Inspiration Technology Innovation

Advanced mechatronics applications
R&D
Prototyping

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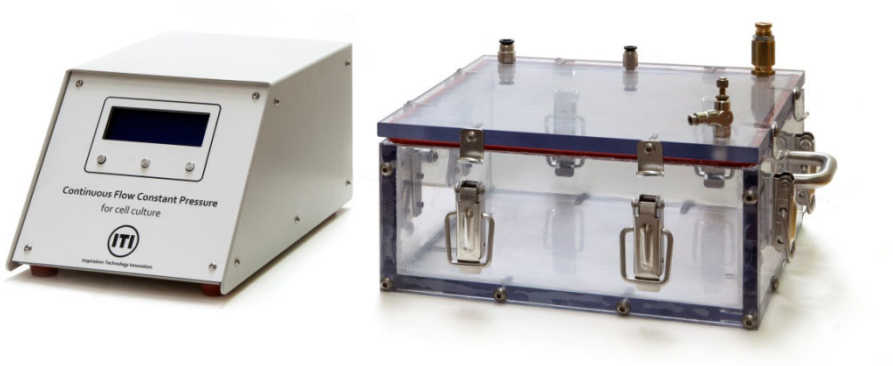
Model: CFCPcc

Continuous Flow Constant Pressure for Cell Culture



What it does?

Cell culture (e.g. Cartilage cells) under user defined constant pressure

What you need?

- A CO_2 incubator with an access port.
- 220/110V power supply.

Characteristics

- ✓ 0 to 150mbar pressure range.
- ✓ 4 x 100mm Petri dish at the same time
- ✓ Durable vessel construction. Polycarbonate and Stainless steel
- ✓ Transparent vessel for culture inspection during process
- ✓ Simple vessel sealing method using latches
- ✓ Simple control unit navigation menu

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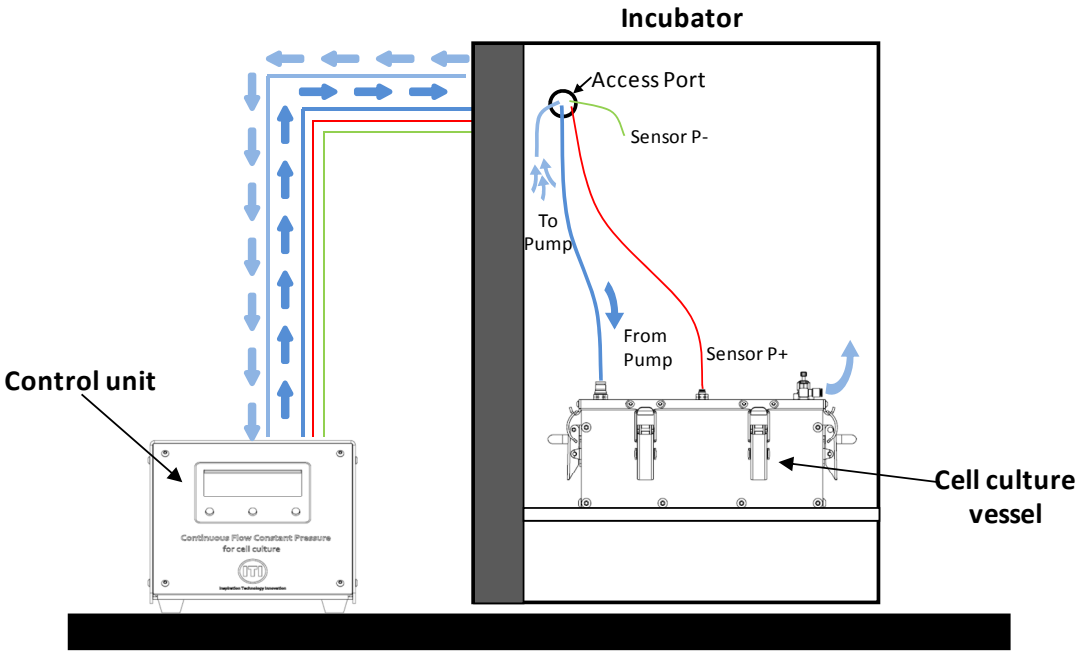
How it works?

The control unit pressurizes the culture vessel using the gas mixture prepared by the incubator, utilizing continuous flow through the culture vessel to maintain the desired temperature, RH and CO_2 level.



Specifications

Pressure Range	0 – 150mbar
Pressure Setting Resolution	1mbar
Pressure Accuracy	±0.4mbar
Flow rate	Manually regulated. Maximum 3 l/min @ 150mbar
Test duration range	0 – 99 hours
Cell Culture vessel material	Polycarbonate with silicon seal and stainless steel bolts and latches
Tubing	4mm and 6mm PE tubing with Push – in fittings
Safety	Overpressure safety valve
Cell Culture vessel capacity	4 x 100mm Petri dish
Max power consumption	5W
Supply voltage	220/110V 50/60Hz
Control box dimensions	250x160x130(mm)
Cell Culture vessel internal dimensions	225x225x90 (mm)
Cell Culture vessel mass	2.5kg
Control box mass	2.5kg