The Tanabyte 72x Series of Photometric Ozone Analyzers

Precision instruments for the Measurement and Calibration of Ozone

Direct Drop-In Replacements for the Dasibi Model 1008 series

USEPA APPROVED INSTRUMENTS

Model SA1-724
Ozone Transfer Standard
(SA1 Enclosure Type)



• 722 Ozone Analyzer

- 722V Ozone Analyzer with C-S Valve
- 723 Transfer Standard with Cal/Sample Valves
- 724 Ozone Transfer Standard
- 725 Ozone Analyzer with Internal Zero/Span
- 734 Ozone Primary Standard



Ozone Analyzer / Ozone Transfer Standard Combination
(SA2 Enclosure Type)

Tanabyte line of Easy-To-Operate Photometric Ozone Analyzers and Calibrators are designed as direct replacements for the industry standard Dasibi 1008 Series. The Analyzers and Calibrators exceeds the performance specifications of the Dasibi 1008 series while incorporating modern, advanced features.

All Tanabyte instruments are available as either a portable SA1 type or rack-mountable SA2 type, depending on the application needs.

The SA1 Enclosure type supports one module and requires a minimal amount of bench space. In addition, its lightweight and rugged design is ideal for field auditors and traveling service personnel.

The SA2 Enclosure type supports one or two Modules and is rack or bench mountable. Its 5¼" (same as Dasibi) height requires less rack space than similar instruments on the market, which are typically 7" or higher.

The Tanabyte instruments shares many common components with the Dasibi Model 1008 series and inherit the Dasibi type "Dot Commands" protocol from the Dasibi Model 5008. The Audit Analog Input allows the Tanabyte calibrators to automatically generate Ozone Certification Reports.

Advantages and Features:

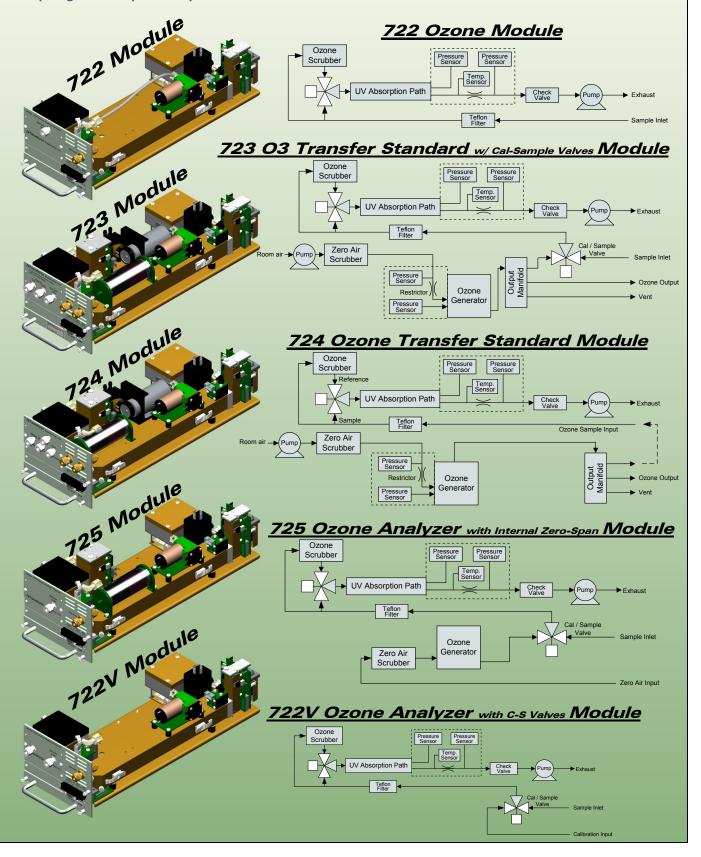
- U.S. E.P.A Equivalent Method Designation EQOA-0407-165
- Direct Replacements for the Dasibi 1008 series of ozone analyzers and ozone calibrators (including same physical dimensions).
- Utilizes the UV Photometric Measurement Technique, temperature and pressure correction.
- Tanabyte invented Dual USEPA Approved instruments combinations, for economical and engineering solutions.
- Superior performing Tanabyte designed Ozone Generator, producing the most accurate-stable-repeatable ozone even at very low concentrations.
- Tanabyte designed Audit Analog Input to certify another ozone analyzer.
- New smaller and light weight design (less than 20 Lbs), ideal for station monitoring, field auditors, QA Lab operators, and mobile air monitoring. Lowest instrument height profile of only 5.25 inches, rack space saving.
- Data storage, diagnostics, alarms, selectable units, RS232, Dasibi Dot Commands, Programmable Calibration Levels and Sequences.
- The modular design simplifies maintenance. By using an extension cable, the module can be decoupled and operated outside the SA1 and SA2 enclosure for easy servicing.



