



SERVICE OPTIONS



CONDENSATION PARTICLE COUNTER (CPC) 3775

TSI service, performed on an annual basis, helps to keep your CPC 3775 in proper working order. TSI offers two levels of service: **Clean and Calibrate**, and **Repair, Clean and Calibrate**. Read below to learn what is included in each service.

Clean and Calibrate Service includes:	
Maintain	<ul style="list-style-type: none">+ Clean optics, align laser, and adjust laser power to optimize count pulse signal+ Inspect and clean orifices, inlets, and nozzles+ Calibrate analog-out voltages, verify proper performance of analog-in+ Confirm proper function of water removal system, front panel LED's, flash memory card, Ethernet port, front panel control knob
Replace	Parts <ul style="list-style-type: none">+ Replace wick, air filters, liquid filters, o-rings+ Replace aged parts, as needed: discolored tubing, nozzle, orifice, lens
	Firmware <ul style="list-style-type: none">+ Ensure that all available firmware updates are installed
Test	Flows <ul style="list-style-type: none">+ Leak check and inlet flow rate accuracy check
	Sensors <ul style="list-style-type: none">+ Calibrate temperature and fill sensors to ensure accuracy. Ensure accuracy of pressure measurements
	Concentration <ul style="list-style-type: none">+ <i>Zero check</i>: test CPC for 12 hours with a filter at the inlet to ensure accuracy at very low concentrations+ <i>vs. Reference CPC</i>: compare your CPC's reading to a Reference unit challenged in parallel at six aerosol concentrations. Agreement between the two instruments ensures accuracy of your CPC 3775 in single particle counting mode (i.e. $\leq 5 \times 10^4 \text{ \#/cm}^3$)+ <i>Photometric</i>: calibrate photometric mode (concentrations up to $1 \times 10^7 \text{ \#/cm}^3$) by measuring 19 concentrations of test aerosol in parallel with a 3772 CPC (with calibrated dilutor) as the reference instrument. This test includes concentrations in single-particle counting mode ($\leq 5 \times 10^4 \text{ \#/cm}^3$) to ensure that the transition to photometric mode is accurate
	Broken Parts <ul style="list-style-type: none">+ Pump, laser, display, etc. <i>(In such cases, consider 'Repair, Clean and Calibrate' service)</i>
Does NOT Include	Physical Damage <ul style="list-style-type: none">+ Physical damage to frame or housing

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Repair, Clean and Calibrate includes:

Repair	+ Repair or replace broken parts
Clean and Calibrate	+ All actions in a standard 'Clean and Calibrate' service are then performed
Does NOT Include	+ Physical damage to frame or housing

WHAT MAKES TSI SERVICE VALUABLE?

As a result of TSI service, you are returned an optimally performing and updated instrument. The service is performed by TSI's experienced technicians for a fixed price. This simple service process allows you to stay focused on the work that is important to you. TSI CPCs are calibrated traceable to National Standards and Metrology Institutes (NIST and NPL UK) and other accepted values of physical constants. TSI is registered to ISO-9001:2015.

These TSI services come with a 90-day warranty on labor performed, or parts used, during the service.

REQUEST SERVICE

Specify

CL-3775

RP-3775

Description

Clean and Calibrate

Repair, Clean and Calibrate

Call, or visit

[tsi.com/requestservice](https://www.tsi.com/requestservice)

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