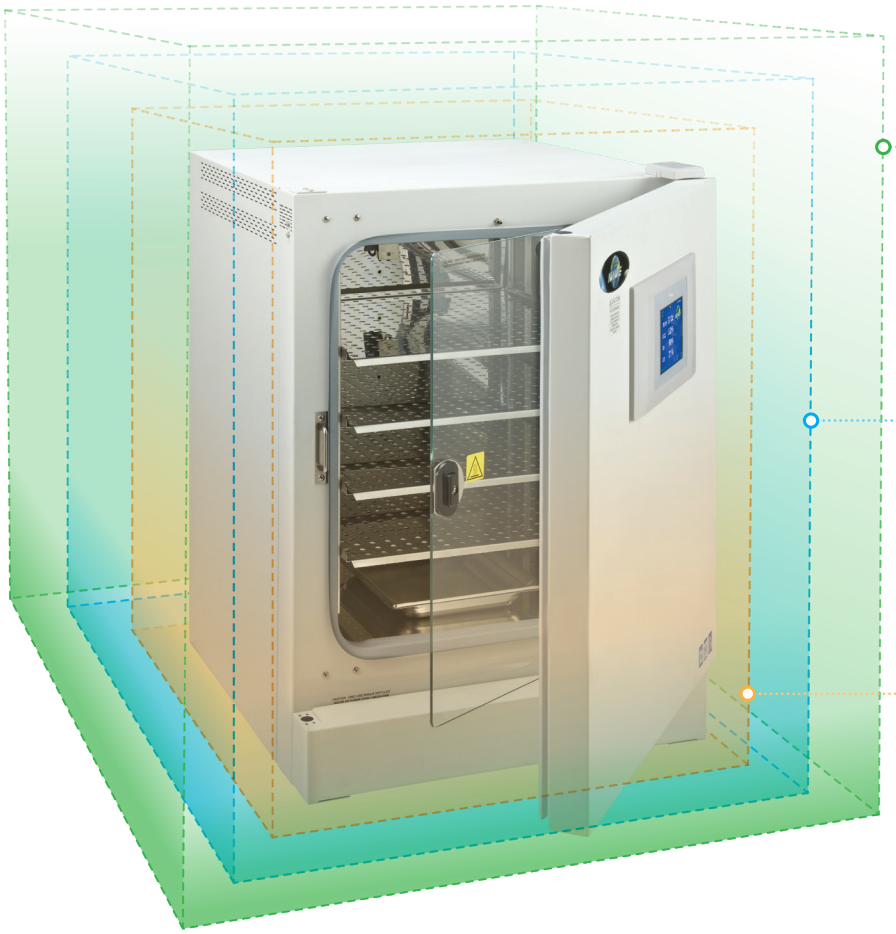
MULTI-LAYERED DEFENSE

AGAINST CULTURE CONTAMINATION

The In-Vitrocell direct heat CO_2 Incubator offers complete CONTROL of the chamber ATMOSPHERE and CONTAMINATION to microbiological cell culture laboratories.

The best defenses are layered. The In-Vitrocell combines layers such as smooth chamber construction and constant HEPA filtration as defensive lines against contamination. A choice of high heat or humidified decontamination cycles on most In-Vitrocell models provides redundant protection against contamination of your cell culture.



STAINLESS STEEL CHAMBER

The incubator chamber is made of stainless steel to make surface decontamination easy.

CLOSED-LOOP HEPA FILTRATION

An air pump circulates existing chamber air through a HEPA filter for constant protection.

HIGH HEAT DECONTAMINATION

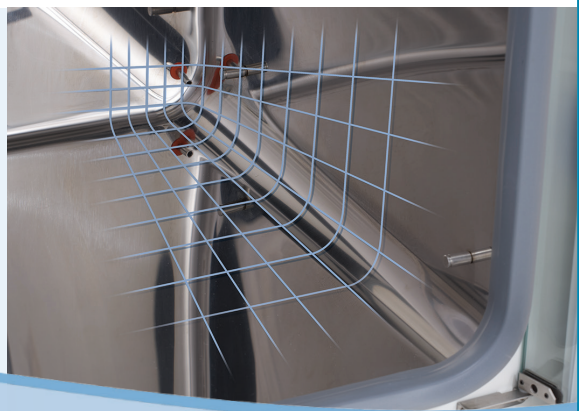
A 145C cycle can be run in only 8 hours while leaving filters and most sensors installed*.

* The RH sensor in the chamber must be removed for decontamination. Decon cycle available on specific models.

Scan for more information

Coved Chamber Corners

The In-Vitrocell uses a smooth, coved corner stainless steel chamber to make wipe down as easy as possible. Filters are located outside the chamber and further help create an easy to clean interior.



