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
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
- Freesteam
- 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

Diagram:

- a) Door unlocked Position
- b) Spring Release
- c) lock
- d) Push in
- e) Door Locked Position

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 or copy and paste text below

https://indiana-my.sharepoint.com/:f:/g/personal/jkarty_iu_edu/Ek4UYs2S4xpNhGeMU1nLo4oB580hKElw2HyyvbXUS8rhhQ?e=v8U8Ty, watch autoclave_use_video.mp4.

Safety Lock Position

→

Fully Open

←
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