Using the Priorclave Sterilizer

Updated June 29, 2022 by Jonathan Karty
Order of Operations the Autoclave

- Log your usage
- Open door (if door latched, see pages 9-11)
- Place load into autoclave
- Close autoclave door fully (see page 7)
- Select the cycle (1-5, see page 5)
- Press start
- When cycle finishes and temp < 80 °C, press “Door”
- Wait ~20 seconds and press “Door” again after 2\textsuperscript{nd} beep
- Raise handle (see page 9)
- Remove items
- Push door mostly shut (leave a few centimeters gap)
Loading Capacities

- **All loads should be placed in a watertight autoclave tray**
- Up to 21 1 L flasks
  - Vented stoppers or closures
- 2 large waste bags
  - Waste bags should have a fist sized hole to permit steam penetration and limit expansion during heating
- If flasks or waste bags are too tall, the interior gridded shelf can be pulled out
  - Please put shelf back in when finished
Control Panel Details

1. Door Button & Indicator
2. Cycle Progress Display
3. Vent Button & Indicator
4. Start Button & Indicator
5. Option Setting Buttons & Indicators
6. Temperature Display & Setting Buttons
7. Time Display & Setting Buttons
8. Program Buttons & Indicators (Optional)
9. Printer (Optional)
10. Setting Lock Keyswitch (Optional)
11. Thermal Lock Keyswitch
12. Hidden ‘till lit fault display

Full manual may be found on the A617 [website].
**Autoclave Cycles**

- 1. 30 minute liquid cycle (~2 hrs)
- 2. 30 min gravity with vacuum dry (glassware/tools, ~1.25 hrs)
- 3. 30 min gravity without vacuum dry (waste, ~1.25 hrs)
- 4. 45 minute liquid cycle (~2.5 hrs)
- 5. 60 min liquid cycle (~2.75 hrs)

*all sterilization is done @ 121.1 C and ~1 atm of steam pressure*
Cycle Indicator Lights

- Pre-Cycle Vacuum (if fitted and selected)
- Heat-up to freesteam temperature
- Freesteaming
- Heat-up to Process Temperature
- Process Time
- Cooling
- Media Warming in Operation (if selected)
- Cycle Complete
Closing the Door

- Remember to let the spring release (b) and pop out when closing
- Leave the door open a few cm when not in use
- Watch the video for detailed information

Handle pushed past safety lock

Door fully closed, ready for use
To Run a Cycle

- Load material into autoclave
- Close the door and push the handle down to the safety lock position
- Pull the handle to the right and push down hard
  - This pulls the door tight and engages the safety mechanism
- Push the handle down to the fully closed position
- If you need to reopen the door before starting a cycle you must go through the full “Opening Door at the End of a Cycle” procedure
- Push the on the right side of the panel for the cycle you want
- Push “Start”
  - Note, autoclave will take ~15-30 minutes to reach operating temperature.
Opening the Door

- When not in use, leave the door in Safety Lock position, not fully locked position (d)
- Watch the video for opening procedures
- [Link to Video](https://indiana-my.sharepoint.com/:f:/g/personal/jkarty_iu_edu/Ek4UYs2S4xpNhGeMU1nLo4oB580hKEl2wHyvbxU5BcZiQ?e=v8U8Ty) or copy and paste text below

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Safety Lock Position

> Fully Open

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- [Link to Video](https://indiana-my.sharepoint.com/:f:/g/personal/jkarty_iu_edu/Ek4UYs2S4xpNhGeMU1nLo4oB580hKEl2wHyvbxU5BcZiQ?e=v8U8Ty), watch autoclave_use_video.mp4.
Opening Door at the End of a Cycle

- When cycle is complete, light on “Vent” button will come on
- Push “Door” button and wait 30 seconds for the loud beep
- Push “Door” button again and raise the door handle to the Safety Lock position
- Push handle in to get past the safety lock and raise handle all the way up to open the door
- Remove items
- Leave door open a few centimeters
Opening the Door from Safety Lock Position

- The “Safety Lock” position is when the handle is about 2/3 of the way up
- Vent light must be lit to open door
  - If it is not lit, push “Door” button and wait for the loud beep
- Push the handle in and raise it the rest of the way to open the door
  - This may take a lot of force. Push hard.
- To leave autoclave ready for the next person, leave the door open a few centimeters.
4 L flask loading capacity illustration
1 L flask loading capacity illustration
Waste loading capacity illustration