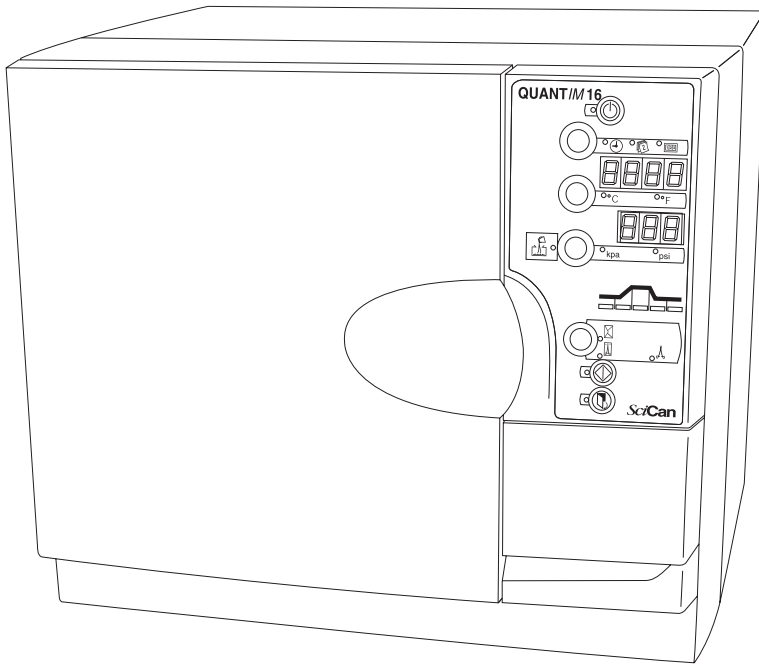


# QUANTIM 16



- **Operator's Manual**

# Table of Contents

1. Introduction .....	2
2. Important Information .....	3
3. Installation .....	5
4. Indicators and Controls .....	7
5. Running A Cycle .....	8
6. Printer Installation .....	12
7. Accessories .....	15
8. Maintenance .....	16
9. Troubleshooting .....	18
10. Warranty .....	20
11. Specifications .....	21
12. Pressure Vessel Certificate of Compliance .....	23

All rights reserved. QUANT/16 and SystM are trademarks of SciCan.

**For all service and repair inquiries:**

Canada:	1-800-870-7777
United States:	1-800-572-1211
International:	(416) 446-4500
Email (Service and Repair):	techservice.ca@scican.com

Manufactured for:

**SciCan**

1440 Don Mills Road,  
Toronto ON M3B 3P9

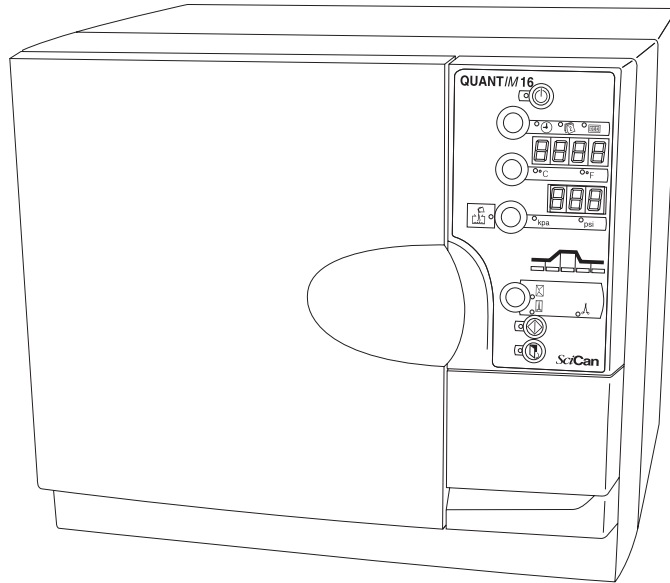
CANADA

Phone: (416) 445-1600

Fax: (416) 445-2727

Toll Free: 1-800-667-7733

# 1. Introduction



Congratulations on your selection of the QUANTIM 16™ Autoclave. To ensure years of safe, trouble-free service, carefully review this Operator's Manual before operating the unit. By following these simple step-by-step instructions you can ensure your instruments are correctly sterilized every time. The Quantim 16 is suitable only for the applications listed in this user manual; use for other purposes may be unsafe. Operational, maintenance, and replacement instructions must be followed for the product to perform as designed. The manufacturer cannot be held responsible for damage caused by improper use.

While unpacking, check the unit for damage that may have been sustained in transit. If damage is found, please report this to the shipping agent immediately, in writing, and then notify your dealer.

All trademarks referred to in this manual are the property of their respective owners. Contents of this manual are subject to change without notice to reflect changes and improvements to the Quantim 16 product.

## 2. Important Information

### 2.1 Warnings

Do not permit any person other than authorized personnel to supply parts for, service, or maintain your Quantim 16. SciCan shall not be liable for incidental, special or consequential damages caused by any maintenance or services performed on the Quantim 16 by unauthorized personnel, or for the use of equipment or parts manufactured by a third party, including lost profits, any commercial loss, economic loss, or loss arising from personal injury.

Never remove the cover of the unit and never insert objects through holes or openings in the cabinetry. Doing so may damage the unit and / or pose a hazard to the operator.