www.tanabyte.com
Email: sales@tanabyte.com

Ozone Analyzer and Ozone Calibrator

All Tanabyte Ozone Analyzers and Ozone Calibrators incorporate a module with a precision USEPA Approved ozone photometer employing State-of-the Art Ultraviolet Absorption Technique. In addition, the calibrator modules include ozone generators for photometer feedback, to facilitate the calibration of the internal photometer, and to calibrate external ozone analyzers. With the Audit Analog Input feature the calibrating of external analyzers can be automated thus requiring minimal operator supervision.



Configurations

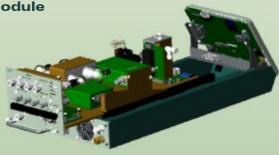
Tanabyte Ozone Analyzers and Calibrators comprise of two main sections, the analyzer or calibrator modules and the SA1 or SA2 enclosures. When one enclosure and one or two modules are coupled together they become one Analyzer or

Tanabyte offers two types of enclosures, the SA1 enclosure which support one module and the SA2 enclosure which can supports one or two modules.

The SA1 is very versatile, durable, and light weight with a small foot print of only 8" wide and is classified as our portable-bench mounting version.

The SA2 has the conventional width of 17" wide to fit instrument racks and can be configured for bench mounting or rack mounting and has a height of only 5.25 " (same as Dasibi Model 1008 series) to economize space in instrument

The SA1 enclosure supports one module



Ozone Analyzer and Ozone Calibrator Model Numbers

SA1-722: Ozone Analyzer

SA1-722V: Ozone Analyzer w/ C-S Valve

SA1-723: Ozone Transfer Standard with Cal-

Sample Valves

SA1-724: Ozone Transfer Standard

SA1-725: Ozone Analyzer with Internal Zero-

SA1-726: Ozone Analyzer with Cal-Sample

Valves

SA1-734: **Ozone Primary Standard**

SA2-722: Ozone Analyzer

SA2-722V: Ozone Analyzer w/ C-S Valve

SA2-723: Ozone Transfer Standard with Cal-

Sample Valves

SA2-724: Ozone Transfer Standard

SA2-725: Ozone Analyzer with Internal Zero-

Span

SA2-726: Ozone Analyzer with Cal-Sample

Valves

SA2-734: Ozone Primary Standard SA2-722-722: Ozone Analyzer and Ozone

Analyzer Combination

SA2-722-724: Ozone Analyzer and Ozone

Transfer Standard Combination

SA2-722V-724: Ozone Analyzer with Cal/ Sample Valve and Ozone Transfer Standard

Combination

Other Instrument Combinations are available upon request.

