



# F&J SPECIALTY PRODUCTS, INC.

*The Nucleus of Quality Air Monitoring Programs*

## HIGH VOLUME AIR SAMPLER w/ "COMET STYLE" PLASTIC HOUSING F&J Models T8400M and T8400ME

### NOTABLE FEATURES:

- Very durable polypropylene plastic housing
- Lightweight <9 lbs. (4,1 kg)
- Variable speed control up to full flow
- Thermally Protected Motor
- Dual ball bearing motor
- 100-120VAC, 50/60Hz; single phase, 1.4 H.P.
- 220-240VAC, 50/60Hz; single phase, 1.8 H.P.
- Flow measurement gauge options
  - Single: 10 – 70 CFM (280 – 1980 LPM)
  - Dual: 10 – 70 CFM (280 – 1980 LPM)
  - Dual: .5 – 2 CMM (500 – 2000 LPM)
- Circuit Breaker Protected
- Flow rate monitoring gauge



**"Thermally Protected Motor"**

### GENERAL DESCRIPTION:

The T8400M (100-120VAC) and the T8400ME (200-240VAC) Series Air Samplers are high volume air samplers with two stage, thermally protected electric motor driven vacuum blowers. The motor driven blower is mounted in a very durable lightweight plastic polypropylene housing, mounted to a sturdy base plate, having non-skid rubber feet. An optional portable flow-monitoring gauge calibrated in cubic feet per minute (CFM) or liters per minute (LPM) or cubic meters per minute (CMM) may be utilized to measure the flow rate. The flow rate is adjustable by use of a motor speed controller.

The T8400M or T8400ME Air Sampling System is designed for periodic short-term indoor use. Please consult the product specifications for the design temperature range and the installation category.

REV: 20 August 2018

# T8400M (100VAC) and T8400ME (220VAC) High Volume Air Sampler

## Pump Type:

Two stage, through flow, thermally protected 1.4 H.P. (100-120VAC) and 1.8 H.P. (220-240 H.P.), dual ball bearing vacuum blower.

## Maximum Capacity:

90 CFM (2500 LPM) at 29.92" HG at 68°F at zero load

## Power Requirements:

**T8400M** – 100-120VAC; 50/60Hz @ 8.8 amperes; single phase

**T8400ME** – 200-240VAC; 50/60Hz @ 5,2 amperes; single phase

**Circuit Breaker Protection:** 10 amperes

**Electrical Cord:** All temperature, 3 wire, 16 gauge

## Thermal Overload Protection:

Furnished as an integral part of the motor

## Flow Control

Variable Speed up to full flow

**Exterior Housing:** Heavy duty polypropylene

**Handle:** Durable plastic/metal

## Dimensions:

9 3/4" L × 9 1/2" W × 10 3/8" H  
(23,8 L × 24,1 W × 26,4 cm H)

**Average dB:** 87.3

**Weight:** 8 lbs. 10 oz. (4,1 kg)

**Installation Category:** Pollution Degree 2

## Operating Temperature:

40° - 104°F (4° - 40°C)

## Storage Temperature:

32° - 122°F (0° - 50°C)

## Particulate Holder:

A durable plastic 4-inch (102 mm) diameter holder is standard

## Maximum Flow Rates:

### HV-1SA or HV1SAP Reducer and Small Diameter Filters

Charcoal Filter	Filter Paper	Flow Rate	
		(CFM)	(LPM)
TE1C	FP47M	9	250
TE2C	FP47M	6	170
TE3C	FP47M	7	198

### FJ304 Combination Filter Holder:

Charcoal Filter	Filter Paper	Flow Rate	
		(CFM)	(LPM)
TE3.1	-----	36	1019
TE3.1	FP40M	18	509
TE33.1	-----	23	651
TE33.1	FP40M	14	396

### Various Filter Paper Grades

Grade	102 mm Diameter	
	(CFM)	(LPM)
FP40	25	708
FP40M	44	1245
213340	47	1330
FP102M2	59	1670

  

Grade	20,3 × 25,4 cm Diameter	
	(CFM)	(LPM)
FP810	64	1811

## Options:

### Model FM50TA2880 Flow Monitoring Gauge

Dual Scale: 10-70 CFM and 300-2000 LPM

### Model FM50TA2881 Flow Monitoring Gauge

Dual Scale: 0.50-2.00 CMM and 300-2000 LPM

### Model HV-1SA or HV1SAP Adapter

An adapter to reduce from 102 mm diameter to 4,65 cm FPT

### Model FJ3140P Combination Filter Holder

Holds 3.4"D × 1.2"H charcoal filter and 4" (102 mm) diameter filter paper

### Model FJ2100 Filter Holder

20,3 × 25,4 cm particulate filter holder may be utilized directly on the unit