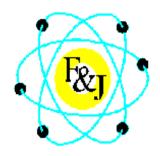
## F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs



## HIGH VOLUME AIR SAMPLER F&J MODEL HV-1TE

#### **NOTABLE FEATURES:**

- > Single Rotometer
- > Multiple Reinforcement for the Electrical Cord
- > Stable Base Plate
- Removable Controller Module to Facilitate Maintenance
- ➤ Multiple Rotometer Scales are Available
- ➤ Flow Adjustment Via Motor Speed Control
- > Dual ball Bearing Motor with Independent Cooling
- ➤ Automatic Shut-Off Timer
- $\geq$  220 240VAC, 50/60Hz; single phase



#### **GENERAL DESCRIPTION:**

Models HV-1TE single rotometer is a high volume air sampler that features electronic flow regulation, a motor cooling fan within the motor housing, flow measurement and flow calibration capability. The pump is mounted on a rigid base with nonskid rubber feet. A removable controller module unit includes a protective guard for the single rotometer and the controls. This removable module facilitates maintenance of the pump components. A shutoff timer is provided to automatically shutoff the motor after a preset sampling time is achieved.

**Rev: 18 April 2012** 

### **Specifications:**

#### **Pump Type:**

Two-stage, dual ball bearing, bypass type with an independent cooling system for the motor that provides thermal overload protection

#### **Maximum Air Capacity:**

94 CFM at 29.92" Hg and 68°F. (Free air flow)

#### **Temperature Operating Range:**

18 to 122°F (-7 to 50°C)

#### **Ultimate Vacuum:**

80" H<sub>2</sub>O at standard temperature, pressure and zero flow restriction

**Power:** 220-240VAC; 50/60Hz at 3 amperes; single phase

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**Fuse Protection:** 6 Amperes, slow-blow fuse

**Handle:** Durable Plastic

**Base Plate:** 

**Weight:** 0,5 kg (1 lb.)

**Dimensions:** 7"L  $\times$  7"W  $\times$  1/8" Thick

**Dimensions:**  $9 \frac{1}{4}$ "L ×  $8 \frac{1}{4}$ "W × 10"H

 $(23.5 \times 21.0 \times 25.4 \text{ cm})$ 

**Weight:** Approximately 5 kg (11 lbs.)

**Timer:** Auto shut-off timer -60 min.

#### Flowmeter:

Various flow ranges are available in CFM or LPM.

#### Flow Calibration:

An adjustable needle valve at the top of the flow meter is secured by a locking nut

# STANDARD COMBINATION FILTER HOLDERS AVAILABLE:

Filter	Charcoal	<b>Particulate</b>
Holder	Cartridge	Paper
Model	<b>Dimensions</b>	<b>Diameter</b>
FJ-19P	F&J Model C	2" or 50 mm
FJ-27P	F&J Model B	2" or 50 mm
FJ-34P	F&J Model C	47 mm
FJ-39P	F&J Model B	47 mm
FJ-52P	F&J Model M	2" or 50 mm
FJ-54P	F&J Model M	47 mm

#### **OPTIONAL FILTER HOLDERS:**

Aluminum, Open-Face, 1.83" MPT

Model #
FJ-23 2" Particulate
FJ-33 47 mm Particulate
FJ-102 4" Particulate

# TYPICAL MAXIMUM FLOWRATES THROUGH VARIOUS FILTER COMBINATIONS:

Charcoal	Particulate		
Cartridge	Filter	Flowrate	
$2 \frac{1}{4}$ "D × 1"H	<u>47 mm</u>	<b>CFM</b>	<b>LPM</b>
TE1C		14,5	410
TE3C		9,6	272
TE2C		5,0	142
	FP47	5,4	153
	FP47M	10,0	283
TE3C	FP47	4,4	125
TE2C	FP47	3,5	99

#### **AVAILABLE ROTOMETER SCALES:**

Range

Model #

TVIOUCI II	<u>runge</u>	CITTED
R075	0,7-4,8	CFM
R13	1,0-3,0	CFM
R1070	1,0-7,0	CFM
R195	2 - 9.5	CFM
R312	3 - 12	CFM
R420	4 - 20	CFM
R530	5 - 30	CFM
R2085	20 - 85	LPM
R20140	20 - 140	LPM
R30200	30 - 200	LPM
R30270	30 - 270	LPM
R60360	60 - 360	LPM
R15570	140 - 570	LPM
R14085	150 - 850	LPM

**Note:** The selection of the rotometer scale(s) depends upon the filter(s) being utilized.

Units