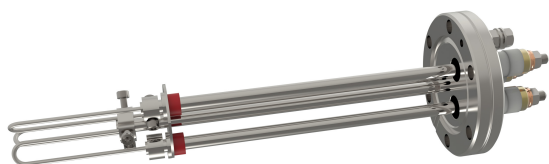


# Sublimation Pump

The ST22 is used to enhance the performance of secondary pump units giving the ability to increase pump speed for active gases to give true UHV conditions in the  $10^{-11}$  to  $10^{-12}$  mbar regions.



## Product Overview

- Triple filament
- 70 mm OD conflat mounting flange
- Titanium molybdenum alloy filaments 2mm diameter
- 1.5m bakeable interface and cable connections available
- Typically  $> 4 \text{ ls}^{-1} \text{ cm}^{-2}$  pump speed for  $\text{N}_2$  at room temperature
- Operable pressure range  $1 \times 10^{-4}$  mbar to  $1 \times 10^{-12}$  mbar

Gas species	H <sub>2</sub>	N <sub>2</sub>	O <sub>2</sub>	CO	CO <sub>2</sub>	H <sub>2</sub> O	CH <sub>4</sub>	Inerts
+20°C	3	4	9	9	8	3	0	0
-196°C	10	10	11	11	9	14	0	0

Temperature is that of the condensing wall and shows resultant pumping speed of the titanium film

Pump Head	Order code
Sublimation Pump Head	ZST22
Power supplies and Lead assemblies	
60 A Power supply and Controller, 220 VAC	ZSPC8
60 A Power supply and Controller, 110 VAC	ZSPC8L
5 m Non-bakeable Lead Assembly <sup>(1)</sup>	ZSPCCAB
1.5 m Bakeable Lead and Interface box	ZSPCIB
Spare Parts	
	Pack Size
Spare 2.0 mm Filaments	30
Spare filament clamp set <sup>(2)</sup>	3
Spare insulator bushes	3
Spare clamp screws	3

(1) From the ZSPC8 controller to the ST22 pump head (2) Contains 1 inner and 3 outer clamps plus a set of screws

The SPC8 is a cost-effective controller which provides all the features necessary for successful sublimation pump operation. It provides manual or automatic control for the ST22 sublimation pump, with bakeable or ambient operation leads available. Units are available for 220 V or 110 V operation.



## Product Overview



- Digital timer
- On, off and remaining time displayed on controller
- Manual or automatic operation
- Drives up to 4 filaments
- Interface for automatic control
- Soft start current control