![Malvern Panalytical logo]

Claisse® is a Malvern Panalytical brand

LEDOSER-12™
TIRELESS AND TIMELY REPEATABILITY

A STRONG LINK IN THE ANALYTICAL CHAIN

LeDoser-12™ is a 12-position dispensing balance that makes a huge difference in the preparation of samples for XRF analysis. In fact, this instrument saves tremendous labor time and costs since it weighs samples and dispenses borate flux automatically while leading to highly repeatable results. Employees can then perform more valuable tasks in the laboratory as well as avoid the risk of variable results from one technician to another.

LeDoser-12 is a robust instrument that does not get tired or distracted; it can work in harsh work conditions and always provides the same repeatability.

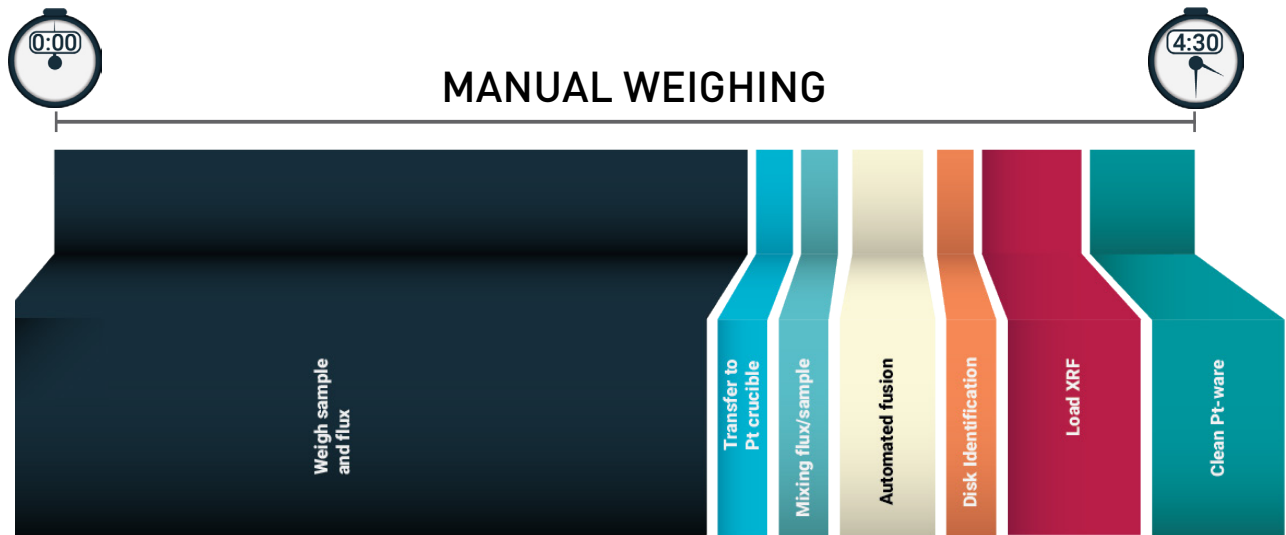**It saves up to 90% of labour time related to the weighing step.**