Pay close attention to the symbols that appear in the margins.  
The following symbols indicate:



a potential hazard to the operator



a situation, or circumstance, which may lead to mechanical failure



important information

**SciCan**  
1440 Don Mills Road,  
Toronto, ON M3B 3P9  
CANADA  
Phone: (416) 445-1600  
Fax: (416) 445-2727  
Toll free: 1-800-667-7733

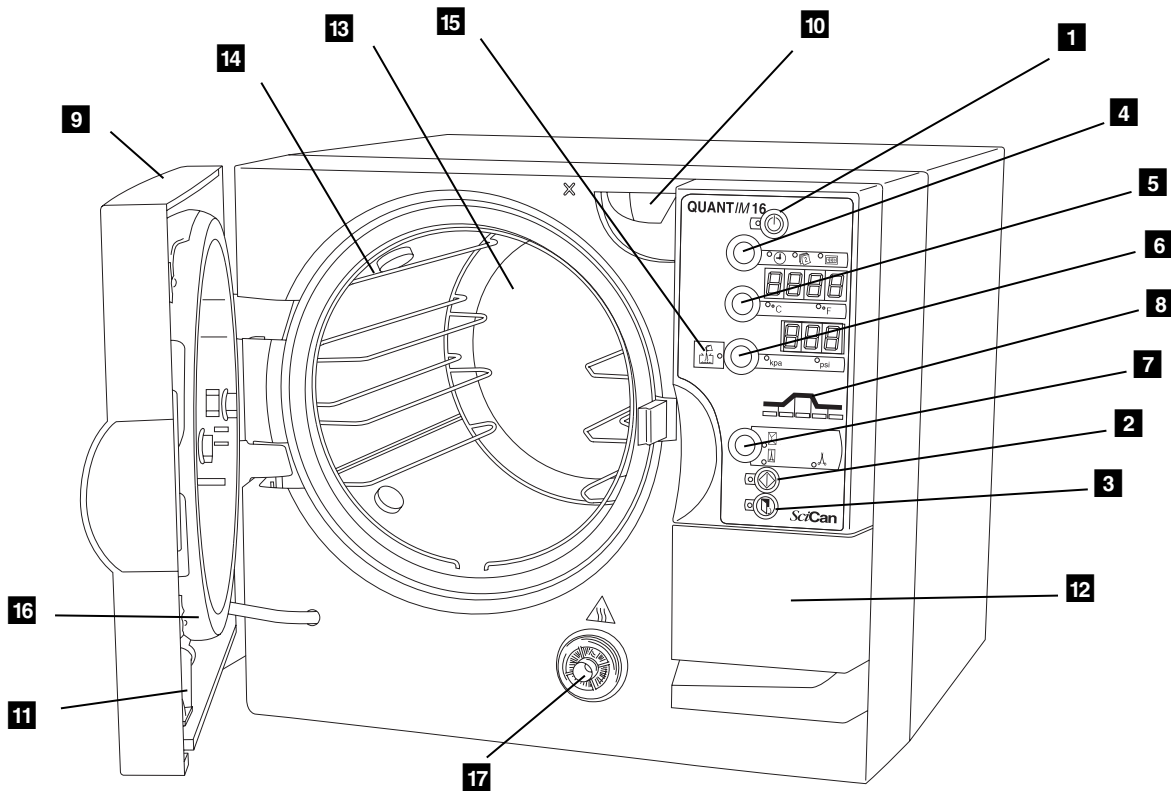
**SciCan Inc.**  
500 Business Center Drive  
Pittsburgh, PA 15205  
USA  
Phone: (412) 494-0181  
Fax: (412) 494-4794  
Toll free: 1-800-572-1211

Email: [customer\\_servicecanada@scican.com](mailto:customer_servicecanada@scican.com)

[www.scican.com](http://www.scican.com)

## 2. Important Information

### 2.2 Item Identification



The diagram numbers refer to the following:

- |   |                               |
|---|-------------------------------|
| <b>1</b> standby / ready button               | <b>10</b> water fill spout    |
| <b>2</b> cycle start button                   | <b>11</b> water tank drain    |
| <b>3</b> door open button                     | <b>12</b> printer door        |
| <b>4</b> time / date / cycle button           | <b>13</b> autoclave chamber   |
| <b>5</b> temperature reading button & display | <b>14</b> furniture rack      |
| <b>6</b> pressure reading button & display    | <b>15</b> low water indicator |
| <b>7</b> cycle select button                  | <b>16</b> door gasket seal    |
| <b>8</b> status indicator                     | <b>17</b> air filter          |
| <b>9</b> main autoclave door                  |                               |




The Quantim 16 autoclave is approx. 42 kg or 92 lbs.  
At least two people will be needed to lift it.

## 3. Installation

### 3.1 Installing the Unit

To install the unit, follow these steps:

1. Ensure the unit is placed on a flat, level surface prior to running a sterilization cycle. To verify if the unit is level, pour half a cup of de-ionized / distilled water into the chamber. The water should flow towards the rear of the chamber, not out of the front. The autoclave must be positioned so that the rear is not accessible to personnel and is not directly in front of an electrical outlet in the event of the overpressure release valve operating. The autoclave cooling fan outlet is placed at least 100 mm / 4" from any near by surface.
2. Plug the unit into a 120 V / 60 Hz - outlet (To check power of the correct power rating, refer to the rating plate located inside the printer door). After a few seconds, the LED next to the Standby / Ready button **1** will illuminate.
-  3. The power outlet must be properly grounded. The power plug should also be easily accessible.
4. Press button **1** to set the autoclave in ready mode. The LED next to button **1** will go out.

### 3.2 Filling the Tank

You will now need to fill the water tank. To do so, follow these steps:

1. Press button **3** to open the door.
2. Remove packing material from inside of chamber.
3. Pour water into the fill spout **10** to the maximum line located within fill spout. The tank requires 3.9 L / 1.03 gal of water.
4. When the low water indicator **15** illuminates, the water tank will need to be filled.



Never use tap water. Always use de-ionized or distilled water.

You will now need to set the date and time. The date and time are set in the following sequence: year (tens); year (hundreds); month; day; minutes; hours.

