

Incubation Shaker

Incubation Shaker for Cell Culture

VIB EZ C7 Incubation Shaker

VIB EZ C5 Incubation Shaker

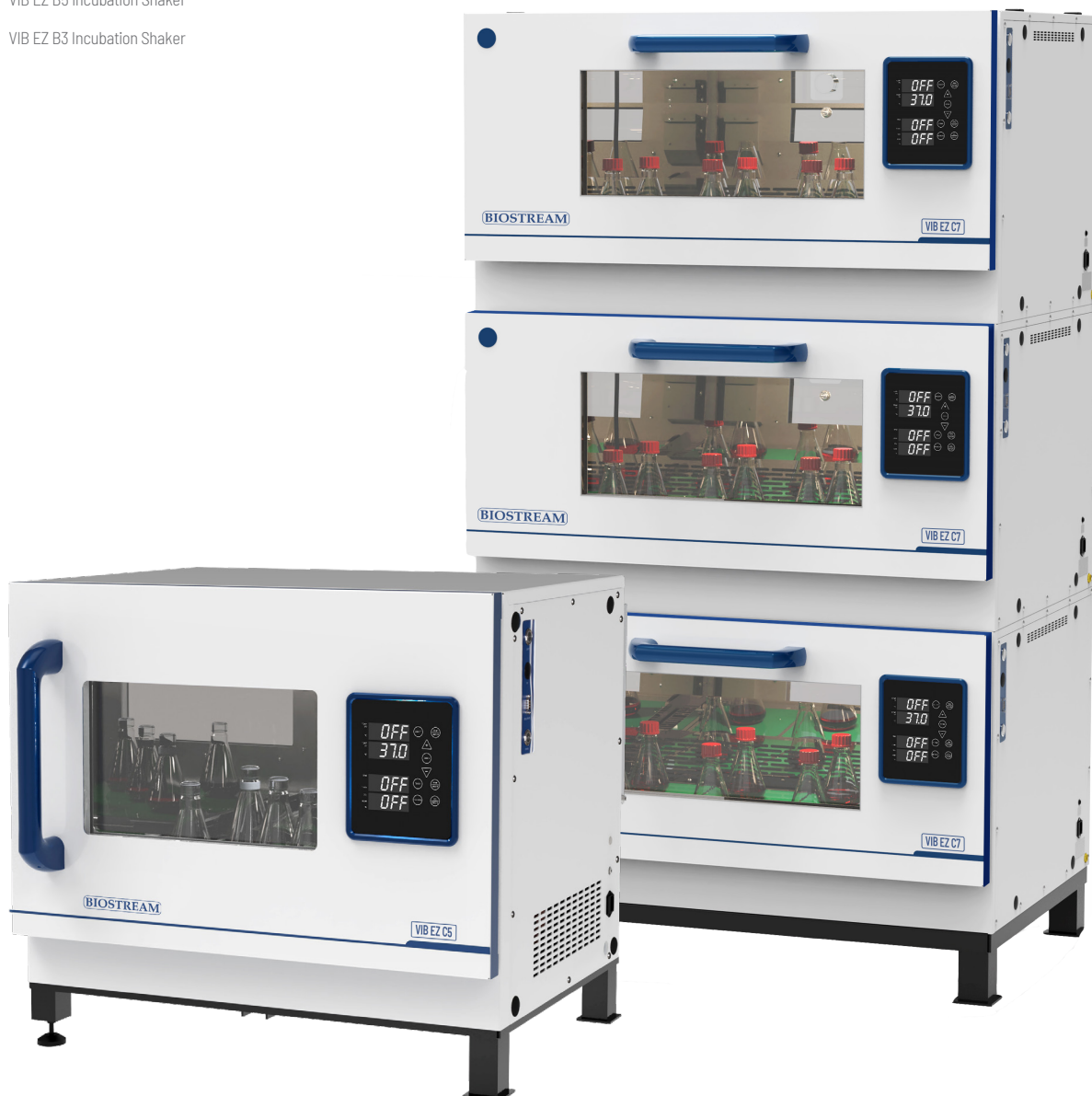
VIB EZ C3 Incubation Shaker

Incubation Shaker for Microbial Culture

VIB EZ B7 Incubation Shaker

VIB EZ B5 Incubation Shaker

VIB EZ B3 Incubation Shaker



Cell Culture Version

VIB EZ C7 Incubation Shaker

VIB EZ C7 Shaking incubator successfully combines flexibility, user-friendly operation and operational safety with the optimum utilization of space. Thanks to its modular construction and downwards-opening door, can either be a single unit for use on or under the laboratory bench, or operate as part of a stacked system. The system can be easily expanded in the future to a two or three deck configuration, ensuring adaptability to changing needs.

