



Engineering Specifications

Model BD32SA Stand-Alone Bedding Dispenser

1.0 General Description:

1.1 The BD32SA series bedding stand-alone dispenser unit shall automatically dispense bedding into two cages simultaneously when the cages are placed manually into the filling chamber. The amount of bedding needed per cage shall be fully adjustable and the unit shall accommodate various types of bedding materials.

1.2 The unit shall be for use in animal research laboratories and facilities to dispense a consistent amount of dry, solid bedding into animal cages.

2.0 Dimensions:

MODEL	MAXIMUM CAGE SIZE	EXTERNAL OVERALL SIZE
BD32SA	13" x 13"	41" wide x 30" deep x 93" high

3.0 Operation:

3.1 The unit shall be filled with bedding by dumping bedding material through the work load grid into the lower storage hopper.

3.2 To fill cages, the operator shall place one or two cages on the work load surface under the filler heads positioned towards the back of the unit. The cages shall automatically be filled and shall then be removed by the operator.

4.0 Standard Features:

4.1 **STAINLESS STEEL CONSTRUCTION:** The structural supports, upper and lower hoppers, and work area load grid shall be of Heavy Gauge T304 Stainless Steel welded construction. All exterior surfaces shall be #3 finish.

4.2 **HOPPER CAPACITY:** The bedding storage capacity shall be a minimum of 15 cubic feet (.425 cubic meters).

4.3 **EASY ACCESS BEDDING LOADING:** The bedding material shall be loaded into the unit's lower storage hopper through the 33" high work area load grid from the front of the unit.

4.4 **AUTOMATED BEDDING CONVEYOR:** The bedding material shall be conveyed from the lower storage hopper to the upper dispensing storage hoppers by a continuous paddle type

conveyor, driven by a 1/3 HP motor equipped with a gear reducer and a safety clutch. A level control shall be provided in the upper dispensing storage hopper to ensure that the proper amount of bedding material is stored in the upper hopper.

4.5 **STAINLESS STEEL LOAD GRID:** The work surface shall consist of a removable stainless steel grid welded from 3/8" diameter rods. The load grid shall provide a solid work load surface for the operator and shall allow bedding spillage to fall through and be automatically returned to the upper dispensing hopper.

4.6 **AUTOMATIC DISPENSING:** A mechanical lever and micro switch activated by the presence of a cage shall automatically cause the cage to be filled with bedding to a pre-set depth. The bedding fill depth shall be fully operator adjustable by a front panel-mounted timer to accommodate various sizes of cages and bedding depths.

4.7 **TWIN CAGE FILLING:** The unit shall accommodate two cages at one time.

4.8 **OPERATOR CONTROL PANEL:** An operator control panel providing ON/OFF switches for the bedding conveyor, main power, and the dispensing station shall be provided on the front of the unit. An adjustable reset timer shall be provided to adjust cage filling to desired levels.

5.0 Optional Features:

5.1 **DUST COLLECTION SYSTEM:** The dispenser shall be provided with a dust collection system able to remove and filter dust generated by the filling operation to 50 microns and shall eliminate the need for any connection to the building exhaust. The system shall consist of a 1.0 H.P. blower and 36 gallon container connected to the vent of the dispenser. The system shall be integrally wired with the bedding dispenser and an ON/OFF switch shall be provided on the operator control panel.

5.2 **AIR COMPRESSOR:** If compressed air is not available at the installing site, the unit shall be supplied with a portable air compressor. This compressor shall be installed at the unit or shall be shipped loose for remote installation by the owner, at the owner's pleasure,

5.3 **MOBILITY OPTION:** Unit shall be supplied with lockable swivel Stainless Steel Casters for ease of moving unit to other locations. Unit shall be supplied with 10' cord and plug for wall outlet.

6.0 Utility Requirements:

	MODEL BD32SA	MODEL BD32SA With Dust Collection System
Electrical	120V, 60hz, 1ph, 15A	120V, 60hz, 1ph, 20A
Compressed Air	1/4" FPT, 80 PSI, 1 SCFM Flow Rate	1/4" FPT, 80 PSI, 1 SCFM Flow Rate
Powered Exhaust	4" DIA. 650 CFM	n/a
Operating Weight	970 lbs. (440 kg.)	1000 lbs. (453 kg.)
Shipping Weight	1,300 lbs. (590 kg.)	1,350 lbs. (612 kg.)