



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
- 100 - 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 0.8 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.

KH3-200 Tritium Collection System (100 - 240 VAC)

SPECIFICATIONS:

PUMP TYPE:	Diaphragm
MOTOR:	Brushless Type; 12VDC PWM
MAXIMUM CAPACITY:	Typical 0.8-5 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)
NOISE LEVEL :	Average dB 51.0 @ 1 meter
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: $\pm 4\%$ of full scale
- Temperature: $\pm 0.9^{\circ}\text{F}$ (0.5°C) (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: (0°-40°C) (32°F-104°F)

STORAGE TEMPERATURE: (-10°C-50°C) (14°F-122°F)

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 232FCDS
- Flash Card (2 GB) 372239
- PC Flash Card Reader SDDR-199-A20