Application

VIB EZ C7 can be used for different applications.

- > Mammalian cells, with active CO₂ control function
- > Insect cell

Features

- > The inner walls of the incubation chamber and the magnetic driver are all made of stainless steel and easy to clean.
- > The non-belt magnetic drive provides low noise, low vibration.
- > Intuitive control panel with bright LED display (0.1°C resolution) and push button keypad.
- > High temperature limit setting and open door alarm.
- > The drop-down door is designed to serve as a shelf for the tray.
- > The shakers are equipped with RS232 and RS485 interface.

Fully encapsulated motor, safe and stable

Featuring a full magnetic drive system, our motor operates efficiently under low voltage conditions, consuming minimal power consumption, producing negligible heat, and having no adverse impact on the incubator's temperature.

In line with the principles of hygiene and cleanliness, the entire drive unit adopts a fully enclosed design, safeguarding the motor and electrical components from moisture and microbial contamination. This design ensures convenience during cleaning and decontamination.

Multiple temperature control methods

BIOSTREAM offers three types of shakers to meet various laboratory environmental needs.

Without Cooling unit

- > Generally, the optimal temperature for mammalian cell culture is 37°C. Since laboratory ambient temperatures typically do not exceed 30°C a shaker without cooling unit is sufficient to meet experimental requirements

With Peltier Cooling unit

- > Solid-state cooling with no moving parts such as compressors, offering quiet, vibration-free operation and high-precision temperature control
- > Compact in size for high product integration
- > Environmentally friendly, utilizing no chemical refrigerants

With Compressor Cooling unit

- > High cooling efficiency, capable of reaching lower experimental temperatures compared to Peltier cooling
- > Utilizes R290, an environmentally friendly refrigerant, making it a green and sustainable solution
- > Features stable performance and a long operational lifespan



Precise CO₂ control

Precise CO₂ control is essential when working with mammalian, plant cell cultures, or algae. A controlled CO₂ atmosphere within the shaking incubator enables precise pH adjustments of the culture medium.

- > Dual Beam IR CO₂ Sensor
- > Measurement range: 0.1-20 %
- > CO₂ Accuracy: ± 1 %FS CO₂
- > The CO₂ consumption is only 1.5l/h. (at 5% CO₂)
- > The CO₂ supply: max. 0.5 bar overpressure

Humidity (Optional)

Controlled humidity is crucial when working with microtiter plates or during extended flask-based cell cultures, as it effectively minimizes evaporation. Our specially designed humidification system can achieve humidity levels of up to 85% relative humidity (r.h.). The heated double glass door ensures reliable condensation prevention.



UV sterilization (Optional)