With Claisse® LeDoser-12, there is no need to precisely weigh the sample, since the correct amount of borate flux is dispensed and weighed automatically.
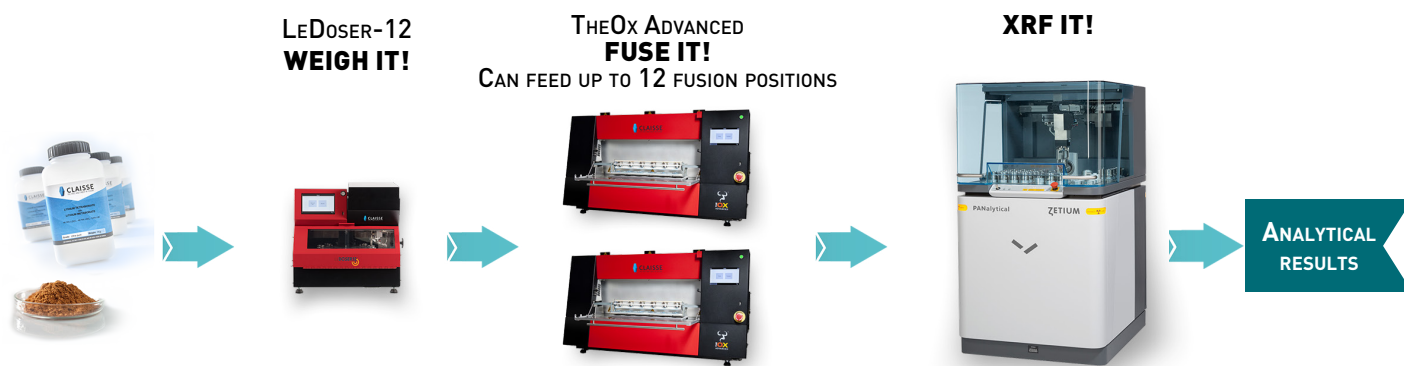
Here is an overview of the time that can be saved by using this automated weighing instrument:

DISTRIBUTION OF LABOUR TIME
IN THE SAMPLE PREPARATION BY FUSION PROCESS

0:00 **MANUAL WEIGHING** **4:30**

Weigh sample and flux | Transfer to Pt crucible | Mixing flux/sample | Automated fusion | Disk Identification | Load XRF | Clean Pt-ware

0:00 LeDOSER·12 **2:00**

Weigh sample and flux | Transfer to Pt crucible | Mixing flux/sample | Automated fusion | Disk Identification | Load XRF | Clean Pt-ware

SAMPLES ARE READY JUST IN TIME

By eliminating the pre-weighing step and ensuring constant sample throughput, LeDoser-12 instrument optimizes the synchronization of the sample preparation process and enables you to get your samples ready just in time for the subsequent fusion and analysis steps.

LeDoser-12
WEIGH IT!

TheOx Advanced
FUSE IT!
Can feed up to 12 fusion positions
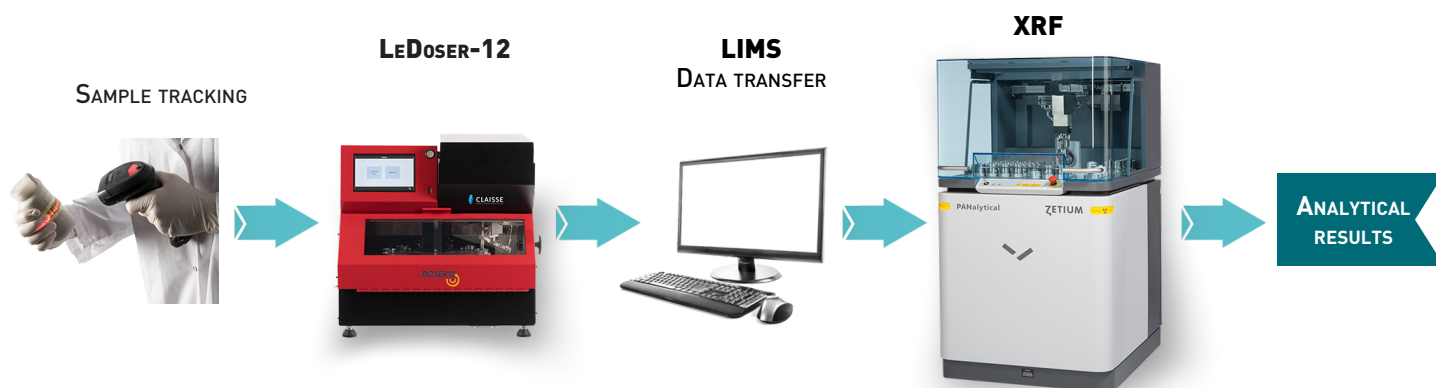
XRF IT!

