

AUTOMATIC VAPOR PRESSURE TESTER (Reid Method, Demi Size) Model **AVP-30D**



AVP-30D-4bombs & Mercury Manometer

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 bombs allow easier handling, yet yielding the same test results compared to the heavy full size bombs. (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 seesaw shaking mechanism are employed. The semiconductor sensor is extremely stable, yielding consistent test results.

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

TANAKA

Automatic Vapor Pressure Tester, model AVP-30D

SPECIFICATIONS:

RELATED STANDARDS:

ISO 3077, ASTM D323, IP69 etc.

TYPE:

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

Pls. Indicate number of bomb when ordering

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

MEASURING RANGE:

0 to 196kPa (2kgf/cm²)

TEST BOMBS:

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

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

A "Quick Coupler" is equipped at the center of the vapor chamber 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:

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 mercury manometer (optional) to the pressure sensor

SAFETY MECHANISM:

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

DATA OUTPUT:

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

Specifications subject to change without prior notice.

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-bomb	3-bomb	4bomb
1. Test Bombs	2 sets	3 sets	4 sets
2. Thermometer ASTM-18C	1 pc	1 pc	1 pc
3. Spare Packing for Bombs	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 Pipe with Teflon Fittings			
	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 сору	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*
* These items are not includes when ordering together			

*: These items are not includes when ordering together with mercury manometer

OPTIONAL ACCESSORIES:

Mercury Manometer, Single Glass Tube Type

0 to 100kPa or 0 to 147kPa with 0.2kPa division Air Compressor for Mercury Manometer, 0.2P-5S Printer, CBM-510

SUGGESTED SPARES FOR 2 YEARS:

Thermometer ASTM-18C

1

1pc

- 2. Spare Packing for Bomb 5pcs/bomb
- 3. Fuse MHS-10A(100/120V) or MHS20A(220/240V) 1pc
- 4. Connecting Pipe with Teflon Fittings 1set/bomb

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