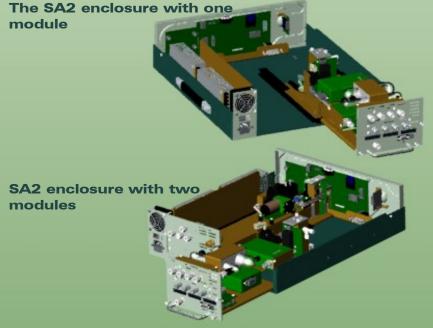
Physical Specifications

SA1 Dimensions:	8.1" W x 9	9" H x 23.4" L
Weight: SA1-722	=	19 Lbs
SA1-723	=	26 Lbs
SA1-724	=	24 Lbs
SA1-725	=	22 Lbs
SA1-726	=	20 Lbs
SA1-734	=	23 Lbs
SA2 Dimensions:	17" W x 5	.25" H x 21" L
Weight: SA2-722	=	22 Lbs
SA2-723	=	29 Lbs
SA2-724	=	27 Lbs
SA2-725	=	25 Lbs
SA2-726	=	23 Lbs
SA2-734	=	26 Lbs
SA2-722-72	2 =	32 Lbs
SA2-722-72	4 =	36 Lbs

Environmental Specifications:

5° to 45°C Operating Temperature: 0 to 90%. Humidity: non-condensing

modules



Ozone Analyzer and Ozone Calibrator Specifications:

Ozone Photometer:

Measurement Range: 0-500 PPB, 0-1000 PPB,

0-10 PPM, or auto-ranging Sample Flow Range: Adjustable 0.5 to 2.0 LPM

Zero Noise: < 0.3 PPB

Span Noise: < 0.5% of reading (above 100 PPB)

Lower Detectable Limit (LDL): <0.5 PPB

Precision: < 0.5% of reading Linearity: < 1% of full scale Zero Drift: < .001 PPM per month Span Drift: < 1% of reading per 24 hrs

> 10/ 20/ 20 Secs (Fast Cycle)

Resolution: 0.1 PPB

Ozone Generator:

Lag/ Rise/ Fall:

Ozone Generator Range: 0 - 1500 PPB Minimum Non-Zero Ozone Output: 1 PPB Ozone Output Resolution: 0.5 PPB Ozone Output Linearity: +/- 1% of range 5 to 7 LPM Zero Air Flow Rate:

Zero Air Pollutant Concentrations: < 1 PPB O3, NO, NO2,

H2S, SO2, Hydrocarbons

Analog Outputs:

Number of Analog Outputs:

Analog Output Full Scale Ranges: 100 mV to 10 V

Analog Output Resolution:

Digital IOs:

Number of Digital IO: Status Input Voltage Range: Control Output Voltage Range: Number of Isolated Relay Output: **Relay Contact Voltage Range:**

Digital Ports: RS232 Ports Ethernet (Optional): Analog Input:

Number of Analog Inputs: **Analog Input Range:**

Power:

AC Input Power:

(Independently Selectable)

16 Bits

0 - 5 VDC TTL 0 - 5 VDC 2 (722, 724) 24VDC

2 (9 Db) 1 (RJ45)

0 - 1 VDC

The Model SA2-722-724 Ozone Analyzer and Ozone

Transfer Standard shown in a SA2 enclosure

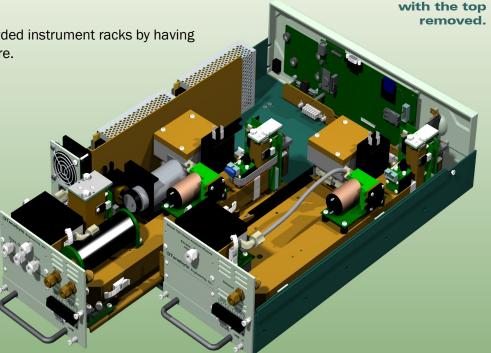
90 to 264 VAC, 50 or 60 Hz

Instrument Combinations:

· Cost effective solution

 Space saving solution to crowded instrument racks by having 2 instruments in one enclosure.

