ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Thermo / Forma Scientific 3033* at our website: ***Click HERE***

Steri-Cult™ CO_2 Incubators



ThermoForma

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

STERI-CULT™ CO_2 INCUBATORS



Model 3860 (3862)

Reliable, accurate, and simple to operate, Thermo Forma Steri-Cult CO_2 Incubators use proven HEPA filtered, vertical laminar airflow techniques and a filtered external water supply to minimize contamination and desiccation of cultures.

Customer satisfaction with incubator performance and extensive tests in our laboratory have confirmed the design's* success. The effects of various airflow patterns and velocities were measured to determine optimum levels that control unavoidable airborne contamination and provide ideal temperature, CO_2, and humidity conditions to enhance cell growth. Steri-Cult CO_2 Incubators have established a standard of excellence in the demanding area of high volume tissue culture.

FEATURES AND BENEFITS

Stackable Steri-Cult CO_2 Incubators are available in two sizes. Model 3860 (3862) offers 7.4 cu. ft. (209.5 liters) of culturing space. Model 3033 (3035) offers 10.5 cu. ft. (297.3 liters) of usable space.

CO_2 CONTROL

- Fully tested and time-proven infrared (IR) CO_2 technology provides precise control over the 0-20% range.
- Auto-zero function automatically calibrates CO_2, ensuring accuracy.
- CO_2 level is maintained and complicated calibration procedures are eliminated.
- Reliable IR sensor maintains a consistent CO_2 level independent of temperature and humidity.
- Audible/visual alarms indicate CO_2 deviations 1.0% above or below the setpoint. Standard alarm delays avoid "nuisance alarms" during door openings. Audible alarms can be silenced with 30 minute ringback.
- Auto-zero alarm function ensures proper CO_2 calibration.

CABINET CONSTRUCTION

- Superior design of the stainless steel interior provides a crevice-free chamber; there are no folded seams to harbor contamination.
- Exterior cabinet is constructed of heavy gauge cold-rolled steel that is powder coated for durability and a high quality appearance. Salt spray tests exceed 1,000 hours per ASTM Standard 117B-85.
- Removable shelves and ductwork simplify regular cleaning procedures.
- Pull-out stainless steel shelves are fully adjustable on 1.0" (2.5cm) centers to accommodate your choice of cultureware. Ideal shelf size allows easy removal and manipulation of cultures in a biosafety cabinet or clean air bench.
- Valuable lab space is used efficiently as units are designed for stacking without requiring special hardware.
- Heated outer door minimizes condensation on the inner glass door.
- Two inches (5.1cm) of polyurethane insulation provide an R value of 16, and surround the air jacket to reduce heat loss and insulate the chamber from ambient conditions.
- CO_2 sampling port is front-mounted for quick verification.
- Access port is provided through the chamber wall for electrical cords for small shakers, additional probes, or other equipment.
- Sensors, blower, and water reservoir are located outside the chamber to minimize the incidence of hidden contamination.
- Built-in convenience electrical receptacle is provided for powering small equipment.

**U.S. Patents 4,572,427 and 4,701,415*

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

HUMIDITY SUPPLY SYSTEM

- Innovative humidity supply system, located outside the chamber, provides rapid RH recovery. The humidity system is not a vapor generator and has no immersible heater to burn out or to cause scaling.
- Water reservoir for the humidity system is easily filled by way of a port on the outside of the unit.
- Humidity control is user-selectable above ambient for total control over chamber conditions.
- Viewing window allows a visual check of the water level in the humidity system.
- Audible and visual add water alarms indicate when the reservoir needs to be filled. Audible alarm can be silenced with 10 minute ringback.
- Humidity reservoir drain system enables you to drain the water from the reservoir, fill bottle, and water lines.

MICROPROCESSOR CONTROL/MONITORING SYSTEM

- Touchpad keys on RH, CO_2, and Temperature modules facilitate setpoint selection.
- Control panel features Program and Run modes, accessible only with security key to prevent alteration of setpoints.
- Independent modules for temperature/alarm monitor, CO_2, humidity, and temperature control feature LCD digital readout.
- Temperature/alarm monitor features battery back-up and alarm silence with ringback.
- Audible and visual alarms are activated if CO_2 deviates 1.0% or more above or below setpoint.
- Door ajar light protects cultures by warning you to secure the door tightly.
- Relative humidity can be set at desired operating levels, allowing for flexibility in culturing.
- Remote alarm contacts for temperature permit connection into an in-house monitoring system.
- Optional analog recorder output jack connects to remote recorders.
- Nine volt rechargeable battery is provided for back-up of the temperature/alarm system in case of power loss.



