F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

Tritium Collection System
Model KH3-200

NOTABLE FEATURES:

- Tritium in Water Vapor Collection System
- Automatic Flow Control
- Digital Flowmeter displaying flow, elapsed time and accumulated volume
- Large, bright LED Display
- Correction of flow rate and volume to a reference temperature and pressure (4 options)
- Tri-125ml bubbler system
- Brushless motor
- 110/240VAC; 50/60Hz; single phase

GENERAL DESCRIPTION:

The Model KH3-200 Tritium collection system consists of a three 125 ml bubbler jar train for collection of tritium in water vapor. A diaphragm pump with an automatic flow control mechanism utilizing the F&J digital flowmeter system is provided.

Typical flow range is 1 to 5 SLPM (other flow range options are available). Recommended sampling rate is 2-3 LPM.

Real-time data download is available through the RS232 port. An optional flash card data storage device is available.

The unit is designed for intermittent short-term indoor use. Please consult the product specifications for the design temperature range and the installation category.

Rev.: 24 Nov. 2015
F:\MARKETING\BROCHURES\Air Samplers and Monitors\110V\Tritium and Carbon-14\Tritium\KH3-200 Series.doc

KH3-200 Tritium Collection System (110/240 VAC)

SPECIFICATIONS:

PUMP TYPE: Diaphragm

MOTOR: Brushless Type; 12VDC PWM

MAXIMUM CAPACITY: Typical 1-5 SLPM control range
Other flow ranges available upon request.

POWER REQUIREMENTS: 100-240 VAC; 50/60 Hz; 1 ampere; single phase

FUSE PROTECTION: 2 amperes (in recessed plug)

ELECTRICAL CORD: All temperature, 3-wire, 16 gauge

DIMENSIONS: 18"H×13"W×12"D (45.7 cm H×33.0 cm W×30.5 cm D)

AVERAGE dB : 51.0

WEIGHT: 12.3 lbs. (5.6 kg)

INSTALLATION CATEGORY: Pollution Degree 2

TRITIUM COLLECTION SYSTEM:

- Removable 125 ml bubbler jars; One three bubbler train (2 bubbler jars & 1 moisture trap)

AIR FLOW MEASUREMENT SYSTEM

- Air flow: ± 4% of full scale
- Temperature: ± 0.9ºF (0.5ºC) (Not displayed)
- Absolute Pressure: ± 0.6 inches Hg (15,24 mm Hg) (Not displayed)

ON-BOARD CALCULATIONS

- Flow calculation from differential pressure value corrected to a reference T and P
- Elapsed Time
- Cumulative Volume corrected to a reference T and P

OPERATING TEMPERATURE: (0º-40ºC) (32ºF-104ºF)

STORAGE TEMPERATURE: (-10ºC-50ºC) (14ºF-122ºF)

OPERATING HUMIDITY: 0-95% RH non-condensing

COMMUNICATIONS INTERFACES:

RS-232 available for real-time data download of airflow data

OPTIONS:

- Flash Card Data Storage Device 232FCDSD
- Flash Card (2 GB) 372239
- PC Flash Card Reader SDDR-199-A20