## 3. Installation

### 3.3 Setting the Date and Time

To set the calendar and clock, follow these steps:

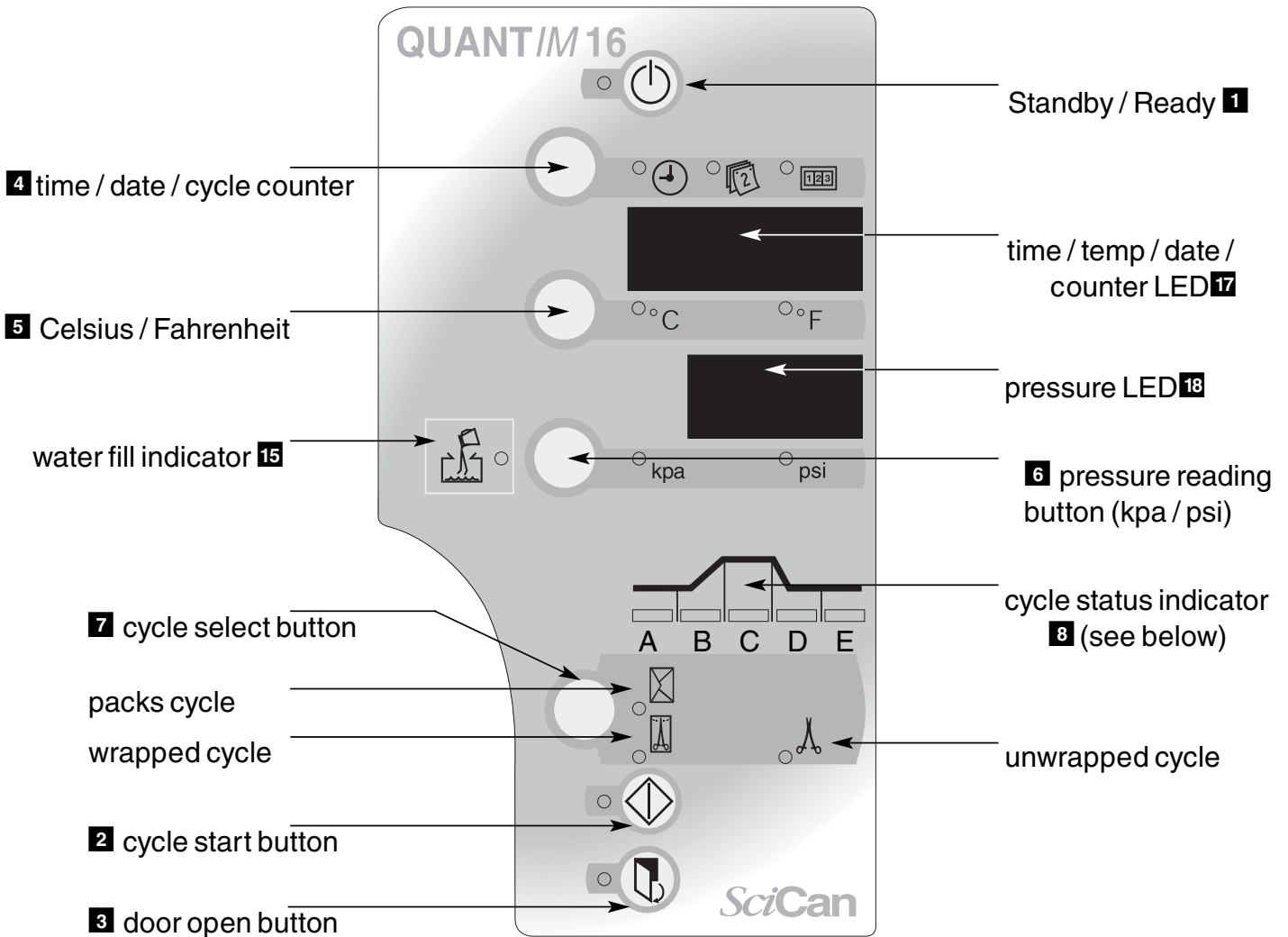
1. Ensure the autoclave is in the ready mode by pressing the Standby / Ready button **1**. The LED next to button **1** will be out.
2. Press and hold the time / date / cycle button **4** for 5 seconds.
3. Set the year (tens) by pressing the time / date / cycle button **4** upwards and the temperature reading button **5** downward.
4. Press the select pressure reading button **6** to accept.
5. Set the year (hundreds); month; day; minutes; and hours; by pressing the time / date / cycle button **4** upwards and the Temperature Reading button **5** downward and Pressure Reading button **6** to accept.
6. The unit returns to the ready mode when the hours have been accepted.  
A 24 hr clock is used.

### 3.4 Single use water system

To install the system the container lid and condensing coil, which are already attached to the autoclave, need to be fitted by carefully inserting the coil into the container and fastening the lid by hand.

Fill the waste bottle with tap water up to the “Min” level. The container should be placed on an even, level surface close to, and preferably below, the autoclave unit.

# 4. Indicators and Controls






A visual cycle indicator **8** shows the stages of the cycle:

Stage A.	Cycle start / water fill <b>A</b>
Stage B.	Heating and air bleed <b>B</b>
Stage C.	Sterilizing <b>C</b>
Stage D.	Depressurization / drying <b>D</b>
Stage E.	Cycle complete <b>E</b> the buzzer sounds 3 times.



## 5. Running a Cycle

### 5.1 Cycle Description Chart

Cycle Symbol	 Unwrapped instruments	 Wrapped instruments	 Packs
Temp./ exposure time	132°C / 270°F / 3 min	132°C / 270°F / 15 min	121°C / 250°F / 30 min
Instruments	<ul style="list-style-type: none"> <li>• For unwrapped solid instruments, hinged instruments, dental handpieces.</li> <li>• Items which manufacturers recommend for the exposure at this time and temperature.</li> </ul>	<ul style="list-style-type: none"> <li>• Solid and hinged instruments; dental handpieces; loosely wrapped or individual instruments</li> <li>• Wrapped trays of loose instruments.</li> <li>• Items which manufacturers recommend for the exposure at this time and temperature.</li> </ul>	<ul style="list-style-type: none"> <li>• Wrapped surgical packs</li> <li>• Items which manufacturers recommend for the exposure at this time and temperature.</li> </ul>
Comments	The sterility of unwrapped items can be compromised on exposure to a non-sterile environment		Not For Liquids



**Note:** If in doubt regarding an instrument's suitability for steam sterilization contact the manufacturer of the instrument directly.

Maximum load is 2 kg / 4.4 lbs

Maximum tray load is:

- 1 kg / 2.2 lbs for wrapped / pouched loads.
- 2 kg / 4.4 lbs for unwrapped loads.

