

Multiple Sample Thermogravimetric Analyzers With Additional External Balance For Increased Throughput and With Operational Software In Windows



Navas Instruments
TGA - 3000 Series
For: Coal, Coke,
Cement, Food, Iron
Ore, Bauxite And Other
Ores, etc ...

Determination of:
Moisture, Volatile Matter,
Ash Fixed-Carbon, and LOI
(Loss On Ignition)

The Navas Instruments TGA-3000 will provide fast and consistent results with an easy to use Windows operational software

Auto-recovery from mains power failure.

Single furnace or dual furnace controlled by one single PC

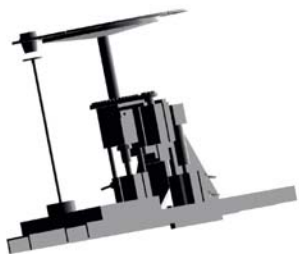
Controlled with desktop PC or laptop through standard USB connection



Benefits

- **Productivity:** The external balance allows to obtain the initial weights of crucibles and samples (And optionally crucible-covers) during analysis time
- **More throughput than competitors TGAs:** No need to cool down to room temperature but to 70-200 degrees centigrade since the samples are weighed outside the furnace the samples do not lose weight during the weighing, in competitors TGAs the initial weights of crucibles and samples are obtained inside the furnace, this makes necessary to cool down to room temperature with a waste of time, In Navas TGA-3000 the first run can also get the initial weights of crucibles and samples inside the furnace if the furnace is at room temperature
- **Ease of use:** Easy to use software in Windows and easy to use diagnostics screen

Productivity, Throughput And Ease Of Use

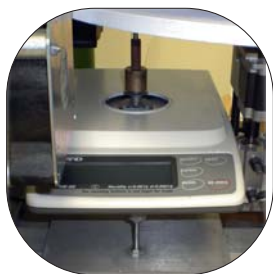


1

The TGA - 3000 Analyzes multiple samples simultaneously using a carousel with orifices that hold the crucibles with samples inside
The carousel moves up/down and rotates to deposit the crucibles on the balance pedestal
The balance is below the furnace and the pedestal goes through a small orifice in the furnace

2

This translates to productivity and throughput
Several models available: (11, 15, 19 and 23 samples)



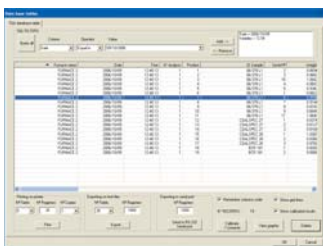
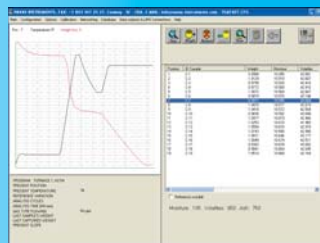
3

All being measured with 4 place precision balance with digital display for calibration and diagnostics
External balance for increased productivity
External balance allows obtaining initial weights of crucibles and samples during analysis time
Balances with LCD display for easy service

4

Windows based software for flexibility and functionality

Configurable parameters for all slopes:
Temperatures, ramp rates, gases, etc ...



5

Powerful Open Database Connectivity (ODBC) with filtering, sorting, configurable data exports to LIMS (Laboratory Information Management Systems) and to Microsoft Excel in TXT, CSV and XLS files or to serial port

6

All the electric and pneumatic parts in the TGA can be acquired in the market
With no dependency on Navas Instruments, However for our customers convenience we do maintain a complete parts and service department
All sensors are magnetic not affected by dust
Other TGA manufacturers use special electronics and parts that can only be purchased from the manufacturer at very high prices