



Tangent Series Steam Sterilizer Solutions



Medical

Tangent Series Mongoose, Tiger and Gorilla

Designed and manufactured in Australia to handle the most rigorous operating conditions whilst delivering low energy and miserly water consumption, the Tangent Series sterilizer can lay claim to being the most advanced sterilizer in the world. The Tangent is not only fully web enabled allowing remote connection from anywhere in the world, the Tangent is also programmed to take advantage of its in-built email capabilities making proactive maintenance a feature of the sterilizer. If a drop in performance is detected the system can send an email to up to eight predetermined addresses to advise them of unexpected behaviour. The Tangent can even send as an attachment the last cycle's data and a fault listing for remote interrogation. All of this helps the Tangent maintain reliable hard working performance. With its modern aesthetics the sterilizer is designed to be as an inviting to use as it is innovative look at.



Tangent Series Gorilla

The largest model in the range, the Tangent Series Gorilla has all the power and flexibility to meet the challenges of modern CSSD departments and other applications that require high level throughput.



Tangent Series Tiger

The Tangent Tiger is sized to meet the needs of the larger CSSD department without the need for extensive space requirements.



Tangent Series Mongoose

Designed to fit just about anywhere yet retaining all the features of its larger series members, the Tangent Mongoose is ideal for smaller type CSSD's and dental hospitals which require high level throughput.

Tangent Series Loading Equipment

Automatic loading trolleys are manufactured from stainless steel and fitted with 125mm diameter ball bearing wheels for manoeuvrability. Auto height adjustable is available as an option. Carriages are also manufactured from stainless steel with adjustable shelves. The carriage automatically rolls in and out of the chamber at the touch of a button. Optional for the smaller chambers, sliding anti tip shelves can be fitted instead of carriages.

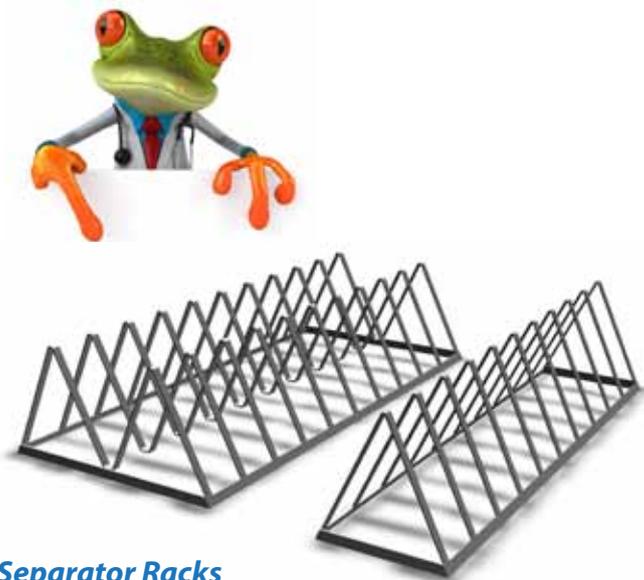




Tangent Carriage Return Hatch

To aid with speed and efficiency of process, Atherton is able to provide a Carriage Return Hatch which enables the operator at the unloading end of the sterilizer to return the sterilizer carriage to the loading end without leaving the room.

Fully manufactured from stainless steel, complete with automatic vertical sliding doors at both ends, the Carriage Return Hatch has been designed to locate beside and compliment the Tangent range of sterilizers.



Separator Racks

Atherton has developed the separator rack in both single and double configuration. This lightweight and easy to use rack has been designed to fit a wide range of sterilizers.

Standard Features

Web Access – The Tangent has the ability to be diagnosed remotely via a secure internet connection to the unit. This remote access is designed to help reduce downtime or eliminate the need for a service call.

Auto Warm up – To save time each day, The Tangent can be programmed to automatically start the day with a world first Start Day Sequence. This feature automatically wakes the unit from its energy and water saving hibernation state, runs a warm-up cycle, then starting a Leak Rate Test, the Tangent then displays a message to the user to insert a Bowie & Dick test, which once placed in the chamber the Tangent will then finalise its sequence by running a Bowie & Dick cycle.

i Screens – Complete online help system means that you no longer have to maintain manuals for training staff and for the customisation of your sterilizer. Every aspect of the operation of the unit is laid out in easy to understand help screens. The help screens are accessed from the sterilizer touchscreen by pressing the “i” button located in the top corner of the screen.