Split screen display



Analysis Modules are easily removed for calibration & service



www.tanabyte.com sales@tanabyte.com

Model 322 Gas Dilution Calibrator

A precision instrument for the Calibration of gas analyzers

Model SA1-322-G-P
Dilution Calibrator with Photometer
(SA1 Enclosure Type)

Model 322 Gas Dilution Calibrator

(Drop-In Replacement for the Dasibi Model 5008 and Tanabyte Model 300 and Tanabyte Model 300T)





Model SA2-322-G-732 Dilution Calibrator with Photometer (SA2 Enclosure Type)

Tanabyte latest generation of gas calibration instruments are designed with the specific needs of field auditors, quality assurance engineers, laboratory researchers, CEM operators and air monitoring station operators in mind.

Tanabyte Model 322 Calibrator precisely dilutes high gas concentrations to user selected lower concentrations by blending it with zero air. Its specially designed O3 Generator is renown for its production of accurate-stable-repeatable concentrations of O3 gas. This superior performance of the O3 Generator also results in the creation of precise NO2 concentrations by means of GPT. An optional photometer can be added to compliment the O3 generation as a photometer feedback.

The 322 is very easy to operate and its operation is further simplified by the utilizations of the user programmable levels and sequences. The Model 322 Calibrator is a direct replacement for the industry standard Dasibi Model 5008 Calibrator in that it inherited all the 5008 main functions and also exceeds all 5008 specifications. The 322 shares many common components with the Model 5008, including the Dasibi "Dot Commands" protocol and LEADS compatibility.

Tanabyte Engineering,Inc. sales@tanabyte.com www.tanabyte.com

Advantages and Features:

- Gas Dilution, optional Ozone Generator and GPT to create NO2, and optional Photometer Feedback. Three Mass Flow Controllers option.
- Optional USEPA Approved Ozone Primary Standard (OPS) Photometer Feedback or Ozone Transfer Standard (OTS) Photometer Feedback. The Model 322 can also be operated as an Ozone Analyzer when the OTS Photometer is installed.
- Superior performing Tanabyte designed Ozone Generator, producing the most accurate-stable-repeatable ozone even at very low concentrations.
- New smaller and light weight design (less than 25 Lbs), ideal for station monitoring, field auditors, QA lab operators, and mobile air monitoring.
 Lowest instrument height profile of only 5.25 inches, rack space saving.
- Pre-programmed calibration Sequences and Levels may be entered and initiated manually, or automatically at preset times, or by digital input command, or by Dasibi "Dot Commands".
- Dasibi 5008 compatible. Similar menu system, easy to learn and easy to use.
- The modular design simplifies maintenance. By using an extension cable, the module can be decoupled and operated outside the SA1 or SA2 enclosure for easy servicing.

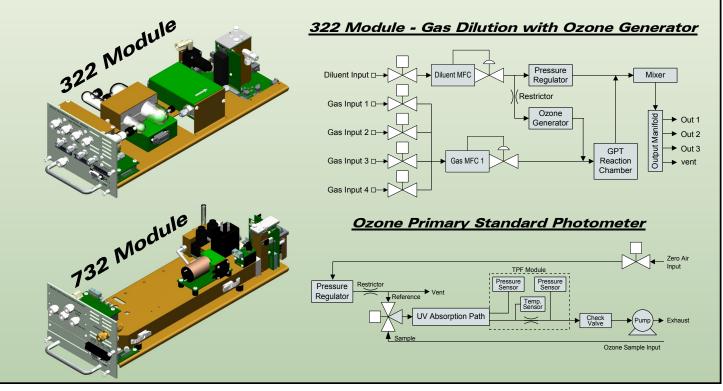


Calibrator Operations

Module: The heart of the Model 322 Calibrator is the 322 Gas Dilution Module. Each module consists of its tray and rear panel with all the pneumatics, electronics and software needed to perform the specific calibrations or analysis functions.