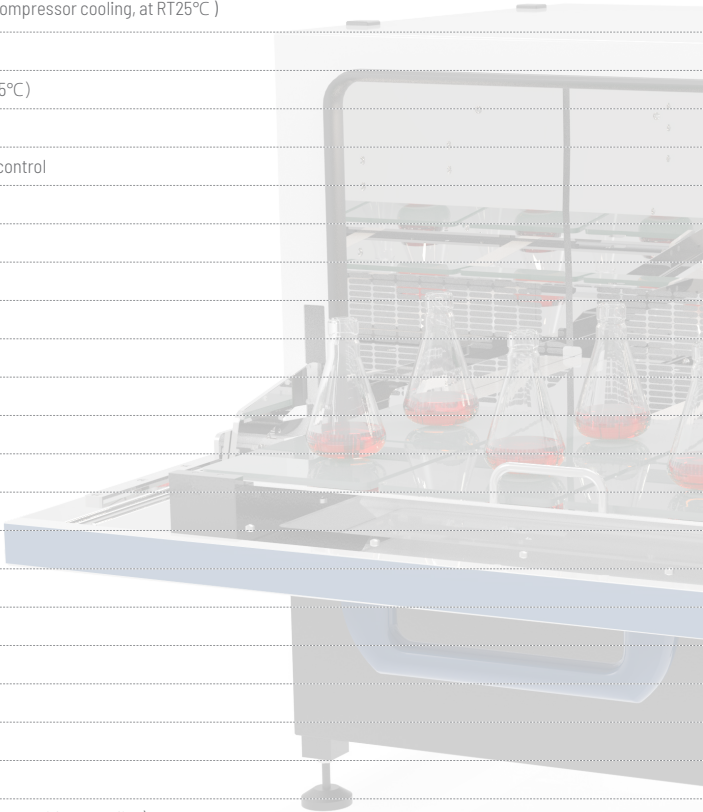
The UV unit is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach sample and sterilization is operated during culturing.



Specifications

Model		VIB EZ C7
Temperature	Range	RT+7°C -60°C (without cooling unit, at RT25°C) RT-5°C -60°C (with peltier cooling, at RT25°C) RT-15°C -60°C (with compressor cooling, at RT25°C)
	Control accuracy	±0.2°C
	Uniformity	±0.2°C (at 37°C /RT25°C)
	Timer	1min-99h59min
	Program control	9-segment program control
CO ₂	Measurement range	0.1-20 %
	Resolution	0.1%
	Accuracy	± 1 % FS
Shaking	Speed	20-400rpm*
	Control accuracy	± 1% FS
	Shaking diameter	25 or 50mm
Humidity Control Range		75%-85%
Chamber Volume		250L
Platform (w x d)		850 x 470 mm
Max Capacity (with sticky tray)		50ml x131
		100ml x 91
		250ml x 48
		500ml x 31
		1000ml x 19
		2000ml x 13
		5000ml x 6
Dimensions (w x d x h)	1 deck	1082 x 850 x 605 (no base, without cooling)
	2 decks	1082 x 850 x 1205 (no base)
	3 decks	1082 x 850 x 1950 (with 13cm base)
Weight per deck with/without cooling		220/240kg

*Testing condition: 20-400rpm (without load)
20-250rpm (with load, 15 x 1000ml flask, 20% filling)



Accessories

Sticky tray

Sticky Plate can be loaded with any kind of vessels with a smooth base. Even at a speed of up to 350 rpm the vessel sticks to the plate.



Order No.	Description
B0200002	Sticky tray, 850 x 470 mm
B6100113	Sticky stuff, 200 x 200mm

Universal tray

The Universal tray employ a drilled grid for individual loadings of test tube holders, microplate, and deep well plates.



Order No.	Description
B0200001	Universal tray, 850 x 470 mm



Adjustable bar tray

Order No.	Description
B0200008	Tray with 8 fixing bars
B0200009	1 additional fixing bar for B0200008



Multi-Purpose tray

Order No.	Description
B0200010	The multi-purpose tray is made of stainless steel and can be used for a diverse range of unusual specifications.

Stainless steel erlenmeyer flask clamp

For fixing of shaken items, there is an extensive range of retaining clamp:Standard stainless steel clamps for flasks of 50 to 5000ml.



Order No.	Description	Order No.	Description
B6103550	50ml	B6103555	2000ml
B6103551	100ml	B6103560	3000ml
B6103552	250ml	B6103558	4000ml
B6103553	500ml	B6103561	5000ml
B6103554	1000ml		

Stainless steel clamps for fernbach flask

Order No.	Description	Order No.	Description
B6103547	1.8L	B6103557	2.8L

Test tube rack

A range of tube racks are available for various diameters and lengths. For the best axial mixing at the optimum angle, the support rack can be tilted. By loosening both fixing screws, the rack can be simply detached from the holding frame connected to the shaker.



