

TO-Clean: Canister Cleaning System

TO-Clean is a revolutionary canister cleaning system developed by Wasson-ECE Instrumentation.

Now Cryogen Free!



Increase Your Lab's Efficiency

Canisters are often the medium of choice for collecting air grab samples to test for volatile organic compounds (VOCs). These containers have an inert lining, long hold times and do not require a sampling pump. However, as canisters are re-used, it is vital to know they are clean before sampling. Any carryover from previous samples can have serious effects.

The TO-Clean system was designed to take the guess work out of canister cleaning. Based on EPA Methods TO-14A and TO-15*, this fully automated system features an isothermal oven with twelve 6-liter canister capacity.

The system comes with an automated leak check method to ensure system operation. The result is a high performance system that is easy to use.

Product Features

- Based on EPA Method TO-14A/15*
- Holds 12, 6L canisters
- Embedded touch screen controller
- Custom-built trays for different canister sizes
- Isothermal oven, controllable up to 110°C
- Edwards nXDS6i vacuum pump capable of 40 mTorr system pressure
- Orbital welded stainless steel manifold for a high purity leak free system
- Electronic pressure transducers with digital readout
- Humidifier
- Flexible tubing for easy canister attachment
- 1/4" Swagelok connections (custom connections available)

Dimensions



* The TO-14/TO-15 EPA methods specify a cryogen trap to prevent oil contamination from pump and clean purge air. In place of cryogen, the Wasson TO-Clean system uses a molsieve trap to clean purge air and a dry pump.

TO-Clean: Specifications

Screen Captures

<p>WASSON-ECE INSTRUMENTATION</p> <p>Load Method</p> <p>TOClean Fast Clean Method Test Method Default</p> <p>▲ ▼</p> <p>Load</p> <p>Cancel</p> <p>Delete</p>	<p>WASSON-ECE INSTRUMENTATION</p> <p>Cycle/Times</p> <p>Number of Cycles: 3 ▲ ▼</p> <p>Cycle Number: 1 ▲ ▼</p> <p>Low Pressure Cycle Time: 1:00 min ▲ ▼</p> <p>High Pressure Cycle Time: 1:00 min ▲ ▼</p> <p>Accept Cancel</p>
<p>WASSON-ECE INSTRUMENTATION</p> <p>Pressure</p> <p>Cycle Number: 1 ▲ ▼</p> <p>Charge to Pressure: 30 PSI ▲ ▼</p> <p>Vacuum Pressure: 200 mTorr ▲ ▼</p> <p>Accept Cancel</p>	<p>WASSON-ECE INSTRUMENTATION</p> <p>Leak Test</p> <p>Leak Test Status</p> <p>Pressure: 12.23 PSIG</p> <p>Pressure Change: 0.23 PSIG</p> <p>Time: 10:00 min</p> <p>Cancel</p>

Embedded Touch-Screen Controller

An on-board touch screen controller makes system operation as easy as pressing start. The controller allows the user to save up to ten different methods. The user can define each method including: number of cycles, pressure, and soak times. Once the method has been defined, it is saved and is accessible for later use.

Touch Screen Controller

- User friendly touch screen interface
- Automated leak test
- User defined methods
- Save up to 10 methods
- Electronic valve control
- Choose canister end pressure state:
 - Vacuum for sampling
 - Pressurized for storage

Optional Items:

- System cart
- Restek TO-Cans or Silco-Cans
- Custom inserts to accommodate 400cc/1000cc mini-cans, 1L canisters, or 3L canisters
- Upgrade to nXDS10i scroll pump for faster pump down times
- Pump Silencer

Requires:

- One dedicated 120VAC, 50/60 Hz, or 220-240 V, 50-/60Hz, 9.6A
- One 100-127VAC, 50/60 Hz 10A or 220-240VAC, 50/60 Hz, 9.6A
- High purity nitrogen or zero air (5-35 psig) with regulator
- Air for valve actuation (55-60 psig) with regulator
- HPLC water for humidifier
- Sample vent and pump vent

Includes an Orbital Welded Manifold for a High Purity, Leak Free System



Orbital Welded Manifold with Flexible Tubing

