

SPECIFICATIONS

VCI-165

| Model | VCI-165P-120LE/230LE | VMI-165P-120LE/230LE |
|---|---|------------------------------|
| Exterior dimensions | 620 mm x 740 mm x 850 mm/ 24.4 in. x 29.1 in. x 33.5 in. (W x D x H) (Projections not included) | |
| Interior dimensions | W481 mm x D531 mm x H640 mm | |
| Capacity | Approx. 163 | |
| Outer facing | Electrogalvanized steel sheet (Baked powder coating) | |
| Inner facing | Stainless steel plate (SUS304, SUS430) | |
| Shelf board | W455 mm x D468 mm x H23 mm4 boards in the standard configuration (10 boards max.) | |
| Access board | Ø29 mm (Standard configuration) | |
| Temperature control method | Digital PID control | |
| Temperature control range | Room temperature plus 5°C to 50°C (0.1°C steps) | |
| Temperature control accuracy | ±0.1°C | |
| Temperature uniformity | ±0.3°C | |
| Temperature control range for dry-heat sterilization | 50°C to 160°C (1°C steps) | |
| Temperature uniformity regarding dry-heat sterilization | ±3°C | |
| Sterilization temperature setting time | 0.1 to 10.0 hours | |
| CO2 sensor | NDIR sensor | |
| CO2 concentration control range | 0.0%~20.0% | |
| CO2 concentration control accuracy | ±0.1% | |
| O2 sensor | — | Galvanic battery-type sensor |
| O2 concentration control range | — | 2.0%~80.0% |
| O2 concentration control accuracy | — | ±0.5% |
| Humidifying method, humidity | Natural evaporation method (Vat water filling), 95% ±4% RH | |
| Safety devices | Over-temperature protection, over-temperature alarm, CO2 alarm, O2 alarm, other various alarms | |
| Product weight | 90 kg | |
| Power supply | Single-phase 110-120V AC, 50/60 Hz, or Single-phase 220-240V AC 50/60 Hz, 7.5 A | |
| Power consumption | 750 W (max.) | |
| Power consumption (Watt-hour) | 75 Wh (at room temperature 25°C, set temperature 37.0°C, stable operation) | |
| Working temperature range | 10 °C ~ 30 °C | |
| Working humidity range | 30% ~ 80%RH | |
| Storage temperature range | -20°C ~ 50°C | |
| Storage humidity range | 20% ~ 80%RH | |
| Options | Cell monitor Analogue output Alarm contact output Gas guard Door lock Cart Vertical joint bracket Dust collection filter | |



Direct Heat CO₂/Tri-gas Incubator
VCI/VMI series



Direct Heat Type CO₂/MULTI GAS
 VCI-165 series Incubator



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Our Best Seller Just Got Better!

New Face Design

Renovated front door with an ergonomic handle, accompanied with a smooth polished stainless steel interior, and touch screen monitor with high speed processing.

Best Suited For Cell Culture

Much like its predecessor (the CPI series), the VCI grants an ideal environment for cell culture. Further advancements have been made to simplify user maintenance, while allowing safe & easy access to the samples inside.

Dry Heat Sterilization (160 deg C) Function Standard Equipped

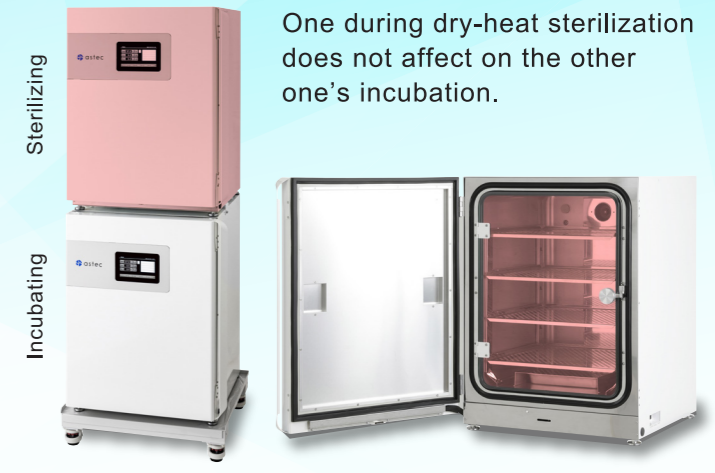
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Cell Monitor System

Users can connect to an optional, built in, cell monitoring system and observe the culture process on the front door panel display.

| |
|--|
| Option |
| P: Premium Type (Cell Monitoring unit is available to attach from inside) |
| Cell Monitoring unit Electronic Door Lock Analogue Output Cable Air Filter Base Stand Bracket for stacking |

Dry-Heat Sterilization Function (160 deg C)



One during dry-heat sterilization does not affect on the other one's incubation.

