

Chemical Equipment Analysis Report

Dataset Name: sample_equipment_data.csv

Date Generated: 2026-01-27 20:03

Executive Summary

Metric	Value	Metric	Value
Total Equipment	15	Avg Flowrate	119.80
Avg Pressure	6.11	Avg Temperature	117.47
Max Pressure	8.40	Max Temperature	140.00

Detailed Statistical Analysis

Parameter	Mean	Median	Std Dev	Min	Max
Flowrate	119.80	130.00	36.72	58.00	165.00
Pressure	6.11	6.20	1.39	4.00	8.40
Temperature	117.47	118.00	14.44	95.00	140.00

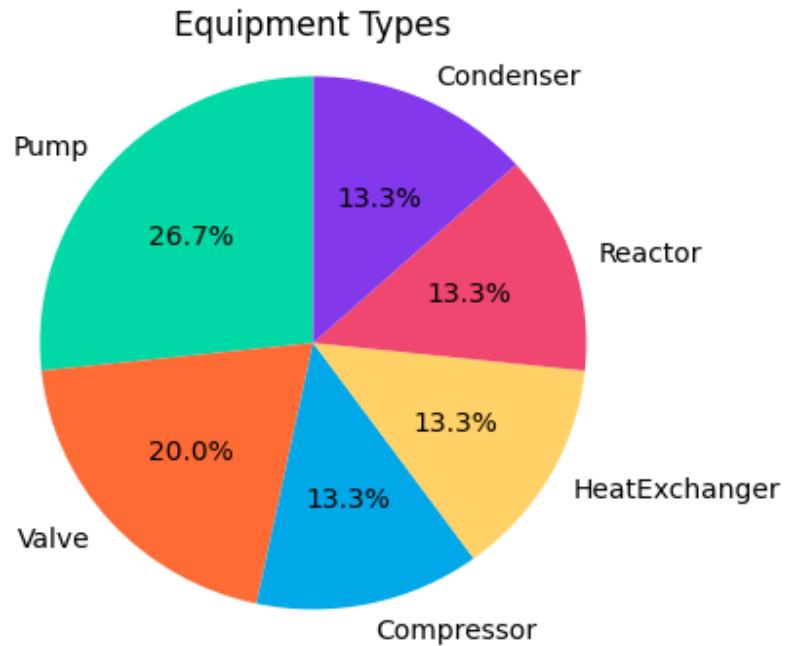
Detailed Equipment List

Name	Type	Flowrate	Pressure	Temp
Pump-1	Pump	120.00	5.20	110.00
Compressor-1	Compressor	95.00	8.40	95.00
Valve-1	Valve	60.00	4.10	105.00
HeatExchanger-1	HeatExchanger	150.00	6.20	130.00
Pump-2	Pump	132.00	5.60	118.00
Valve-2	Valve	58.00	4.00	102.00
Reactor-1	Reactor	140.00	7.50	140.00
Pump-3	Pump	125.00	5.30	115.00
Condenser-1	Condenser	160.00	6.80	125.00
Compressor-2	Compressor	100.00	8.00	98.00
HeatExchanger-2	HeatExchanger	155.00	6.30	132.00
Valve-3	Valve	62.00	4.20	107.00
Pump-4	Pump	130.00	5.90	119.00
Reactor-2	Reactor	145.00	7.20	138.00

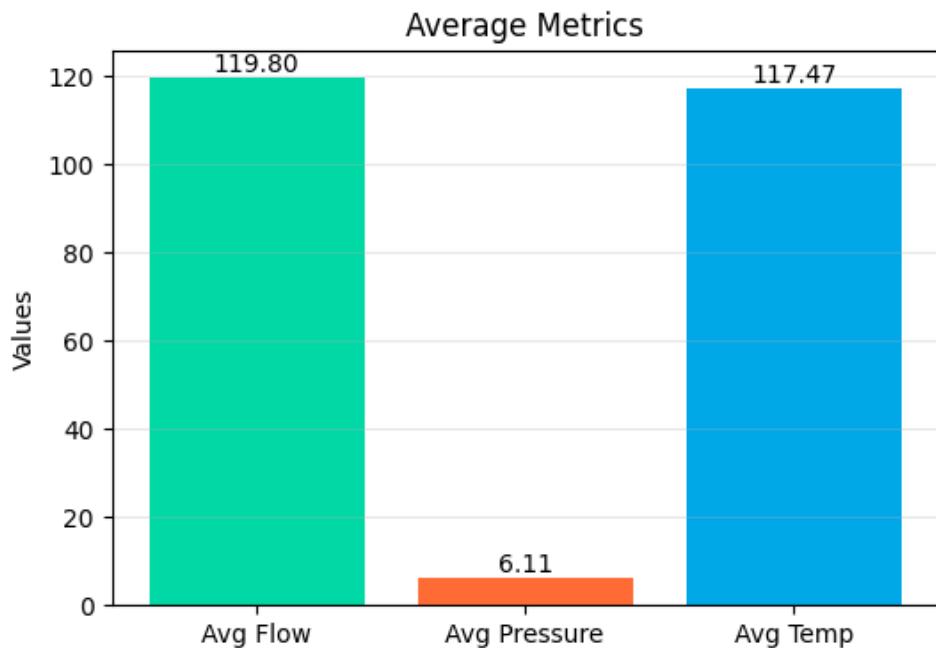
Name	Type	Flowrate	Pressure	Temp
Condenser-2	Condenser	165.00	6.90	128.00

Visualizations

Equipment Type Distribution



Average Performance Metrics



Parameter Correlation Matrix

