

Provocell™

Shaking Micro Incubator

The Esco Provocell™ and Provocell™ II Shaking Micro Incubator are designed for a wide variety of mixing applications for accurate incubation of reactions and denaturation of nucleic acids and proteins. Provocell™ and Provocell™ II combine an advanced microprocessor-based controller with Peltier heating and cooling to deliver outstanding reliability, safety and overall performance.



PV-PVC2 + PV-BLC2-2

PV-PVC + PV-BLC-1

GENERAL FEATURES

- Smooth orbital rotation
- Digitally controlled Peltier heating and cooling
- Fully programmable with speed setting up to 3000 rpm
- User-friendly interface
- Large, easy to read display
- Easy to clean interchangeable metal blocks
- Small footprint
- Compatible for use inside biological safety cabinet
- Manufactured with top quality, laboratory-grade components

Uniform Mixing

The Provocell™ and Provocell™ II Shaking Micro Incubator deliver stable orbital rotation creating a steady vortexing that is required to ensure even and accurate mixing conditions.

- Rotation speed can be adjusted up to 3000 rpm within a 3 mm diameter (0.11") rotation axis.
- The sample block is mounted to the main body using 4 bolts to enhance stability.
- The long motor life minimizes maintenance costs.

User Friendly Operation

The large Vacuum Fluorescent Display (VFD) of Provocell™ and Liquid-crystal Display (LCD) of Provocell™ II give the user a clear view of the current temperature, speed and time.

- Operational parameters are color coded for easy visual differentiation of the parameters.
- A state-of-the-art microprocessor with pre-programmed interface is easy to use and allows the operator to modify temperature, time and speed during operation.

High Performance Peltier Modules

Peltier modules are designed for rapid temperature heating or cooling response and overall temperature accuracy.

- Excellent temperature uniformity.
- Temperature control accuracy, ΔT is less than 0.1°C.
- Ceramic semiconductors eliminate moving parts and noise, reducing vibration, minimizing maintenance.
- Lightweight modules occupy a small footprint.
- An aluminum covering and powerful fan dissipates heat efficiently and quickly.
- The unique module design reduces heat loss.
- The ergonomic design is easy to use.

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General Specifications, Provocell™ Shaking Micro Incubator		
Available Blocks*	Order Number	Capacity/Size
	BLC-1	1.5 mL x 40 (Standard)
	BLC-2	0.2 mL x 96
	BLC-3	0.5 mL x 54
	BLC-4	Ø15 mm x 24
	BLC-5	96 wells ELISA board
	BLC-6	0.5 mL x 26 + 1.5 mL x 24
	BLC-7	2 mL x 40
Temperature Setting Range	0-105°C	
Temperature Control Range	Ambient -14°C to 100°C	
Block Temperature Uniformity	±0.5°C	
Temperature Accuracy	±0.5°C	
Temperature Uniformity	±0.5°C	
Heating Rate	6°C / min (from 20°C to 100°C)	
Heating Time, Nominal	≤12 mins from 20°C to 100°C	
Cooling Time, Nominal	≤8 mins for 10°C decrease from ambient temperature ≤15 mins from 100°C to 10°C above ambient temperature	
Timer Range	1 min to 99 h 59 min	
Speed	300-1500 rpm	
Amplitude	3 mm (0.11")	
Power Supply, Consumption	Model	Voltage
	ESC-PVC-2	110 VAC±11V, 50/60 Hz, 150 W
	ESC-PVC-1	220 VAC±22V, 50/60 Hz, 150 W
Dimensions (W x D x H)	295 x 265 x 170 mm (11.6" x 10.4" x 6.7")	
Warranty	2 years	
Net Weight	9.5 kg (20.9 lbs)	
Shipping Weight	10.5 kg (23.1 lbs)	
Shipping Dimensions (W x D x H)	320 x 420 x 330 mm (12.6" x 16.5" x 13.0")	

*Note to customer: Specify block when ordering.

ORDERING INFORMATION

Order Information, Provocell™ Shaking Micro Incubator		
Model Code	Item Code	Description
ESC/PV-PVC-2	2210029	Provocell™ Micro Incubator 110 VAC
ESC/PV-PVC-1	2210030	Provocell™ Micro Incubator 220 VAC
ESC/PV-BLC-1	1360043	Provocell™ Incubator Block 1 (1.5 mL x 40)
ESC/PV-BLC-2	1360044	Provocell™ Incubator Block 2 (0.2 mL x 96)
ESC/PV-BLC-3	1360045	Provocell™ Incubator Block 3 (0.5 mL x 54)
ESC/PV-BLC-4	1360046	Provocell™ Incubator Block 4 (15 mm x 24)
ESC/PV-BLC-5	1360048	Provocell™ Micro Incubator Block 5 96 Well ELISA Board
ESC/PV-BLC-6	1360049	Provocell™ Micro Incubator Block 6 (0.5 mL x 26 + 1.5 mL x 24)
ESC/PV-BLC-7	1360047	Provocell™ Incubator Block 7 (2 mL x 40)

