

SINCE 1889



Yamato Scientific
America

Yamato Vented Balance Enclosures

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NOTES

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines, evenly spaced across the entire page. These lines are designed to help children learn letter formation and alignment by providing a guide for the height and placement of their writing. The background is plain white, and there are no other markings or text present.

Vented Balance Enclosures



VBE204/214/306/316/408/418/600/610

Self-contained units ideal for fine powders, chemicals and biological products



VBE306
115-120V

VBE316
220-240V



VBE408
115-120V

VBE418
220-240V

■ Features

- Includes top mounted HEPA/Blower filtration which are set-up to circulate the internal chamber atmosphere, through the HEPA filter and into the lab.
- The smooth curved, or rounded ABS™ airfoils provide gentle, unobstructed air flow through rear, and side, baffles and through top mounted HEPA filter.
- Constructed with optically clear 3/8" jeweled acrylic plastic
- Front viewing sash with multiple air foils for higher containment and draft deflection
- Includes phenolic base with superior chemical resistance and provides higher analytical balance stabilization
- Low vibrations. The black base allows for easy powder detection.
- Electrical cord outlet port
- Air flow alarm system
- Adjustable front draft protection
- Side blank plate for optional Bag-In / Bag-Out port
- Includes face velocity alarm

HEPA Filters

Aluminum frame with upstream/downstream polyurethane gasket. 100mm thick pleat requires fewer filter change outs and increased longevity. Rate 99.9997% @ 0.3 microns (H14). Easy HEPA filter replacement.

Blowers

High efficiency backward curved impeller. Variable speed controller. IP44 protection as per EN60034-5. Ecodesign Directive 2009/125/EC.

Exhaust Duct

6" OD port can be hard-ducted, thimble conneted, exhausted back into the room, or exhausted out of a mobile laboratory.

Energy and Sound

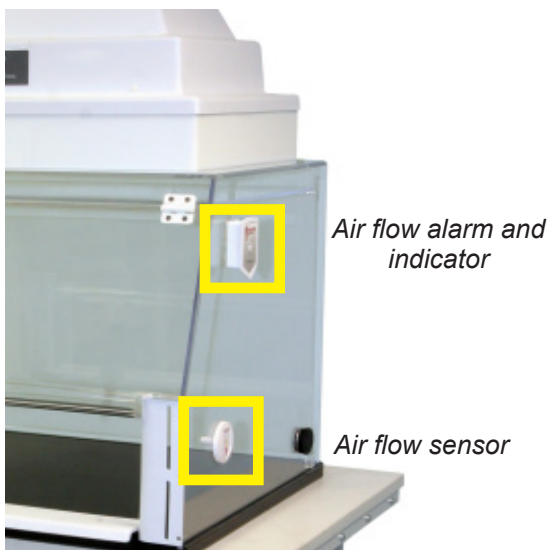
Blower current 0.53 amps. <55 dBA @ 80 FPM

Airflow

Target face velocity: 80 FPM. Non-turbulent, gentle airflow sweeps particulates into the rear baffle.

■ Specifications

Model	Inner Dimensions <i>width x depth x height</i>	Outside Dimensions <i>width x depth x height</i>
VBE204/214	24" x 23" x 21.50" 609 x 584 x 546 mm	26" x 26.75" x 41" 660 x 679 x 1041 mm
VBE306/316	35.25" x 23" x 21.50" 895 x 584 x 546 mm	36.50" x 26.75" x 41" 927 x 679 x 1041 mm
VBE408/418	47.25" x 23" x 21.50" 1200 x 584 x 546 mm	48.50" x 26.75" x 41" 1232 x 679 x 1041 mm
VBE600/610	59.25" x 23" x 21.50" 1505 x 584 x 546 mm	60.50" x 26.75" x 41" 1537 x 679 x 1041 mm



Air flow alarm and indicator

Air flow sensor

AIR FLOW ALARM

- Adds additional security needed for laboratory researchers
- Continuous tracking of air velocities within the balance enclosure
- Includes next generation airflow alarm technology
- Audible and visual alarm functions
- Includes 110V adapter

Specifications	Details
Airflow velocity range	40 -2000 fpm
Response time	< 1 second
Alarm indicators	LED light & audible Piezo
Turbulence warning	Flashing yellow LED rest switch
System failure	Red flashing LED
System Healthy	Green solid LED

Recommended Accessories

PLA-800BIBO/PORT



Bag-In / Bag-Out port includes a long ArmorFlex™ polypropylene bag (48" long) for safe removal of trash and unwanted debris.

Unwanted debris and trash are always contained and are never exposed outside of the containment isolator.

Bag port is 6" OD clear acrylic with two machined grooves for bag placement.

PLA-800BIBO/CRIMPER

Allows safe and secure removal of unwanted debris from inside the balance enclosure.

Trash is removed from the inside of the balance enclosure, through the 6" waste port, and into the bag.

Adjustable Lift Tables



Adjustable height lift tables with locking casters.

Height range: 25" to 45"
635mm x 1143 mm

Maximum weight: 330 lbs.
149 kilos

Product code	VBE
PLA-900CARTLIFT/24	204/214
PLA-900CARTLIFT/36	306/316
PLA-900CARTLIFT/48	408/418
PLA-900-CARTLIFT/60	600/610

Extraction Units



PLA-900EXTRACT

Extraction unit is a variable speed suction housing that includes your choice of filters such as HEPA or Impregnated Carbon. Suction speeds can be adjusted from "0" up to 250 CFM face velocity.

Filter options:

Product code	Model
PLA-900LVFH/HEPA	HEPA filter
PLA-900LVFH/HEPA/CARB	Combination. HEPA / Non-Impregnated Carbon Filter
PLA-900LVFH/CARBON(A)	Alkaline type fumes
PLA-900-LVFH/CARBON(B)	Ammonia or amines
PLA-900LVFH/CARBON(C)	Aromatic hydrocarbons, organic vapors, ketones, alcohols, organic acids, and odors

⚠ Attention

- Never use in flammable or explosive gas atmosphere
- Never use explosive or flammable material
- Caution: High temperature components