# 5. Running a Cycle

## 5.2 Important Points to Remember



- Instruments should always be clean and free of debris and bioburden prior to sterilization.
- It is recommended that a chemical indicator strip be used with every cycle. If the chemical indicator strip fails to change after cycle, repeat cycle with new strip. If this occurs again then arrange for service and do not use autoclave.
- Only use qualified personnel to service this product.

## 5.3 Running a Cycle

To run one of the three cycles, follow these steps:

1. Disinfectant or hard water residues and solid debris may inhibit the sterilization and / or performance of the instrument. Clean the instruments prior to sterilization.
2. Arrange the instruments on the tray so that they do not touch each other. This ensures that steam reaches all surfaces and will promote drying.
3. Adequate clearance must be provided to ensure that the top of the load does not strike the tray above nor the chamber ceiling.
4. Close the door by pushing until a 'click' is heard. The LED next to the door open button **3** will light.
5. Press the cycle select button **7** until the required cycle is selected. The unit returns to the default after each cycle. (The default cycle is 132°C / 269.6°F.)
6. Press cycle start button **2** to start a fully automatic cycle.

At the end of a cycle the buzzer sounds 3 times. The door may now be opened. Press button **3** to open the door.

At the completion of each sterilization cycle the Quantim 16 automatically begins a vacuum drying cycle.

When the autoclave is drying the load the door may be opened at anytime by pressing button **3**. The cycle will terminate and the door will be ready to open when it is safe.

## 5. Running a Cycle



Always use the lifter handle, part #279007 when removing standard open trays from the autoclave as the instruments may be hot. When using other trays or cassettes, use heat protective gloves.



If the Drying Phase is interrupted UM 15 will displayed in the pressure display **17**. This can be reset by pressing the Standby / Ready button **1** twice.

**Note:** It is recommended that the Drying phase complete its cycle to ensure that the load is fully dried. When wet instruments, packs and pouches are exposed to an unsterile environment the sterility of the instruments could be compromised.

If the unit is used in a very cold environment, water vapor may be seen coming from the cooling fan. This is normal and will only last for a few minutes.



The time is the default on the time / date / cycle display. Once the cycle has completed, the unit display returns to the default after each cycle. Press button **4** to display the date or number of cycles.

### 5.4 Aborting a cycle

- Press the standby button in Figure 1.

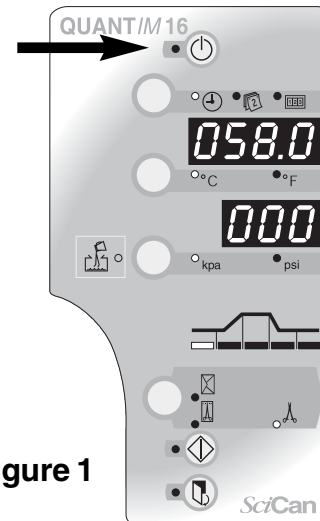


Figure 1

- This results in the pressure display flashing “Abt” (Figure 2).
- If the standby button is not pressed again within a ten second period the display reverts back to normal and the cycle continues.

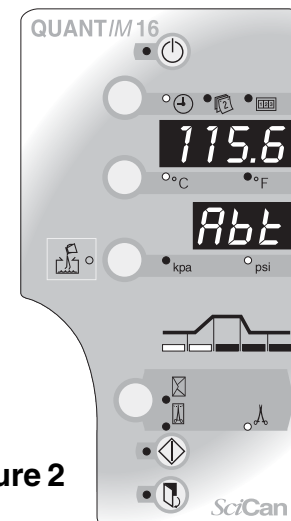


Figure 2

## 5. Running a Cycle

- If during this ten-second period the standby button is pressed again the display reverts to either Ready Mode (Temperature < 95°C) or recovery (for example does not allow entry into the unit until the display shows 95°C). The display will be as shown in Figure 3.

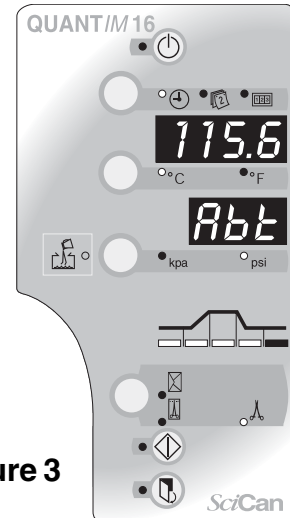


Figure 3

- When the temperature reaches 95°C, the fifth cycle status led will come on and the door led will be illuminated (Figure 4).
- Press the door button and the unit returns to Ready Mode.
- On the next cycle the vacuum pump will not run prior to water fill.

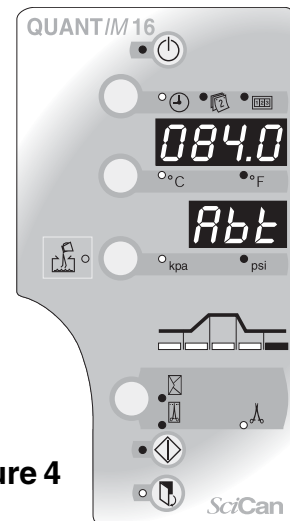


Figure 4

### 5.5 Types of trays and loading

**!** When loading the unit, the following information should be observed for the load to be correctly processed:

The furniture rack holds three standard trays and will accommodate other cassettes such as Sys™ cassettes and specific HU-Friedy cassettes. The maximum load for the unit is 2 kg / 4.4 lbs (1 kg / 2.2 lbs for wrapped loads and 2 kg / 4.4 lbs for unwrapped loads). The instrument manufacturer's reprocessing instructions should be consulted about autoclaving suitability. Specifically, the information regarding the maximum temperature and pressure the instruments can withstand is very important to ensure instrument damage is avoided.

When placing instruments on the trays, ensure they are placed on the tray ribs to promote drainage. The height of the load should not interfere with the other trays or the surrounding chamber. Also, the trays should not touch each other. Always use the lifter handle, part #279007 when removing the trays from the autoclave as they may be hot. Long trays should be supported at their rear as they become free of the tray carriers. Do not touch hot trays with an unprotected hand.

