

PETRODIST® 100 CC



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Turn key processor controlled crude oil distillation system for fully automatic, unattended operation exactly according to ASTM D-2892 (TBP).

Compact design with control system and safety items for unattended operation. No operator intervention and no intermediate stops are required.

The distillation ensues automatically from the gas cut (IBP) to the pre-selected end point without any interruptions and any intervention required. Manual overriding of set parameters is possible.

The system is computer controlled and designed for fully automatic operation throughout the different distillation runs at different pressure levels which includes:

- Debutanization
- 1. run at atmospheric pressure
- 2. run at vacuum 100 Torr
- 3. run at vacuum 10 Torr
- 4. run at vacuum 2 Torr

These different distillation runs are performed automatically without any intervention from the operator. The individual fractions are being collected in an inbuilt balance receiver and the distillate weight is being continuously determined by an internal balance prior to the discharge from the system into the automatic fraction collector, which operates with 20 septum-sealed receivers. A volume following system measures and records also the volume of each fraction.

The receiver change is performed according to pre-selected boiling temperature or when a receiver is filled up to avoid overfilling.

Due to the fully automatic uninterrupted operation the complete distillation procedure takes only a period of approx. 10 hours, depending on the individual crude oil charge.

After the distillation the operator has to determine the weight from the gas trap as well as the flask residue by an external balance, enter the weights and as a result the final data calculation and TBP-curve will be stored and are printed out .

The system requires water, nitrogen, compressed air and electricity.

The system can optionally be equipped with a water removal system (dehydration), which operates semi-automatically as an add-on to the system, but can also be delivered as a standalone system.

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Key features:

- Computer controlled fully automatic process without any interruption
- PC with windows based operation and evaluation software
- continuous monitoring of distillation process and data storage
- boil-up rate controlled by differential temperature, differential pressure, power regulation and distillate weight
- all distillation parameters can be exactly and reproducibly selected
- fraction and receiver changes are performed acc. to preselected cut temp.
- fully automatic product discharge into sealed final receivers without any influence on the distillation process
- automatic debutanization process
- adiabatic operation due to column heating jacket
- reduced cooling period between runs by using a quench cooler
- cooling down process after each run automatically
- precise vacuum control
- electrical lifting platform for flask
- evaluation of the "final data" and printout of TBP-curve in Microsoft Excel
- several safety and alarm options available
- options for water removal and sheeting of the system available
- optional automatic online volume measuring

Technical data:

Flask sizes:	1, 4, 6, 10, 20, 50 L or upon request
Flask charge:	between 30 and 60 % of flask volume
Operating temperature:	up to 350° C (420° C AET)
Operating pressure:	atmospheric down to vacuum 1 Torr
Fraction collector:	20 septum sealed receivers, 1 L each
Max. ambient temperature:	25° - 30 °C
Mains supply:	3 x 208 - 250 V, 50 Hz (60 Hz upon request)
Dimensions (w x h x d):	depending on flask volume

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