Control panel includes Program and Run modes, temperature alarm/monitor panel, and easy-to-view LCD readouts of RH, CO_2, and temperature.

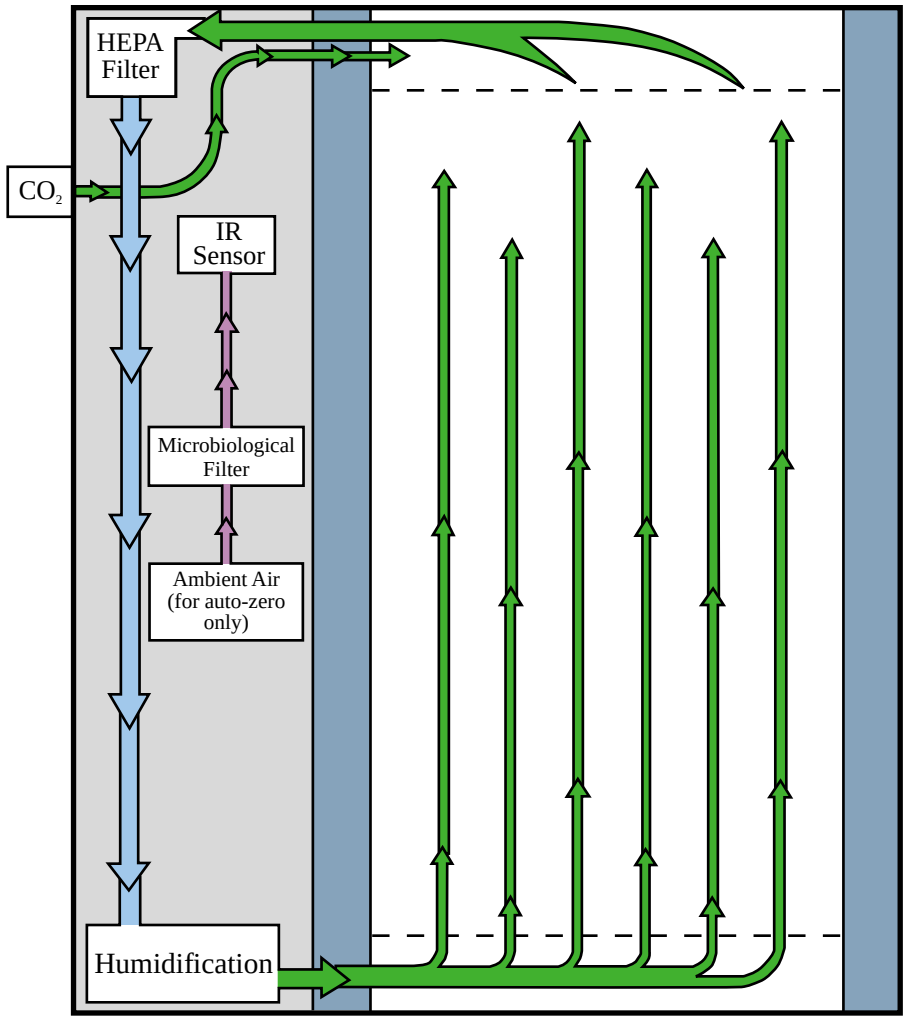
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

UNIQUE AIRFLOW CHARACTERISTICS

Cross contamination and desiccation are virtually eliminated in Steri-Cult CO_2 Incubators. Your cultures are continually protected.

One hundred percent of the recirculated air passes through a HEPA filter, ensuring constant cleaning. The HEPA filter is extremely effective at eliminating airborne spores, molds, fungi, yeast, and mycoplasma.

- Patented, balanced warm air jacket ensures temperature uniformity throughout the chamber and minimizes condensation on the inner door.
- HEPA filter (99.97% retention of 0.3 microns) continually returns contaminant-free air to the chamber atmosphere, protecting the chamber contents.