Dilution: The 322 dilution is accomplished by precisely commanding two (or 3) mass flow controllers to accurately blend zero air and input gases which are first feed into a mixing chamber (for NO + O3 creation) then a dilution chamber, and finally to the output manifold. Ozone Generator: Tanabyte has designed its Ozone Generator to excel as the most superior performing with accurate, stable, and repeatable ozone production. With this superiority of O3 generation, very low ozone concentrations even below 5 ppb is easily attained. Similarly, NO2 creation or GPT benefits greatly by this performance, resulting is very accurate NO2 and NOx gas concentrations.

Photometer: When a US EPA Approved photometer is required, then the 732 Module with an Ozone Primary Standard (OPS) photometer or the 732-S Module with an Ozone Transfer Standard (OTS) photometer is added to provide the photometer feedback feature.



Specifications:

|--|

Accuracy of Flow Measurements: +/- 0.5% of Full Scale Repeatability of Flow Control: +/- 0.1% of Full Scale **Linearity of Flow Measurements:** +/- 0.5% of Full Scale MFC Ranges for Dilution Air:: 0 - 5, 10, 20 SLPM (other ranges available on request) MFC Ranges for Gases: 0 - 50, 100, 200 SCPM

(other ranges available on request)

Model 322 Ozone Generator:

Range (at 5 SLPM dilution flow): 0.000 - 1.000 PPM Accuracy (at 5 SLPM dilution flow): +/- 1% of set point 1 PPB **Lowest Generated Concentration: Nominal Ozone Flow: 100 SCCM**

Ozone Photometer: Measurement Range:

(with fast cycle setting)

Sample Flow Rate: Adjustable 0.5 to 2.0 LPM Zero Noise: < 0.3 PPB

< 0.5% of reading Span Noise (above 100 PPB): Lower Detectable Limit (LDL): < 0.5 PPB Precision: < 1 PPB

Linearity: < 1% of full scale Zero Drift: < .001 PPM per month Span Drift (per 1 week) < 1% of reading Lag / Rise / Fall Times 10 / 20 / 20 seconds

0.000 - 1.000 PPM **Number of Isolated Relay Outputs: Relay Contact Output Voltage:** Model 322 Analog I/O:

Number of Analog Outputs: Analog Output Ranges: Analog Output Resolution:

Digital Ports: RS232 Ports:

Ethernet (Optional):

Model 322 Digital I/O: Number of Digital I/Os:

Status input voltage range:

Control output maximum voltage:

Control output maximum current :

Mass Flow Controller (MFC) Combinations:

Model 322 supports up to three MFCs 1 Air MFC + 0 Gas MFC - Ozone only Calibrator 1 Air MFC + 1 Gas MFC **Gas Dilution Calibrator**

1 Air MFC + 2 Gas MFCs Gas Dilution Calibrator w/ two Gas ranges 2 Air MFCs + 1 Gas MFC Gas Dilution Calibrator w/ two Air ranges Power:

AC Input Power: 90 to 264 VAC, 50 or 60 Hz

> 16, selectable as input or output up to 35V, TTL, or contact closure 35VDC

500mA with all outputs active; 1.2A with one output active 2 (Magnecraft W117SIP)

24 VDC to operate external valve

4, outputs

100mV, 1V, 5V or 10V

15 bits

2 (9Db) 1 (RJ45)

Configurations

Tanabyte 322 Calibrator comprise of two main sections, the calibration or analysis modules and the SA1 or SA2 enclosures. During production one enclosure with one or two modules are coupled together to produce one Model 322 Calibrator instrument.

Tanabyte offers two types of enclosures, the SA1 enclosure which support one module and the SA2 enclosure which can supports one or two modules.

The SA1 is very versatile, durable, and light weight with a small foot print of only 8" wide and is classified as our portable-bench mounting version.

The SA2 has the conventional width of 17" wide to fit instrument racks and can be configured for bench mounting or rack mounting and has a height of only 5.25 " (same as Dasibi Model 1008 series) to economize space in instrument racks.