Test tube rack for long type

Order No.	Description	Order No.	Description
B6101342	144 x Ø8mm	B6101352	64 x Ø14mm
B6101343	100 x Ø10mm	B6101354	36 x Ø16mm
B6101347	72 x Ø12mm		

Rack for plastic test tube

Order No.	Description
B6101362	16x Ø30mm (50 mL centrifuge tubes)

VIB EZ C5 Incubation Shaker

The VIB EZ C5 Shaker is designed to optimize laboratory space efficiently, offering flexibility, user-friendly operation, and enhanced safety. Its modular structure and side-sliding door allow the incubator to be used either on or under the lab bench, as well as in a space-saving double-stacked configuration.

Applications

All laboratory applications require the right shaking method and optimal incubation conditions to ensure reliable results.

- > Cell Culture.
- > Insect cell cultivation requires gentle and consistent agitation.
- > Ideal for molecular biology applications, such as protein expression.
- > Precise temperature control with optional illumination functionality.

The VIB EZ C5 features an LED display and a membrane keypad, designed for easy operation even when wearing gloves.

Multiple temperature control methods

BIOSTREAM offers three types of shakers to meet various laboratory environmental needs.

Without Cooling unit

- > Generally, the optimal temperature for mammalian cell culture is 37°C. Since laboratory ambient temperatures typically do not exceed 30°C a shaker without cooling unit is sufficient to meet experimental requirements

With Peltier Cooling unit

- > Solid-state cooling with no moving parts such as compressors, offering quiet, vibration-free operation and high-precision temperature control
- > Compact in size for high product integration
- > Environmentally friendly, utilizing no chemical refrigerants

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- > The CO₂ supply: max. 0.5 bar overpressure

Humidity (Optional)

Controlled humidity is crucial when working with microtiter plates or during extended flask-based cell cultures, as it effectively minimizes evaporation. Our specially designed humidification system can achieve humidity levels of up to 85% relative humidity (r.h.). The heated double glass door ensures reliable condensation prevention.

UV sterilization (Optional)

The UV unit is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach sample and sterilization is operated during culturing.



Specifications

Model		VIB EZ C5
Temperature	Range	RT+7°C -60°C (without cooling unit, at RT25°C) RT-5°C - 60°C (with peltier cooling, at RT25°C) RT-15°C - 60°C (with compressor cooling , at RT25°C)
	Accuracy	±0.1°C
	Uniformity	±0.2°C (at 37°C / RT.25°C)
	Timer Program control	9-segment program control can be set Timer : 1min-99h59min
CO ₂	Range	0.1~20%
	Resolution	0.10%
	Accuracy	±1%FS
Shaking	Speed	20-400rpm
	Control accuracy	± 1%FS
	Shaking diameter	25 or 50mm
Humidity Control		75%-85%
Chamber Volume		160L
Platform (w x d)		450 x 450 mm
Max Capacity		50ml x 64
		100ml x 44
		250ml x 25
		500ml x 16
		1000ml x 9
		2000ml x 6
		3000ml x 4
Dimensions (w x d x h)	1 deck	800 x 695 x 635mm
	2 decks	800 x 695 x 1270mm
Weight per deck without cooling/with compressor cooling		Approx. 140kg/170kg

Accessories

Sticky tray

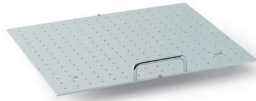
Sticky Plate can be loaded with any kind of vessels with a smooth base. Even at a speed of up to 250 rpm the vessel sticks to the plate.



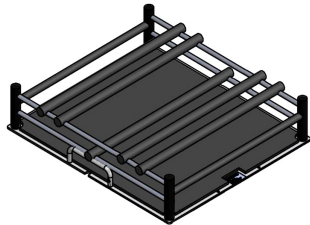
Order No.	Description
B0300002	Sticky tray,450 x 450 mm
B0300004	Double tray with Sticky stuff, Layer spacing 165mm
B6100113	Sticky stuff, 200 x 200mm

Universal tray

The Universal tray employ a drilled grid for individual loadings of test tube holders, microplate, and deep well plates.