HEPA filtered air and external humidification protect your product from particulate contamination.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SPECIFICATIONS

Temperature

Control	±0.1C
Range	4C above ambient to 45C (113F)
Sensor	Platinum
Controller	Microprocessor
Setpoint	Digital
Display	Digital LCD
Readability	0.1C
Setability	0.1C
Uniformity	±0.3C @ 37C (98.6F)

Temperature Alarm

Sensor	Platinum
Controller	Independent analog (high and low alarm)
Setpoint	Digital with screwdriver adjust
Display	Audible/visual
Readability	0.1C
Setability	0.1C

CO_2

Control	Better than ±0.1%
CO_2 Range	0-20%
Calibration	Auto-zero
Inlet Pressure	10 PSIG (0.7 bar)
Filter	0.2 micron, disposable
Sensor	IR
Controller	Microprocessor
Setpoint	Digital
Display	Digital LCD
Readability	0.1%
Setability	0.1%
Alarm Differential and Delay	±1.0% (nominal) for approximately 30 minutes

Controlled RH

RH	Ambient to >95% RH @37C (98.6F)
Humidity Control	±2.0%
Sensor	Platinum
Controller	Microprocessor
Setpoint	Digital
Display	Digital LCD
Readability	0.1%
Setability	0.1%
Humidity Reservoir	1.0 gal. (3.8 liters)

Fittings

Fill Port	1/4" FPT
Drain Port	1/4" barbed fitting with valve
Access Port	1.2" (3.0cm) with removable neoprene plug
CO_2 Inlet	1/4" hose (barbed)

Unit Heat Load

120V	720 BTUH (210 Watt)
230V	850 BTUH (250 Watt)

Dimensions

	3860 (3862)
Exterior	32.5"W x 39.5"H x 26.8"F-B (82.6cm x 100.3cm x 68.1cm)
Interior	19.2"W x 33.0"H x 20.3"F-B (48.8cm x 83.8cm x 51.6cm)
	3033 (3035)
Exterior	40.3"W x 39.5"H x 26.8"F-B (102.4cm x 100.3cm x 68.1cm)
Interior	27.2"W x 33.0"H x 20.3"F-B (69.1cm x 83.8cm x 51.6cm)

Shelves

	3860 (3862)
Dimensions	17.8" x 17.8" (45.2cm x 45.2cm)
Construction	Perforated stainless steel, electropolished
Surface Area	2.2 sq. ft. (0.2 sq. m) per shelf
Maximum per Chamber	57.0 sq. ft. (5.3 sq. m)
Standard	5
Maximum	26
Loading	35 lbs. (15.9 kg), slide in and out 50 lbs. (22.7 kg), stationary
	3033 (3035)
Dimensions	25.6" x 19.7" (65.0cm x 50.0cm)
Construction	Perforated stainless steel
Surface Area	3.5 sq. ft. (0.3 sq. m) per shelf
Maximum per Chamber	91.0 sq. ft. (8.4 sq. m)
Standard	6
Maximum	26
Loading	35 lbs. (15.9 kg), slide in and out 50 lbs. (22.7 kg), stationary

Construction

Interior Volume	
3860 (3862)	7.4 cu. ft. (209.5 liters)
3033 (3035)	10.5 cu. ft. (297.3 liters)
Interior	Type 304 2B, stainless steel
Exterior	18 gauge, cold-rolled steel, powder coated
Inner Door	1/4" (0.6cm) fully tempered safety glass with cam action latch
Outer Door Gasket	Four-sided, molded, magnetic vinyl
Inner Door Gasket	Feather, silicone

Electrical

3860	115V, 60 Hz, 6.5 FLA (Operating range 108-125V)
3862	230V, 50 Hz, 3.7 FLA (Operating range 207-253V)
3033	115V, 60 Hz, 7.0 FLA (Operating range 108-125V)
3035	230V, 50 Hz, 4.0 FLA (Operating range 207-253V)
Power Switch	2 Pole
Plug	NEMA 5-15P (3860, 3033), CEE 7/7 (3862, 3035)
Convenience Receptacle	120V (40 Watt maximum), NEMA 5-15R
Remote Alarm Contacts	Overtemperature, accessed using RJ11 jack on rear of unit
Data Output	10 millivolts per unit temperature, humidity, CO_2

Weight	**3860**	**3033**
Net	270 lbs. (122.5 kg)	380 lbs. (172.4 kg)
	3862	**3035**
	280 lbs. (127.0 kg)	390 lbs. (176.9 kg)
Shipping (Motor)	350 lbs. (158.8 kg)	430 lbs. (195.0 kg)

