

Audit Data Table

Digital Operational Log & Trend Analyzer



FHinfinity Xtra

Audit Data Table® is a specialized operational module within FHinfinity's *FH-Xtra* workspace, designed to empower operators and engineers with a structured, digital platform for logging routine field data. Unlike manual paper logs or scattered spreadsheets, this tool creates a centralized, searchable database of heater performance metrics—enabling long-term trend analysis, anomaly detection, and data-driven decision-making for optimal furnace operation.

The screenshot displays the 'Audit Data: Existing Data File' window with a table of audit records. Below it is the 'Audit Data: Data Grid' window, which shows a search filter for Heater Tag 'H-151' and Date of Audit '7/2/2017'. The detailed view shows parameters for the selected audit, including Process, Fuel, and Flue Gas categories.

No.	Parameter	Value	Unit	Comment
1	Process			
2	Flowrate	66	ACMH	
3	Inlet Temperature	320	C	
4	Outlet Temperature	360	C	
5	Fuel			
6	Type	Gas		
7	Flowrate	650	NCMH	
8	Heating Value	19707.8	Btu/lb	Lab result.
9	Specific Gravity			
10	Gas Header Pressure	0.25	bar	
11	Gas Control Valve Position	57	%	
...	Flue Gas			

Key Technical Features

Structured Data Entry:

- Pre-defined categories for critical operational parameters
- Customizable fields allow users to add site-specific tags or comments
- Automatic timestamping and heater tag association

Historical Database Management:

- Stores all records in a unified system, allowing easy retrieval by date or heater tag.
- Supports multiple heaters and units simultaneously, enabling comparative analysis.
- Built-in functions to Save, or Delete individual entries for flexible data management.

Instant Visualization & Correlation:

- Generate real-time time-series trends for any parameter to identify drift, seasonal patterns, or sudden anomalies.
- Plot one variable against another (e.g., Outlet Temperature vs. Feed Flowrate) to uncover hidden correlations and diagnose performance shifts.
- Interactive charts update dynamically as new data is entered, providing immediate feedback on operational changes.

Seamless Export & Reporting:

- One-click export to Microsoft Excel generates clean, formatted spreadsheets ready for internal reviews, regulatory submissions, or integration with enterprise systems.
- Reports can be customized to include specific date ranges, parameters, or comments for targeted analysis.