



AROMETRIX PRODUCT SPECIFICATIONS

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

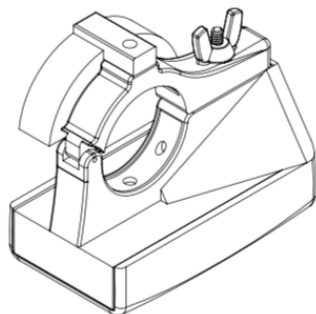
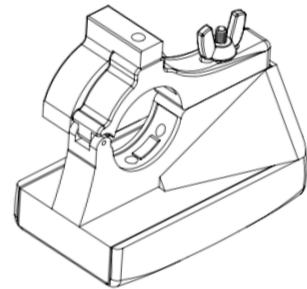
Accuracy: Spectral resolution is 15 nm max

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

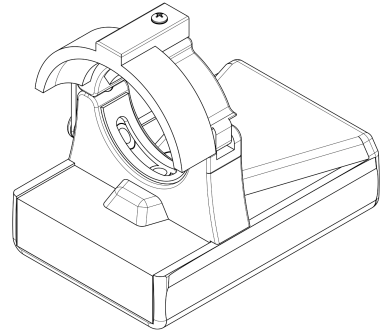
Margin for Error: Not applicable to qualitative measurements

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 (C1D2-compliant);
C1D1 peer review currently in process

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; intrinsically safe

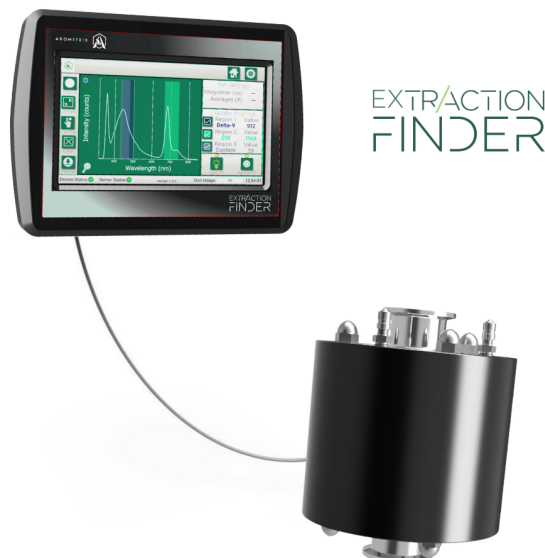
Wavelength of Excitation: 365 nm

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"

Maximum Pressure: 240psi

Temperature: -100°F (min); 100°F (max)

Mounting Plate: Available as an add-on

Product Dimensions: 6.79in (L) x 5.39in (W)

Lower Detection Limit: Less than 0.1 mg/mL (over 10X more sensitivity than the FF sensor)

Flow Rate Limits: No flow rate limit

Min Fill Level: 1/8 volume

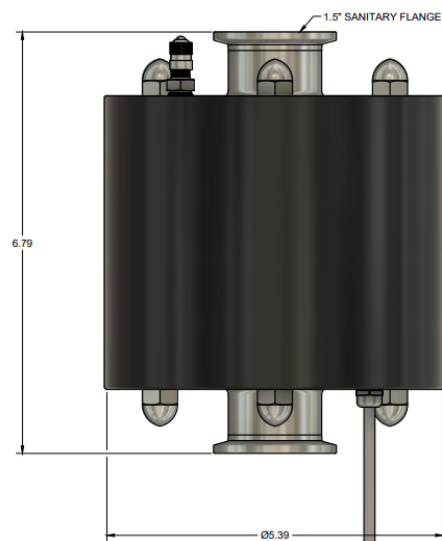
Wetted materials: 316SS, Teflon, Sapphire

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



DISPLAY

- Currently, it is essentially the same as standard FRACTION FINDER with different branding
- In the future, the EXTRACTION FINDER display will have its own extraction-specific software / UI