

PILODIST®

laboratory & process technology

PETRODIST® 300 CC-F



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PETRODIST® 300 CC - F (with fraction collector)

Fully automatic crude oil distillation system, processor controlled according to ASTM D-1160 but with automatic fraction collector for the determination of boiling ranges of crude oil products under vacuum. The system can be operated in strict accordance to the ASTM procedure with 1 single receiver or alternatively, by using the automatic fraction collector, with 4 receivers.

Special advantages of the new *PETRODIST® 300 CC*

- parameter input, display as well as calculation of distillation and final data and print out of the distillation curve via PC
- easy operation due to userfriendly software, operated under WINDOWS
- sophisticated safety system
- individual distillation reports and curves can be re-called any time
- precise distillation data due to automatic calibration of volume measuring system
- anti foaming by foam breaker
- precise vacuum control
- automatic washing run
- calculation of charge according to receiver temperature and charge density
- easy installation effort as well as easy accessibility of all system parts for service
- manual override of automatic operation
- automatic controlled termination of distillation process and start of cooling
- automatic fraction collector with 4 receivers.

The distillation runs automatically 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
- sample product cracking
- vacuum loss
- low product level in the flask

The distillation volume is measured automatically in receivers, temperature controlled by IR-heater. The yield is calculated in percentage to the charge quantity. Distillation report, final data and distillation curve are printed out.

Technical Data

Flask size:	500 mL
Flask charge:	200 mL
Operation temperature:	Up to 400° C (750° F)
Operation pressure:	Vacuum down to 1 Torr
Fraction collector:	4 calibrated receivers, 100 mL each
Final cut temperature:	Up to 550° C AET (1020° F)
Power consumption:	3500 W (without options)
Max. ambient temperature:	25° C
Mains supply:	230 V, 50 Hz
Dimensions (l x w x h):	0.65 x 0,65 x 1,41 m