

# SPB-2-SC POSITIVE INJECTION PUMP

## for aerosol injection and safer filter testing

**DOP** SOLUTIONS



### PRODUCT

**POSITIVE  
INJECTION  
PUMP**

### MODEL NUMBERS

**SPB-2-SC-240V  
SPB-2-SC-110V  
SPB-2-240V  
SPB-2-110V**

## OVERVIEW

The Positive Injection Pump (PIP) provides the user with a safe system for the direction of aerosol from a Thermal Generator or Laskin Nozzle Generator to the point of use.

Aerosol is drawn into the PIP at its suction point and ejected under pressure through a large bore flexible pipe.

The tubing supplied can be connected directly to DOP injection ports and sparge pipes and makes it possible to inject aerosol into positive pressure zones or air handling units, clean air and containment systems and enhances mixing.

Speed control allows for regulation of the discharge velocity, which is essential when introducing aerosol at apertures of various size.

## FEATURES and BENEFITS

- ◆ Adjustable swan-neck inlet works with any model of Aerosol Generator. The Aerosol Generator simply stands on the floor inline with the PIP.
- ◆ Mounted on a stainless steel base with rubber feet to suit all floor types and prevent movement when in use.
- ◆ Aerosol is directed to the injection point using the 5cm diameter flexible pipe, provided in a 10 metre length.
- ◆ Aerosol can be injected into positive pressure zones up to 100mbar.
- ◆ PIP power provides enhanced mixing by injecting against or across the normal system airflow.
- ◆ Aerosol is available remote from the air blower and aerosol generator - up to 20 metres away if required. This means you no longer need to take the complete aerosol generator into the clean environment - just the flexible pipe.
- ◆ Speed control version allows precision control of sparge pipe aerosol curtain for testing clean air cabinets and Microbiological Safety Cabinets.

 **LIGHTHOUSE**  
WORLDWIDE SOLUTIONS BENELUX BY

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## SPECIFICATIONS

			MODEL NUMBER	
			SPB-2	SPB-2-SC
<b>PIP ASSEMBLY</b>	SIZE	Height	29.5 cm	29.5 cm
		Length	41.0 cm	41.0 cm
		Width	26.0 cm	26.0 cm
	WEIGHT	Without tubing	14.5 kg	15.2 kg
	MATERIAL		Pump mounted on stainless steel stand, with carry handle	Pump mounted on stainless steel stand, with carry handle
<b>PUMP</b>	TYPE		Regenerative	Regenerative
	MATERIAL		Cast aluminium	Cast aluminium
	ELECTRICAL	Voltage	110-120V 50 Hz, 0.4kW 220-240V 50 Hz, 0.4kW	110-120V 50 Hz, 0.4kW 220-240V 50 Hz, 0.4kW
<b>OPERATING CONDITIONS</b>		Temp %RH	5-50°C 30-80%	5-50°C 30-80%
		Pressure / Flow	58m <sup>3</sup> /hr @ 50mbar	≤ 58m <sup>3</sup> /hr @ 50mbar
<b>SPEED CONTROL</b>	With on / off switch		N/A	10% - 100% range
<b>HOSE</b>	Flexible 5cmØ		10 metres	10 metres

## ORDERING INFORMATION

### **Trolleys**

PIPs can be mounted onto a trolley, and can include space and shelves for Aerosol Photometer and Aerosol Generators.

### **Blower options**

Other blowers with higher output can be supplied on request.

### **Tubing (700-203)**

Additional or spare, flexible 50mm diameter in 10m lengths. Fits directly onto DOP Aerosol Injection Ports and sparge pipes.

### **Injection Ports (630-701 and 630-701-xxx)**

Injection ports with positive sealing screw caps allow easy connection of the PIP flexible tube and aerosol injection.

### **Aerosol Mixing Splitter System (DOP1350)**

The AMSS can be used in conjunction with the PIP to split the aerosol challenge into two separate feed lines. One line is dumped and the other line is directed to the point of use through the PIP. Good control of the feed line (pressure and flow) is achieved using the two adjustable gate valves in the DOP1350.

### **POSITIVE INJECTION PUMPS**

**SPB-2-240V** for 220/240V 50 Hz operation

**SPB-2-110V** for 110/115V 50 Hz operation

**SPB-2-240V-SC** with Speed Controller for 240V 50 Hz operation

**SPB-2-110V-SC** with Speed Controller for 110V 50 Hz operation