



NEW BENCHMARK IN DISTILLATION TESTING

PURPOSE:

Volatility
Liquid Petroleum Products
including Biofuels

METHODS

ASTM D86 - D1078 - D850 - D189-
D524 - D4350
EN ISO 3405 - EN ISO 10370 - ISO 918
IP 123 - IP 195 - DIN51 751 - JIS K2254
– NF M07-002

INTRODUCTION

Eighty years combined experience of the companies Walter Herzog and ISL in designing and manufacturing automatic distillation equipment, directed PAC to the development of the most revolutionary automated distillation analyzer ever built.

OptiDist™ is the State-of-the-Art Optimal Solution for performing atmospheric distillation offering highest precision and ease of use ever seen.

ADVANTAGES:

- Easy to use, one button straightforward operation
- Superior precision from the first run
- Enhanced instrument safety features
- Unparalleled versatility
- Laboratory savings



HERZOG
WALTER HERZOG GmbH

THE OPTIMAL SOLUTION



TOP VALUE OFFERING IN THE MARKETPLACE

EASY TO USE, ONE BUTTON STRAIGHTFORWARD OPERATION

Only the OptiDist™ enables truly “one button” straightforward operation. The easy to use “foolproof” distillation analyzer with advanced MMI features contributes to a trouble-free operation requiring less operator expertise. Without preliminary trials and manual adjustment the operator selects the test method and starts the distillation by just pressing the Start button.

SUPERIOR PRECISION FROM THE FIRST RUN

The OptiDist™ automatically sets the optimal distillation conditions for any sample through the unique heating optimizer technology. It delivers up to 2 times better precision for all common distillation samples. No more precious time loss for repeating tests, you get perfect results from the first run even for “unknown” samples!

ENHANCED INSTRUMENT SAFETY FEATURES

The optimizer technology assures perfect repeatability of distillation conditions without a compromise on safety. The optimized heating protects flask material from critical overheating, improves flask life-time and prevents from potential fire. The operator also benefits from the environmental-friendly design by the drastically reduced VOC emission.

UNPARALLELED VERSATILITY

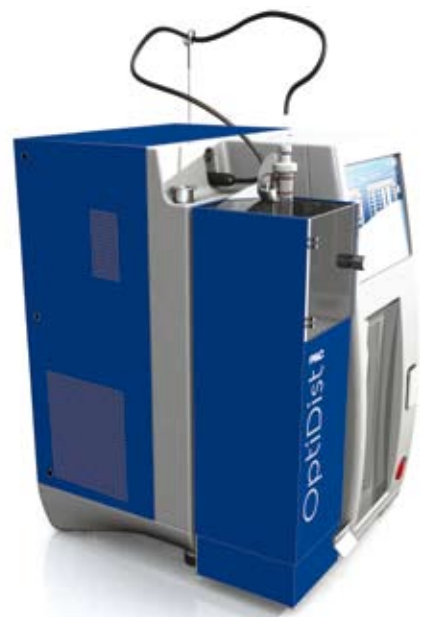
The versatile design enables multi-methods and non-standard capability and can easily be adapted for different applications.

The testing and results are in full compliance with all atmospheric distillation methods.

Either standalone or networked, you can start any product group without unit reconditioning and have a flexible and customized test report with enhanced communication features to LIMS, any printer or a centralized database on a PC

LABORATORY SAVINGS

Using the small OptiDist™ foot print allows you to save expensive laboratory space and reduce installation, operational and maintenance costs.



SPECIFICATIONS

Ordering Information

OptiDist™, a compact self-contained instrument with factory filled CFC-free cooling system, delivered with 125ml flask, 100ml receiver cylinder, vapor probe with centering device, heater plates 38 and 50mm, flask connection silicone tube, receiver cap and condenser cleaner

Standard Test Methods

ASTM D86 (group 0,1,2,3,4), D1078, D850, IP195, IP123, DIN51751, NFM07-002, EN ISO3405, JIS K2254, ISO918; ASTM D189, D524, D4350, EN ISO 10370

Operation

User Interface Large graphic TFT-LCD color touch-screen with solvent-proof protection
 Heating System Low mass and low voltage, self-positioning heating system
 Unique Optimizer function for fully automatic initial heat settings and heating regulation; detectors for heater plate, vapor probe and centering device
 Condenser System Temperature range from 0 to 65°C (32 to 149°F); programmable constant temperature, temperature ramping or special temperature profile; instantaneously ready at switch on
 Receiving Chamber Temperature range from 0 to 40°C (32 to 104°F); corrosion proof design; programmable temperature or automatic adjustment to sample charge temperature; compatible with 100ml and 200ml receiver cylinders

Measurements

Vapor Temperature Range: 0 to 450°C (32 to 842°F), accuracy Pt 100 IEC 751 probe Class A
 Built in calibration memory with 10 point calibration table and automatic probe ID detection; calibration history; optional calibration certificate
 Sample Volume Optical measuring system compatible with samples producing smoke in the receiver; range 0 to 103% charge volume; resolution: 0.03ml, accuracy: ± 0.1ml
 Ambient Pressure Built-in pressure sensor, range to 70 to 110 kPa A (500 to 800 mmHg)
 Calibration: Single point against reference barometer

Safety

Built in fire extinguisher with 2 fire sensors

User Errors Prevention

Detector for heater base plate type, Detector for vapor probe and centering device Detectors for “receiver in place” and “receiver chamber door open”
 Detector for “condenser cleaned”

Connectivity

3 USB for external printer, barcode reader and memory stick; RS232C serial port for LIMS connection; Ethernet RJ45 port for LIMS connection and unit networking; Connection to external PC with HLIS or ALAN software

Operating Requirements

Temperature 10 to 35°C; relative humidity up to 80% at 35°C
 Multi Voltage 100 to 240V; 1400 W

Dimensions and Weight

44cm W * 57cm D * 65cm H (17,3” * 22,4” * 25,6”) ; 68kg (150lb)

Options and Accessories

Built-in printer; External status indicator; Ambient temperature sensor
 Automatic dry point kit for 200cc; Automatic dry point kit for 125cc
 Crude oil testing kit; D189 test kit for 10% Distillation Residue with 200cc, Doctor Box connection; CRM reference materials