Continuing research and improvements may result in specification changes at any time.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

ACCESSORIES

Dollies and Floor Stand (Customer Installed) –

1900024 Caster Dolly for Model 3033 (3035), includes four 2.0"H (5.1cm) swivel casters and two front adjustable levelers, supports one or two (stacked) incubators, 40.2"W x 3.0"H x 31.3"F-B (102.1cm x 7.6cm x 79.5cm)

1900025 Securing Bracket (now included with each Steri-Cult CO_2 Incubator); used when stacking incubators on the floor and when placing one or two incubators on Caster Dolly No. 1900024, Caster Dolly No. 1900026, or Floor Stand No. 1900027

1900026 Caster Dolly for Model 3860 (3862), includes four 2.0"H (5.1cm) swivel casters and two front adjustable levelers, supports one or two (stacked) incubators, 32.2"W x 3.0"H x 31.3"F-B (81.8cm x 7.6cm x 79.5cm)

1900027 Floor Stand for Models 3033 (3035) and 3860 (3862), used to stack incubators, includes two attached shelves and four 3.0"H (7.6cm) locking swivel casters, 45.0"W x 49.3"H x 31.0"F-B (114.3cm x 125.2cm x 78.7cm)

Filters (Customer Installed) –

760045 HEPA Filter Assembly, includes HEPA filter rated a minimum 99.97% efficient at 0.3 microns

770001 Microbiological Gas Filter, rated a minimum 99.97% efficient at 0.3 microns

Shelves (Customer Installed)

224136 Stainless Steel Shelf Kit for Model 3033 (3035), includes shelf and shelf channels

224144 Copper Shelf for Model 3860 (3862)

224145 Electropolished Shelf Kit for Model 3860 (3862), includes shelf and shelf channels

224159 Electropolished Shelf Kit for Model 3033 (3035), includes shelf and shelf channels



Monitor/alarm system

1535 **Monitor/Alarm System –** Customer installed system interfaces with as many as 24 products (channels) to monitor equipment conditions up to 2,000 ft. (609.6 m) away.

Receptacles (Factory Installed) –

190035 120V Duplex Receptacle for Model 3033 and 3860, on interior rear wall, accepts NEMA 5-15P Plug (voids UL Listing)

190036 230V Duplex Receptacle for Model 3035 and 3862, on interior rear wall, accepts CEE 7 Plug



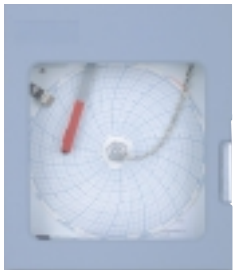
Sensaphone

Sensaphone® Telephone Dialing System – Customer installed system interfaces with any standard touch-tone phone system to provide remote monitoring of equipment.

400047 Accommodates up to four input channels

400134 Accommodates up to eight input channels

965010 **Two Stage Gas Regulator/CO_2 –** With barbed connection and shut-off valve



Recorder

6", 7 Day Circular Chart Recorders – We offer a complete selection of customer installed, 0C to 60C (32F to 140F), single and dual pen circular chart recorders for Steri-Cult CO_2 Incubators. Contact our Sales Support Department for complete details.

201155 Single Pen, 120V

201156 Single Pen, 220V

201157 Dual Pen, 120V, 2 Probes, Temp/Temp (for stacked incubators)

201158 Dual Pen, 220V, 2 Probes, Temp/Temp (for stacked incubators)

201159 Dual Pen, 120V, 1 Probe, Temp/RH

201160 Dual Pen, 220V, 1 Probe, Temp/RH

6003033 **Installation and Operational Qualifications (IQ/OQ) –** Printed copies and an MS Windows® compatible document disk for easy process customization and fully detailed checklists to qualify unit setup and operation

We also will manufacture custom accessories to meet your specific requirements. Contact us for details.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

LEADER IN QUALITY AND SAFETY

For your personal safety and product protection, our Steri-Cult CO_2 Incubators are manufactured to conform with our Continual Improvement guidelines. Our commitment to you is reinforced by our adherence to known quality standards.

ISO 9001: A COMMITMENT TO EXCELLENCE

As an innovative, global leader, we continue the pursuit of excellence by maintaining ISO 9001 registration. This advanced quality system reinforces our commitment to provide the highest quality products available. The ISO 9000 series is a set of international requirements for establishing and maintaining quality management systems. Continued compliance is assured by ongoing internal audits and periodic audits by the assessing agency. We are proud to be ISO 9001 registered.

