

PILODIST®

laboratory & process technology

PETRODIST® 300 CC



Fully automatic crude oil distillation system, processor controlled according to ASTM D-1160 for the determination of boiling ranges of crude oil products under vacuum.

By adding option 1 the system will be able to do atmospheric distillation, dehydrate water prior to the distillation process and to use biodiesel as charge.

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 and dynamic pressure reduction during evacuation
 - precise vacuum control
 - automatic washing run
 - calculation of charge according to receiver temperature and charge density
 - easy installation effort as the system is delivered ready for operation
 - automatic controlled termination of distillation process and start of cooling
 - In addition to the fixed values for evaluation requested by ASTM (5%, 10%, 20% 30%...) – PD300CC can add plus 5 flexible values in between
 - In addition to the volume point setting PD300CC offers additionally 5 temperature points to be set for volume determination
 - atmospheric distillation **(by adding option 1)**
 - water removal (dehydration) process prior to distillation **(by adding option 1)**
 - biodiesel distillation **(by adding option 1)**
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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
- the flask insert cracks
- the distillate pressure drops
- product lack 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
Final cut temperature:	Up to 620° C AET (1020° F)
Power consumption:	3500 W (without options)
Max. ambient temperature:	25° C
Mains supply:	208-250 V, 50 Hz (standard) 208-250V, 60 Hz (optional)
Dimensions (w x h x d):	0,65 x 0,98 x 0,65 m

Option 1

- For application of atmospheric or biodiesel distillation as well as dehydration process prior to distillation a cooling thermostat is required

Option 2

- For alternative operation of pressure ranges between atmospheric down to 100 Torr we offer an additional sensor

For more information consult your distributor