# 6. Printer Installation

## View 1 – Front

- 1** power ON light
- 2** printer mechanism open tab
- 3** paper feed button
- 4** cassette ribbon winder
- 5** cassette ribbon "pull" location
- 10** ribbon cassette

## View 2 – Rear

- 2** printer mechanism open tab
- 6** printer cable connector socket location
- 7** fixing and screw

## View 3 – Front

- 2** printer mechanism open tab
- 7** fixing cam and screw
- 8** printer mechanism swung open

## View 4 – Side

- 7** fixing cam and screw
- 8** printer mechanism swung open

## View 5 Side – (Printer mechanism swung open)

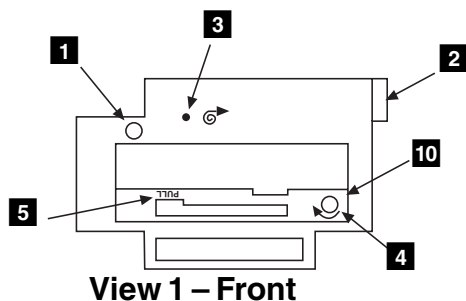
- 9** paper roll location and paper fed into printer mechanism

## View 6 – Ribbon cassette (cassette out of printer)

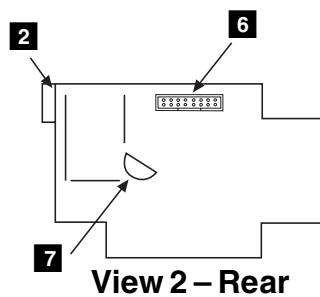
- 5** cassette ribbon "pull" location
- 10** ribbon cassette
- 12** ribbon
- 11** paper fed through gap

## View 7 – Printer door

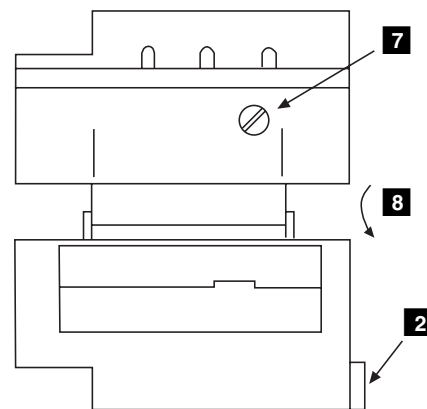
- 13** paper guide decal location



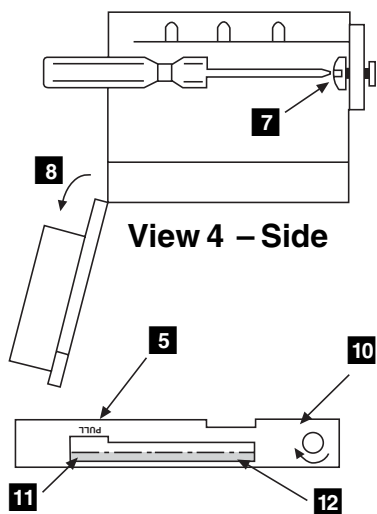
View 1 – Front



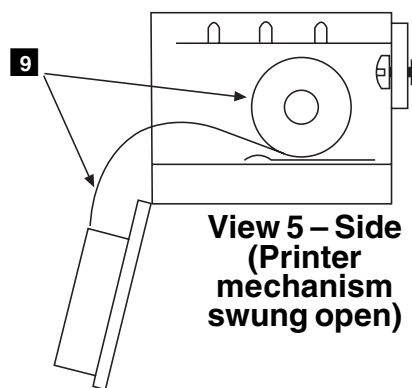
View 2 – Rear



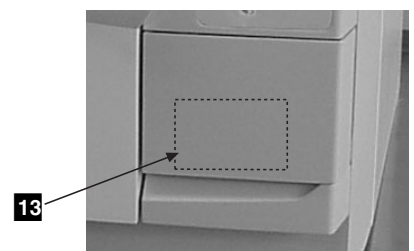
View 3 – Front



View 4 – Side



View 5 – Side (Printer mechanism swung open)



View 7 – Printer door

# 6. Printer Installation

## 6.1 Printer Installation

Install the printer by following these instructions and by referring to the illustrations.

A large flat blade screwdriver will be required.

! Disconnect the autoclave from the power supply and wait at least 1 minute before fitting or removing the printer. Failure to do so may result in permanent damage.

! Never pull the paper through the printer mechanism; always use the feed button. In the event of a paper jam, printing will automatically cease. Reset the printer by turning the autoclave **OFF** and then **ON** again. Check that the paper feed is free from obstruction.

To install the printer, follow these steps:

1. Open the printer door on the front of the autoclave
2. Locate the printer connector cable with the plug inside the autoclave printer opening. Free it from the clip and remove the clip from the moulding.
3. Connect the cable to the rear of the printer.
4. To fix the printer:
  - A) Open the printer and swing the printer mechanism down.
  - B) Insert the printer into the autoclave printer space. Ensure the printer cable is to the left of the plastic locating strut, and push home.
  - C) Using a screwdriver, turn the cam fixing screw anti-clockwise until the the printer moves in fully. (Do not use excessive force).
  - D) To fix securely, turn the cam screw a further quarter to one turn anti-clockwise.
  - E) Reconnect the autoclave to the power supply.

## 6. Printer Installation

### 6.2 Installing Paper into the Printer

Install the paper roll by following these steps and by referring to the illustrations.

1. Open the printer door. Open the printer **2** and swing the printer mechanism down.
2. Note the position the printer paper feeds into the printer mechanism **9**.
3. Ensure the printer mechanism is clear of old paper by pressing the feed button. Do not pull the paper backwards out of the mechanism.
4. Reel off a few centimeters of paper from the new roll; ensure that the paper end is squarely cut.
5. Place the new paper roll into the printer casing with the paper end coming from the bottom of the roll **9**.
6. Offer paper into the back of the printer mechanism **9**. Press feed button **3**.
7. Press the feed button **3** until 50 mm of paper is fed through the paper exit slot.
8. Swing printer mechanism up and close. Press the feed button to feed a further 10mm of paper out.
9. Close the external printer door. Ensure the paper is protruding out from the base of the external door and is not obstructed.

