



The MicroDist™ analyzer measures the distillation characteristics of hydrocarbon products in correlation with ASTM D 86 and IP-123. The MicroDist™ utilizes the technology of a fast, accurate established distillation method used in laboratory analysis. The MicroDist™ measures the vapor, liquid temperatures and percentage distilled over the boiling point curve in under 10 minutes. The cell can be flushed automatically with the sample to be tested and a special thermo-destruction cleaning cycle can be programmed to be done at scheduled intervals.

MicroDist

ADVANTAGES:

- Direct Correlation to ASTM D86
- Results in Less than 10 minutes
- Proven Microdistillation Technology
- Hazardous Area Purged Enclosure
- Low Cost of Ownership

Application

The MicroDist™ is used for process optimization and product certification and control of blending processes for motor gasolines, fuel oils, naphtha and diesel. Accurate reporting of distillation points reduces product variability and waste.



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MicroDist

Direct correlation with ASTM D 86

True physical distillation where correlation model to reference method is not dependent on product composition change. It is important to have an easy and accurate correlation with the D 86 method so the results of the online analyzer are validated and may be used for process control which requires a short time window.

Results in less then 10 Minutes

The MicroDist™ analyzer can provide a complete distillation run and test report in less than 10 minutes using only 10 ml of sample. The results occur in a third of the time of other physical distillation methods.



Certified explosion protected construction

Meets ATEX - Ex
II 2 G Ex px IIC T4
to satisfy safety
requirements.
The big heavy
explosion-proof
housing has been
replaced by an integral
purge system with
divided analytical and
electronic sections.









Ease of Use

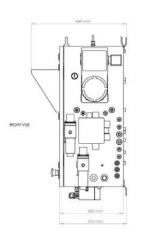
- Built-in Auto-diagnostics to prevent faulty runs. Analyzer will not initiate into run mode unless all built-in checks pass.
- No calibration required at set-up. Readily available CRMs can be used to validate the calibration on a yearly basis.
- Ruggedized flask assembly design requires no cleaning.
- No configuration change required when changing fuel streams.
 The MicroDist can give boiling point data for diesel, gasoline and jet fuel.
- Built-in Nitrogen generator is available and only instrument air is required for utility gas requirement.
- Graphing capability –user selectable boiling points can be displayed on front screeen.

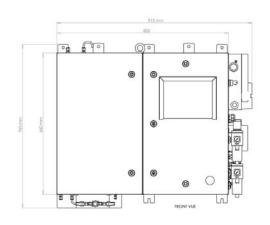
Lower Cost of Ownership

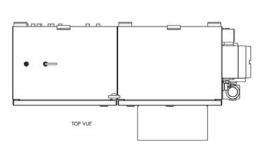
- Faster test results in half the time with no correlation needed.
- Low consumable usage with new Permaflask technology.
- Reduced gas usage and local calibration once per year.
- Direct injection calibration port saves time and effort between tests.

Specifications

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Analysis Performance	
Measurement Cycle Time	Less than 10 minutes
Measurement/Temperature Range	Full boiling point curve 20-400 °C (68-752°F)
Repeatability	Equal or better than ASTM D86
Accuracy	Better than D86, IP-123, ISO 3405
Sample Requirements	
Sample return pressure	Atmospheric to < 8 bar or 120 psig (1.4 bar or 20 psig less than supply)
Sample flow rate	10-20 L/ hour (application dependent)
Sample temperature	Min. 15 ^o C below IBP without cooler
	Max. 30 °C above IBP, application dependent with cooler
Sample pressure	2 - 10 bars (30-145 psi)
Enclosure/ Installation and Requirements	s/Utilities
Dimensions	L: 802 mm X H: 660 mm X W: 320 mm (31.5 in. X 26 X12.6)
Weight	75 kg (165 lb.)
Operating Temperature	10°C to 40°C, non-condensing
Enclosure/Rating	IP 65
Area Classification	NEC Class 1 Division 1 Groups B, C & D, UL/CSA pending or
	ATEX - Ex II 2 G Ex px IIC T4
Power	115 VAC/6A max, 50/60Hz, 700W
	230 VAC/3A max, 50/60Hz, 700W
Cabinet Purge Gas	Air, > 150 I/min (5.3 SCFM), minimum 5 bars (72 psi)
Inert Gas	Nitrogen, inlet pressure 6-10 bars
Installation Site	Avoid direct sun light and provide rain-proof shelter for outdoor installation
End User Connections	
Analog Output Signal	Isolated (4) 4-20mA outputs for selected distillation cut point values
Digital Input/Outputs	8 digital inputs, 8 digital outputs, user assignable
Serial Input/Output Signal	Single RS232 or RS485 bi-directional, Modbus for full curve
Options available	
Nitrogen generator	Required if no Nitrogen supply
Multi-stream	Up to 3 streams available
Sample cooling	For low IBP (gasoline applications)
Stand option	Stand with Wheels
Wall stand option	Wall stand option
Additional I/O board	Adds additional 8 digital inputs and 8 digital outputs, user assignable
Additional 4-20 mA output board	Adds 4 additional 4-20 mA analog outputs, user assignable
Optional flame arresters	For atmospheric and vapor vents











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