



RAINFALL BEDDING DISPENSER  
SELL SHEET

## GENERAL SPECIFICATIONS

All over the United States of America equipment from Vivus Technologies supports the Life Science industry. With insight into the issues that are faced every day in the vivarium, Vivus provides the best solutions to those challenges and serves as a reliable partner.

The Vivus Rainfall Bedding Dispenser ensures reliable, effective dispensing of animal bedding after processing in a tunnel washer (sold separately).

## INTENDED USE

For use in research animal care laboratories and facilities to automatically dispense dry, chip type, free flowing, solid bedding into animal cages.

Model VBD42 dispenses bedding into cages automatically when the cage is conveyed through the filling chamber. Dispensed bedding volume is adjustable to accommodate various depths and sizes of cages.

The bedding dispenser can accommodate a large variety of bedding types from multiple manufacturers. Typical characteristics of bedding that is easily dispensed are small hardwood chips such as virgin, debarked maple, beech, birch or poplar, individually or mixed. Also easily dispensed is corn cob and paper-type loose animal bedding. Other bedding types may be dispensed into the bedding dispenser but may require additional options or equipment modifications.

Please consult the factory to be sure your bedding will perform well in the VBD42 Rainfall Bedding Dispenser.

## FEATURES AND BENEFITS

**STAINLESS STEEL CONSTRUCTION** – the dispenser, conveyor cage transfer belt, and the bedding filling system is manufactured from stainless steel.

**HOPPER CAPACITY** – the bedding storage capacity is 12 cubic feet (0.34 cubic meters).

**OPERATOR CONTROL PANEL** – a stainless-steel operator control panel containing ON/OFF switches for bedding transfer is provided on the front of the unit. Operational indicating lights and a conveyor dispensing filling rate switch are provided.

**EASY HOPPER LOADING** – the storage hopper located on the side of the unit is filled by dumping the bedding from the bag into the stainless-steel hopper. The storage hopper is equipped with a stainless-steel lid and safety gate. If the safety gate is removed during the operation of the unit, the cycle will cease in operation until it is replaced protecting the operator from the moving dispensing mechanism.

**AUTOMATIC DISPENSING** – the machine works with a tunnel washer. As the cages pass under the filling section, bedding is automatically dispensed into the cages. Bedding levels can be altered by changing the speed of the filler conveyor rollers.

**POWERED ROLLER CONVEYOR SYSTEM** – the cages are transported through the automatic dispensing unit by rubber coated, powered stainless rollers. The rollers are provided with stainless steel roller bearings. The roller system has no pinch points and will not carry the bedding out of the dispensing section.

**WATER COLLECTION AREA WITH DEBRIS SCREEN** – located at the load section is a stainless-steel water collection tank that drains any excess water from the cages preventing it from entering the dispensing area. Provided is a stainless-steel removable drawer debris screen to collect any item that may have fallen onto the load area of the bedding dispenser.

**EXHAUST** – dispenser is equipped with an exhaust vent connection and a washable inline filter. The exhaust vent cannot be tied into the exhaust vent system from the washing equipment. The exhaust from the bedding dispenser has dust particles and must be kept dry through the entire exhaust system. (NOTE: filter not required if the optional Dust Collection System is selected)

## OPTIONAL FEATURES AND BENEFITS

**DUST COLLECTION SYSTEM** – the dispenser is provided with a dust collection system to remove dust generated by the filling operation and eliminate the need for connection to building exhaust. The system consists of a minimum 1.0 HP blower with a max sound level of 78 decibels and a 36-gallon container connected to the vent of the dispenser. The system is electrically connected to the bedding dispenser.

**KNOCK DOWN SHIPMENT** – the unit is shipped disassembled to fit through a 36"x82" door for entry into existing facilities. Equipment to be reassembled by Vivus non-union technicians. After all connections have been made to the machine, Vivus will provide a service technician to startup and demonstrate the equipment.

