PILODIST®

laboratory & process technology

PETRODIST 300 CC fully automatic

PILODIST introduces the new 2017 edition of its popular fully automatic ASTM D-1160 system

Processor controlled Crude oil distillation system according to ASTM D-1160. System for determination of boiling ranges of crude oil products under vacuum in fully automatic operation.

Special advantages of the new PETRODIST® 300 CC are:

- Computer as parameter input and display unit as well as calculation of distillation and final data and print out of the distillation curve via
  PILODIST IP65 IP65 user interface with 15,6” touch screen and new laser printer
- Menu control guarantees uncomplicated operation
- Flexible parameter selection makes using of the system for continuous problem definitions possible
- Distillation can be performed under different pressure steps
- Greese free operation to avoid contamination with the product
- 2 independent safety circuits for flask heatingMass balance availability
- Calculation of charge according to receiver temperature and charge density
- Detailed distillation data by self-calibrated accurate volume measuring system
- Distillation results available in the following formats: pdf, xls, csv, txt
- Distillation reports and curves can ever be re-called
- Perfected safety system
- Minimum installation effort as the system is delivered ready for operation

The distillation is automatic, from the initial boiling point to the pre-selected end boiling point or detected break-off. The criteria for break-off are:

- the pre-selected final AET (atmospheric equivalent temperature) is reached
- the maximum bath temperature is reached
- the maximum flask temperature is reached
- the pre-selected distillate volume is reached
- the flask insert cracks
- the distillate pressure drops
- product lack in the flask

The distillation volume is measured automatically in a tempered receiver. The yield is calculated in percentage to the charge quantity. Distillation report, final data and distillation curve are printed out.

Technical Data

Available flask sizes	500 mL
Flask charge	200 mL
Operating temperature	up to 400° C (750° F)
Final cut temperature	up to 650° C AET (1202° F)
Max ambient temperature	25° C
Operating pressure	vacuum down to 1 Torr
Mains supply	208 – 250 V, 50 Hz (60 Hz upon request)
Power consumption	3500 W (without options)
Dimensions (w x h x d)	approx 0.65 x 0.64 x 0.96 m