To implement the photometer feedback option the 732 Module with an Ozone Primary Standard (OPS) photometer or the 732-S Module with an Ozone Transfer Standard (OTS) photometer is positioned in the second docking bay of the SA2 Enclosure. For the SA1 version the OPS or OTS photometer is not tray mounted but installed directly onto the enclosure.

322 Calibrator Model Numbers

SA1-322: Gas Dilution Calibrator

SA1-322-O: Ozone Calibrator

SA1-322-G: Gas Dilution Calibrator with ozone

generator

SA1-322-G-P: Gas Dilution Calibrator with ozone

generator and (OPS) photometer

SA1-322-G-P-S: Gas Dilution Calibrator with

ozone generator and (OTS) photometer

SA2-322: Gas Dilution Calibrator

SA2-322-O: Ozone Calibrator

SA2-322-G: Gas Dilution Calibrator with ozone

generator

SA2-322-G-732: Gas Dilution Calibrator with

ozone generator and (OPS) photometer

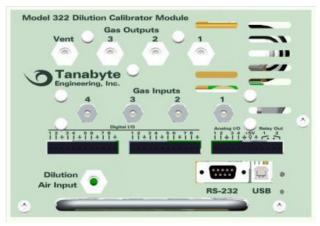
SA2-322-G-732-S: Gas Dilution Calibrator with

ozone generator and (OTS) photometer

SA1 enclosure supports one module



322 Gas Dilution Module Back Panel



Number of Gas Outputs: 4 Outputs 1/4" Tube OD Gas Outputs Fittings Size: Number of Gas Inputs: 4 Inputs Gas Input Fittings Size: 1/8" Tube OD Number of Analog Outputs: 4 Outputs Number of Digital I/Os: 16 I/Os Number of Air Inputs: 1 Input 1/4" Tube OD Air Input Fitting Size:

Physical Specifications

SA1 Calibrator Dimension: 8.1" W x 9" H x 23.4" L

Weight: SA1-322 = 20 Lbs SA1-322-G = 25 Lbs

SA1-322-G-P = 30 Lbs

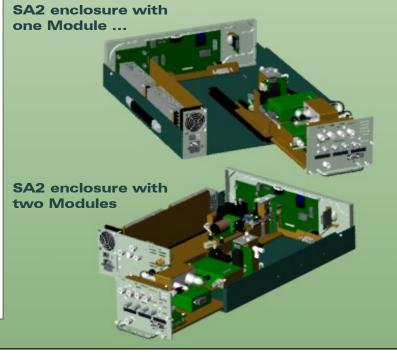
SA2 Calibrator Dimension: 17" W x 5.25" H x 21" L

Weight: SA2-322 = 22 Lbs SA2-322-G = 27 Lbs SA2-322-G-732 = 32 Lbs

Environmental Specifications

Operating Temperature: 5° to 45°C

Humidity: 0 to 90%, non-condensing



The Tanabyte 72x Series of Photometric Ozone Analyzers

Precision instruments for the Measurement and Calibration of Ozone

Direct Drop-In Replacements for the Dasibi Model 1008 series

USEPA APPROVED INSTRUMENTS

Model SA1-724
Ozone Transfer Standard
(SA1 Enclosure Type)



• 722 Ambient Ozone Analyzer

- 723 Transfer Standard with Cal/Sample Valves
- 724 Ozone Transfer Standard
- 725 Ozone Analyzer with Internal Zero/Span
- 726 Ozone Analyzer with Cal/Sample Valves
- 734 Ozone Primary Standard



Ozone Analyzer / Ozone Transfer Standard Combination
(SA2 Enclosure Type)

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The SA1 Enclosure type supports one module and requires a minimal amount of bench space. In addition, its lightweight and rugged design is ideal for field auditors and traveling service personnel.

The SA2 Enclosure type supports one or two Modules and is rack or bench mountable. Its 5¼" (same as Dasibi) height requires less rack space than similar instruments on the market, which are typically 7" or higher.

The Tanabyte instruments shares many common components with the Dasibi Model 1008 series and inhertits the Dasibi type "Dot Commands" protocol from the Dasibi Model 5008. The Audit Analog Input allows the Tanabyte calibrators to automatically generate Ozone Certification Reports.

Advantages and Features:

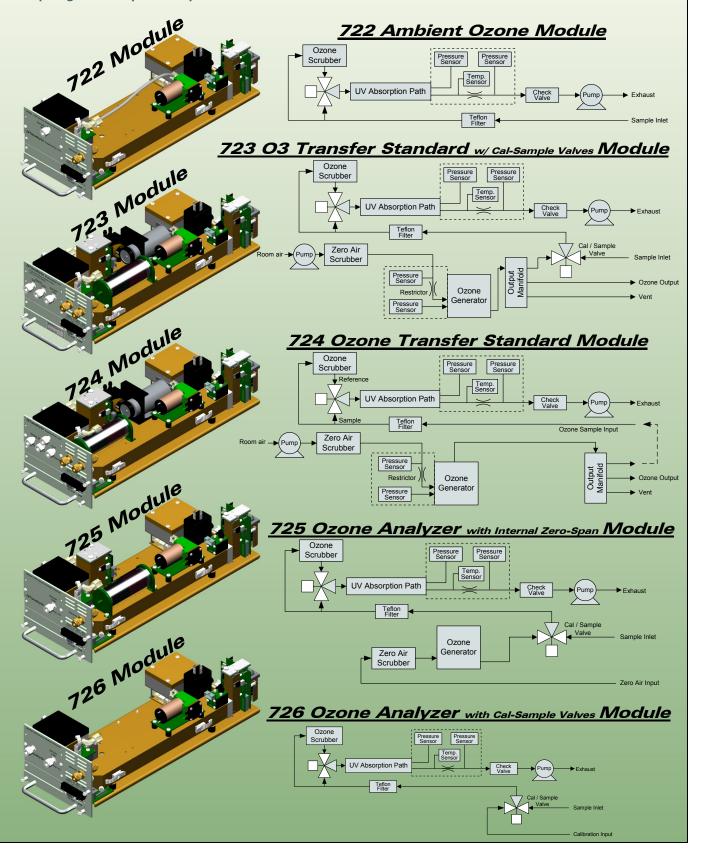
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Ozone Analyzer and Ozone Calibrator

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Configurations

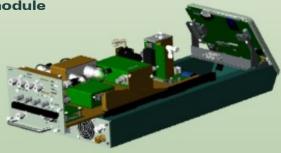
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The SAI is very versatile, durable, and light weight with a small foot print of only 8" wide and is classified as our portable-bench mounting version.

The SA2 has the conventional width of 17" wide to fit instrument racks and can be configured for bench mounting or rack mounting and has a height of only 5.25 " (same as Dasibi Model 1008 series) to economize space in instrument racks

The SA1 enclosure supports one module



Ozone Analyzer and Ozone Calibrator Model Numbers

SA1-722: Ozone Analyzer

SA1-723: Ozone Transfer Standard with Cal-

Sample Valves

SA1-724: Ozone Transfer Standard

SA1-725: Ozone Analyzer with Internal Zero-

Span

SA1-726: Ozone Analyzer with Cal-Sample

Valves

SA1-734: Ozone Primary Standard

SA2-722: Ozone Analyzer

SA2-723: Ozone Transfer Standard with Cal-

Sample Valves

SA2-724: Ozone Transfer Standard

SA2-725: Ozone Analyzer with Internal Zero-

Span

SA2-726: Ozone Analyzer with Cal-Sample

Valves

SA2-734: Ozone Primary Standard **SA2-722-722:** Ozone Analyzer and Ozone

Analyzer Combination

SA2-722-723: Ozone Analyzer and Ozone

Transfer Standard Combination

\$A2-722-724: Ozone Analyzer and Ozone

Transfer Standard Combination

SA2-726-724: Ozone Analyzer and Ozone Transfer Standard Combination

Other Instrument Combinations are available upon request.

