

The DVR-1000 and DVR-1500 digital vacuum regulators provide precise measurement and control of vacuum at 300 mm Hg below atmospheric pressure. Vacuum set point can be altered to any value within the operational range of 28 mm Hg to 410 mm Hg below atmospheric pressure. Solid state components contain no hazardous mercury.

#### Common Applications

- Asphalt cement
- Asphalt binders

# DVR-1000/DVR-1500

## Digital Vacuum Regulators

For Precise Measurement and Control of Vacuum at 300 mm Hg Below Atmospheric Pressure  
ASTM D2171

### Product Features & Benefits

#### Precise control of vacuum

- Operating range: 28 mm Hg to 410 mm Hg below atmospheric pressure  $\pm 0.5$  mm Hg
- Supplied with NIST certification of measurement accuracy
- Comes preset to regulate vacuum at 300 mm Hg below atmospheric pressure [consistent with ASTM D2171 requirements]
- Displays vacuum level in mm Hg or one of nine other units of measure

#### Configurable to user-specific needs

- Vacuum set point may be altered to fit customer specific application needs
- Vacuum source:
  - DVR-1000 uses in-house laboratory vacuum
  - DVR-1500 uses a built-in vacuum pump
- Horizontal and vertical orientations are available in both models
- Horizontal orientation supports the weight of most constant temperature baths

#### Safe, user-friendly design

- Solid state components contain no hazardous mercury
- Convenient keypad entry
- CANNON reputation ensures reliability and dependable support



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# DVR-1000 and DVR-1500 Digital Vacuum Regulators

## Ordering Information

DVR-1000 and DVR-1500 Digital Vacuum Regulators consist of either a horizontally or vertically positioned vacuum regulator. The DVR-1500 also comes with a built-in vacuum pump. Both the DVR-1000 and the DVR-1500 are supplied with a NIST certification of measurement accuracy.

Description	Part #
DVR-1000 [requires vacuum source]	
120 VAC, 50/60 Hz, horizontal	9726-T20
240 VAC, 50/60 Hz, horizontal	9726-T23
120 VAC, 50/60 Hz, vertical	9726-T25
240 VAC, 50/60 Hz, vertical	9726-T27
DVR-1500 [with built-in vacuum pump]	
120 VAC, 50/60 Hz, horizontal	9726-T60
240 VAC, 50/60 Hz, horizontal	9726-T63
120 VAC, 50/60 Hz, vertical	9726-T65
240 VAC, 50/60 Hz, vertical	9726-T67

## Accessories & Consumables

Description	Part #
CANNON pressure/vacuum pump	9726-L96
3VM vacuum manifold, 3 valves	9726-V10
4VM vacuum manifold, 4 valves	9726-V05
Neoprene vacuum tubing, 10 ft [1/4 in bore x 5/8 in OD]	9726-V23

## Product Specifications

Dimensions (W x D x H)	<b>Horizontal:</b> 47 cm x 45.8 cm x 17.2 cm [18.5 in x 18 in x 6.75 in] <b>Vertical:</b> 17.2 cm x 47 cm x 45.8 cm x 17.2 cm [6.75 in x 18.5 in x 18]
Weight	20 kg [45 lb]
Shipping dimensions (W x D x H)	63.5 cm x 63.5 cm x 33 cm [25 in x 25 in x 13 in]
Shipping weight (with all items)	29.5 kg [65 lb]
Vacuum range & accuracy	28 mm Hg to 410 mm Hg below atmospheric pressure $\pm$ 0.5 mm Hg* *comes preset to 300 mm Hg below atmospheric pressure
Safety limit	746 mm Hg below atmospheric pressure
Operating conditions	15 °C to 30 °C, 10% to 75% relative humidity (non-condensing), Installation Category II; Pollution Degree 2
Electrical specifications	120 VAC, 50/60 Hz; 240 VAC, 50/60 Hz; 100 watts power consumption (without pump); 175 watts power consumption (with pump)
Compliance	CE Mark; EMC directive [2004/108/EC]; Low voltage directive [2006/95/EC]; HI-POT [1900 VDC, 60 sec.]; ROHS

CANNON Instrument Company® provides a variety of physical property testing equipment and consumables (vials, bath fluids, and reference materials) for your testing needs. To learn more, contact [sales@cannoninstrument.com](mailto:sales@cannoninstrument.com).



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