

# PRODUCT DATA SHEET

September, 2003

## MODERN MFG. VACUUM DEWATERING BOX

### GENERAL INFORMATION

These vacuum-rated containers can be used to dewater solid sludges. They use a disposable filter cloth to enhance dewatering efficiency. The box can be cleaned without removing any components or filter panels because of the space between the screen supports and box walls.

### WEIGHTS AND MEASURES

➤ <b>Capacity:</b>	..... 24.9 cubic yards
➤ <b>Height:</b>	..... 6'-4" (grade to top of domed lid)
➤ <b>Width:</b>	..... 8'-0" (between extremes)
➤ <b>Length:</b>	..... 21'-1 1/4" (between extremes)
➤ <b>Inside Dim.:</b>	..... 74"Wx39 1/2"Hx209"L ("filter box" dims)
➤ <b>Weight:</b>	..... 14,000 lbs. (empty)
➤ <b>Dewatering Surface Area:</b>	..... 152 ft <sup>2</sup> (approx.)

### STRUCTURAL DESIGN

➤ <b>Shell, Bottom Half:</b>	..... 1/4" steel plate
➤ <b>Shell, Top Half:</b>	..... 1/4" steel plate
➤ <b>Main Rails:</b>	..... 2"x6"x1/4" rectangular tubing
➤ <b>Door Sheet:</b>	..... 1/4" steel plate
➤ <b>Door Frame:</b>	..... 4"x4"x1 1/2 ga. Square tubing
➤ <b>Top Lateral Frame:</b>	..... 6"x6"x1/4" square tubing, 1/4" plate formed channel
➤ <b>Front Posts:</b>	..... 3"x6"x3/16" rectangular tubing
➤ <b>Latch Post:</b>	..... 3"x6"x3/16" rectangular tubing
➤ <b>Hinge Post:</b>	..... 3"x6"x3/16" rectangular tubing
➤ <b>Side Posts:</b>	..... 1/4" plate formed channel

### FEATURES

➤ <b>Wheels:</b>	..... Front wheels 2" higher than rear wheels
➤ <b>Nose Rollers:</b>	..... 2 - 4" diameter x 6" long
➤ <b>Top Manway:</b>	..... 1 - 21" domed lid
➤ <b>Manway Seals</b>	..... Neoprene

### FEATURES - cont

➤ <b>J-Hook:</b>	..... 1 1/4" thk. front hook, 1 1/4" thk. rear pullback
➤ <b>Hinges:</b>	..... Plate/tube assembly w/1" diameter pin
➤ <b>Locking Mechanism:</b>	..... Vertical latch with four independent ratchet binder sealing system
➤ <b>Grease Fittings:</b>	..... Located in wheels, nose rollers and door hinges
➤ <b>Manifest Tube</b>	..... 1 1/4" pipe w/cap located on front
➤ <b>Ladder:</b>	..... One located at center on driver side
➤ <b>Ports:</b>	..... Door: 1-8" flange, 1-4" flanged drain, 2-3" nipples capped & chained Front: 1-8" flange, 1-4" flange, 2-6" nipples (washouts) capped & chained
➤ <b>Deflectors:</b>	..... None
➤ <b>Door Gasket:</b>	..... Extruded neoprene
➤ <b>Filter Basket:</b>	..... Perforated plate floor with expanded metal sides and front door panels (coated w/ Phenoline 309)
➤ <b>Filter Media:</b>	..... 150-micron filter cloth (consumable), non-woven polypropylene, or a 30x40 mesh woven polypropylene custom sewn to fit contour of box.

### SURFACE DETAILS

➤ <b>Exterior Coating:</b>	..... Carboline Acrylic Polyurethane Carbothane 8812
➤ <b>Interior Lining:</b>	..... None
➤ <b>Equipment Number:</b>	..... Welded on front, painted on all sides
➤ <b>Decals:</b>	..... 4-DCLB: Property of Baker Tanks... 2-DCLD02: Danger-Do Not Enter... 2-DCLW01: Warning - This Container...
➤ <b>Placard Mounts:</b>	..... Four - one on each side and each end

### TESTS/CERTIFICATIONS

➤ <b>Tests Performed:</b>	..... 28" Hg vacuum test of design, hydrostatic test and visual inspection
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