

# Dataset Analysis Report

## Test Equipment Dataset

*Test dataset for equipment API validation*

<b>File Name</b>	test_equipment_db.csv
<b>File Type</b>	CSV
<b>Upload Date</b>	2026-01-26 13:37:59
<b>Total Rows</b>	10
<b>Total Columns</b>	7
<b>File Size</b>	537 bytes
<b>Processing Status</b>	Processed

## Dataset Overview

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### Columns:

#	Column Name	Data Type
1	equipment_id	object
2	equipment_type	object
3	flowrate	float64
4	pressure	float64
5	temperature	float64
6	location	object
7	status	object

## Operational Metrics

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Metric	Value
Total Records	10
Average Flowrate	127.74
Average Pressure	44.80
Average Temperature	83.25
Missing Values	0

### Detailed Operational Analysis:

#### Flowrate:

- Average: 127.74
- Median: 157.75
- Std Deviation: 81.60
- Min: 0.00
- Max: 220.80
- Count: 10
- Missing Count: 0

#### Pressure:

- Average: 44.80
- Median: 46.60
- Std Deviation: 14.41
- Min: 25.00
- Max: 65.20
- Count: 10
- Missing Count: 0

#### Temperature:

- Average: 83.25
- Median: 82.65
- Std Deviation: 7.45

- Min: 72.00
- Max: 95.50
- Count: 10
- Missing Count: 0

## Equipment Analysis

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Equipment Type	Count	Percentage
Pump	3	30.0%
Compressor	3	30.0%
Valve	2	20.0%
Heat Exchanger	2	20.0%

## Data Quality Assessment

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Quality Metric	Value
Total Rows	10
Complete Rows	10
Missing Data %	0.00%
Columns with Missing Data	0

## Report Information

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Report generated on: 2026-01-26 13:51:22

Dataset ID: 4

Analysis performed using Django Dataset Analysis API

This report reflects the computed summaries and statistics for the uploaded dataset.