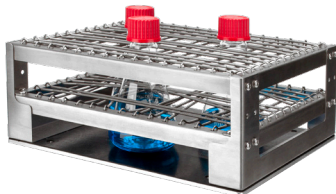


Order No.	Description
B0300001	Universal tray, 450 x 450 mm



Adjustable bar tray

Order No.	Description
B0300008	Tray with 8 fixing bars
B0300009	1 additional fixing bar for B0300008



Multi-Purpose tray

Order No.	Description
B0300010	The multi-purpose tray is made of stainless steel and can be used for a diverse range of unusual specifications.

Stainless steel erlenmeyer flask clamp

For fixing of shaken items, there is an extensive range of retaining clamp:Standard stainless steel clamps for flasks of 50 to 5000ml.



Order No.	Description	Order No.	Description
B6103550	50ml	B6103555	2000ml
B6103551	100ml	B6103560	3000ml
B6103552	250ml	B6103558	4000ml
B6103553	500ml	B6103561	5000ml
B6103554	1000ml		

Stainless steel clamps for fernbach flask

Order No.	Description	Order No.	Description
B6103547	1.8L	B6103557	2.8L

Test tube rack

A range of tube racks are available for various diameters and lengths.For the best axial mixing at the optimum angle, the support rack can be tilted. By loosening both fixing screws, the rack can be simply detached from the holding frame connected to the shaker.



Test tube rack for long type

Order No.	Description	Order No.	Description
B6101342	144 x Ø8mm	B6101352	64 x Ø14mm
B6101343	100 x Ø10mm	B6101354	36 x Ø16mm
B6101347	72 x Ø12mm		

Rack for plastic test tube

Order No.	Description
B6101362	16x Ø30mm (50 mL centrifuge tubes)

VIB EZ C3 Incubation Shaker

Laboratory space is both scarce and expensive. The Biostream VIB EZ C3 successfully combines flexibility, user-friendly operation and operational safety with the optimum utilization of space. Thanks to its modular construction, the Biostream VIB EZ C3 can either be a single unit for use on or under the laboratory bench or operate as part of a stacked system.

Features

- > The oscillation unit is embedded in the incubator and can use culture bottles with a maximum volume of 2L.
- > The double-sided door design allows the door opening direction to be adjusted according to the laboratory environment for convenient operation (standard setting is left door opening at factory).
- > Embedded circulation fan ensures uniformity of gas circulation and temperature field inside the box.
- > Stainless steel inner cavity is easy to clean and prevent bacterial contamination.
- > Alarm function is automatically activated when temperature, speed deviates or the box door is opened.
- > Oscillation stops when the box door is opened. Independent safety temperature control prevents overheating.
- > Peltier refrigeration technology is adopted, with compact design, lower energy consumption, no vibration and no refrigerant pollution to the environment.

Multiple temperature control methods.

BIOSTREAM offers two types of shakers to meet various laboratory environmental needs.

Without Cooling unit

- > Generally, the optimal temperature for mammalian cell culture is 37°C. Since laboratory ambient temperatures typically do not exceed 30°C a shaker without cooling unit is sufficient to meet experimental requirements

With Peltier Cooling unit

- > Solid-state cooling with no moving parts such as compressors, offering quiet, vibration-free operation and high-precision temperature control
- > Compact in size for high product integration
- > Environmentally friendly, utilizing no chemical refrigerants

Specifications

Model		VIB EZ C3
Temperature	Range (°C)	RT+7°C - 60°C (without cooling unit, at RT25°C) RT-10°C - 60°C (with peltier cooling, at RT25°C)
	Control accuracy (°C)	±0.1
	Uniformity (°C)	±0.2 (at 37°C / RT.25°C)
	Timer function	Temperature & CO ₂ : without timer function Shaking speed timer range :Continuous or up to 99 hours 59 min
Shaking	Speed (rpm)	30-300
	Control accuracy	± 1%FS
	Shaking diameter (mm)	25 or 50mm
CO ₂	Measurement range	0.1-20%
	Resolution	0.10%
	Accuracy	±1%FS
Chamber Volume (L)		71
Platform (w x d) mm		300 x 330
Capacity		100ml x 16
		250ml x 9
		500ml x 5
		1000ml x 4
		2000ml x 1
Optional parameters		Peltier cooling UV sterilization
Dimensions (w x d x h) mm	1 deck	400 x 600 x 618
	2 decks	400 x 600 x 1236
Weight of each floor without cooling / with peltier cooling		66kg/75kg



Microbial culture version

VIB EZ B7 Incubation Shaker

The VIB EZ B7 offers a clear concept that addresses the challenges of limited and costly laboratory space. It excels in providing flexibility, user-friendly operation, and operational safety while optimizing space utilization. Its modular design and downwards-opening door allow it to function as a standalone unit on or under the laboratory bench or as part of a stacked system.

