

THERMO FORMA HEPA²™ FILTRATION SYSTEM



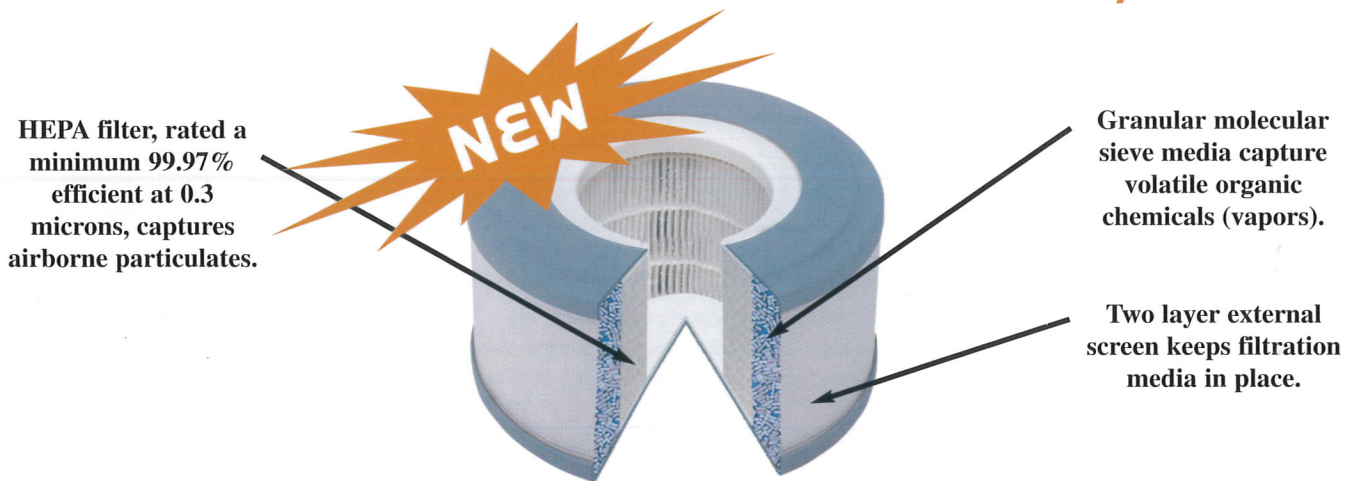
Optional HEPA² Filtration System shown on a Series II Universal Water Jacketed Incubator, which is cleared by the FDA for IVF use

Viability and growth of incubated cells can be affected by multiple contamination sources. Our new, cost-effective HEPA² Filtration System was designed to control the three most common sources of laboratory airborne contamination:

- ▶ General airborne particulates
- ▶ Airborne biological contaminants
- ▶ Volatile organic chemicals/compounds (VOCs)*

The unique HEPA² Filtration System (patent pending) complements our proven Class 100 HEPA airflow technology and enhances the Thermo Forma incubator line. The HEPA² Filtration System can be easily customer installed on any new or the thousands of existing Series II Universal Water Jacketed Incubators, Direct Heat CO₂ Incubators with the HEPA Filter Airflow System option, and Steri-Cycle™ CO₂ Incubators manufactured by Thermo Forma.