### 6.3 Ribbon Installation

1. Open the printer door
2. Remove the old ribbon cassette by pulling on the area marked “pull” **5**. The cassette will unclip on one side and can then be removed.
3. Check that the ribbon on the new cassette is taut. Wind the knob **4** in the direction shown on the cassette to take up any slack.
4. Feed the printer paper through the gap **11** between the ribbon **12** and the cassette **10**.
5. Clip the new ribbon cassette into place in the reverse sequence for removal.
6. Wind the knob **4** a few turns in the direction shown on the cassette to take up slack in the ribbon.
7. Close the external printer door. Ensure the paper is protruding out from the base of the external door and is not obstructed.

# 7. Accessories

## Product - Part number

Printer – 289083

Printer Ribbon – 279221

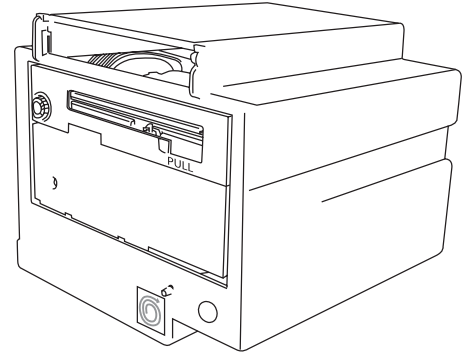
Paper Roll - 279001

Stainless Steel Pouch Rack (282 mm / 11") – 279009

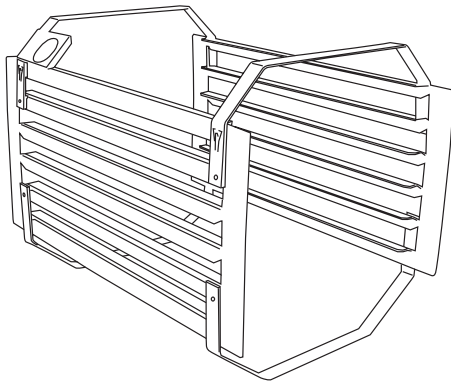
6 tray chamber rack – 279229

Stainless Steel Tray (282 mm / 11") – 279006

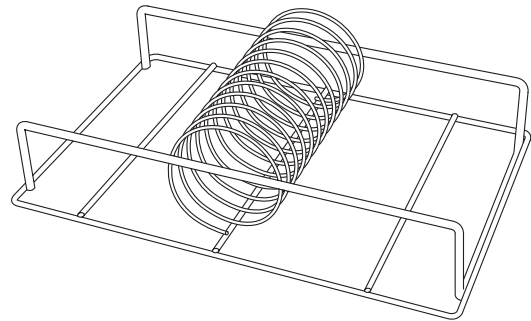
Stainless Steel Lifter Handle – 279007



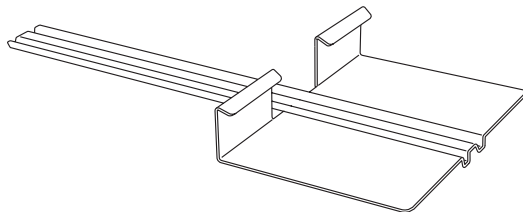
Printer – 289083



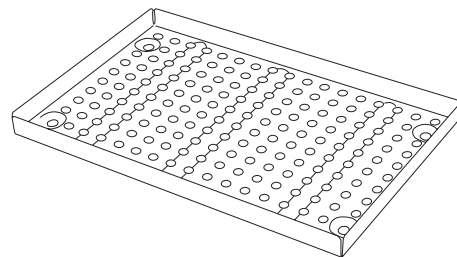
6 tray chamber rack – 279229



Stainless Steel Pouch Rack (282 mm / 11") – 279009



Stainless Steel Lifter Handle – 279007



Stainless Steel Tray (282 mm / 11") – 279006



## 8. Maintenance

### 8.1 Door Seal Gasket

The door seal gasket **16** must be cleaned on a daily basis before using the autoclave. Wipe the exposed surface of the gasket and the sealing surface of the vessel with warm soapy water using a damp lint free cloth. Wipe / rinse the gasket and vessel again with plain water to remove any residual soap. Repeat as needed.

Inspect the gasket frequently for the presence of any leaks. If a leak is noted, the gasket should be removed and cleaned thoroughly in warm soapy water rinsed, and then shaken dry. Do not wipe dry. The door plate must also be cleaned at that time.

If the leak persists during a follow-up test cycle then a new seal should be obtained and the defective seal replaced.

To remove the gasket, follow these steps:

1. Undo the dome nut(s) and remove both nut(s) and 'O' ring seals. Always replace the "O" ring seal(s) before reassembly.
2. Remove the plate / gasket assembly, and gasket from the plate.
3. During re-assembly, place the "O" ring seal(s) under the head(s) of the dome nut(s).

Do not overtighten as this may damage the thread. Ensure that the entry port plugs align with the holes in the cast lid.

### 8.2 Fresh water tank

The manufacturer recommends the weekly full draining of the unit to minimize any potential for biofilm formation.

A drain fitting and tubing are provided to drain the reservoir. Detach the tubing from the retainer clip on the inside of the door and place the open end of the drain tubing into a container. Open the valve on the end of the tubing and fully drain reservoir. When empty, close the tubing valve and re-set tubing in retainer clip.

Refill the reservoir with clean distilled water.

### 8.3 Routine maintenance

Routine annual maintenance including such tasks as filter replacements are required for this unit. Contact your authorized dealer or your SciCan technician to book your service appointment.