Furthermore, the system can be easily expanded in the future to a two or three deck configuration, ensuring adaptability to changing needs.

With the VIB EZ B7, you can achieve various tasks requiring optimum shaking motion and incubation conditions for different applications:

- > Vigorous shaking for bacteria, yeast or fungi.
- > Gentle and smooth action for Insect cell culture.
- > Appropriate for uses in molecular biology such as protein expression.

Multiple temperature control methods.

BIOSTREAM offers three types of shakers to meet various laboratory environmental needs.

Without Cooling unit

- > Generally, the optimal temperature for mammalian cell culture is 37 °C . Since laboratory ambient temperatures typically do not exceed 30°C a shaker without cooling unit is sufficient to meet experimental requirements

With Peltier Cooling unit

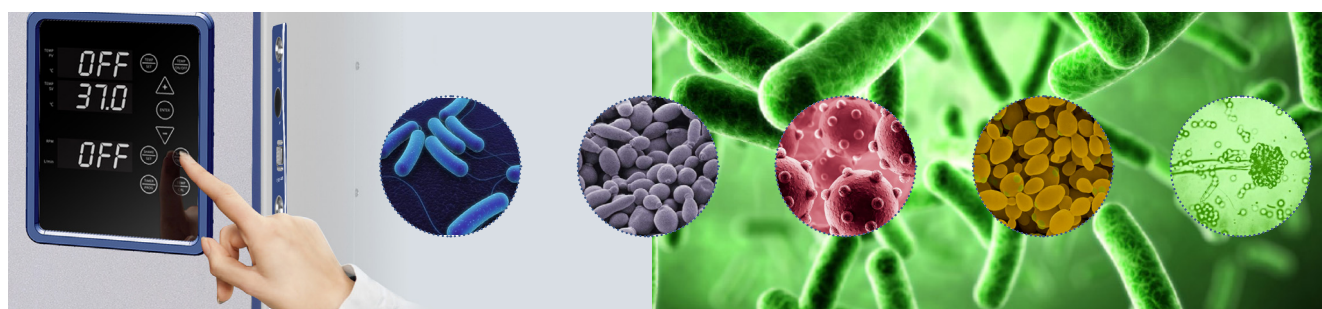
- > Solid-state cooling with no moving parts such as compressors, offering quiet, vibration-free operation and high-precision temperature control
- > Compact in size for high product integration
- > Environmentally friendly, utilizing no chemical refrigerants

With Compressor Cooling unit

- > High cooling efficiency, capable of reaching lower experimental temperatures compared to Peltier cooling
- > Utilizes R290, an environmentally friendly refrigerant, making it a green and sustainable solution
- > Features stable performance and a long operational lifespan

The drop-down door

The drop-down door is cleverly designed to serve as a shelf for the pull-out tray, adding an extra practical element. There is no additional space required compared to a door that is split and opens from the side.



Communication

The shaker are equipped with RS232 and RS485 interface.

UV sterilization (Optional)

The UV unit is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach sample and sterilization is operated during culturing.

LED illumination (Optional)

Primarily used for tissue cell culture, seed germination, seedling cultivation, and microbial culture, with adjustable light intensity in step increments (10% per step).



