Multiple Sample (19) Thermogravimetric
Analyzers With Automatic Crucible - Cover
Placement And Removal For Volatile Matter
Dual Carousel For Covers / Crucibles (Patented)



Navas Instruments
TGA - 2000 Series
For Coal And Coke





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

The dual carousel configuration allows automatic placement and removal of crucible-covers inside the furnace.

This prevents sample oxidizing and provides better volatile matter accuracy in addition to automation, (It works unattended).

No danger to operator opening furnace at 600 °C.

No danger of falling covers inside furnace.

Auto-recovery from mains power failure.

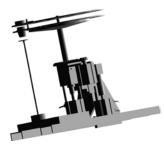
Single furnace or dual furnace controlled by one single PC Controlled with desktop PC or laptop through standard USB connection

Benefits

- Productivity: Works unattended, covers are placed/removed automatically overnight
- Repeatability: NO operator dependent volatile results, In competitors TGAs lid opens to place and remove the covers by hand, in Navas automatic crucible-covers, the covers are placed and removed automatically by joining and separating the upper carousel, the furnace is hot and the time to place/remove the covers is operator independent, NO sample oxidizing
- Safety: Reduces the chance of burns since the furnace is not opened to place or remove the crucible-covers
- Ease of use: No danger of falling covers inside furnace, easy to use software in Windows and easy to use diagnostics screen

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Productivity, Repeatability And Safety





Innovation that is the dual carousel TGA (Patented)
Lower carousel holds crucibles
Upper carousel holds covers, upper carousel lowers to place
crucible-covers, both carousels move up/down to weight crucibles
on furnace balance



This translates to productivity, repeatability and safety







All being measured with 4 place precision balance with digital display for calibration and diagnostics

Optional external balance for increased productivity
External balance allows obtaining initial weights of crucibles and samples during analysis time
Balance with LCD display for easy service



Windows based software for flexibility and functionality

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







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



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