

Thermo Scientific Nunc Cell Factories for Active Gassing

Instructions for use: AGCF4, AGCF10, and AGCF40



1 Unpack the Nunc™ Cell Factory and place it in a laminar air flow cabinet in order to work in sterile conditions.



2 Prepare cell suspension in an aspirator bottle, mount with sterile connector and clamp.



3 Remove the blue cover cap. Avoid touching the grey port.



4 Immediately insert the connector. Avoid touching the grey port.



5 Turn Cell Factory on its side with filter upwards and filling port downwards. Raise aspirator bottle above Cell Factory level.



6 Gently agitate aspirator bottle. Loosen clamp and cell suspension will flow into the Cell Factory. Chambers will initially fill unevenly, but will level when the flow stops.



7 After media leveling out, turn the Cell Factory 90°, so that filling port and filter are up. Medium will be separated with equal amounts in each chamber.

Repeat Steps 6 and 7 if uneven media distribution.



8 Tilt the Cell Factory towards horizontal position.

Note: The tilted position is ideal if transporting the filled Cell Factory at any time.

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Place the Cell Factory gently in horizontal incubation position. The surface of all the trays will be covered by medium.



Remove the connector and replace with pre-sterilized connector with filter.



Mount the tubing from gas-exchange unit to the pre-mounted filter.



Control your gas supply during incubation. (e.g. continuous or intermittent). Minimum recommended flowrate:
AGCF4: 0.2 L gas/min
AGCF10: 0.5 L gas/min
AGCF40: 2.0 L gas/min



To empty the Cell Factory, place it above aspirator bottle and the liquid will run out of the Cell Factory.



Tilt the Cell Factory to drain it completely.

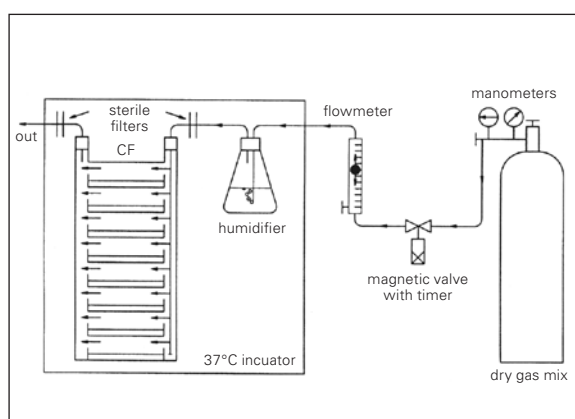


Figure 1

Gas can be supplied from a gas bottle with the desired gas mix. A humidifier can be added between the gas supplier and the AGCF if requested (e.g. during continuous gassing).

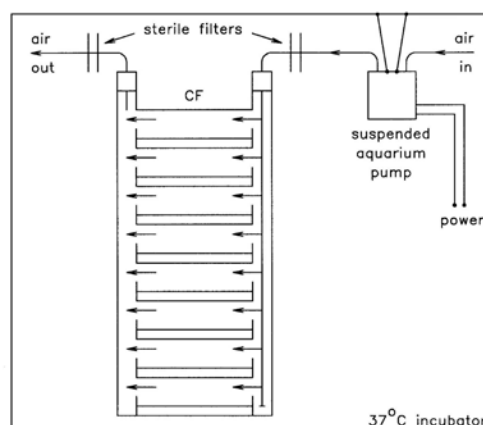


Figure 2

AGCF can be fitted with a membrane pump (aquarium pump) with the recommended gas flow. Let the membrane pump take the air directly from the incubator. The airflow of the pump should be equal with or, higher than recommended flow for the used AGCF.

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