AROMETRIX PRODUCT SPECIFICATIONS

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AROMETRIX **FRACTION FINDER**

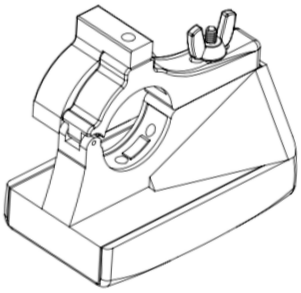
SYSTEM

Creator: Arometrix, Inc.
Application(s): Botanical distillation (short path, wiped film, thin film, etc.)
State of Materials: Distillates
Expected Life Span: 10+ years
Shipping Weight: 5 lbs
Shipping Dimensions: 10″x10″x8″
Technology Validation Reference: "In Situ Fluorescence Spectroscopy for In-Line Distillation Process Monitoring", peer-reviewed article published in Cannabis Science & Technology

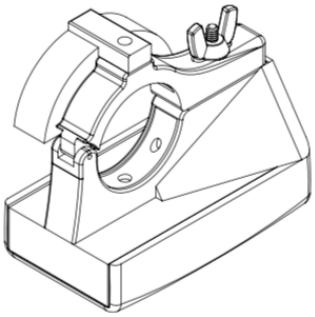
SENSOR

Type: Standard
Technology: In-situ fluorescence spectroscopy
Wavelength of excitation: 365 nm
Sensor Size(s): Size 29; Size 34
Interface Requirements:

- Size 29 glass (28-30mm outer diameter)
- Size 34 Glass (31-34mm outer diameter)
- Or install on Arometrix adapters
- **Do not use on double-jacketed glass*



Cable Length: 2’ standard (available up to 30’)
Max Temp: 100C
Min Temp: 5C
Optical Detection Range: 300 – 1000 nanometers
Lower Detection Limit: Less than 1 mg/mL
Accuracy: Spectral resolution is 15 nm max
Margin for Error: Not applicable to qualitative measurements
Scans per second: 3
Flow Rate Limits: No flow rate limit
Min Fill Level: 1/8 volume



DISPLAY

Type: 7 inch LCD TFT display (contains a compute module)
Power: 100-240VAC 50/60 Hz CE Rated (12 Volt 1 Amp into Display)
Power: UL-marked power supply
Mount: Mounts to a laboratory stand bracket (pole up to ½” thick)
Units: Wavelength Nanometers (nm); Intensity Values (arbitrary units - au)
Plots: Spectrogram; Wavelength Intensity graph
Metric Type: Qualitative
Telemetry Options: USB
PLC Communication Type: Serial UART (BAUD: 115200, DATABITS: 8, STOPBITS: 1, PARITY: NONE)

AROMETRIX FRACTION FINDER *ULTRA*

SYSTEM

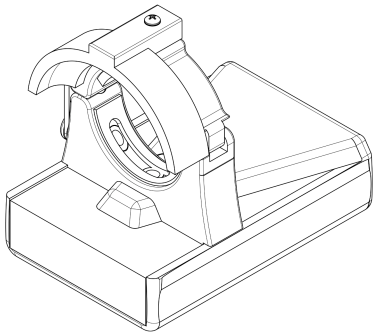
Creator: Arometrix, Inc.
Application(s): Botanical chromatography; botanical distillation
State of Materials: Isolates, Distillates
Expected Life Span: 10+ years
Shipping Weight: 5 lbs
Shipping Dimensions: 10″x10″x8″

SENSOR

Type: "Ultra-sensitive"
Technology: In-situ fluorescence spectroscopy
Wavelength of excitation: 365 nm
Size(s): Size 34 only
Interface Requirements:

- Size 34 Glass (31-34mm outer diameter)
- Or install on Arometrix adapters
- **Do not use on double-jacketed glass*

Cable Length: 2' standard (up to 30')
Max Temp: 100C
Min Temp: 5C
Optical Detection Range: 300 – 1000 nanometers
Lower Detection Limit: Less than 0.1 mg/mL (over 10X more sensitivity) than the *Fraction Finder* sensor
Accuracy: Spectral resolution is 15 nm max
Margin for Error: Not applicable to qualitative measurements
Scans per second: 3
Flow Rate Limits: No flow rate limit
Min Fill Level: 1/8 volume



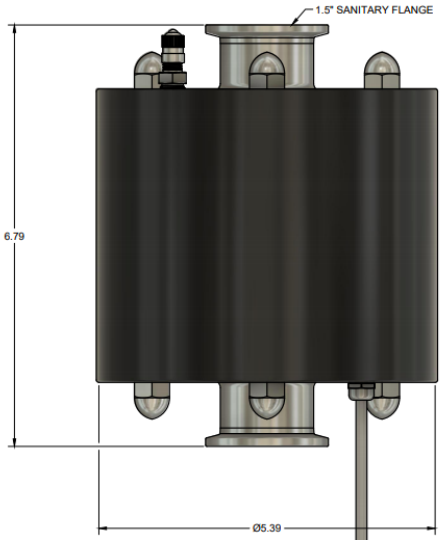
DISPLAY - *Same as standard FRACTION FINDER*

AROMETRIX **EXTRACTION FINDER**

SYSTEM

Applications: Botanical extraction & refinement processes (C1D1-compliant)
Relevant Molecular Indicators: Acidified Cannabinoids; Chlorophyll; Lipids
Technology: Fluorescence spectroscopy
Display: 7" LCD TFT touch-screen; compute module housed in a pole-mounted ABS case
Power: UL-marked power supply with 10' extension cable for use outside of C1D1 area
Sensor: UV light source and full wavelength spectrometer
Wavelength of Excitation: 365 nm
Optical Detection Range: 300 – 1000 nm
Lower Detection Limit: < 0.1 mg/mL
Spectral Resolution: 15 nm max
Flow Rate Limit: No flow rate limit

Sanitary Flange End Clamps: 1.5"
Operating Pressure: VAC to 350 psig
Temperature: -100°F (min); 100°F (max)
Mounting Plate: Available as an add-on
Product Dimensions: 5.29in (W) x 6.63in (H)
Lower Detection Limit: Less than 0.1 mg/mL
Flow Rate Limits: No flow rate limit
Min Fill Level: 1/8 volume



Wetted materials: 316SS, Teflon/PTFE gaskets, Saphire
Materials exposed to C1D1 area: Delrin housing, 316 SS, Teflon, Viton, Signal wire jacket
Stainless tube inner diameter: 0.5"

Design Notes

The sensor electronics are bathed in an inert nitrogen environment to further insulate them from any risk of exposure even though the sensor is intrinsically safe. Solvent does NOT touch the electronics. The included 30' sensor cable and 10' power supply allows the digital display to be easily placed outside of the C1D1 area.

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