

# Service Options



## Fast Mobility Particle Sizer™ (FMPS™) Spectrometer

3091

TSI® service, performed on an annual basis, helps to keep your FMPS™ 3091 spectrometer 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**

- Clean column, charger, and inlet cyclone

**Replace**

#### Parts

- Provide free updates as needed on instrument parts that may have changed since original manufacturing date to improve product quality
- Replace internal filters, tubing, and charger needles

#### Firmware

- Ensure that all available firmware updates are installed

#### Flows

- Check for leaks, check/calibrate inlet and outlet flows, check and adjust charger flow

#### Electrical

- Check functionality of analog inputs and trigger
- Check pump voltages, column heater, and electrometers
- Check and adjust column voltages to ensure sizing accuracy

**Test**

#### Sizing and Concentration

- Check and adjust total concentration measurement when comparing to a reference CPC
- Confirm EEPS' sizing and number concentration accuracy, vs. a reference SMPS™, using both polydisperse and monodisperse test aerosols

**Does NOT  
Include**

#### Broken Parts

- Pumps, electrical boards, display, etc.  
*(In such cases, consider 'Repair, Clean and Calibrate' service)*

#### Physical Damage

- Physical damage to frame or housing

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## Repair, Clean and Calibrate includes:

Repair • Repair or replace broken parts (e.g. extraction pump, display)

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 FMPS™ spectrometers 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	Description
CL-3091	Clean and Calibrate
RP-3091	Repair, Clean and Calibrate

Call, or visit  
[tsi.com/requestservice](https://www.tsi.com/requestservice)



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**TSI Incorporated** - Visit our website [www.tsi.com](http://www.tsi.com) for more information.

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