ANALYTICAL RESULTS

LEDOSER-12: AN OVERVIEW

- Three different weighing modes: sample-to-flux ratio, catch weight and absolute weight
- No need to precisely weigh the sample (can be scooped or roughly weighed)
- No need to weigh all quantities of sample and flux in advance
- Multilingual interface

- Two-piece carousel for easy crucible handling
- Prioritization of samples
- No manual data transfer since it is LIMS ready (avoiding errors in data input and saving time)
- The barcode reader option guarantees traceability and avoids the risk of losing track of the sample.

LeDoser-12 is made of durable parts and contains a robust industrial-grade balance. Its design prevents flux infiltration in the mechanism and ensures low maintenance.

CONNECTIVITY

SAMPLE TRACKING → LEDOSER-12 → LIMS DATA TRANSFER → XRF → ANALYTICAL RESULTS

TECHNICAL SPECIFICATIONS

Productivity
- Weighs and dispenses flux for XRF, AA and ICP analysis
- 12 positions
- Manages sample weights
- Runs autonomously for up to 250 weighings
- Maximized weighing speed depends on the requested tolerance, flux quantity and type

Weighing Modes
- Samples can be weighed directly on the instrument. They can also be scooped or roughly weighed on a separate balance. In all cases, LeDoser-12 will measure the exact quantity of sample added.
- Sample-to- flux ratio
- Catch weight
- Absolute weight

Electrical
- Voltage: 100-240 VAC
- Current: 1 A
- Frequency: 50/60 Hz
- Power: 100 VA
- Phase: 1 phase

Dimensions
- Small and compact
- Height: 51 cm (20 in.)
- Depth: 51 cm (20 in.)
- Width: 45.5 cm (18 in.)

Weight (with balance)
- 19 kg (42 lb.)

Control and Operation
- One-touch operation
- Intuitive touch screen user interface
- Multilingual interface
- Detailed weighing parameters and results display
- Automated sliding doors
- Can be used as as balance
- Crucible detector
- Low volume detector located in the flux tank
- Segmented carousel (two x 6-position) that facilitates the handling of crucibles
- Prioritization of samples
- Tank stirrer option
- Industrial grade balance

Programmable Weighing Parameters
- Sample-to-flux ratio
- Number of dosing steps
- Target weight and tolerance for each dosing step
- Adaptable calculation method for the tolerance for each dosing step
- Weighing method adjustable for each weighing position

Software and Communication
- 2 USB ports
- High capacity weighing program storage (4 G Compact Flash)
- Smart flux flow software control
- Management tool for different flux composition
- Balance validation function available from the interface
- Connectivity option (can be linked to a LIMS system)
- Optional barcode reader directly connected to the instrument
- Sample tracking option

Safety
- User operation levels are protected by a password
- Certified CE and CSA
- Conformal coated PCB for high corrosion resistance
- Meets UL 94 flammability standard
- Meets RoHS requirements

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WHY CHOOSE **MALVERN PANALYTICAL**?

We are global leaders in materials characterization, creating superior, customer-focused solutions and services which supply tangible economic impact through chemical, physical and structural analysis.

Our aim is to help you develop better quality products and get them to market faster. Our solutions support excellence in research, and help maximize productivity and process efficiency.

Malvern Panalytical is part of Spectris, the productivity-enhancing instruments and controls company.
www.spectris.com

SERVICE & **SUPPORT**

Malvern Panalytical provides the global training, service and support you need to continuously drive your analytical processes at the highest level. We help you increase the return on your investment with us, and ensure that as your laboratory and analytical needs grow, we are there to support you.

Our worldwide team of specialists adds value to your business processes by ensuring applications expertise, rapid response and maximum instrument uptime.

· Local and remote support
· Full and flexible range of support agreements
· Compliance and validation support
· Onsite or classroom-based training courses
· e-Learning training courses and web seminars
· Sample and application consultancy

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