

**NEW**

# Automatic Distillation Apparatus Model 40.10

with installed microprocessor control and integrated MS-Windows 7 PC



... the result of more than **60-years experience** in developing distillation analyzers!

## Model 40.10 special features:

- Automatic temperature calibration, (effected automatically before each distillation run without need of external calibration equipment)
- Level follower with stepper motor and
- Automatic calibration of the volume measurement, zero point and/or 100 ml
- Low mass / low volt heating
- Accuracy: +/- 0,1 ml volume, +/- 0,01°C temperature
- Level follower with cooling / heating system, range 0 – 60°C
- Distillation range 0 – 450°C
- Calculation of cetane index
- 100 and 200 ml measuring cylinders useable, consequently 100 and 200 ml test samples may be distilled
- "door open" sensor
- built in environment friendly Peltier elements for cooling and heating
- built in automatic fire-extinguishing system for connection to an external Nitrogen (N<sub>2</sub>) supply
- automatic-dry-point-detection-system for solvents, including thermocouple, 200 ml flask, PTFE plug and accessories
- Emergency "STOP ALL" switch
- New, slim design
- Learning Program
- Built in, Windows based PC, with 10,4" TFT active colour LCD-Display with Touch-Screen for most comfortable operation of the analyzer, including:
  - Intel Atom Micro-Processor
  - 16 GB compact flash card,
  - Ethernet interface for intranet connection,
  - USB plugs for possible connections of:
    - keyboard,
    - mouse / trackball,
    - printer.
  - Software package,
  - Windows Software.

**ESTANIT**



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used for distillation products, solvents and crude oil in accordance the following standards: ASTM D86 (group 0-4), ASTM D216, ASTM D285 (modified), ASTM D447, ASTM D1078 (internal standardized with solvents and group 7 and 8), IP 123, ISO 3405 and DIN 51751.

Multiple units may be linked on a central PC.

The units are programmed with all necessary distillation parameters. All units can operate independently.

All relevant distillation data is stored on the built-in PC and can optionally be stored on a network device, e.g. a server, NAS or dedicated storage device or USB devices.

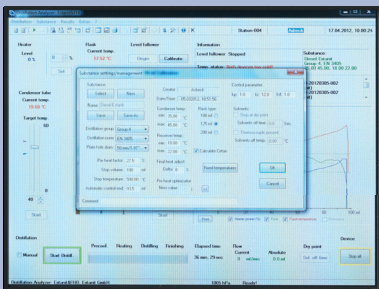
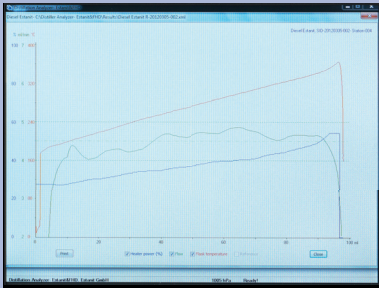
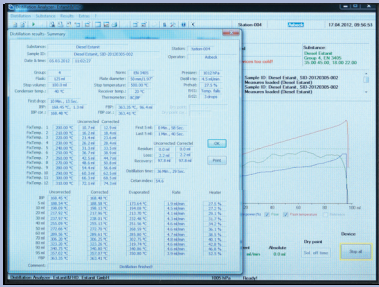
Example of different distillations:

- |            |  |
|------------|--|
| ASTM D86   | group 0,1,2,3: Distillation of hydrocarbon up to 300°C FBP, e.g. all type of petrol, aviation, turbine fuel etc. |
| ASTM D86   | group 4: Distillation of diesel fuel, gas oil, furnace oil, heavy product etc, up to 450°C FBP.                  |
| ASTM D1078 | group solvents. (visual - manual dry point-detection)  |
| ASTM D1078 | group solvents (automatic dry point detection)   |
| ASTM D1078 | group 7 and 8 (modified dry point detection)   |
| ASTM D285  | (modified), group 6: Distillation of crude oil   |

- |                        |   |
|------------------------|---|
| Main voltage:          | 110 ~ 235 V AC, 50 ~ 60 Hz, ± 10% (wide range input). |
| Operation voltage:     | 24 V DC.  |
| Connecting cable:      | approx. 2 m long.                                     |
| Required power input:  | approx. 2,0 kW  |
| Recommended main fuse: | 16 A lag  |
| Dimensions approx.:    | width 515 mm, depth 500 mm, height 670 mm             |
| Weight:                | approx. 56,0 kg                                       |
| Ambient Temperature:   | 16°C ~ 32°C (60°F ~ 90°F)                             |
| Humidity:              | 10% – 65%.  |

Each of our analyzers will be delivered with the following standard accessories for immediately operation:

- Distillation flask 125 ml
- Distillation flask 200 ml
- Ceran plate with hole 32 mm Ø
- Ceran plate with hole 37,5 mm Ø
- Ceran plate with hole 50 mm Ø
- Resistance thermometer Pt 100 with cable and plug
- Special graduated receiver cylinder complete with metal base
- Wiper for condenser tube
- Instruction manual printed in English.



Just talk with us concerning our several other product lines. Please ask for more leaflets or solutions regarding your technical requirements!

# ESTANIT

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