Favourite Cycles – Custom cycles are easily programmed and saved as Favourite Cycles - in English, not code number. For instance you may want to create a cycle called Loan Kits, or Fast Track. Once formatted the Favourite Cycles are locked away from user modification by secure PIN access, only the System Administrator can then modify the cycle profile. This level of security is applied throughout the Tangent’s user interface.



Fault Report – Automatic fault detection and reporting are integral to the Tangent control system. A dedicated screen reports the previous 20 faults. The faults are listed as run number and fault description. The user can print the fault list or email it as an attachment.

Steam Quality Monitor – The Atherton Tangent Series sterilizers are programmed to ensure the sterilizer is operating according to the correct temperature-pressure relationship as specified in AS4187. A unique feature specifically designed for Australian sterilizing services departments.

System Schematic – This is used to view the operation of the unit while running a cycle. It is a useful diagnostic tool and provides an insight into the sequence of operation of the unit.

Component Duty – This screen contains information on the number of cycles that have been run and total duty of the component. You can set the Sterilizer to send an email to remind us that a part is nearing the end of its life.

Cycle Validation Reports

In addition to the continuous on-line feedback of information via the display and printout, an SD (Secure Digital) card can be fitted for the storage and efficient retrieval of cycle data. Actual parameters such as time, temperature and pressure/vacuum levels are stored on an event related basis in alphanumeric form. It enables secure archival storage, and efficient retrieval via Microsoft Excel.



Programming

The colour Touch Screen prompts the operator through the data entry process.

The unit is supplied with a complete software package and is fitted with the following cycles.

- Pre-Vacuum
- Air detector performance test
- Air detector function test
- Leak Rate Test
- Bowie Dick test
- General Purpose Fluids Cycle
- General Purpose Hard Goods Cycle
- General Purpose Porous Cycle
- Fast Vac
- Warm Up Cycle
- F0 Cycle (Optional)

Water Conservation

The Tangent sterilizers are available with a water conservation system which reduces the unit's water consumption by approximately 85%. By installing the water conservation system the sterilizer uses the thermal inertia inherent in reticulated chilled water systems to cool the condenser. Alternatively Atherton can develop a custom solution to meet the specific needs of your site.

Energy Conservation

To conserve steam, the control system will automatically reduce the jacket temperature one hour after the completion of the last cycle.





Mechanical Features

Valves - Pneumatic operated solenoid valves are used for long trouble free life.

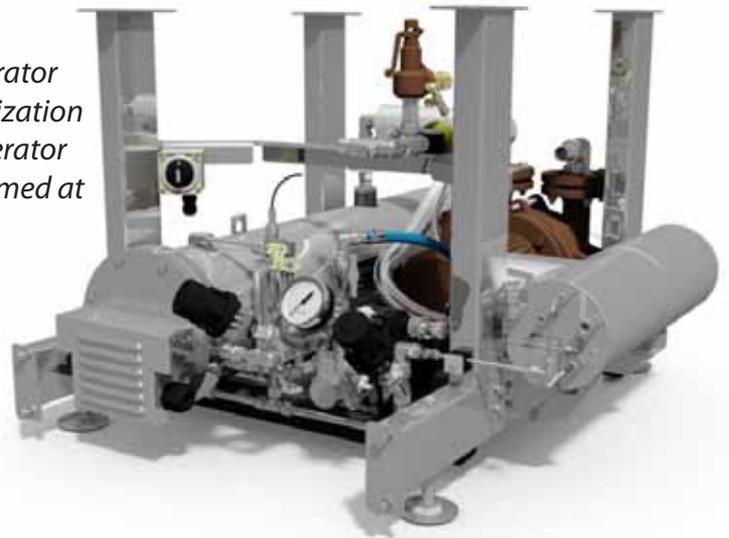
Pipe Work - All pipe work is manufactured from stainless steel and clear PFA tubing. Clear PFA tubing is used in critical areas such as steam traps and check valves to allow a service technician to view steam and condensate flow in order to reduce down time.

Steam Generator Option

To save space, the optional 316 stainless steel steam generator can be built into the frame of the Sterilizer below the sterilization chamber on units up to 980 litre capacity. The steam generator has an automatic blowdown facility that can be programmed at an operator set time.

Dual Steam Option

Units that are fitted with an integral steam generator can be fitted with piping to allow changeover from integral steam to reticulated steam supply.



