

AUTOMATIC
VAPOR
PRESSURE
TESTER
(Reid Method, Demi Size)
Model

AVP-30D



AVP-30D-2cylinders

AVP-30D series carries out the Reid Vapor Pressure test prescribed in ASTM D323 and IP69, AVP-30D has been developed after its well received predecessor, AVP-21D/22D series, with further enhancement in the electronics. The new features include easy switch between display in kPa and kgf/cm² units, water level monitor for safety, and communication capability with external computers.

EASY HANDLING: Compact size cylinders allow easier handling, yet yielding the same test results compared to the heavy full size cylinders. (The V/L ratio of 4 is maintained, and therefore equivalent test result is obtained).

Note- The suffix "D" followed by "AVP-30" stands for "Demi size.

COMPACT SIZE: Width is merely 400mm, and the footage on the lab bench is at minimal.

PRECISE RESULTS: Semiconductor type vapor pressure sensor and reliable/efficient see-saw shaking mechanism are employed. The semiconductor sensor is extremely stable, yielding consistent test results.

TRACEABLE: The pressure sensor can be calibrated easily using a Digital Manometer (Optional).

SPECIFICATIONS:

RELATED STANDARDS:

ISO 3007, ASTM D323, IP69 etc.

TYPE:

Bench-top with 2,3, or 4 Demi-size cylinders

Pls. Indicate number of cylinder when ordering

Automated continuous shaking of test cylinder by "see-saw" motion.

MEASURING RANGE:

0 to 196kPa (2kgf/cm²)

TEST CYLINDERS:

Small size stainless steel cylinders with 66% in length and 31% in volume compared to the regular full size cylinders.

The V/L ratio of 4 is the same as full size cylinder.

A "Quick Coupler" is equipped at the center of the vapor cylinder for connecting to external pressure sensor located inside of the tester

PRESSURE SENSOR:

Semiconductor type pressure sensor.

Range: 0 to 196kPa (2kgf/cm²)

Linearity: <0.3% of the range

Hysteresis: <0.3% of the range

DISPLAY:

LCD with back light

Pressure display range: 0 to 200kPa or 0 to 2kgf/cm²

SHAKING:

By "see-saw" movement with angular movement of +/-15 degrees and interval of 6 sec

BATH:

Temperature Range: Ambient to 60°C

Temp control: Digital controller/display with PT-100 Sensor,

Precision: +/-0.1°C

Stirring: By propeller driven by motor

Heater: Stainless sheathed heater 1.15kW

CALIBRATION:

By connecting a Digital Manometer (optional) to the pressure sensor

SAFETY MECHANISM:

Water level monitoring device for preventing overheating due to low water level

RS-232C 1 channel (for PC or Optional Printer)

DIMENSION & WEIGHT:

400W x 600D x 720H (mm),

50kg when dry, 85kg when filled with water

INSTALLATION SITE:

Ambient temperature: 0 to 40 °C

RH: Less than 90%(no condensation)

POWER SUPPLY:

AC100/120V or 220/240V 50/60Hz

(set at the factory) 1.5kW(max.)

ORDERING INFORMATION:

STANDARD ACCESSORIES:

	2 cylinders	3 cylinders	4 cylinders
1. Test Cylinders	2 sets	3 sets	4 sets
2. Thermometer ASTM-18C	1 pc	1 pc	1 pc
3. Spare Packing for Cylinders	4 pc	6 pc	8 pc
4. Spare Fuse	1 pc	1 pc	1 pc
5. Water Hose, 2m	1 pc	1 pc	1 pc
6. Water Hose Band	1 pc	1 pc	1 pc
7. Silicone Plug No.3	1 pc	1 pc	1 pc
8. Connecting Tube with Teflon Ferrules	2 sets	3 sets	4 sets
9. Air Pipe	1 pc	1 pc	1 pc
10. Pressure Releasing Jig	1 pc	1 pc	1 pc
11. Instruction Manual	1 copy	1 copy	1 copy
12. Quick Coupler 1S	1 pc	1 pc	1 pc
13. High Pressure Hose, 3m	1 pc	1 pc	1 pc
14. High Pressure Hose Band	2 pc	2 pc	2 pc

OPTIONAL ACCESSORIES:

AVP-02-012 Digital Manometer, KDM30 with quick Coupler (with Certificate)

AVP-02-013 Handy Air Pump

070-00-068 Printer, BS2-80TS with AC Adapter and Connecting Cable

SUGGESTED SPARES:

- 000-02-071 Thermometer ASTM-18C 1pc
- AVP-02-401 Packing for Cylinder 5pcs/cylinder
- 320-00-012 Fuse MHS-10A(220/240V) or 320-00-014 Fuse MHS-20A(100/120V) 1pc
- AVP-02-403 Connecting Tube with PTFE Ferrules 1set/cylinder

Distributor:

Andisheh Tajhiz Arya Company Ltd.,
Shariati st., between Somayeh and Taleghani
ave., Mashayekhi alley, Jawaheri Bldg, 3rd
Floor, unit no. 34-, Tehran-Iran.
Tel.: 0098-21-77625077 to 9
Fax: 0098-21-77 500 240
www.andishehtajhiz.ir
Email: sales@andishehtajhiz.ir

TANAKA SCIENTIFIC LIMITED

7-10-3, Ayase, Adachi-ku, Tokyo 120-0005 Japan
Tel: +81-3-3620-1711 Fax: +81-3-3620-1713

URL: <http://www.tanaka-sci.com>

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