

MULTI-MODE

2

81000-2 SETAVAP 2

ASTM D5191; IP 394; IP 409 (37.8°C); IP 481; EN 13016-1; EN 13016-2 (37.8°C)
 Correlates with: D323; D4953; D5482; D6378; IP 69; IP 402 (obs); ISO 3007; EN 12 (obs); JIS K2258; NF M07-079

- Rapid automatic vapour pressure testing
- Automatic drain and purge
- "Mini" method uses only 3ml sample size
- Selectable units - kPa or psi
- Results available as Ptot, DVPE, EPA, Crude, Pabs
- Audible and on-screen prompts
- RS232 interface

The Setavap 2 is an automated instrument for the measurement of the vapour pressure of gasoline, solvents, light crude oils, and other similar products using the "Mini" test method.

Fully evacuated chamber technology guarantees that the sample is tested under a full vacuum, as required by the "Mini" test methods, unlike the expansion technologies that rely on moving pistons.

All functions are accessed via a two button keypad and a rotary control. The digital display leads the operator through the test sequence, displays the instrument status and the test results. An audible prompt is sounded when an action is required from the operator.

A sample is injected through a septum into a fixed volume chamber that is maintained at 37.8°C ± 0.1°C. The vapour to liquid ratio is 4:1. The pressure is automatically measured at one minute intervals until three readings are within 0.1 kPa, which determines the end of the test.

Results can be displayed as total pressure (Ptot), dry vapour pressure equivalent (DVPE), EPA requirements, or Reid (crude) using pre-programmed correlation equations, and may be printed via the integral RS232 port and optional 81002-0 printer. A facility is included to allow two part tests (Pabs) to be conducted at 37.8°C.

All valve operations are automated including sample draining and chamber venting and purging. The valves utilise solvent resistant Kalrez seals.

Calibration of temperature and pressure is automated and simple to carry out.

SUPPLIED WITH: Septum holder, waste container, mains lead, and instruction manual.

SPECIFICATIONS	
Test Temperature:	38.7°C (100°F) ± 0.1°C
Test Pressure Range:	0 to 200kPa ± 0.5kPa (0 to 29psi ± 0.1psi)
Pressure Resolution:	0.1kPa (0.1psi)
Sample Size:	3ml
Vapour to Liquid Ratio:	4:1
Display Units of Pressure:	kPa or psi (User selectable)
Vacuum Requirement:	better than 0.01kPa (abs)
Voltage:	110/120V or 220/240V, 50/60Hz (switchable)
Power:	70W
Size (HxWxD):	37 x 13 x 20cm
Weight:	3.5kg

81000-2 Test Sequence



81000-2 with 81003-0

- CALIBRATION & VERIFICATION MATERIALS
- SETALERT COMPATIBLE
- SETAPLUS EXTENDED WARRANTY AVAILABLE
- TECHNICAL DATASHEETS AVAILABLE

ACCESSORIES - Setavap 2

REQUIRED	
22422-6	VACUUM PUMP
22420-033	SEPTUM, pack of 250 (1 required per test).
81003-0	SYRINGE, 5ml and needles.
OPTIONAL	
80004-0	VACUUM PUMP (for details see page 136).
81002-2	PRINTER
93700-2	LABORATORY REFRIGERATOR, (for details see page 140).
45000-0	SETAPLUS EXTENDED 12 MONTH WARRANTY
CALIBRATION, VERIFICATION & TRAINING	
80007-3	MCLEOD GAUGE, (for details see page 146).
80008-0	DIGITAL VACUUM GAUGE, (for details see page 148).
99910-0	PORTABLE DIGITAL BAROMETER, 75 to 115kPa absolute, (for details see page 145).
99922-0	DIGITAL THERMOMETER, (for details see page 130).

CONSUMABLES - Setavap 2

2 Years/2000 Tests		Qty
22420-033	SEPTUM, pack of 250	3
81003-0	SYRINGE, 5ml and needles	1
81003-001	SYRINGE, 5ml, c/w LeurLock	1
81003-002	NEEDLE for 81003-001, pack of 2	1