Specifications

Model		VIB EZ B7
Temperature	Range	RT+7°C - 60°C (without cooling unit, at RT25°C) RT-5°C - 60°C (with peltier cooling, at RT25°C) RT-15°C - 60°C (with compressor cooling, at RT25°C)
	Control accuracy	±0.2°C
	Uniformity	±0.5°C (at 37°C /RT25°C)
	Timer	1min~99h59min
	Program control	9-segment program control can be set
Shaking	Speed	20-400rpm
	Control accuracy	± 1% FS
	Shaking diameter	25 or 50 mm
Chamber Volume		264L
Platform (w x d)		850 x 470 mm
Max Capacity (with sticky tray)		50ml x131
		100ml x 91
		250ml x 48
		500ml x 31
		1000ml x 19
		2000ml x 13
		5000ml x 6
Dimensions (w x d x h)	1 deck	1075 x 850 x 550 (no base)
	2 decks	1075 x 850 x 1100(no base)
	3 decks	1075 x 850 x 1795(with 13cm base)
Weight per deck without cooling/with compressor cooling		180kg/210kg

Accessories

Sticky tray

Sticky Plate can be loaded with any kind of vessels with a smooth base. Even at a speed of up to 250 rpm the vessel sticks to the plate.



Order No.	Description
B0200002	Sticky tray, 850 x 470 mm
B6100113	Sticky stuff, 200 x 200mm

Universal tray

The Universal tray employ a drilled grid for individual loadings of test tube holders, microplate, and deep well plates.

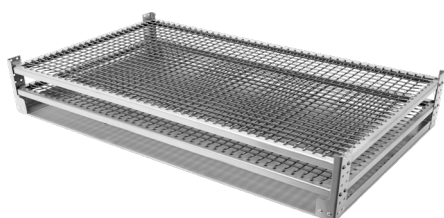


Order No.	Description
B0200001	Universal tray, 850 x 470 mm



Adjustable bar tray

Order No.	Description
B0200008	Tray with 8 fixing bars
B0200009	1 additional fixing bar for B0200008



Multi-Purpose tray

Order No.	Description
B0200010	The multi-purpose tray is made of stainless steel and can be used for a diverse range of unusual specifications.

Stainless steel erlenmeyer flask clamp

For fixing of shaken items, there is an extensive range of retaining clamp: Standard stainless steel clamps for flasks of 50 to 5000ml



Order No.	Description	Order No.	Description
B6103550	50ml	B6103555	2000ml
B6103551	100ml	B6103560	3000ml
B6103552	250ml	B6103558	4000ml
B6103553	500ml	B6103561	5000ml
B6103554	1000ml		

Stainless steel clamps for fernbach flask

Order No.	Description	Order No.	Description
B6103547	1.8L	B6103557	2.8L

Test tube rack

A range of tube racks are available for various diameters and lengths. For the best axial mixing at the optimum angle, the support rack can be tilted. By loosening both fixing screws, the rack can be simply detached from the holding frame connected to the shaker.



Test tube rack for long type

Order No.	Description	Order No.	Description
B6101342	144 x Ø8mm	B6101352	64 x Ø14mm
B6101343	100 x Ø10mm	B6101354	36 x Ø16mm
B6101347	72 x Ø12mm		

Rack for plastic test tube

Order No.	Description
B6101362	16x Ø30mm (50 mL centrifuge tubes)

VIB EZ B5 Incubation Shaker

The VIB EZ B5 Shaker is designed to optimize laboratory space efficiently, offering flexibility, user-friendly operation, and enhanced safety. Its modular structure and side-sliding door allow the incubator to be used either on or under the lab bench, as well as in a space-saving double-stacked configuration.

Applications

All laboratory applications require the right shaking method and optimal incubation conditions to ensure reliable results.

- > Bacterial, yeast, and fungal cultures require vigorous shaking.
- > Insect cell cultures need gentle and stable agitation.
- > Suitable for molecular biology applications, such as protein expression.
- > Precise temperature control and optional lighting make it ideal for algal cultivation and other light-sensitive processes.

The VIB EZ B5 features an LED display and a membrane keypad, designed for easy operation even when wearing gloves.

Multiple temperature control methods

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Without Cooling unit

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UV sterilization (Optional)

The UV unit is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach sample and sterilization is operated during culturing.

LED illumination (Optional)

Primarily used for tissue cell culture, seed germination, seedling cultivation, and microbial culture, with adjustable light intensity in step increments (10% per step).