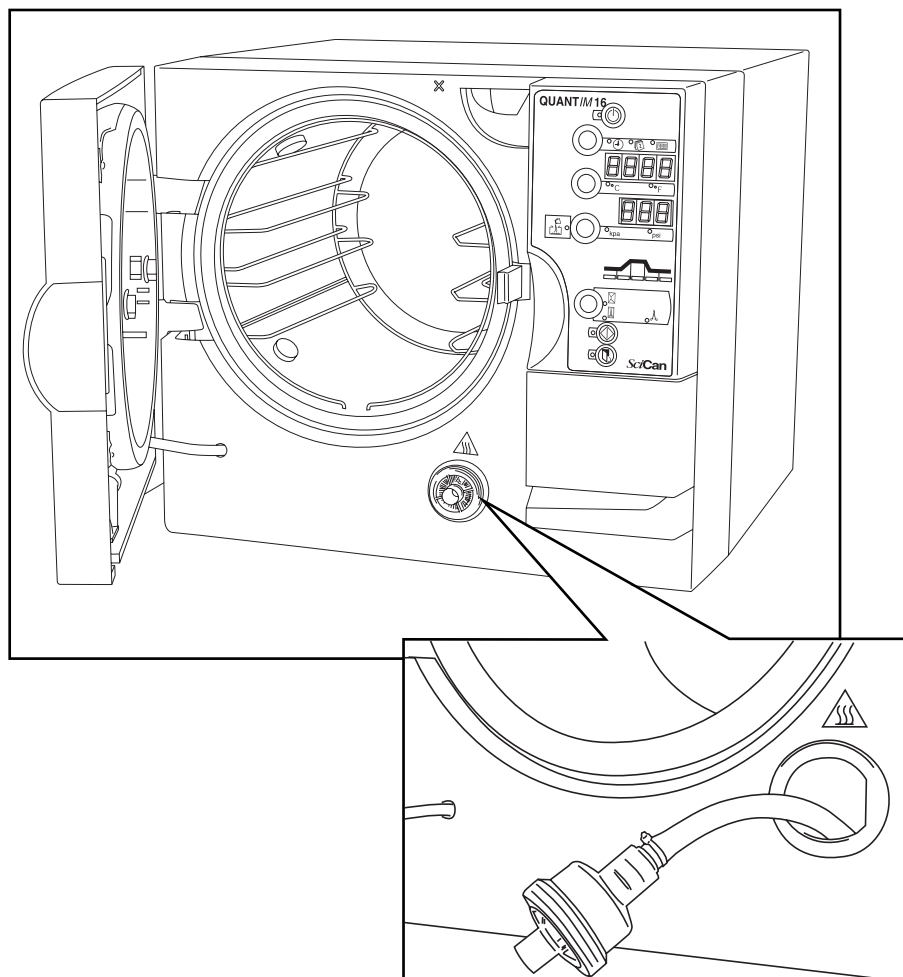
## 8. Maintenance

### 8.4 Waste bottle

The waste bottle has to be regularly checked and be emptied when the water reaches the “Max” level. One easy way to remember is to empty the waste bottle every time you fill up the water reservoir. After emptying the waste bottle fill it up to “Min” level with tap water.

### 8.5 Biological air filter

For closed door drying of instruments (in sterile environment) the air enters the sterilization chamber via the biological air filter. Check the filter regularly and replace it when dirty. Air filter replacement is recommended every 500 cycle or 6 months whichever comes first. Just pull the filter out and disconnect the tubing. Install the new filter and put it back in place.



## 9. Troubleshooting

If the software detects any unusual condition, a visual and audible indication will be given. The nature of the condition can be determined by reference to the fault guide. The recovery sequence allows access to any instruments within the autoclave.

Condition indicated	Cause	Remedy
Low water LED <b>15</b>	Insufficient water in the tank to run a cycle.	<ol style="list-style-type: none"> <li>1. Press button <b>1</b> twice.</li> <li>2. Open the door and top up with water.</li> </ol>
'DOOR' illuminates on display <b>17</b>	Cycle start button <b>2</b> pressed while door is open.	<ol style="list-style-type: none"> <li>1. Close the door and try again.</li> </ol>
01	Power failure during cycle.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'i'.</li> <li>2. Check the power supply.</li> </ol>
02 (b/d/t)	Annex A failure (time or temperature).	<ol style="list-style-type: none"> <li>1. Recovery sequence 'i'.</li> <li>2. Clean the gasket and chamber face (b/d E02).</li> <li>2ii. Check and reset the clock (tE02).</li> </ol>
03	Air bleed has not been successful.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'i'.</li> <li>2. Clean the gasket and chamber face.</li> </ol>
07	Sensor fault - Thermistor.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'ii'.</li> <li>2. Engineer call-out required.</li> </ol>
10	Water in boiler.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'iii'.</li> <li>2. Run a cycle.</li> </ol>
12	Boiled dry.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'i'.</li> <li>2. Ensure the autoclave is on a flat, level surface.</li> <li>3. Clean the door gasket and chamber face.</li> </ol>
13	Boiler failed to fill with water.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'i'.</li> <li>2. Drain the water from the autoclave and refill with distilled/de-ionized water.</li> </ol>
14	Sensor fault - PT100 Chamber.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'ii'.</li> <li>2. Engineer call-out required.</li> </ol>
15	Door opened during drying.	<ol style="list-style-type: none"> <li>1. Recovery sequence 'i'.</li> </ol>
17	Failure to dump all steam from chamber after sterilizing.	<ol style="list-style-type: none"> <li>1. Press Stand-by button 1 for recovery sequence.</li> <li>2. Check external dump pipe for restrictions.</li> <li>3. If pipe OK engineer call-out required.</li> </ol>
18	Minor leak detected from vessel.	<ol style="list-style-type: none"> <li>1. Press Stand-by button 1 for recovery sequence.</li> <li>2. Engineer call-out required.</li> </ol>

## 9. Troubleshooting

Recovery Sequence (allows instruments to be removed from the unit)

- Recovery Sequence 'i': Press **1** – 'Stabilize' (no 'flashing', no 'beeping') Press **1** – 'Recover'
- Recovery Sequence 'ii' Press **1** – 'Stabilize' (no 'flashing', no 'beeping')



Cannot proceed (door not enabled). Contact your local dealer or service technician.