UL LISTING, CSA CERTIFICATION, AND THE CE MARK

UL Listing, CSA Certification, and the CE Mark attest to the electrical and mechanical safety of our incubators. Unit construction and electrical characteristics comply with Underwriters Laboratories, CSA International, and International Electrotechnical Commission requirements. Our Steri-Cult CO_2 Incubators undergo stringent testing before they carry the UL, CSA, and CE markings. Application of the CE Mark also means that our Steri-Cult CO_2 Incubators have been tested for compliance with international requirements related to emission of, and susceptibility to, RF energy and electrostatic discharge. Copies of UL, CSA, and CE documentation are available for compliance verification.

WARRANTY PROTECTION

We confidently back our Steri-Cult CO_2 Incubators with a full one year parts and labor warranty. The CO_2 gas sensor (IR) is covered by a two year warranty. Call our Technical Service Department or your local international distributor for details.

DIRECT SERVICE SYSTEM: UNMATCHED SERVICE FOUR WAYS

- To save you both time and expense, our toll-free Technical Service Department (888-213-1790) provides access to qualified telephone technicians who can help you troubleshoot and make adjustments to your Thermo Forma equipment. In an ongoing effort to better serve you, our Technical Service Department and our Sales Support Department (800-848-3080) are available from 8:00 a.m. to 6:30 p.m. (ET). International customers can call 740-373-4763 for Sales Support from 8:00 a.m. to 4:30 p.m. (ET) and for Service Support from 8:00 a.m. to 6:30 p.m. (ET).

- For added coverage, we offer an Extended Warranty to repair or replace component parts proven to be non-conforming once the original warranty period has ended. For additional convenience, we also provide Preventive Maintenance Agreements. Contact our Technical Service Department for details.

- A staff of Thermo Forma direct factory-trained service technicians is maintained in major metropolitan areas of the United States. In all other areas, service needs are provided by factory-trained service organizations.

- Outside the U.S., service and warranty work are available through our distributors who are authorized to work on Thermo Forma products. Contact your local distributor for details.

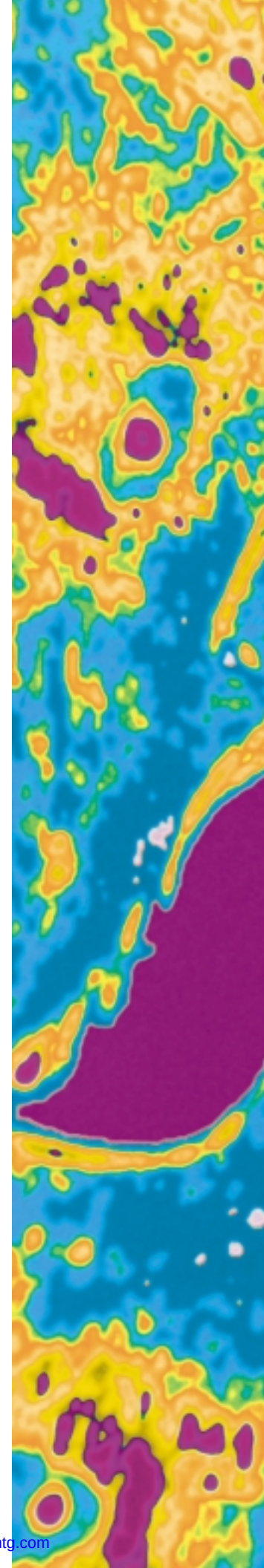
OTHER THERMO FORMA INCUBATORS

In addition to our line of Steri-Cult CO_2 Incubators, we offer a complete line of cell culture incubators and environmental chambers to meet a wide variety of research and culturing applications. Contact us for complete details.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

We offer the following products:

- Cell Culture Incubators
- *In Vitro* Fertilization (IVF) Incubators
- Environmental Chambers
- Ultra-Low Temperature Freezers
- Laminar Airflow Equipment
- Biological Safety Cabinets
- Cryopreservation Equipment
- Blood Bank Equipment
- Orbital Shakers
- Monitor/Alarm System
- Programmable Centrifuges
- Lab Washers and Dryers
- Lab Refrigerators
- Lab Freezers
- Chromatography Refrigerators
- Custom-Designed Equipment



ThermoForma

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP