

# **Designed to achieve**

your next breakthrough



# Designed to achieve your next breakthrough

The Thermo Scientific™ Forma™ Steri-Cycle i160 CO₂ incubator series represents a new era in advanced incubator design for sensitive cultures like stem and primary cells in leading research, pharmaceutical and clinical applications.

Through a holistic approach to culturing, our newest incubator series provides everything necessary for your most demanding and highly critical applications. By combining our latest technology advancements in contamination control and uniform growth conditions with existing proven and reliable features, you are now able to achieve your goals faster, more reliably, and with less effort.

#### Better solutions for optimal cell growth

Revolutionary THRIVE™ active airflow technology delivers homogeneous growth conditions fast, avoiding unwanted sample variation.

#### **Complete contamination control**

Proven protection from every direction including ISO class 5 HEPA filtered air, on-demand high-temperature sterilization, and easy to maintain copper.

#### **Enhanced simplicity**

Designed to focus on convenience, allowing you to spend more time on your research and less time managing your incubator.

The Forma Steri-Cycle i160 CO<sub>2</sub> incubator delivers the performance reliability, ease of operation, and value required to support a range of culturing needs from basic research to demanding, leading-edge applications, so you're ready for whatever comes next!



### A direct heat CO<sub>2</sub> incubator that better supports you and your science.



- 165L (5.8 cu ft) in a compact foot print, readily stackable
- Choice of electropolished stainless steel or 100% pure copper
- Adjustable, perforated shelving
- Easy-to-clean, coved corners with convenient access port
- Reversible exterior door for added flexibility
- 2 year parts and labor warranty

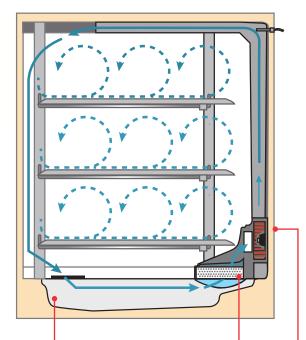
### Better solutions for

# optimal cell growth

The Forma Steri-Cycle i160 incorporates THRIVE active airflow technology, providing faster recovery and uniformity for consistent results. Your cells experience total recovery of all critical growth parameters in **less than 10 minutes following a door opening.\*** 

# Innovative THRIVE active airflow technology

In-chamber fan gently and evenly distributes clean, humidified air throughout the chamber ensuring all cells experience the same conditions without the threat of desiccation.



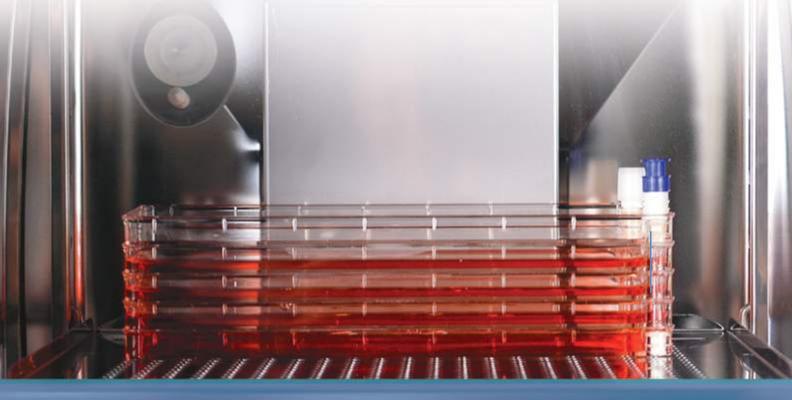
Incoming air first travels over a direct heated water reservoir resulting in 50% faster humidity recovery than with a standard water pan design.\*\*

The in-line HEPA filter cleans the airstream of microbes and particles protecting cultures from contamination.

The precise, variable speed fan with an auto-stop function disables fan operation during door openings to minimize air exchange. Once the door is closed, the fan temporarily accelerates for quick recovery.

<sup>\*</sup> Based on internal testing standards for a 30 second door opening, recovery time calculated to 98% of starting value for temperature and CO<sub>2</sub> and 95% of starting value for humidity

<sup>\*\*</sup>Comparison of internal testing data to published specifications



### optimal cell growth



# Advanced in situ sensor technology

Probes and gas sensors are positioned in the chamber to respond quickly to any deviations in desired conditions

- Robust design allows maintenance-free, in situ location, eliminating the need for removal during sterilization and separate cleaning and handling activities
- New! Dual temperature probes with PID controller provide over temperature protection by preventing overshoot during recovery; temperatures recover under 5 minutes\*
- Oxygen controlled models are equipped with advanced Zirconium oxide sensors, enabling a choice of control ranges 1-21% (hypoxic) and 5-90% (hyperoxic)
- On-demand auto-start facilitates easy start-up and calibration

Save valuable incubator space with Thermo Scientific Nunc EasyFill Cell Factory systems.

www.thermoscientific.com/easyfill

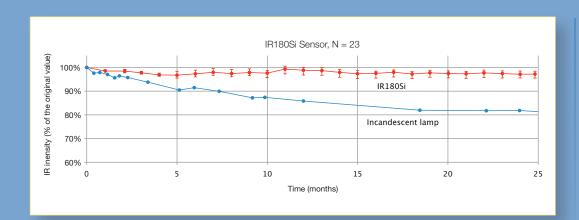
<sup>\*</sup> Temperature recovery time calculated to 98% of starting value, based on internal testing standards of a 30 second door opening

# Choice of accurate and reliable CO, sensor technology

#### Temperature resistant, bulb-free IR CO<sub>2</sub> sensor with MEMS emitter technology

New temperature resistant IR180Si infrared CO<sub>2</sub> sensor replaces the traditional incandescent IR light source with silicon MEMS emitter technology that improves stability and reliable service life. This sensor is ideal for labs looking for the best of both technologies for advanced, high volume, or value culturing.

- Internal auto-calibration eliminates drift due to changes in ambient conditions that can affect traditional IR sensors
- IR180Si CO<sub>2</sub> measurement not affected by changes in temperature, humidity, oxygen, or barometric pressure \*\*
- Highly responsive with recovery under 5 minutes from door openings



A traditional IR sensor contains an incandescent bulb that puts out less light as it ages, resulting in sensor drift. The IR180Si eliminates this problem. Our silicon MEMS emitter is designed to retain intensity over time, lasting up to 50% longer than ordinary IR sensors.

### Innovative TC sensor solution

The NEW TC180 offers the performance advantages of traditional IR technologies without the limiting lifespan of a standard incandescent bulb. This sensor is ideal for everyday cell culture applications.

- Improved stability with internal humidity compensation minimizing drift between calibrations
- CO<sub>2</sub> values unaffected by changes in humidity, enabling fast recovery from a routine door opening
- Economical, long service life

TC180 – CO<sub>2</sub> recovery under 6 minutes from a door opening of 30 seconds.

Door opening

CO2 check with TC
CO2 value

CO2 value

To co2 value

To co2 value

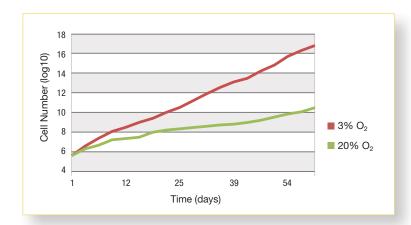
<sup>\*</sup>CO<sub>2</sub> recovery time calculated to 98% of starting value, based on internal testing standards of a 30 second door opening

<sup>\*\*</sup>Information cited based on sensor manufacturer's data

## Added culturing flexibility with variable oxygen control

Many cell types thrive best in CO<sub>2</sub> incubators with reduced oxygen. Culturing cells at lower oxygen concentration will better simulate physiological conditions, resulting in cell behaviors that are more predictive of the *in vivo* environment.

Our variable oxygen control (or "tri-gas") incubators will generate conditions to help your cells grow faster and healthier. With the Forma Steri-Cycle i160 incubator, you can select the incubator for your  $O_2$  range: simulate hypoxic (1-21%) environments for primary cell, stem cell and embryo culturing applications, or hyperoxic (5-90%) conditions for research in lung, retina and other sensitive tissues.



# Primary Cell Growth in Atmospheric and Physiological Oxygen

Cells cultured in low oxygen (hypoxia) will generally grow faster, live longer, and show lower stress.

Adapted from Parrinello et al. Nature Cell Biology 2003.

With segmented inner doors, accessing separate sections of the incubator is convenient, minimizing recovery time and contamination risk.

"Our lab mandates this [5% oxygen in the tri-gas incubator] in order to mimic conditions in the body, so that cells are as close to those conditions as possible and nothing is different. All of the signals for proper epigenetics are there."

Stem cell researcher at biomedical research institute





### optimal cell growth

# Exclusive condensation free humidification system

Our unique integral covered humidity reservoir maximizes relative humidity without condensation ensuring a dry inner chamber, preventing a breeding ground for contaminants.

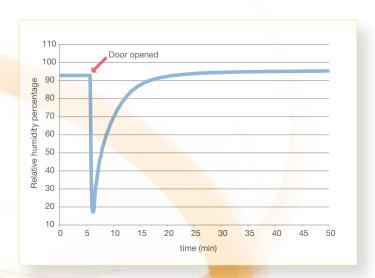
- Providing stable, high relative humidity levels, the integrated 3 liter reservoir allows more space for samples than standard pan designs
- The reservoir cover eliminates standing water in the culture area while limiting particles and spilled media from settling into the reservoir
- Water level is continuously monitored and displayed on the Thermo Scientific iCAN™ touchscreen with advanced notice of refill needed
- Humidity reservoir may be filled without removing shelves or cultures and is easily drained through built-in copper drain
- CO<sub>2</sub> and optional N<sub>2</sub>/O<sub>2</sub> gases are pre-humidified before entering the chamber, providing a more constant, uniform environment

Evaporation is 4X faster at 80% than at > 93% humidity\*. Maximum humidity with rapid recovery is critical to limit water evaporation from media that results in toxic concentrations.

\*Esser, P and Weitzmann, L. Evaporation From Cell Culture Plates. Thermo Scientific 2011, TILSPNUNCBU02 0111

Directly heated reservoir boosts 5X faster recovery than removable pan designs.

Relative humidity recovery is less than 10 minutes with 30 second door opening.\*



# Complete contamination control Protect your cultures with proven technologies

Our advanced contamination control technologies are designed to protect your valuable cultures, eliminate the loss of time and resources while providing convenient added security for your research work.

"Normal" indoor air contains 30-700 microorganisms/m3.\*

Normal flora on our skin equals 10,000 microorganism/cm.\*\* These can enter your incubator during routine access.

Forma Steri-Cycle i160 incubators deliver the latest innovations in contamination control technologies that protect the incubator air, surfaces and humidification water. Cultures are continuously protected 24/7, and convenient on-demand high temperature sterilization offers simplified cleaning protocols.

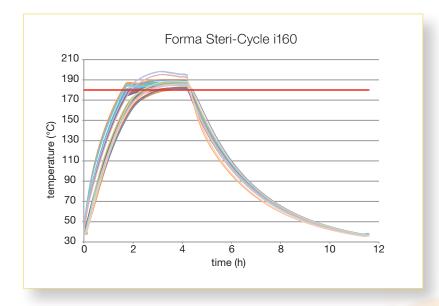


<sup>\*</sup> Stryjakowska-Sekulska et al. 2007.

# High-temperature sterilization with push button simplicity

Our exclusive Thermo Scientific Steri-Run<sup>™</sup> high temperature sterilization cycle simplifies cleaning and eliminates the need for separate autoclaving of parts. With the push of a button, the simple overnight routine provides fast disinfection of all surfaces in your incubator chamber.

- Fully automatic 180°C cycle assures uniform 6-log sterilization on all chamber surfaces
- Laboratory tests support the ability of high temperature to eradicate biological contaminants including fungal mold, vegetative and spore forms of bacteria, including mycoplasma
- Avoids the physical constraints and variation associated with UV germicidal lamps and the ongoing costs, handling and storage of potentially toxic germicides



The U.S. and E.U.
Pharmacopeias no longer
recommend a given
temperature and time for
sterilization. Instead, they require
proof of performance. During
Steri-Run, all chamber surfaces
are proven to reach sterilization
temperature.

Validation that all surfaces reach 180°C with 35 point test on all chamber areas including the glass door.

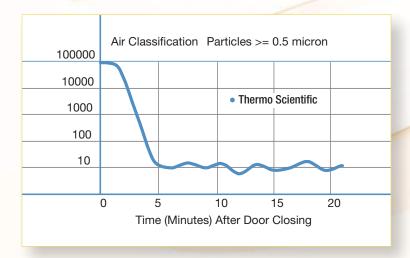
### HEPA Air Filtration for Air Purity

Airborne particulates are a primary source of contamination in most lab settings.

Our advanced HEPA filter technology protects your cultures, providing Class ISO-5 clean room-like air quality conditions within only five minutes after a 30-second door opening.

- Chamber air is processed every 60 seconds to ensure air quality
- Featuring a space saving configuration, the HEPA filter is readily replaceable with minimal cost

HEPA filters are rated for their efficiency of capturing 0.3 μm sized particles, since this is the most penetrating size. In fact, larger and smaller particles are caught even more efficiently, over 99.998%



Security for your cells. The HEPA filter provides a 4 log reduction of particles in 5 minutes. ISO 5 clean room air quality achieved in 5 minutes from a door opening.

### easy to maintain

### Easy to maintain 100% solid copper

More cell culture professionals are choosing Thermo Scientific incubators with 100%pure copper interiors.

- Easy-to-clean, no special handling required
- Corrosion resistant copper surfaces provide long service life and are safe for cultured cells
- Durability, reliability, and recyclability makes copper a smart, sustainable choice

"Everything we do is cell based. The main thing I've noticed is my ability to maintain my cells. There is just no comparison since we got the copper. I've had stainless steel incubators before but the comfort level you can have with the copper is simply amazing."

Laboratory Manager with 14 years experience working with all types of mammalian cell lines, including adherent, suspension, hybridomas and transformed stem cells



# Enhanced Simplicity

The Forma Steri-Cycle i160 series was designed to simplify your interaction with the incubator. Spend more time pursuing your science and less time managing your equipment.

### iCAN™ Touchscreen Interface

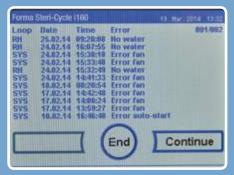
Total control at your fingertips

The intelligent iCAN interface provides complete data visibility to monitor all incubator interaction, featuring door-mounted position for easy access, on-screen menu prompts, error and usage logs, data logging, performance trend graphing and multiple language selection.

**New rH monitoring** assures the proper humidity level with blue, full line icon. Low water alarm indicates critical low humidity levels requiring water addition.

ISO 5 icon indicates the chamber has reached clean room air quality, protecting your cultures





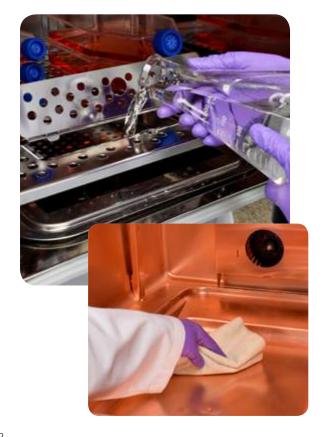
On-demand data and error logs provide a downloadable history of activity and conditions including parameter changes and alarms.



### Data collection

Retire your laboratory notebook, data collection is easy with a Forma Steri-Cycle i160 incubator. A data collection software disc is supplied with each unit, to facilitate data capture from the unit's convenient rear mounted USB output port.

Optional 4-20 mA signal output is available for interfacing with external data collection systems, such as Thermo Scientific™ Smart Vue™ remote monitoring system which is ideal for GMP environments with external sensors and CFR-21 compliant software packages.



# Optimized chamber design for easy maintenance and monitoring

- Conveniently manage reminders for HEPA filter, Steri-Run sterilization cycle and Autostart automatic calibration functions
- Programmable access code ensures additional security of your settings and information
- Selectable languages simplify operation: English, Spanish, German, French, Italian, Japanese and Mandarin
- For easier water handling, humidity reservoir may be filled or drained without the removal of shelves or cultures
- Easy-to-clean, coved corners with convenient access port
- No special tools required for assembly and disassembly of interior components

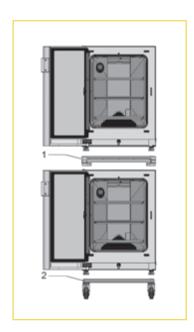
# specifications

	Chamber volume	165L (5.8 cu.ft.)	
	Interior chamber	electropolished stainless steel or 100% solid copper	
construction	Exterior chamber	18 gauge, cold-rolled steel, powder coated	
	Access port	42mm diameter	
	Data outputs	remote alarm contacts, USB, and optional 4-20 mA	
	Internal dimensions (w x h x d)	423 x 504 x 465 mm	
		16.7 x 19.9 x 18.3 inches	
	External dimensions (w x h x d)	637 x 905 x 790 mm	
dimensions		25.1 x 35.6 x 31.1 inches	
	Shipping dimensions (w x h x d)	755 x 1010 x 1205 mm	
	Operating weight	83 kg (without accessories), (183 lbs)	
	Shipping weight	98 kg, (216 lbs)	
	Dimensions (w x h)	423 x 465 mm (16.7 x 18.3 in)	
shelves	Number standard/maximum	3/10	
SHEIVES	Max. load per shelf/total load	10/30kg (22/66lbs)	
	Construction	perforated, adjustable	
	Rated voltage	1/N/PE AC (± 10%), 230, 220V, 120V, 100V	
	Nominal kW consumption (Steri-Run)	0.56 (1.06) – 230V, 0.51 (0.97) – 220V	
olootriool		0.55 (1.01) - 120V, 0.39 (0.72) – 100V	
electrical	Rated frequency	50/60 Hz	
	Heat emission to environment at 37°C	0.06 kWh/h	
	During Steri-Run:	0.26 kWh/h (average), 0.78 kWh/h (heating time), 0.59 kWh/h (hold time)	

	Control	±0.1°C
	Range	Range 3°C above ambient to 55°C
temperature	Uniformity	< ±0.3°C
	Ambient range	1834 °C
	Tracking alarm	±1°C
sterilization cycle	Cycle temperature	180°C on all internal surfaces
Steriiization Cycle	Cycle temperature	Under 12 hours
humidity	RH	>93% @ 37C
Turrilaity	Humidity reservoir	max. 3L / min 0.5L
	Control	± 0.1%
	Range	1-20%
$CO_2$	Tracking alarm	±1%
	Inlet pressure	12-15 PSI (0.8-1.0 bar)
	Gas purity	min. 99.5 or medical quality
	CO <sub>2</sub> inlet	1/8" hose (barbed)
	Control	± 0.1%
	Range	1-21% or 5-90%
$\circ$	Tracking alarm	±1%
$O_2$	Inlet pressure	12-15 PSI (0.8-1.0 bar)
	Gas purity	min. 99.5 or med. quality
	CO <sub>2</sub> inlet	1/8" hose (barbed)

### ordering information

# Select the Forma Steri-Cycle i160 incubator that best meets your culturing needs



Units are easily stackable. Required stacking adapter provides efficient heat dissipation to operate Steri-Run in one unit while culturing in the other without process disruption.



Forma Steri-Cycle CO <sub>2</sub> Incubator	Stainless Steel	100% Copper	
TC Sensor			
Single chamber with TC CO <sub>2</sub> sensor, 120V 50/60Hz	51030301	51030300	
Single chamber with TC CO <sub>2</sub> sensor, 230V 50/60Hz	51030303	51030302	
Dual chamber with TC CO <sub>2</sub> sensor, stacking adapter, and roller dolly 120V 50/60Hz	50145518	50145520	
Dual chamber with TC CO <sub>2</sub> sensor, stacking adapter, and roller dolly 230V 50/60Hz	50145519	50145521	
IR Sensor			
Single chamber with IR CO <sub>2</sub> sensor, 120V 50/60Hz	51030532	51030531	
Single chamber with IR CO <sub>2</sub> sensor, 230V 50/60Hz	51030534	51030533	
Dual chamber with IR CO <sub>2</sub> sensor, stacking adapter, and roller dolly 120V 50/60Hz	50145522	50145524	
Dual chamber with IR CO <sub>2</sub> sensor, stacking adapter, and roller dolly 230V 50/60Hz	50145523	50145525	

### Options and accessories to customize your Forma Steri-Cycle i160 ${\rm CO_2}$ incubators

	Country Versions	
	Electrical configuration for Switzerland	51900300
	Electrical configuration for Great Britain	51900303
	Electrical configuration for Italy	51900306
	Electrical configuration for Australia	51900449
	Electrical configuration for Denmark	51900481
	Electrical configuration for China	51900900
factory	Chamber Configuration Internal 4-20 mA analog data output	51901143
factory	Ŭ İ	
installed	Right hinge door configuration	51901121
II lotalioa	Internal gas guard for CO <sub>2</sub>	51900735
	Internal gas guard for N <sub>2</sub> /O <sub>2</sub>	51900736
	Stainless steel external outer casing	51901126
	3 door inner gas tight screen (replaces single inner door configuration)	51901144
	O, Control	
	1-21% O <sub>2</sub> control	51901137
	5-90% O <sub>2</sub> control	51901138
	1-21% O <sub>2</sub> control with 3 door inner gas tight screen door	51901145
	5-90% O <sub>2</sub> control with 3 door inner gas tight screen door	51901146
	0 00% 00 control with 0 door with gub light borbon door	0.001110
	Support Frames, Stacking Adapters and Shelving	
	Support frame for double chamber, 172 mm high (with castors)	50145394
	Support frame for double chamber, 200 mm high (without castors)	50145435
	Support frame for single chamber, 780 mm high (without castors)	50145436
	Adaptor required for stacking 160i models	
		50144550
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.	50144550 50145501
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors	50145501 50056459
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails	50145501 50056459 50051909
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails	50145501 50056459 50051909 50051910
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)	50145501 50056459 50051909 50051910 50051913
customer	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/3 width, in solid copper	50145501 50056459 50051909 50051910 50051913 50051914
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/3 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)	50145501 50056459 50051909 50051910 50051913 50051914 50058672
customer installed	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/3 width, in solid copper	50145501 50056459 50051909 50051910 50051913 50051914
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	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/3 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO <sub>2</sub> /O <sub>2</sub> Accessories and Monitoring  Replacement in chamber HEPA filter	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/3 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO <sub>2</sub> /O <sub>2</sub> Accessories and Monitoring  Replacement in chamber HEPA filter  CO <sub>2</sub> gas regulator, 2-stage, for gas tank	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050 50141920 3429937
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/3 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO <sub>2</sub> /O <sub>2</sub> Accessories and Monitoring  Replacement in chamber HEPA filter  CO <sub>2</sub> gas regulator, 2-stage, for gas tank  N <sub>2</sub> gas regulator, 2-stage for gas tank	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050 50141920 3429937 3429942
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/3 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO <sub>2</sub> /O <sub>2</sub> Accessories and Monitoring  Replacement in chamber HEPA filter  CO <sub>2</sub> gas regulator, 2-stage, for gas tank  N <sub>2</sub> gas regulator, 2-stage for gas tank  O <sub>2</sub> gas regulator, 2-stage for gas tank	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050 50141920 3429937
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/2 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO2/O2 Accessories and Monitoring  Replacement in chamber HEPA filter  CO2 gas regulator, 2-stage, for gas tank  N2 gas regulator, 2-stage for gas tank  C2 gas regulator, 2-stage for gas tank  External gas guard automatic change-over to reserve tank, 120 V, 50/60 Hz	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050 50141920 3429937 3429942
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/2 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO2/O2 Accessories and Monitoring  Replacement in chamber HEPA filter  CO2 gas regulator, 2-stage, for gas tank  N2 gas regulator, 2-stage for gas tank  O2 gas regulator, 2-stage for gas tank  External gas guard automatic change-over to reserve tank, 120 V, 50/60 Hz  External gas guard automatic change-over to reserve tank, 230 V, 50/60 Hz	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050 50141920 3429937 3429942 3429943
	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/2 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO2/O2 Accessories and Monitoring  Replacement in chamber HEPA filter  CO2 gas regulator, 2-stage, for gas tank  N2 gas regulator, 2-stage for gas tank  C2 gas regulator, 2-stage for gas tank  External gas guard automatic change-over to reserve tank, 120 V, 50/60 Hz	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050 50141920 3429937 3429942 3429943 50059043
customer installed	Adapter to stack Steri-cycle i160 model with Steri-cycle models 370,371,380, and 381.  Support frame with drawers for single chamber, 780 mm high with 3 drawers complete with 4 swivel locking castors  Additional stainless steel shelf, full-width, 2 support rails  Additional shelf, solid copper, full-width, with 2 support rails  Set of 3 HERAtrays, 1/3 width, in stainless steel (autoclaveable)  Set of 3 HERAtrays, 1/2 width, in solid copper  Set of 2 HERAtrays, 1/2 width, in stainless steel (autoclaveable)  Set of 2 HERAtrays, 1/2 width, in copper  CO2/O2 Accessories and Monitoring  Replacement in chamber HEPA filter  CO2 gas regulator, 2-stage, for gas tank  N2 gas regulator, 2-stage for gas tank  O2 gas regulator, 2-stage for gas tank  External gas guard automatic change-over to reserve tank, 120 V, 50/60 Hz  External gas guard automatic change-over to reserve tank, 230 V, 50/60 Hz	50145501 50056459 50051909 50051910 50051913 50051914 50058672 50061050 50141920 3429937 3429942 3429943 50059043 50046033











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