CUTTING EDGE VOC AND PARTICULATE REDUCTION TECHNOLOGY



FEATURES AND BENEFITS

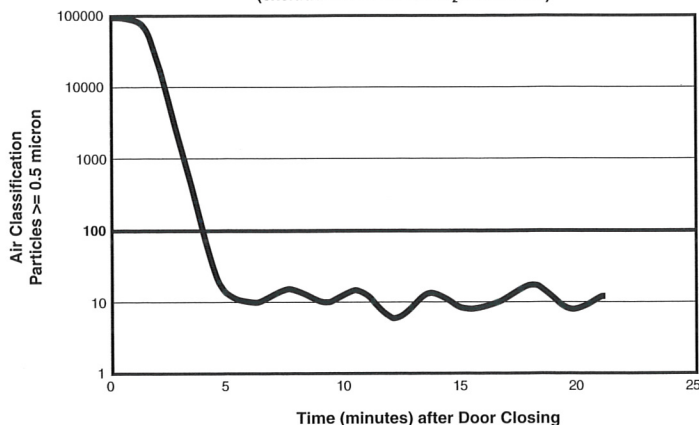
- ▶ HEPA² VOC filtration helps improve the viability and growth of sensitive cell lines or cell types by reducing the levels of airborne particulates, biological contaminants, and potentially toxic environmental chemicals, including the following:
 - Alcohols, such as ethanol and methanol
 - Alkanes, such as decanes, heptanes, and hexanes
 - Aromatics, such as toluene, xylene, benzene, and styrene
 - Olefins, such as cyclohexaneThese chemical vapors are produced by a wide range of commonly used products, including laboratory solvents, cleaning agents, plastics, carpets, glues, personal care products, etc.
- ▶ Molecular sieve media's strong electro-chemical affinity for VOCs allows the HEPA² filter to remove high concentrations of VOCs faster than activated charcoal systems.
- ▶ Low maintenance HEPA² Filtration System works more efficiently than activated charcoal systems in high humidity conditions (such as in a CO₂ incubator), with alternate VOC filter media that resist water absorption even at very high chamber RH.
- ▶ Molecular sieve media last up to six times longer than activated charcoal. Average HEPA² filter life is six months.

*VOCs are carbon containing compounds that readily evaporate (vaporize) at a relatively low temperature (normal air temperature).

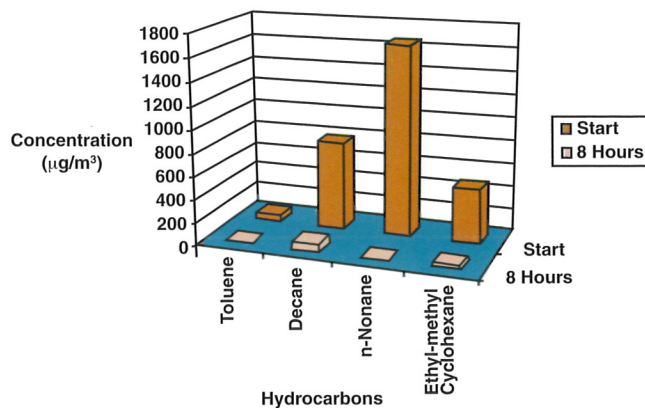
FEATURES AND BENEFITS (continued)

- HEPA² Filtration System provides the same reliable, validatable Class 100 air quality already featured on our Series II Universal Water Jacketed Incubators and Steri-Cycle CO₂ Incubators. With the new filter system in place, Steri-Cycle CO₂ Incubators provide three-way contamination control: airborne particulate filtration (Class 100 air quality), a heat sterilization cycle, and VOC reduction.

HEPA² Particulate Reduction Over Time
(excludes Direct Heat CO₂ Incubators)



HEPA² VOC Reduction Over Time



SPECIFICATIONS

NUMBER	DESCRIPTION
760199	HEPA ² Filtration System, 6.5" (16.5cm) outer diameter and 3.0" (7.6cm) high, HEPA filter rated a minimum 99.97% efficient at 0.3 microns and built-in VOC molecular sieve, Customer Installed
1900094	HEPA ² Filtration System Replacement Kit to convert the HEPA Filter Airflow System in a Thermo Forma Direct Heat CO ₂ Incubator, Steri-Cycle CO ₂ Incubator, and Series II Universal Water Jacketed Incubator to a HEPA ² Filtration System, same as No. 760199 plus an in-line filter and access port filter, Customer Installed

THERMO FORMA INCUBATORS

We offer a complete line of cell culture incubators and environmental chambers to meet a wide variety of research and culturing applications, including IVF. Contact us for complete details. The U.S. Food and Drug Administration (FDA) has cleared Thermo Forma Series II Universal Water Jacketed Incubators (510(k) No. K991408) and Direct Heat CO₂ Incubators (510(k) No. K001524) for *in vitro* fertilization (IVF) use.

Thermo Forma

A Thermo Electron business

P.O. Box 649
Marietta, OH 45750
International Distributors Worldwide
An ISO 9001 Company

740-373-4763
Fax: 740-373-6770
USA and Canada 800-848-3080
www.thermoforma.com

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