- Recovery Sequence 'iii' Press **1** – 'Stabilize' (no 'flashing', no 'beeping') Press **1** to enter 'Ready' state

The recovery sequence will allow the selected sterilizing cycle to be completed before the boiler flushes and any remaining air is bled from the chamber. Once this sequence has been completed the unit holds for 60 seconds or, until the internal temperature falls to 88°C / 190.4°F before the door can be opened and a continuous beeping alert sounds.



Before restarting a cycle, check that the plug is fully inserted into the power outlet socket and the outlet is grounded. If all power is lost, the door cannot be opened until power is restored.

Should an internal power failure occur, the door cannot be opened. (Contact you dealer for advice) Should it be clear that an indicating device is suspect, a service will be required to correct the condition.

Should a safety feature operate, unplug the unit and call for a service - do not attempt to correct the condition.

Primary safety features:

Two primary safety features have been fitted – a pressure release valve and a boiler over temperature safety cutout.

# 10. Warranty

## Limited Warranty

For a period of one year\*, **SciCan** guarantees that the **QUANTIM 16**, when supplied by **SciCan** in new and unused condition, will not fail during normal service due to defects in material and workmanship that are not due to apparent abuse, misuse, or accident.

\* For all units sold in the United States, this period is extended to two years.

In the event of failure due to such defects during this period of time, the exclusive remedies shall be repair or replacement, at **SciCan's** option and without charge, of any defective part(s) (except gasket), provided **SciCan** is notified in writing within thirty(30) days of the date of such a failure and further provided that the defective part(s) are returned to **SciCan** prepaid.

This warranty shall be considered to be valid, if the product is accompanied by the original purchase invoice from the authorized **SciCan** dealer, and such invoice identifies the item by serial number and clearly states the date of purchase. No other validation is acceptable. After one year, all **SciCan's** warranties and other duties with respect to the quality of the product shall be conclusively presumed to have been satisfied, all liability therefore shall terminate, and no action or breach of any such warranty or duty may thereafter be commenced against **SciCan**.

Any express warranty not provided hereon and any implied warranty or representation as to performance, and any remedy for breach of contract which, but for this provision, might arise by implication, operation of law, custom of trade or course of dealing, including any implied warranty of merchantability or of fitness for particular purpose with respect to all and any products supplied by **SciCan** is excluded and disclaimed by **SciCan**. If you would like to learn more about **SciCan** products and features, visit our website at [www.scican.com](http://www.scican.com).

# 11. Specifications

Chamber Capacities:	16 L / 4.23 ga
Overall product width:	480 mm / 18.9"
Overall product height:	410 mm / 16.14"
Overall product length:	440 mm / 17.3"
Unpacked weight:	41kg (max) / 90.4lbs
Chamber diameter:	250 mm / 9.9"
Chamber lengths:	330 mm / 13"
Tray capacity/length:	3@282 mm / 11.1"
Max instrument length:	282 mm/11.1"
Max instrument load:	2 kg / 4.4 lbs
Sterilizing temperature / time:	Unwrapped –132°C / 3 minutes or 269.9°F / 3 minutes Wrapped –132°C / 15 minutes or 269.9°F / 15 minutes Packs / Liquids –121°C / 30 minutes or 249.8°F / 30 minutes
Cycles:	4
Operating pressure (minimum):	1.05/2.05bar or 15.23/29.72psi
Voltage / wattage / frequency:	120 v / 1500 w / 60 Hz

The overall cycle time will increase as the mains supply voltage decreases.

## Chamber component materials:

Vessel:	Stainless steel – 304 – S15
Boiler:	Aluminum – LM25
Lid:	Aluminum – ANSI 356 –0
Fuses:	Fuses are located under the cable access panel <b>8</b> on the rear of the unit.



Disconnect the autoclave from the mains power supply before changing fuses.  
Only qualified personnel should replace fuses.



Fuse Type: Only fit slow blow fuses (MDA 15A) or equivalent.  
32 x 6,3 mm (1,25 x 0,25 in)

# 11. Specifications

Rating:	All products are rated for intermittent use, continuously
Heater:	Cast into boiler
Temperature cutout:	Bimetallic type with manual only reset. This operates at 170°C / 338°F
Pressure release valve:	Operates at 2.76 bar or 40psi.
Manufactured to ASME code and UV stamped. Accumulation is ≤ 10%	
Over-voltage category:	Group II
Pollution degree:	Group 2
Insulation:	Class 1
Environmental conditions:	Indoor use at an altitude of up to 2,000 m / 6561.7 ft.
Ambient temperature range + 10°C / 50°F to + 40°C/104°F Maximum relative humidity 80 % for temperatures up to 31°C / 87.8°F, decreasing linearly to 50 % at 40°C / 104°F.	
Power supply voltage range 99 to 132 volts (120 v)	

## 12. Pressure Vessel Certificate of Compliance



### Declaration of Compliance – SciCan Corporation

This hereby certifies that the design, construction and testing of the vessel complies with ASME VIII.

**Sterilizer Type:** Transportable AUTOCLAVE

**Vessel Description:** Boiler / Receiver – Electrically heated, self generating autoclave.  
Approximate internal dimensions – 320 x 247 mm

**Manufacture:** Year of Manufacturer – see serial number on back of unit  
Manufacturer – BI Group  
Design Organization – BI Group  
Inspecting Authority Approving Design – Royal & Sun-Alliance  
Reference of Inspecting Authority Approval: SS983212 / 1 / CET  
Inspecting Authority Verifying QC System – BSI  
Design Pressure (Max) – 2.76 Bar  
Design Temperature (Max) – 141.0°C

**Post-Weld heat treatment is not applicable**

### Hydrostatic Pressure Test:

Location: Assembly Area  
Test Pressure: 4.6 Bar  
Test Medium & temp: water – 20°C Typical

SciCan, A Division of Lux & Zwingenberger,  
1440 Don Mills Rd., Toronto, ON, M3B3P9  
Tel: (416) 446-2706, Fax: (416) 445-2727.