

## ORDERING INFORMATION

### NORMALAB production - Automated stand alone unit

60500	<p>NDI 450 operable through integrated touchscreen and Windows® based software.</p> <p>Supply: <b>230 V, 50/60 Hz - 9A</b> - 54 cm/W 45 cm/D 63 cm/H (± 70 kg)</p>
60501	<p>NDI 450 operable through integrated touchscreen and Windows® based software.</p> <p>Supply: <b>115 V, 50/60 Hz - 9A</b> - 54 cm/W 45 cm/D 63 cm/H (± 70 kg)</p>
60502	<p>NDI 450 with built in extinguishing system and external nitrogen bottle, including manometer for pressure control.</p> <p>Supply: <b>230 V, 50/60 Hz - 9A</b> - 54 cm/W 45 cm/D 63 cm/H (± 70 kg)</p>
60503	<p>NDI 450 with built in extinguishing system and external nitrogen bottle, including manometer for pressure control.</p> <p>Supply: <b>115 V, 50/60 Hz - 9A</b> - 54 cm/W 45 cm/D 63 cm/H (± 70 kg)</p>

 **NORMALAB**

## AUTOMATED ATMOSPHERIC DISTILLATION OF PETROLEUM PRODUCTS



MODEL NDI 450



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DISTRIBUTED BY

### STANDARDS

ASTM D86 - D850 - D1078 - ISO 3405 - NFM 07002 - IP 123 - IP 195 - GOST B - DIN 51751 and related methods.

### SCOPE

This test method covers the atmospheric distillation of petroleum products. Natural, motor and aviation gasolines, aviation turbine fuels, special boiling point spirits, naphthas, white spirit, kerosene, gas oils, distillate fuel oils.

NDI 450 is the 5<sup>th</sup> generation of automated distillation developed by Normalab. Normalab has been designing and manufacturing petroleum testing instruments and glassware since 1963.

## SPECIFICATIONS

- Temperature measurement range: ambient to 450°C (842°F)
- Temperature accuracy: 0.05°C
- Condenser temperature: 0 to 60°C (32 to 140°F)
- **Built-in Cooling System**
- Level follower accuracy: 0.1 ml with resolution of 0.05 ml
- Receiver compartment temperature: 1 to 60°C (33 to 140°F)
- **Low voltage heating element**
- Ready for Biodiesels analysis
- Quick cooling of heater by fan
- Automated Barometric pressure correction
- **Quick positioning of heating element**

## SAFETY FEATURES

- Automated Fire detection
- Automated Fire extinguisher (optional)
- **Detectors:**
  - **Receiver in position and compartment door**
  - **Drip deflector in position**
  - **PT 100 probe level**
  - Coolant liquid (low level detection + easy access)

## WIRING

- 3 USB ports
- 1 RS232
- Ethernet connexion






« OUR FLEXIBLE SOFTWARE WILL  
MEET YOUR EVERY NEED »»







## SOFTWARE FEATURES SUMMARY

- Result comparison and analysis
- **Different Password levels can be set**
- Multilanguage software
- **Results database: > 1000 results**
- **Product files database: > 1000 files**
- **Export results: LIMS, E-MAIL, PDF, DOC and XLS**
- Printer - Network Printer: Any commercial printers
- USB Key: Any commercial keys
- Barcode Reader: Any commercial barcode readers
- Mouse, Keyboard and screen
- **All parameters within a flash**

## ACCESS TO EVERY DATA PROCESSING AVAILABLE

-  **Send the select result to LIMS:** By RS-232 connector
-  **Print the selected result:** On local printer or network printer
-  **Export the selected result to PDF:** Use USB Key or Intranet network
-  **Export the selected result to DOC+XLS:** Use USB Key or Intranet network
-  **Send the selected result by e-mail**

## EASY CONFIGURATION

-  **Regional and language options:** date and time, language and keyboard, temperature units and pressure units
-  **User and password:** user name, user account, password and security level
-  **Software update:** by USB key, Internet or FTP protocol
-  **Instrument:** instrument name, serial number and network informations