

Particle Size Selector

Model 376060

Allows selection of different cutoff sizes for CPCs.

The Particle Size Selector (PSS) allows you to control the lower size cutoff of a TSI® Condensation Particle Counter (CPC). The PSS is a separating device that selectively removes small particles from an aerosol by diffusion. Simply add or remove diffusion screens to change the lower cutoff size. The cutoff shifts toward larger sizes as more screens are added.

The PSS includes 11 screens and, therefore, can be configured for 11 cutoff sizes. An extra set of 12 screens may be ordered to expand the cutoff range further. Specific cutoff sizes vary based on CPC operating flow rate.

The technique of using a Condensation Particle Counter with diffusion screens to select specific particle size ranges is covered in United States Patent Number 5,072,626.



PSS Accessory (available separately):

Specify	Description
376061	Set of 12 additional diffusion screens

Vacuum Pumps

Models 3032 & 3033

Use these top-quality Gast pumps when you need a portable vacuum source.

The model 3032 is a quiet diaphragm-type pump that produces flow rates up to 5 L/min. Oversized, permanently lubricated bearings promote longer life and maintenance-free operation. The pump operates in any position. We offer this small, reliable pump for use with our 3790A /-10, 3783, and 3750 Condensation Particle Counters, or 3938 Scanning Mobility Particle Sizer™ spectrometers containing a 3750 CPC.

The model 3033 produces flows up to 60 L/min. This high-quality, rotary-vane pump contains self-sealing, compound-carbon vanes that self-adjust as they wear. Therefore, it always operates at top efficiency. Permanently lubricated ball bearings make the 3033 virtually maintenance-free. This is the pump we recommend for use with our 3068B Aerosol Electrometer or when using multiple CPCs that require an external vacuum source. This pump is also suitable for TSI 3306 Impactor Inlet when used with our APS.

Vacuum Pumps

Specify	Description
3032	Diaphragm pump, for flow rates up to 5 L/min, 115 V
3032-1	Diaphragm pump, for flow rates up to 5 L/min, 230 V
3033	Rotary-vane pump, for flow rates up to 60 L/min, 115 V (Available in voltages of 100-240VAC and 50-60 Hz)

TSI® recommends these pumps only for use with specific TSI® particle instruments. Please specify voltage requirements at time of order.

High Flow Sampling System

Model 140-HFSS

The High Flow Sampling System (HFSS) 140-HFSS is an accessory designed to be used with the 140 QCM MOUDI™ when sampling ambient air at varying temperature and humidity conditions.

A Nafion® dryer can reduce the relative humidity of the sample air from as varying as ~100 % at 40 °C to below 80 % at normal room temperature (i.e. 25°C), avoiding water condensation in the sampling line upstream of the QCM MOUDI™.