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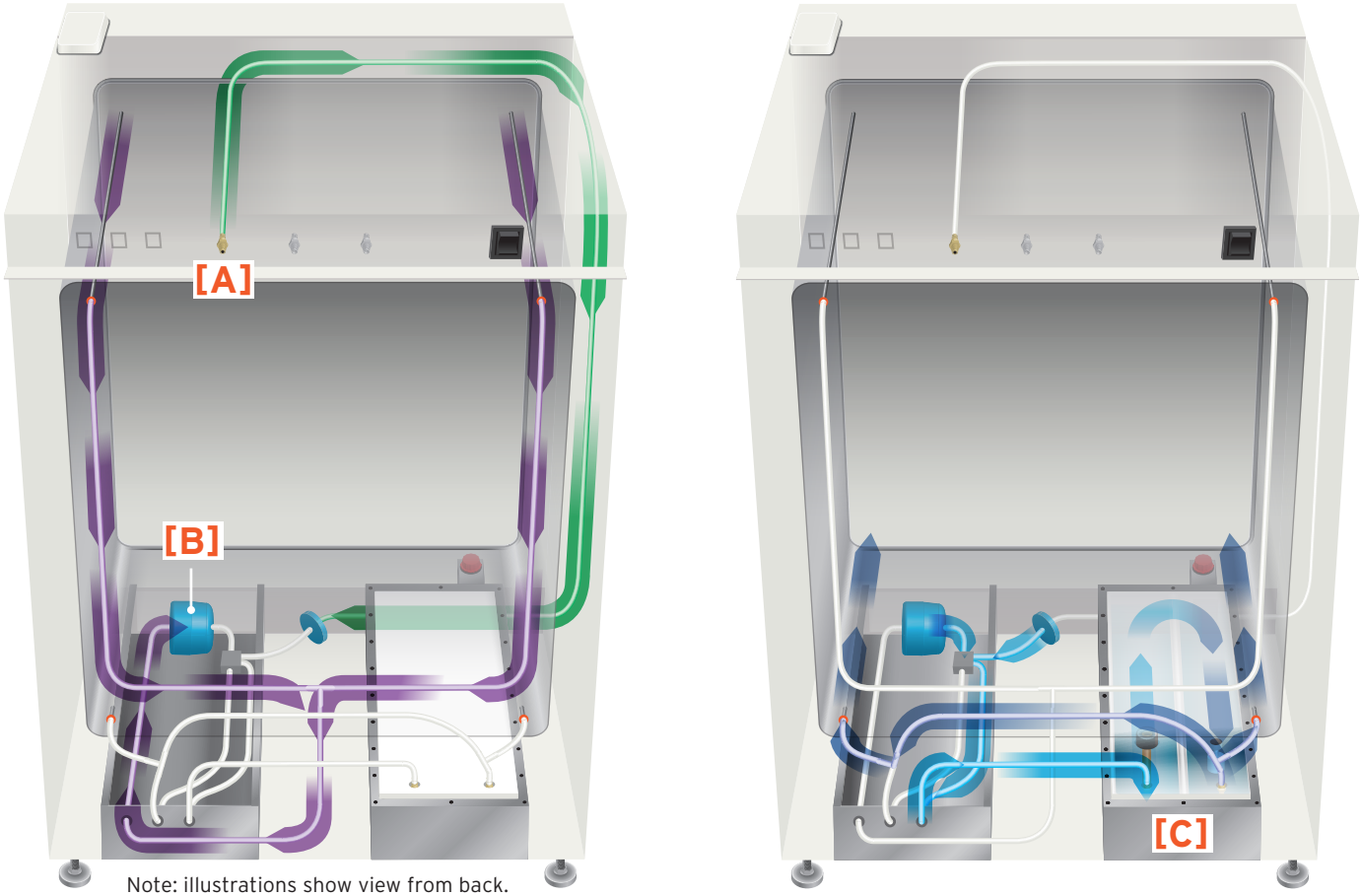
BEHIND THE CURTAIN

HOW AN IN-VITROCELL WORKS



Note: illustrations show view from back.

The In-Vitrocell direct heat incubator routes fresh air and gas through disk filters on the front **[A]** and constantly recirculates existing chamber air through a separate bay located under the chamber **[B]** where a HEPA filter cleans it, and gas sensors measure its CO_2 and O_2 levels. The air is returned to the chamber after passing through a humidity reservoir if more humidity is needed **[C]**.*

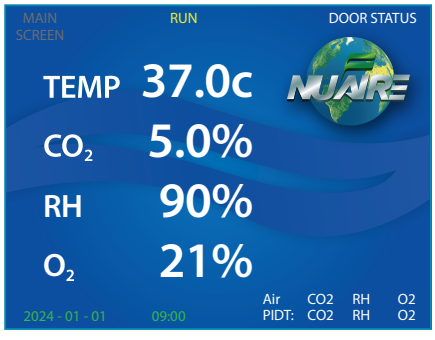
A TOUCH PANEL DISPLAYS MEASURED VALUES OF ALL CONTROLLED CONDITIONS:*

Temperature
Heaters around the chamber, in the door, and around its opening provide uniform heat.

Carbon Dioxide (CO_2)
An infrared CO_2 sensor measures gas levels despite varying temperature and humidity.

Relative Humidity (RH)
Air is routed through a reservoir when the RH sensor detects more moisture is needed.

Oxygen Level
Nitrogen is injected to suppress O_2 levels to setpoint as monitored by a Zirconia sensor.



* Controlled parameters vary by specific model. All 4 parameters shown are controlled by both the NU-5741 and NU-5841 models.

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