

# PHO<sub>2</sub>X BOX FAQ'S

**BAKER** RUSKINN

Topic	Answer
How many Cell Culture Chambers can I connect to 1 Gas Controller?	1 Gas Controller can control 1 Cell Culture Chamber at a time.
Can I stack a Cell Culture Chamber directly on top of another one?	Yes you can.
How do I introduce humidity to the chamber?	For added humidity Aquasorb sachets can be installed. They allow up to 100% RH.
What kind of hypoxia experiments can I do in a PhO <sub>2</sub> x Box?	It is especially suitable for short term hypoxia experiments where no media change or splitting of cells is needed.
Can I put the Culture Chamber into a CO <sub>2</sub> incubator? How?	Yes you can. The Gas Controller is left outside and the Cell Culture Chamber is placed inside the incubator. The tubing goes into the incubator through an inlet.
Can I put the PhO <sub>2</sub> x Box into another workstation, if so how?	Yes you can. This is done the same way as you would put it inside an incubator.
Does opening the PhO <sub>2</sub> x Box Cell Culture Chamber inside a workstation change the host atmosphere?	As it is much smaller volume it will not change the host atmosphere.
How much gas do I use to reach 5% O <sub>2</sub> /5% CO <sub>2</sub> ?	N <sub>2</sub> 31 litres / CO <sub>2</sub> 2 litres.
How long does it take to get to 5% O <sub>2</sub> / 5% CO <sub>2</sub> ?	About 10 minutes.
How much gas will I use for a 12/24/36 hour experiment at 5% O <sub>2</sub> / 5% CO <sub>2</sub> ?	N <sub>2</sub> <10 litres / CO <sub>2</sub> <5 litres per 12 hours.

Can I connect a compressed air or O <sub>2</sub> cylinder to this version?	There is no need for an O <sub>2</sub> or Compressed Air cylinder! The Gas Controller draws air in through the rear of the Gas Controller.
How often do I change the Aquasorb sachet?	The sachets can be 're-hydrated' multiple times and are capable of continuous use for a number of months if kept clean. It is up to the end user to decide on the frequency of replacement but we recommend every month or two to change the sachet. Additional sachets can be purchased from Baker Ruskinn or your local distributor.
Can I use a petri dish with distilled water for humidity generation?	Yes.
What happens if I get droplets of water forming on the inside of the Cell Culture Chamber?	Water condensation can be removed by wiping the interior with a soft lint-free cloth
How often do I change the Detox sachet?	The detox sachet should be changed annually, replacement detox sachets can be purchased from your local sales representative.
How quickly does PhO <sub>2</sub> X Box recover from a door opening for both CO <sub>2</sub> % and O <sub>2</sub> %? Small and large chamber?	@5%O <sub>2</sub> /5% CO <sub>2</sub> – 30 second door opening, recovery time = 9 mins / 5 mins door opening, recovery time 11 mins.
How many 6/12/24/96 well plates can I fit inside a small and a large chamber?	Small Chamber: 8 plates (4 stacks of 2 plates each on single shelf).  Large Chamber: 24 plates (4 stacks of 2 plates per shelf, 3 shelves).

How do I clean the Cell Culture Chamber?

**Use the following cleaning agents:**

- Ethanol, laboratory grade at a maximum concentration of 70% by volume ethanol in distilled water.
- Isopropanol, laboratory grade at a maximum concentration of 70% by volume Isopropanol in distilled water.
- Tristel Fuse Sachet, 1 sachet diluted in 3 litres of distilled water, or Tristel Duo Foamer. Tristel Fuse Sachets and Duo Foamer are available from Ruskinn Technology Limited.
- Ruskinn Technology Limited anti-static cleaner.
- Distilled or de-ionised water.

**After each use:**

- Remove all waste materials from the workstation chamber(s).
- Wipe the workstation chamber floor tray(s) using paper towels soaked an appropriate cleaning agent and squeezed to remove excess fluid.
- Wipe the workstation chamber floor tray(s) clean using paper towels to dry.

What do I need to do to the Gas Controller in between 4 year servicing?

Nothing but please note there is a 2 year warranty on all parts.

If my Gas Controller has a fault, do I need to call an engineer to fix the Gas Controller or will you replace it? Who supports me?

Please contact your local sales representative.

Do I need a separate incubator for PhO<sub>2</sub>x Box?

If your experiment requires incubated conditions then yes as PB is not incubated but if room temperature is enough it can well be used on benchtop.

Can the shelves be moved or removed?

Shelves can be removed from the Small and the Large Cell Culture Chambers.

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