



F&J SPECIALTY PRODUCTS, INC.

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The Nucleus of Quality Air Monitoring Programs

HIGH VOLUME AIR SAMPLER w/”COMET STYLE” PLASTIC HOUSING F&J MODELS T8400 and T8400E

NOTABLE FEATURES:

- Very durable polypropylene plastic housing
- Lightweight <9 lbs. (4,1 kg)
- Variable speed control up to full flow
- Thermally Protected Motor
- Powerful 1.4 H.P. dual ball bearing motor
- 100-120VAC, 50/60Hz; single phase
(220-240VAC, 50/60Hz; single phase also available)
- Optional flow measurement gauge 10 – 70 CFM
(280 – 1980 LPM)
- Circuit Breaker Protected
- Optional – Resettable elapsed time meter



**“Thermally Protected Motor”
Shown with Optional Flow Gauge**

GENERAL DESCRIPTION:

The T8400 (100-120VAC) and the T8400E (220-240VAC) 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) may be utilized to measure the flow rate. The flow rate is adjustable by use of a motor speed controller.

The T8400 or T8400E 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: 22 Feb. 2016

T8400 (120VAC) and T8400E (230VAC) High Volume Air Sampler

SPECIFICATIONS:

Pump Type:

Two stage, through flow, thermally protected 1.4 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:

T8400 – 100-120VAC; 50/60Hz @ 8.8 amperes; single phase

T8400E – 220-240VAC; 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)

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)	Flow Rate (LPM)
TE1C	FP47M	9	250
TE2C	FP47M	6	170
TE3C	FP47M	7	198

FJ304 Combination Filter Holder:

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

Various Filter Paper Grades

102 mm Diameter

Grade	(CFM)	(LPM)
FP40	28	792
FP40M	48	1358
FP40L	75	2123
213340	47	1330
AE40	27	764

20,3 × 25,4 cm Diameter

Grade	(CFM)	(LPM)
FP810	64	1811
AE810	62	1755

OPTIONS:

Model FM50TA Flow Monitoring Gauge

A portable flow-monitoring gage (280-2000 LPM) is available

Model HV-1SA or HV1SAP Adapter

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

Model FJ304 Combination Filter Holder

Holds 8,6 cm" D × 3 0 cm H charcoal filter and 102 mm diameter filter paper

Model FJ2100 Filter Holder

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

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