CHOOSE THE BLOCK APPLICABLE FOR YOUR SAMPLES

Seven Interchangeable Blocks



PV-BLC-1
1.5 mL x 40 (Standard)



PV-BLC-2
0.2 mL x 96



PV-BLC-3
0.5 mL x 54



PV-BLC-4
15 mm x 24



PV-BLC-5
96 wells ELISA board



PV-BLC-6
0.5 mL x 26 + 1.5 mL x 24



PV-BLC-7
2 mL x 40

General Specifications, Provocell™ II Shaking Micro Incubator

	Order Number	Capacity/Size
Available Blocks*	BLC2-1	384 well
	BLC2-2	0.2 mL x 96
	BLC2-3	0.5 mL x 54
	BLC2-4	1.5 mL x 35
	BLC2-5	2.0 mL x 35
	BLC2-6	5.0 mL x 12
	BLC2-7	15 mL x 12
	BLC2-8	50 mL x 4
	BLC2-9	1.5 mL x 20 + 0.2 mL x 32
Temperature Setting Range	1-100°C (increment of 0.1°C)	
Temperature Control Range	Ambient -15 to 100°C	
Block Temperature Uniformity	$\leq \pm 0.5^\circ\text{C}$ (20°C-45°C) $\leq \pm 0.8^\circ\text{C}$ (<20°C or >45°C)	
Temperature Accuracy	$\leq \pm 0.5^\circ\text{C}$ (15°C - 100°C)	
Temperature Uniformity	$\leq \pm 0.5^\circ\text{C}$ (20°C-45°C) $\leq \pm 0.8^\circ\text{C}$ (<20°C or >45°C)	
Heating Rate	Heating cooling rate for blocks: ≤ 12 min (25°C to 95°C): BLC2-1, BLC2-2, BLC2-3, BLC2-4, BLC2-5, BLC2-9 ≤ 18 min (25°C to 95°C): BLC2-6 ≤ 21 min (25°C to 95°C): BLC2-7, BLC2-8	
Timer Range	0 to 99 h 59 min	
Speed	300-3000 rpm Max rpm for blocks: 3000 rpm: BLC2-1 2000 rpm: BLC2-2, BLC2-3, BLC2-4, BLC2-5, BLC2-9 1000 rpm: BLC2-6, BLC2-7, BLC2-8	
Amplitude	3 mm (0.11")	
Power Supply, Consumption	100-240V AC, 50/60 Hz, 180 W	
Dimensions (W x D x H)	145 x 310 x 210 mm (5.7" x 12.2" x 8.3")	
Warranty	1 year	
Net Weight	6.3 kg (13.9 lbs)	
Shipping Weight	7.3 kg (16.1 lbs)	
Shipping Dimensions (W x D x H)	420 x 320 x 260 mm (16.5" x 12.6" x 10.2")	

*Note to customer: Specify block when ordering.

ORDERING INFORMATION

Order Information, Provocell™ II Shaking Micro Incubator		
Model Code	Item Code	Description
PV-PVC2	2210041	Provocell™ II, Micro Incubator, 100-240VAC
PV-BLC2-1	2210042	Provocell™ II Incubator Block 1 (384 wells)
PV-BLC2-2	2210043	Provocell™ II Incubator Block 2 (0.2 mL x 96)
PV-BLC2-3	2210044	Provocell™ II Incubator Block 3 (0.5 mL x 54)
PV-BLC2-4	2210045	Provocell™ II Incubator Block 4 (1.5 mL x 35)
PV-BLC2-5	2210046	Provocell™ II Incubator Block 5 (2.0 mL x 35)
PV-BLC2-6	2210047	Provocell™ II Incubator Block 6 (5.0 mL x 12)
PV-BLC2-7	2210048	Provocell™ II Incubator Block 7 (15 mL x 12)
PV-BLC2-8	2210049	Provocell™ II Incubator Block 8 (50 mL x 4)
PV-BLC2-9	2210050	Provocell™ II Incubator Block 9 (1.5 mL x 20 + 0.2 mL x 32)

CHOOSE THE BLOCK APPLICABLE FOR YOUR SAMPLES

Nine Interchangeable Blocks



PV-BLC2-1
384 Wells



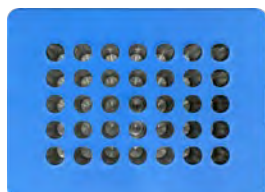
PV-BLC2-2
0.2 mL x 96



PV-BLC2-3
0.5 mL x 54



PV-BLC2-4
1.5 mL x 35



PV-BLC2-5
2.0 mL x 35



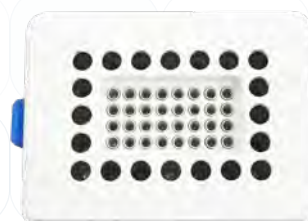
PV-BLC2-6
5.0 mL x 12



PV-BLC2-7
15 mL x 12



PV-BLC2-8
Up to 50 mL x 4



PV-BLC2-9
1.5 mL x 20 + 0.2 mL x 32

По вопросам продаж и поддержки обращайтесь:

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