

**Thermo Scientific
Arena 20, 20XT, 30 and 60
Analyzers**



**Automation and efficiency
for photometric analysis**

Maximizing efficiency and improving productivity in analytical testing

The Thermo Scientific Arena analyzers are easy to use automated systems for product analysis and quality control in all sizes of industrial laboratories. These proven systems offer flexibility, speed, accuracy and precision on colorimetric and enzymatic measurements.

Fast, automated analysis

Fully automated Thermo Scientific Arena analyzer models, Arena 20, 20XT, 30 and 60, offer continuous and reliable operation for a wide variety of applications. Automatic operation and quick daily start-up protocol with little or no sample preparation need facilitate and speed up the work done in laboratories. Results are coming within few minutes saving working hours remarkably.

All four analyzers have the same graphical user interface which is self-guiding and clearly laid out. Several user configurable result reports are available and results can also be exported to a spreadsheet on external PC for further calculations or sent online to the laboratory computer system.

Easy daily use

Arena allows users to choose random access or batch analysis. Multiple analyses from a single sample make testing simple and effective. Automated dilutions make it possible to apply methods for wide range of analyte concentrations. Users can add new samples, reagents and cuvettes to Arena at any time without interrupting the analysis in progress. The on-board bar code reader enables automatic sample identification from bar-coded tubes. The reagent disk, having positions either for 35 or 45 reagents, is cooled keeping the reagent environment stable. Once loaded, the analyzer will run without the assistance of the analyst even up to 4 hours.

Ready to use reagents

Thermo Scientific Arena system reagents are liquid stable and ready to use. They have been developed to complement the Arena analyzers. Time consuming reagent preparation is eliminated and used reagent volumes are even 15 times smaller compared to manual methods. Each vial is bar coded and all the necessary data, like reagent identification, reagent volume, lot and expiry date, is automatically read when the vial is introduced to the system. Furthermore, continuous monitoring gives real-time information of reagents. Supporting calibrators are also available for each system reagent kit.



Current menu of Arena system reagents:

- Ethanol • Glycerol
- D-Fructose • D-Glucose
- D-Glucose + D-Fructose
- Sucrose (Total Glucose)
- D-Lactic acid • L-Lactic acid
- L-Malic acid
- more in development



Open application concept

The application menu covers wide selection of ready-made, highly specific system solutions. Many optimized applications are made e.g. to follow fermentation processes and to measure enzyme activities. The open concept of the Arena system is especially suitable for the new method development. It allows customers to set-up their own applications for up to 200 different tests and their variations. Manual methods are easily converted to automatic ones with user-friendly menus. The range of applications as well as the selection of system reagents is developed continuously.

Cost-effective, flexible testing

All Arena analyzers have been designed for the 12-position cuvette platform. The special cuvette design enables small reagent volumes saving in the consumption of reagents and making the system economical to use. The Arena system has a flexible software which allows, e.g. the use of different analyzing temperatures up to 50 °C. The wavelength range covers filter configurations from 340 nm to 880 nm. The method set-up gives possibility up to 4 reagent dispensings per test and various blanking possibilities can be used to eliminate e.g. the sample matrix effects.

Superior support

The Arena analyzer requires minimal maintenance, daily and weekly, thus maximizing the analyzer uptime. With no need for external water connections and drainage as well as small footprint make installation easy. All Arenas are delivered with application and technical support. This includes product training, after-sales support and assistance and advice in adapting tests and methods. The service network extends throughout the world giving reliable technical back-up whenever needed.

Thermo Scientific Arena system solutions

- Easy to use analyzers
- Ready to use reagents
- Wide variety of applications
- Method support
- Worldwide quality service



Arena applications cover methods for food & beverage, biochemical and pharmaceutical tests, like for:

- Wine • Beer • Juice • Milk
- Honey • Potatoes • Special food
- Fertilizers • Biofuels
- Enzymes • Detergents
- User-definable applications





Arena 20

- Capacity of up to 200 tests/hour
- Up to 84 samples on-board
- 35 cooled reagent positions
- 600 cuvette storage positions
- Needle mixing
- Separate workstation



Arena 20XT

- Capacity of up to 250 tests/hour
- Up to 84 samples on-board
- 35 cooled reagent positions
- 600 cuvette storage positions
- Separate mixing paddle
- Separate workstation



Arena 30

- Capacity of up to 300 tests/hour
- Up to 84 samples on-board
- 39 fixed, cooled calibrator and control positions
- 45 refrigerated reagent positions
- 600 cuvette storage positions
- Separate mixing paddle
- Interface to a sample track system
- Integrated workstation with touch screen



Arena 60

- Capacity of up to 600 tests/hour
- Up to 84 samples on-board
- 39 fixed, cooled calibrator and control positions
- 45 refrigerated reagent positions
- 2100 cuvette storage positions
- 2 separate mixing paddles
- Interface to a sample track system
- Integrated workstation with touch screen