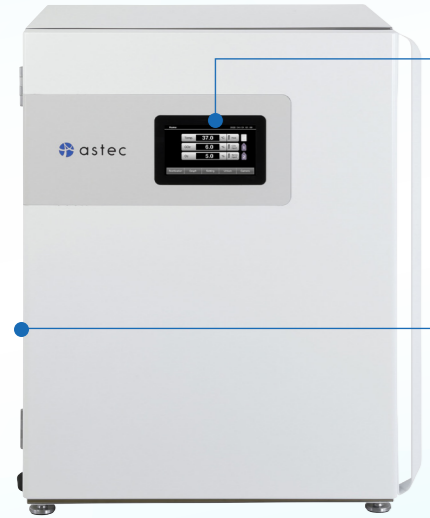
Photos are just images

Cell Monitoring System



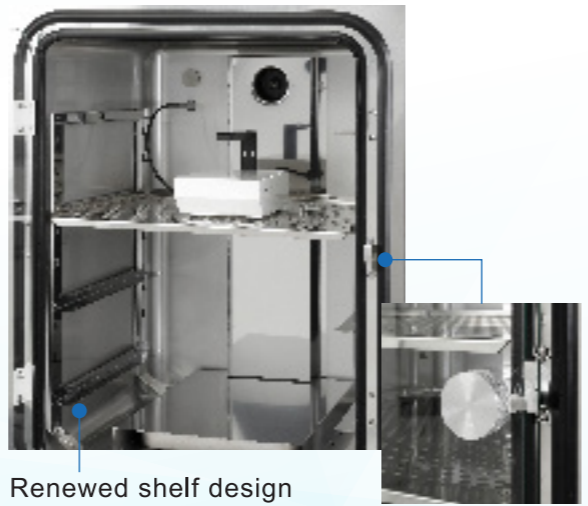
- Improved single step connectivity function is newly featured.
- Cell monitor can be recorded via USB memory.

New Design with you in Mind



Touch panel display for controls and log management. The display also functions as a monitor for the optional camera enabling segment observation and analysis.

Reversible door can swing to the left or the right



Renewed shelf design maximizes interior space while maintaining the integrity of the internal components and easing maintenance.

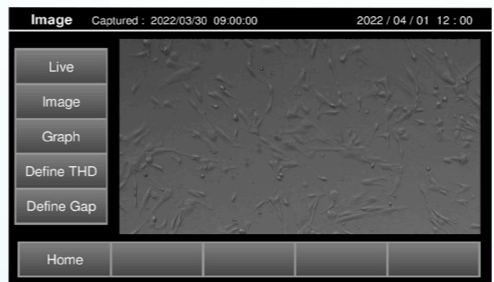
External Latch



Control board
solenoid
CO₂ sensor
Fan unit

ASTEC products are well known for their perfection and trouble free/easy maintenance. To improve serviceability when stacked, we have redesigned our VCI series with the control units located in the back, for easy access and maintenance purposes.

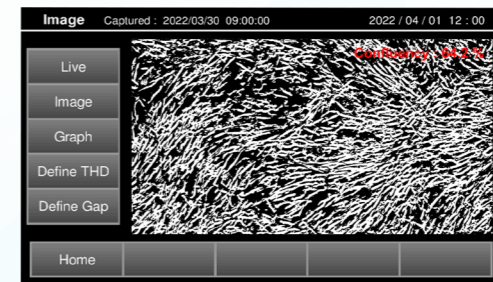
Applications live / timelapse observation



① Live: Allows observation without opening/closing the chamber. Ideal for stress sensitive cells.

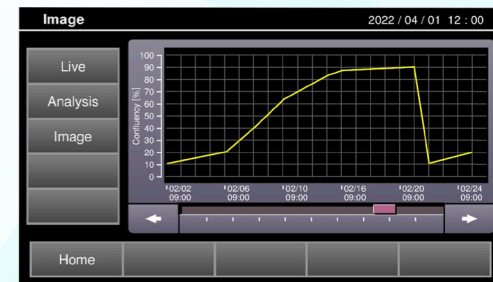
② Timelapse: Allows periodical recording of cell reproduction curve. Tracing patterns in segments of cell formation and density.

Applications Confluency



③ Automated evaluation and recording of cell density. Confirmation of passage timing: human evaluation assisted with device evaluation allows confluency evaluation without interference to chamber granting a unified approach and setting to passage timing.

Applications Cell Quality Control



④ Continuous analogy is visually graphed and recorded as above. Cell Quality Control: comparative analysis between previous and present trial. Evaluation of efficiency and error can be easily viewed, quickly noticed, and corrected if needed.