**SEISMIC ANCHORING** – tie down anchoring package per California Administrative Code Zone 4.

**NON-FUSED ELECTRICAL DISCONNECT** – provided is a NEMA 4X UL listed fused disconnect switch of an adequate size to handle the electrical load of the dispenser. The switch is mounted on the machine according to the local Electrical Code.

**POWERED EXTENSION TABLE** – extends the output side of the dispenser:

- Four (4) foot extension
- Six (6) foot extension

**UNLOAD ROLLER TABLE NON-POWERED** – provided is a stainless steel, roller-type, gravity roller table at the output end of the dispenser to facilitate unloading. Conveyor rollers have corrosion free bearings and shafts. 4-, 6-, or 8-foot lengths available.

**PRESEPARATOR** – an attachment is provided to automatically manage the floor of bedding from a vacuum bedding distribution system (purchased separately) into the bedding dispenser hopper to allow continuous operation of the system. Option adds 55" of height from top of machine.

**STANDARDS & CODES**

UL 508A

**ORDERING INFORMATION – SELECT OPTIONS:**

| MODEL  | BELT WIDTH                                      |
|--|---|
| <input type="checkbox"/> VBD42   | 42" (914 mm)<br>For use with 36"W Tunnel Washer |
| <input type="checkbox"/> Custom belt width: _____<br>For tunnel width: _____ |   |

**LOCATION OF SERVICE ACCESS/CONTROLS**

- Right Hand Service Access and Control
- Left Hand Service Access and Control

**VOLTAGE SUPPLY**

- 120 Volt, 1-phase, 60Hz
- 220 Volt, 1-phase, 60Hz
- 208 Volt, 3-phase, 60Hz
- 240 Volt, 3-phase, 60Hz
- 480 Volt, 3-phase, 60Hz

**OTHER EQUIPMENT OPTIONS**

- Dust collection system
- Knock down shipment
- Seismic anchors
- Non-fused electrical disconnect
- Preseparator
- Powered extension conveyor – unload
  - Four-foot extension table
  - Six-foot extension table
  - Custom length \_\_\_\_\_ft
- Roller table (non-powered) – unload
  - Four-foot extension table
  - Six-foot extension table
  - Eight-foot extension table
  - Custom length \_\_\_\_\_ft

| UTILITY REQUIREMENTS      |   |
|---------------------------|---|
| VBD42 MODEL               |   |
| Electrical – single phase | 60Hz, 1.8 kW<br>120V, 1 phase – Rec Fuse 20A<br>220V, 1 phase – Rec Fuse 12A  |
| Electrical – three phase  | 60Hz, 8 kW<br>208V, 3 phase – Rec Fuse 7A<br>240V, 3 phase – Rec Fuse 6A<br>480V, 3 phase – Rec Fuse 3A<br>Note: dust collector option increases amperage use. See submittal drawing for usage. |
| Exhaust                   | 4" Dia (100 mm)<br>650 SCFM (18.4 m3/h)<br>Or select optional dust collector  |
| Weight                    | 1200 lb (544 kg) empty  |
| Bedding capacity          | 15 cubic feet (0.43 cubic meters)   |

NOTES TO UTILITIES TABLE

- A dedicated disconnect switch shall be installed by others in accordance with all NEC and local electrical codes.
- Exhaust System Connection (performed by others): the exhaust vent cannot be tied into the exhaust vent system for the washing equipment. The exhaust from the bedding dispenser has dust particles and must be kept dry through the entire exhaust system.
- Exhaust connections are not required when the optional dust collection system is selected.
- Facility Requirements:
  - Minimum door opening enroute to equipment room: 48"W x 80"H
  - Minimum hallway width: 97"W
  - Shipping cartons maximum dimensions are: 47"W x 79"H x 100"L
  - For other ingress dimensions please consult factory.
  - Please notify factory of obstructions that may inhibit delivery/installation of system.

