

Layne Christensen Company
Water Treatment Division

INDUCED DRAFT AERATOR
Data Sheet

- II. Aerator:
 - a. Model Number.....IDA-144.10
 - b. Number of Units2
 - c. Design Flow Rate2,520 gpm
 - d. Air to Water Ratio29.3 to 1
 - e. Design Liquid Loading Rate15.6 gpm/ft² total tray area
- III. Shell Specification:
 - a. Nominal Size144" x 144" square
- IV. Overall Height:14'-9"
 - a. Material.....3000 series Aluminum
 - b. Thickness1/4-inch
- V. Tray Specification:
 - a. Size1-1/4" Angle
 - b. Material.....PVC
 - c. Horizontal Spacing4-1/2" on center
 - d. Vertical Spacing5" on center
- VI. Tray Support Specifications:
 - a. Number.....4
 - b. Material.....304 SS
 - c. Rod Size.....11 gauge (0.12-inch dia)
 - d. Grid Size.....1-1/8" x 2-1/8" Grid
- VII. Liquid Distribution:
 - a. Number.....1
 - b. TypeOrifice Plate w/Air Stacks
 - c. Material.....3000 Series Aluminum
- VIII. Connections:
 - a. Inlet Pipe14" Diameter, Flanged
 - b. Outlet Pipe.....18" Diameter, Flanged

- IX. Mist Eliminator:
- a. Type 2-1/2-inch angles (Baffles)
 - b. Offset..... 1-1/2-inch centers
 - c. Material..... Aluminum
- X. Anchoring Arrangement
- a. Number of Bolts..... 4 (by others)
 - b. Minimum Bolt Diameter 7/8 inch
 - c. Bolt Material 304 Stainless Steel
 - d. Required Length Above Concrete 1-1/2"
- XI. Approximate Weights:
- a. Empty 5,900 lbs
 - b. Packed (w/Slats)..... 6,500 lbs
 - c. Operating..... 28,500 lbs