Tangent Sterilizer Configuration Chart

Model Name	Model No.	Chamber Size H x W x D cm	Chamber Volume Lt.	Electric Steam Generator	Built in Plant Room	Free Standing Cabinet	Double Door Pass Through
Mongoose	TSB 556	53.5 x 53.5 x 63.5	181		✓		
Mongoose	TSC 556	53.5 x 53.5 x 63.5	181			✓	
Mongoose	TEB 556	53.5 x 53.5 x 63.5	181	✓	✓		
Mongoose	TEC 556	53.5 x 53.5 x 63.5	181	✓		✓	
Mongoose	TSB 5510	53.5 x 53.5 x 63.5	181		✓		
Mongoose	TSBD 5510	53.5 x 53.5 x 100	286		✓		✓
Mongoose	TSC 5510	53.5 x 53.5 x 100	286			✓	
Mongoose	TSCD 5510	53.5 x 53.5 x 100	286			✓	✓
Mongoose	TEB 5510	53.5 x 53.5 x 100	286	✓	✓		
Mongoose	TEBD 5510	53.5 x 53.5 x 100	286	✓	✓		✓
Mongoose	TEC 5510	53.5 x 53.5 x 100	286	✓		✓	
Mongoose	TECD 5510	53.5 x 53.5 x 100	286	✓		✓	✓
Mongoose	TSB 5513	53.5 x 53.5 x 134	383		✓		
Mongoose	TSBD 5513	53.5 x 53.5 x 134	383		✓		✓
Mongoose	TSC 5513	53.5 x 53.5 x 134	383			✓	
Mongoose	TSCD 5513	53.5 x 53.5 x 134	383			✓	✓
Mongoose	TEB 5513	53.5 x 53.5 x 134	383	✓	✓		
Mongoose	TEBD 5513	53.5 x 53.5 x 134	383	✓	✓		✓
Mongoose	TEC 5513	53.5 x 53.5 x 134	383	✓		✓	
Mongoose	TECD 5513	53.5 x 53.5 x 134	383	✓		✓	✓
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Tiger	TSB 6612	66 x 66 x 124	540		✓		
Tiger	TSBD 6612	66 x 66 x 130	566		✓		✓
Tiger	TSC 6612	66 x 66 x 124	540			✓	
Tiger	TSCD 6612	66 x 66 x 130	566			✓	✓
Tiger	TEB 6612	66 x 66 x 124	540	✓	✓		
Tiger	TEBD 6612	66 x 66 x 130	566	✓	✓		✓
Tiger	TEC 6612	66 x 66 x 124	540	✓		✓	
Tiger	TECD 6612	66 x 66 x 130	566	✓		✓	✓
Tiger	TSB 6615	66 x 66 x 160	697		✓		
Tiger	TSBD 6615	66 x 66 x 165	718		✓		✓
Tiger	TSC 6615	66 x 66 x 160	697			✓	
Tiger	TSCD 6615	66 x 66 x 165	718			✓	✓
Tiger	TEB 6615	66 x 66 x 160	697	✓	✓		
Tiger	TEBD 6615	66 x 66 x 165	718	✓	✓		✓
Tiger	TEC 6615	66 x 66 x 160	697	✓		✓	
Tiger	TECD 6615	66 x 66 x 165	718	✓		✓	✓
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Gorilla	TSB 9612	90 x 66 x 130	772		✓		
Gorilla	TSBD 9612	90 x 66 x 130	772		✓		✓
Gorilla	TSC 9612	90 x 66 x 130	772			✓	
Gorilla	TSCD 9612	90 x 66 x 130	772			✓	✓
Gorilla	TEB 9612	90 x 66 x 130	772	✓	✓		
Gorilla	TEBD 9612	90 x 66 x 130	772	✓	✓		✓
Gorilla	TEC 9612	90 x 66 x 130	772	✓		✓	
Gorilla	TECD 9612	90 x 66 x 130	772	✓		✓	✓
Gorilla	TSB 9615	90 x 66 x 162	962		✓		
Gorilla	TSBD 9615	90 x 66 x 165	980		✓		✓
Gorilla	TSC 9615	90 x 66 x 162	962			✓	
Gorilla	TSCD 9615	90 x 66 x 165	980			✓	✓
Gorilla	TEB 9615	90 x 66 x 162	962	✓	✓		
Gorilla	TEBD 9615	90 x 66 x 165	980	✓	✓		✓
Gorilla	TEC 9615	90 x 66 x 162	962	✓		✓	
Gorilla	TECD 9615	90 x 66 x 165	980	✓		✓	✓

Design and specifications may change without notice.