Physical Specifications

SA1 Dimensions:	8.1" W x	9" H x 23.4" L
Weight: SA1-722	=	19 Lbs
SA1-723	=	26 Lbs
SA1-724	=	24 Lbs
SA1-725	=	22 Lbs
SA1-726	=	20 Lbs
SA1-734	=	23 Lbs
SA2 Dimensions:	17" W x 5	5.25" H x 21" L
Weight: SA2-722	=	22 Lbs
SA2-723	=	29 Lbs
SA2-724	=	27 Lbs
SA2-725	=	25 Lbs
SA2-726	=	23 Lbs
SA2-734	=	26 Lbs
SA2-722-72	2 =	32 Lbs
SA2-722-72	4 =	36 Lbs

Environmental Specifications:

Operating Temperature: 5° to 45°C Humidity: 0 to 90%, non-condensing

SA2 enclosure with two modules

Ozone Analyzer and Ozone Calibrator Specifications:

Ozone Photometer:

Measurement Range: 0-500 PPB, 0-1000 PPB,

0-10 PPM, or auto-ranging

Sample Flow Range: Adjustable 0.5 to 2.0 LPM Zero Noise: < 0.3 PPB

Span Noise: < 0.5% of reading

Lower Detectable Limit (LDL): <0.5 PPB Precision: < 1 PPB

Linearity: < 1% of full scale Zero Drift: < .001 PPM per month Span Drift: < 1% of reading per wk Lag/ Rise/ Fall:

10/ 20/ 20 Secs (Fast Cycle)

(above 100 PPB)

Resolution: 0.1 PPB

Ozone Generator:

Ozone Generator Range: 0 - 1200 PPB Minimum Non-Zero Ozone Output: 1 PPB Ozone Output Resolution: 0.5 PPB Ozone Output Linearity: +/- 1% of range 5 to 7 LPM Zero Air Flow Rate:

Zero Air Pollutant Concentrations: < 1 PPB O3, NO, NO2,

H2S, SO2, Hydrocarbons

Analog Outputs:

Number of Analog Outputs:

Analog Output Full Scale Ranges:

Analog Output Resolution:

Digital IOs:

Number of Digital IO: Status Input Voltage Range: **Control Output Voltage Range:** Number of Isolated Relay Output: **Relay Contact Voltage Range:**

Digital Ports: RS232 Ports Ethernet (Optional): Analog Input:

Number of Analog Inputs: **Analog Input Range:**

Power:

AC Input Power:

100 mV to 10 V

(Independently Selectable)

16 Bits

0 - 5 VDC TTL 0 - 5 VDC 2 (722, 724) 24VDC

2 (9 Db) 1 (RJ45)

0 - 1 VDC

The Model SA2-722-724 Ozone Analyzer and Ozone

Transfer Standard shown in a SA2 enclosure

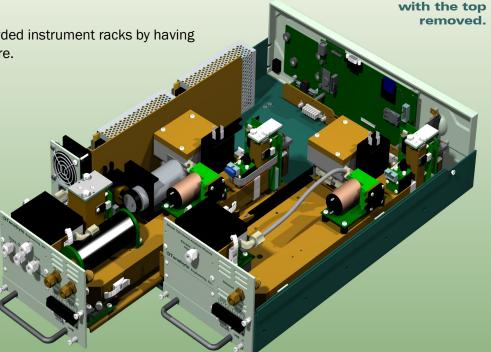
90 to 264 VAC, 50 or 60 Hz

Instrument Combinations:

· Cost effective solution

 Space saving solution to crowded instrument racks by having 2 instruments in one enclosure.

Split screen display



Analysis Modules are easily removed for calibration & service

