Technical data

Technology

batch distillation

Method

SAM compliant with:
ASTM D86, DIN EN ISO 3405, IP 123
Correlates with:
ASTM D4814 (calculation of TV/L)
ASTM D4737 (Calculated Cetane Index)
RAM correlates with:
ASTM D86, DIN EN ISO 3405, IP 123

Measuring range

20 to 420 °C (68 to 788 °F)
output of any temperature/distillate amount via Modbus

Repeatability

≤ DIN EN/ASTM
e.g., gasoline typ. T @ 50% rec. 1 °C

Reproducibility

≤ DIN EN/ASTM

Measuring cycle

typical time for gasoline/diesel in SAM (in min)
IBP: approx. 24/29
50% recovered: approx. 36/41
FBP: approx. 45/50
cycle time will be reduced by approx. 40 % in RAM

Product streams

up to 3 x sample, 1 validation sample each (additional hardware required)

Electrical data

Nominal voltage

230 V AC ± 10 %, 1 phase; 50 Hz;
other ratings on request

Maximum power consumption

approx. 600 W

Protection class

IP 54 (comparable with NEMA 13)

Ambient conditions

Ambient temperature

operation 5 to 40 °C (41 to 104 °F)
storage 0 to 60 °C (32 to 140 °F)

Ambient humidity

operation 5 to 80 % relative humidity, non-corrosive
storage 5 to 85 % relative humidity, non-corrosive

Sample

Quality

filtered 50 μm, bubble-free
(≤ 37 cSt at inlet temperature)

Consumption

approx. 10 to 40 l/h
(≥ 10 l/h: max. 15 l/h)

Pressure at inlet

1.5 to 2 bar (21.8 to 29 psi)

Temperature at inlet

depends on application, max. 55 °C (131 °F)

Utilities

Instrument air

Consumption

During operation: approx. 1 Nm³/h
while purging: 8 Nm³/h (~12 min)

Pressure at inlet

2 to 7 bar (29 to 101.5 psi)

Quality

humidity class 2 or better acc. to ISO 8573.1