

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. (Projections not included)	
Interior dimensions	W481 mm × D531 mm × H640 mm	
Capacity	Approx. 163	
Outer facing	Electrogalvanized steel sheet (Baked powder coating)	
Inner facing	Stainless steel plate (SUS304, SUS430)	
Shelf board	W455 mm × D468 mm × 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

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.

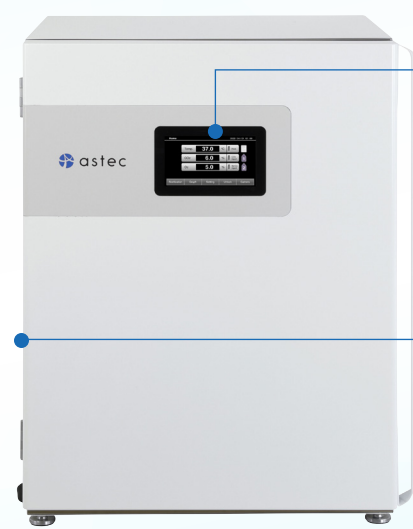
Dry Heat Sterilization (160 deg c) Function Standard Equipped

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.

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.

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



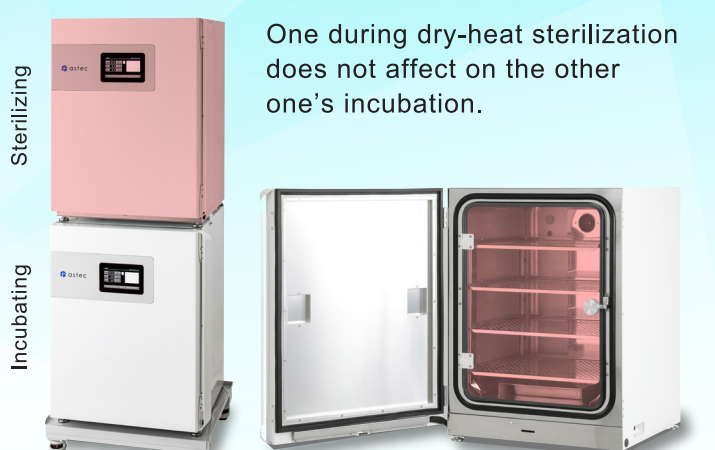
Control board
solenoid
CO2 sensor
Fan unit

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.

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

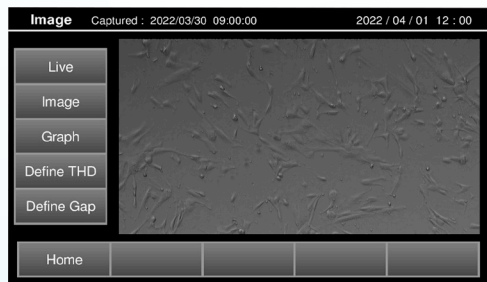
Cell Monitoring System



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

Applications

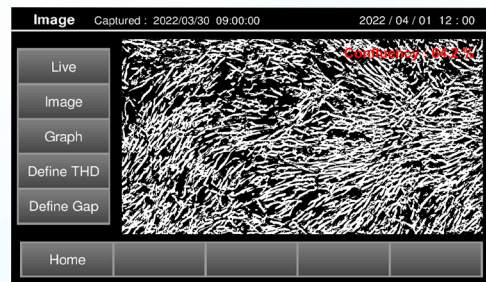
live / timelapse observation



- 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.