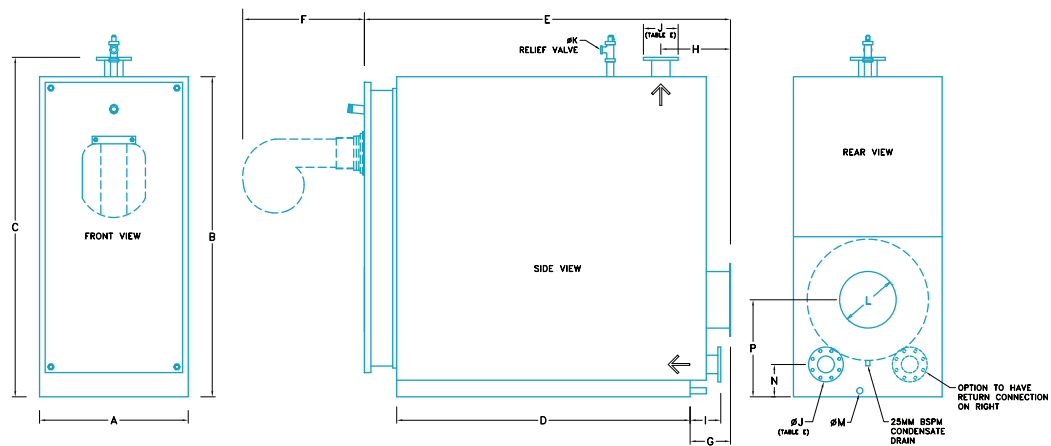


TURBO FIN

A unique removable stainless steel turbo fin spiral turbulators allowing easy access to condensing tubes for cleaning and maintenance

Turbo Fin Technology

STC TITAN CONDENSING FIRE TUBE BOILER



MODELS

STC MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
250	720	1300	1450	1125	1495	600	200	340	170	80	25	250	25	180	460
300	720	1300	1450	1285	1655	680	220	360	170	80	25	300	25	180	460
400	780	1450	1600	1515	1945	680	220	360	170	80	25	300	251	80	500
500	780	1450	1600	1515	1945	680	220	360	170	80	25	300	25	180	520
550	840	1700	1850	1515	1945	800	250	430	190	100	32	300	25	200	560
650	840	1700	1850	1815	2265	800	250	430	190	100	32	350	32	200	560
750	920	1980	2100	1650	2100	800	250	430	190	100	32	350	32	200	600
850	920	1980	2100	1815	2265	800	250	430	190	100	32	350	32	200	600
1050	1000	2050	2170	2015	2465	950	250	450	220	125	50	400	32	250	620
1250	1000	2050	2170	2250	2700	950	250	450	220	125	50	400	32	250	620
1400	1000	2050	2170	2420	2900	950	280	480	220	125	50	400	32	250	640
1600	1120	2150	2270	2420	2900	1050	280	480	220	125	50	400	32	250	640
1800	1120	2150	2270	2700	3250	1050	300	550	220	150	65	500	50	300	680
2000	1150	2250	2370	3000	3550	1050	300	550	220	150	65	500	50	300	680
2200	1150	2250	2370	3000	3550	1050	300	550	220	200	2x50	550	50	350	720
2400	1250	2250	2370	3300	3850	1050	300	550	220	200	2x50	550	50	350	760
2750	1900	2150	2300	3600	4500	1200	450	700	900	250	2x50	60	50	TOP	1075
3000	2000	2150	2300	3600	4500	1200	450	700	900	250	2x50	60	50	TOP	1075

TECHNICAL DATA

STC MODEL		*	*	*	*															
Output 50/30°C	kW	257	309	412	515	568	669	773	876	tba	1082	1288	1442	1648	1854	2060	2280	2475	2834	3090
Output 60/50°C	kW	250	300	400	500	550	650	750	850	tba	1050	1250	1400	1600	1800	2000	2200	2400	2750	3000
Output 80/60°C	kW	242	291	388	485	539	636	729	831	tba	1031	1226	1372	1568	1762	1960	2140	2330	2666	2900
Thermal Efficiency 50/30°C	n	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
Thermal Efficiency 80/60°C	n	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
Natural - Input 80/60°C	MJ/hr	946	1180	1590	1980	2160	2355	2890	3240	tba	4010	4815	5490	6280	7380	7810	8590	9440	10850	12400
Min Gas Pressure	Kpa	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	tba	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Max Gas Pressure	Kpa	7	7	7	7	7	7	7	7	tba	7	7	7	7	7	7	7	7	7	7
Condensate Flow at 50/30c	l/h	18	24	36	40	44	53	66	70	tba	82	102	120	134	145	158	174	191	215	245
Max Operating Pressure	Kpa	600	600	600	600	600	600	600	600	tba	600	600	600	600	600	600	600	600	600	600
Flow Rate at 20c TD	l/s	2.8	3.6	4.8	6.0	6.6	7.7	8.2	10	tba	12.4	14.8	16.6	18.9	21.4	23.7	26	28.6	32.4	36
Flow Rate at 10c TD	l/s	5.6	7.2	9.6	12.0	13.2	15.4	16.4	20	tba	25	29.6	33.2	37.8	42.8	47.4	52.1	57.3	64.8	72
Press Drop at 20c TD	Kpa	0.4	0.4	0.6	0.7	0.8	1.6	0.9	1.3	tba	1.5	1.7	1.2	1.6	2.4	2.9	3.6	3.9	2.9	3.6
Press Drop at 10c TD	Kpa	1.7	1.7	2.4	2.8	3.1	5.2	3.3	4.8	tba	5.2	5.6	4.6	5.2	7.6	8.1	10.8	12.2	8.1	10.8
Power	PH / Amps	1/2.1	1/3.2	1/3.5	1/3.5	3/2.8	3/2.8	3/2.8	3/3.4	tba	3/3.4	3/5.1	3/5.1	3/9.1	3/9.1	3/9.1	3/10.5	3/10.5	3/12.0	3/12.0
Water Content	Litres	240	320	350	520	580	610	660	660	tba	740	850	980	1100	1420	1550	1700	1890	3200	3600
Weight Dry	kG	980	1100	1250	1350	1460	1580	1760	1950	tba	2210	2440	2800	3220	3500	4100	4600	5100	5500	5800

* IMPORTED MODELS

Specifications subject to change without notice. Warranty conditional on verified maintenance.

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