



UNDERSTANDING, ACCELERATED

BUTANOL CONDENSATION PARTICLE COUNTERS

FAMILY SERIES 375X



PARTICLE COUNTING NEWLY DEFINED

With 1000s of installed systems, TSI CPCs have set the standard for nanoparticle measurements. The new family of four makes the best CPCs even better.

Increased Performance

The Standard CPC, model 3750, now works up to 100,000 particles/cm³ with $\pm 5\%$ accuracy and a counting efficiency (50%) of 7 nm. The CEN/TS 16976 compliant model 3750-CEN combined with the matching sampling system increases the maximum applicable concentration to 300,000 particles/cm³. The new high concentration CPC, model 3752, now works up to 100,000 particles/cm³ in single count mode, before the photometric mode activates and extends the range to 10,000,000 particles/cm³.

Improved Reliability

An automatic shut-off deactivates the internal or external vacuum in case of critical low inlet pressures, helping to prevent accidental flooding. A tilt sensor does the same in case the CPC is tilted 10° or more.

New Features

The new Pulse Height Monitor in the set of diagnostic features indicates the quality of measurements done and warns before error conditions impact the data validity. All CPCs store 50 Hz data in their internal memory. The brand-new intuitive software enables remote access to the data, download and export as well as control of multiple CPCs simultaneously.

Enhanced Flexibility

Network connections are now available through Ethernet or an optional Wi-Fi adapter. We also welcome the CEN/TS 16976 compliant model to the family of SMPS compatible CPCs.



TRUSTED PERFORMANCE. PROVEN HISTORY.

The next generation CPCs are built with the same architecture across all models and platforms, for easy, intuitive use. CPC data can now be stored in the CPC itself, and stored data can be accessed anytime – even remotely. With new and improved software, long-term monitoring users can rely on the seamless screening and exporting of large data sets. 40+ years of design experience. True single particle counting.

OPTIONS MEETING YOUR MEASUREMENT NEEDS



Meet The Family

Interested in particle size distribution measurements? All listed CPCs are SMPS compatible - check out our SMPS family brochure.

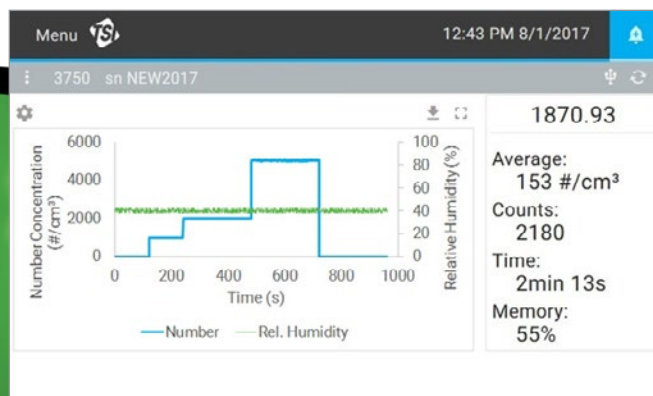
	The Standard	For High Concentrations	For the Ultrafines	The 1 -nm Solution
Model #	3750	3752	3756	3757-50
Minimum detectable particle size (D50%)	7 nm	4 nm	2.5 nm	1.1 nm
Upper concentration limit	100,000 particles/cm ³	10,000,000 particles/cm ³	300,000 particles/cm ³	300,000 particles/cm ³
Use for	Where highest counting flow is needed, e.g. in low concentrations.	Monitoring polluted areas, such as harbors or high traffic streets.	Research focusing <10 nm.	Best counting efficiencies down to molecule clusters.

More of Us

	The Monitoring Standard	The Nano Enhancer
Model #	3750-CEN	3757
Minimum detectable particle size (D50%)	7 nm (Silver aerosol)	1.1 nm (NaCl aerosol, geometric diameter)
Upper concentration limit	100,000 particles/cm ³	n/a
Use for	Monitoring in accordance to the CEN/TS 16976 specifications. Combine with the compliant sampling system.	Growing sub 2-nm particles to be detected with The Standard CPC.

Software Helps You to Control and Transform Your Data

- + Control multiple devices
- + Slice and dice through large data sets
- + 50 Hz Data Acquisition made easy
- + View live data and complete post-processing in parallel



OPTIMIZE YOUR RESEARCH

Join the leader in the research industry and revolutionize your particle data with the next generation of particle counting.

ACCESSORIES

Vacuum pump

A vacuum is required for the operation of the models 3750, 3757, and 3757-50. If no house vacuum or other options are available at the measurement site, the options below must be ordered separately.

3032	Vacuum pump for 115 V @ 60 Hz for up to 2 CPCs, includes tubing.
3032-1	Vacuum pump for 230 V @ 50 Hz (USA based supplier, includes tubing)
3032-EC	Vacuum pump for 230 V @ 50 Hz (EU based supplier, includes tubing)
3033	Vacuum Pump, 115 V (North America only), recommended when using multiple CPCs (>2) that require an external vacuum source. Customers in other parts of the world must contact TSI for selecting model number and power rating.

Optional Accessory

3750-MKIT	Maintenance Kit for CPC 3750
3752-MKIT	Maintenance Kit for CPC 3752
3756-MKIT	Maintenance Kit for CPC 3756
3757-MKIT	Maintenance Kit for CPC 3757
3772200	Environmental Sampling Inlet, compatible to CEN/TS 16976

Specifications are subject to change without notice.

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LEARN MORE

To learn more about CPC Instruments, please visit www.tsi.com/newcpcs



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TSI Incorporated - Visit our website www.tsi.com for more information.

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Singapore Tel: +65 6595 6388

Service

Warranty extension by 1 year

EX1-3750
EX1-3752
EX1-3756
EX1-3757

Service agreements for up to 3 years including warranty extension, clean and calibrate and repairs (including internal consumables and wear parts). Replace the # with the number for the years of coverage (1, 2, or 3).

SA#-3750
SA#-3752
SA#-3756
SA#-3757



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