Specifications

Model		VIB EZ B5
Display		LED
Temperature	Range	RT+7°C -60°C (without cooling unit, at RT25°C) RT-5°C - 60°C (with peltier cooling, at RT25°C) RT-15°C - 60°C (with compressor cooling, at RT25°C)
	Accuracy	±0.1°C
	Uniformity	±0.5°C (at 37°C / RT.25°C)
	Timer Program control	9-segment program control can be set Timer:1min-99h59min
Shaking	Speed	30-400rpm
	Control accuracy	± 1%FS
	Shaking diameter	25/50 mm
Chamber Volume		162L
Platform (w x d)		450 x 450 mm
Max Capacity (with sticky tray)		50ml x 64
		100ml x 44
		250ml x 25
		500ml x 16
		1000ml x 9
		2000ml x 6
		3000ml x 4
Optional parameters		Cooling
		illumination
		UV sterilization
Dimensions (w x d x h)	1 deck	800 x 695 x 635
	2 decks	800 x 695 x 1270
Weight per deck with/without cooling		Approx. 140kg/170kg

Accessories

Sticky tray

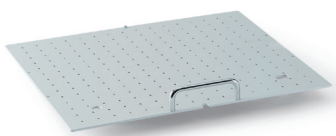
Sticky Plate can be loaded with any kind of vessels with a smooth base. Even at a speed of up to 250 rpm the vessel sticks to the plate.



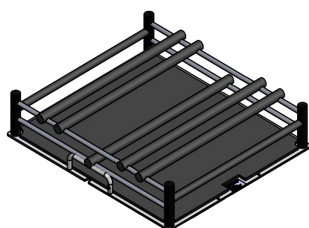
Order No.	Description
B0300002	Sticky tray, 450 x 450 mm
B0300004	Double tray with Sticky stuff, Layer spacing 165mm
B6100113	Sticky stuff, 200 x 200mm

Universal tray

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Adjustable bar tray

Order No.	Description
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B6101347	72 x Ø12mm		

Rack for plastic test tube

Order No.	Description
B6101362	16x Ø30mm (50 mL centrifuge tubes)

VIB EZ B3 Incubation Shaker

The shaker may be operated as a stand-alone device on a laboratory bench or assembled into a double-stack configuration. It is extensively used for microbial cultivation, suspension-cell culture, and molecular-biology assays.

Features

- > Easy to completed the stacking process.
- > With electromagnetic drive technology, shaking stable and low noise.
- > Integrated shaking unit, the volume of flask up to 2L.
- > Opening direction of the out door can be switched option.
- > Built-in circulation fan to ensure the uniformity of temperature field.
- > Stainless steel chamber, easy to clean.
- > Alarm for temperature deviation, speed deviation or open the door.
- > Independent safety temperature control to prevent overheating.
- > Peltier cooling enables a compact, efficient, and silent design without refrigerants.

UV sterilization (Optional)

The UV unit is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach sample and sterilization is operated during culturing.

Multiple temperature control methods.

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- > Generally, the optimal temperature for mammalian cell culture is 37°C . Since laboratory ambient temperatures typically do not exceed 30°C a shaker without cooling unit is sufficient to meet experimental requirements

With Peltier Cooling unit

- > Solid-state cooling with no moving parts such as compressors, offering quiet, vibration-free operation and high-precision temperature control
- > Compact in size for high product integration
- > Environmentally friendly, utilizing no chemical refrigerants

Specifications

Model		VIB EZ B3
Temperature	Range	RT+7°C - 60°C (without cooling unit, at RT25°C) RT-10°C - 60°C (with peltier cooling, at RT25°C)
	Control accuracy (°C)	±0.1
	Uniformity (°C)	±0.2 (at 37°C /RT25°C)
	Timer function	Temperature: without timer function; Shaking speed timer range: Continuous or up to 99 hours 59 min
Shaking	Speed (rpm)	30-300
	Control accuracy	± 1%FS
	Shaking diameter (mm)	25 or 50mm
Chamber Volume (L)		71
Platform (w x d) mm		300 x 330
Capacity		100ml x 16
		250ml x 9
		500ml x 5
		1000ml x 4
Optional parameters		2000ml x 1
		Peltier cooling
		UV sterilization
Dimensions (w x d x h) mm	1 deck	400 x 600 x 618
	2 decks	400 x 600 x 1236
Weight of each floor without cooling / with peltier cooling		66kg/75kg

