



# HUMBOLDT

## Specific Gravity (Rice Test) Testing Equipment

### Rice Test Pycnometers

#### Vacuum Pycnometer Set— H-1750

Used in Rice testing to determine the maximum specific gravity of bituminous paving mixtures with maximum aggregate size up to 19.1mm (3/4in.). 2000g capacity, 7-1/2" ID x 6" depth. Set includes aluminum volumetric canister; volumetric lid; flat, Plexiglas vacuum lid with o-ring; volumeter; release valve and fittings, and a metal water vacuum aspirator with 3/8" IPT and 6' hose. Unit achieves vacuum using the aspirator or optional vacuum pump. Meets ASTM D2041; AASHTO T209, T283.

#### Small Vacuum Pycnometer Set— H-1751

Same as H-1750 except 1500g capacity, 7-1/2" ID x 4" depth.

**H-1750 and H-1751 Pycnometers are also available in stainless steel.**

#### Large-Capacity Vacuum Pycnometer Set— H-1820

Large-capacity unit, 10L (2.64 gal.), 6000g (13.2 lbs.) sample weight, with maximum aggregate size of 50mm (2in.). Set features domed transparent cover for easy observation of sample testing, perforated plastic shelf, which some States require; water inlet valve and 1/4" ID hose, vacuum hose and aspirator with 3/8" NPT fitting. Flange OD is 10-3/4" (273mm); maximum clearance above plate is 7-3/4" (197mm). Dimensions: 9-7/16" ID x 12-1/8" (240 ID x 311mm). Meets AASHTO T209, T283.

#### Digital Manometer— H-1754D

#### Digital Manometer, Certified— H-1754DCA

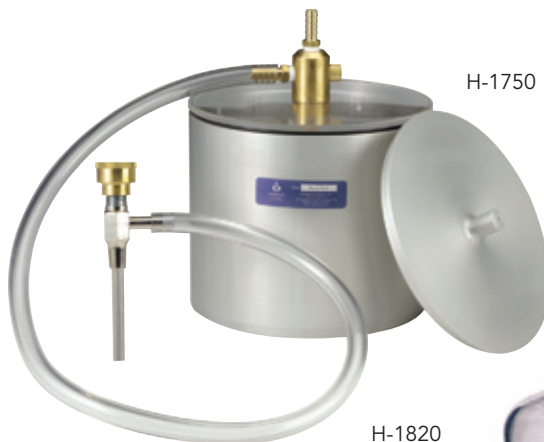
A precise measurement device designed to replace mercury-filled manometers used in Rice test applications. This portable, hand-held device can be easily moved around the laboratory. Holes are provided for bench or wall mounting and a 3/8" barb fitting is used for quick connections. The instrument features a digital display range of 0 to 1000mm Hg (absolute) at a resolution of 0.1mm Hg. The device has a rated accuracy of +/-0.5% full scale and is powered by one 9V battery.

#### Slow Release Valve for Vacuum Pycnometers— H-1749

For use with H-1750, H-1751 and H-1820 for greater accuracy and shorter dry back time. Brass valve maintains 30mm vacuum pressure on sample. Meets ASTM D2041, AASHTO T283.



Typical Rice Test Setup



H-1750



H-1820



H-1754D



H-1749

# Specific Gravity (Rice Test) Equipment

## Orbital De-Airing Table for H-1750 Pycnometer— H-1782

The Humboldt Orbital De-Airing Table is designed for use in maximum specific gravity and density determinations of bituminous paving mixtures. Through the use of an orbital shaking action, material densification that entraps air is virtually eliminated, resulting in more accurate and uniform test results. The H-1782 incorporates a variable speed controller with a range of 10 to 250 rpm and an LED programmable timer with an accuracy of better than  $\pm 0.1\%$ . The orbital diameter of the 11" x 12" (279 x 305mm) table is set at 1-1/2" (38.1mm). Taking up little counter space, the base is 10" x 10" (154 x 154mm) and has an overall height of 16" (406mm). Quick release clamps are used to permit quick mounting and removal of the pycnometer.

Shipping wt. 28lbs (13kg)

**Note: For 220V operation, order H-1042 Transformer.**



H-1756A

## Vibrating Table for H-1750 Pycnometer— H-1756A

### Vibrating Table for Pycnometer, 220V 50Hz— H-1756A.5F

Heavy-duty vibrating tables keep sample material loose for more reliable test results. Strong, rugged-duty vibrators and sturdy bases having integral, heavy-duty on/off switches. Exclusive quick-release cam/lock fasteners allow quick placement and removal of canister.

## Vibrating Table for H-1820— H-1826A

### Vibrating Table for H-1820, 220V 50Hz— H-1826.5F

Heavy-duty vibrating table keeps sample material loose for more reliable test results. Strong, rugged-duty vibrator and sturdy base have integral, heavy-duty on/off switches. Exclusive quick-release cam/lock fasteners allow quick placement and removal of canister. Shipping wt. 12lbs (5.4kg)



H-1753 shown in use with H-1782

## Flask Attachment— H-1753

For use with H-1756A and H-1782, flask not included.

## Indicating Drierite Air Drying Unit— H-1759

Easily installs in-line between vacuum pump and rice test equipment. This refillable unit measures 2-5/8" by 11-3/8" (667 x 289mm) with hose barbs at both ends, which can accept 1/4" to 3/8" flexible tubing. Supplied complete with 650g of indicating desiccant.

## Drierite Desiccant— H-1757

Meets ASTM D2041.

## Indicating Drierite Desiccant— H-1758

Blue desiccant turns red to show absorption and may be reused.



H-1759



H-1757



H-1758