



Thermo Scientific iCE 3300 AAS

High performance, versatile, double beam Atomic Absorption Spectrometer

Benefits

- Double beam optics for exceptional optical stability
- Quadline background correction with guaranteed performance
- Universal titanium burner for high solids capability

Keywords

Background correction, Ease of use, Elemental analysis, Flame AAS, Hydride generation, Single element analysis

The Thermo Scientific™ iCE™ 3300 AAS provides a complete elemental analysis solution incorporating simplicity and an innovative design to achieve superior performance. The iCE 3300 AAS makes even the most complicated analyses simple. The high precision, double beam optics provide unrivalled performance, unparalleled detection limits and exceptional optical stability.

The innovative hardware design minimizes the footprint of the instrument and ensures that day-to-day analysis and maintenance is simple and minimal. Safety comes as standard with integrated hardware safety features and automatic MFC gas controls.

The universal titanium burner ensure the capability to analyze samples with high solids increasing the efficiency and accuracy of your flame analysis. The simple installation and operation of the pre-aligned furnace and auto-sampler module ensure accurate and reproducible analyze of low concentrations. The unique Quadline background correction provides guaranteed performance.

The comprehensive user-friendly software Wizard-driven Thermo Scientific SOLAAR™ software guides you through every aspect of an analysis ensures that running samples and developing methods is easy. The Thermo Scientific SOLAAR Security software and validation packages provide tools to aid with 21 CFR part 11, GLP and GALP compliance.

The iCE 3300 AAS offers unrivalled flame sensitivity which is achieved by high efficiency nebulization through a fully inert impact bead, spoiler and spray chamber. The new finned universal titanium burner ensures exceptional atomization, even with the most difficult samples. The fully automatic gas box uses a mass flow controller for safe, reliable and repeatable analysis with all flame types.

All critical parameters can be optimized automatically if required – burner height, gas flows, even optical instrument parameters.

The iCE 3300 AAS accepts the GFS33 integrated graphite furnace and auto-sampler module which offers the best in detection limits with minimum interferences. Dynamic optical temperature feedback ensures accurate heating rates up to 3000 °C per second regardless of cuvette age. Add to that the optional unique furnace vision system then you have the ultimate in effective and easy furnace method development.

The GFS33 offers unrivalled graphite furnace automation. Huge capacity and infinite solution preparation facilities cater for all needs. With automated ash/atomize temperature optimisation, auto-sampler loading guides and the unique guaranteed background correction system, furnace analysis has never been easier. The auto-sampler remains permanently in alignment with the furnace completely eliminating the need to re-align the probe every time the furnace is fitted.

The Extended Lifetime Cuvettes (ELC) provide up to 10 x more lifetime than alternatives. Couple this with features such as pre-heated cuvette injection, cooling water temperature compensation and fast furnace operation – making it the safest choice.

The Thermo Scientific iCE SOLAAR software is both intuitive and helpful. Extensive wizards are able to guide the user through various operational procedures making start-up a simple and quick process.

Additional information on the operational conditions for any elemental analysis is available in the help text and cookbook.

A full range of accessories are available to permit flame auto-sampling, intelligent dilution, vapor analysis, validation, automated graphite furnace and much, much more.

Table 1.

Thermo Scientific iCE 3300 AAS	
Optics	Double Beam
Monochromator	0.27 m Ebert type
Lamp Carousel	6 Lamp Coded, Auto-aligning
Photomultiplier	Choice of standard or wide range types
Flame Atomizer	Universal system (uses 50 mm Ti burner)
Furnace Atomizer Option	GFS33 combined module
Furnace Vision System	Optional
Background Correction	Guaranteed Quadline deuterium system
Gas Management	Automatic Mass Flow Controller (MFC)
PC Software	Included as standard
Validation Package	Optional

Find out more at thermofisher.com/AAS

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