

ORBIS BV PAM DISTILLATION UNIT

PRECISION AUTOMATED MANUAL DISTILLATION UNIT

ASTM D86; D850; D1078; E123; IP 123; IP 191; IP 195; EN 3405; BS 2000 Parts 123, 191 & 195; BS 7392; ISO 918; ISO 3405; DIN 51 751; NF M07-002; JIS K2254



- Fully automated operation
- True volume measurement - no correction factoring
- Programmable with 'learn' feature
- Temperature probes with built-in calibration data
- Dynamic ASTM 7C/F and ASTM 8C/F thermometer simulation
- Final boiling point detection and loss correction
- Dry point determination
- Automatic barometric pressure correction
- Independent temperature control of distillation flask, condenser and receiver
- No refrigerants or liquid coolants
- Peltier cell cooled "Solid State" condenser module
- Peltier cell cooled receiver compartment
- Stand-alone or PC operated
- RS232, RS485 and printer ports, LIMS compatible
- LIMS compatible
- Software available for data logging and instrument control

A programmable, fully automated, self contained distillation unit designed and manufactured by Orbis BV, featuring the unique liquid/refrigerant free "Solid State" condenser and cooled receiver compartment.

Distillation programs, comprising temperature/time profiles and volume setpoints, can be downloaded from a personal computer or entered via the control panel. Up to 10 programs can be stored in the on-board memory, and can be modified whilst using the 'Learn' facility.

The unit continually measures the temperature of vapour in the distillation flask, the volume of distillate in the receiver, and the time interval. Whenever a setpoint is reached these parameters are recorded. The readings are corrected automatically from data supplied by the integral precision electronic barometer. The results memory can hold up to 28 datasets of 100 volume setpoints.

To ensure conformity to ASTM D86, the temperature in the flask is measured by a digital system that incorporates dynamic simulation models of ASTM 7C/F and 8C/F mercury-in-glass thermometers. The probe carries an embedded calibration curve. Re-calibration can be carried out by the user via the distillation unit.

AUTOMATIC DATA COLLECTION

97005-0 SETA-ORBIS DIGISTILL^{D86} THERMOMETER AND DATA PROCESSOR

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- Equivalent to ASTM 7C/F or 8C/F thermometers
- 28 x 100 reading memory
- Selectable barometric correction mode
- Remote button
- Final boiling point detection and loss correction
- Absolute or simulated ASTM temperatures
- Automatic temperature probe calibration
- Pressure calibration facility
- RS232, RS485 and printer ports



97005-0



CALIBRATION CERTIFICATE (WORKS)
OPTIONAL: CALIBRATION CERTIFICATE (UKAS)