

Chemistry Lab Cookbook

ICP Startup/Shutdown v 210.0

Instrument:

Jobin Yvon Ultra-Ace 2000
 ODP #: 05669
 Model #: TX-TF722

Website:

<http://www.jyemission.com/>

Software:

Jobin Yvon Proprietary, V 5.10

Documentation Available:

Document Name/Title/Number	Source	Type	Associated Instrument(s)	Associated Measurement(s)
ICP Installation/Setup Binder	Jobin Yvon	hardware	ICP	elemental analysis
ICP Instrument Manuals Binder (Final Control Report; User Manual; Image Navigator User Manual; Sampler AS421 User's Manual; Schematics)	Jobin Yvon	hardware, software	ICP	elemental analysis
ICP Reprints Binder	scientific journals	data	ICP	elemental analysis
ICP Software V5.1 Binder (User Manual)	Jobin Yvon	software	ICP	elemental analysis
ICP Standards Cert./MSDS Binder	misc.	data	ICP	elemental analysis
ICP Technotes, Software Notes, Concepts, Spreadsheets, Etc. Binder	in-house	hardware, software, data, reprints	ICP	elemental analysis
JY Service Manual	Jobin Yvon	hardware	ICP	elemental analysis

Start-up Procedure

1. Empty drain bottle if needed.
2. Check peristaltic pump tubing is not flattened. Replace if necessary.
3. Turn on recirculating water.
4. Exhaust fan on.
5. Turn on Argon at tank / regulator.
6. Peristaltic pump on and pumping DI water.

Plasma Flow: 12-14 L/min.

Pump Speed: 20.

Neb Pressure: Approx. 3 bar.

Ar Humidifier: ON for Basalts and Fusions. OFF for Interstitial Waters.

7. Pump DI at least 5 minutes prior to Ignition. Check IN and OUT flow.
8. Initiate start-up procedure through the Windows software.
9. Re-check plasma.
10. Let warm-up for at least 1/2 hour...

Shut-down Procedure

1. Put in rinse solution for at least 5 minutes.
2. Put in DI for at least 3 minutes.
3. Initiate “stop” procedure through the Windows software.
4. Maintain gas flow and pump DI for 3 minutes.
5. Remove input tubing from DI and pump until nebulizer and spray chamber are dry.
6. Peristaltic pump off, release clamp, and unhook pump tubing.
7. Turn off recirculating water.

Document Information:

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Revision History:

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Signature (Department Supervisor)