

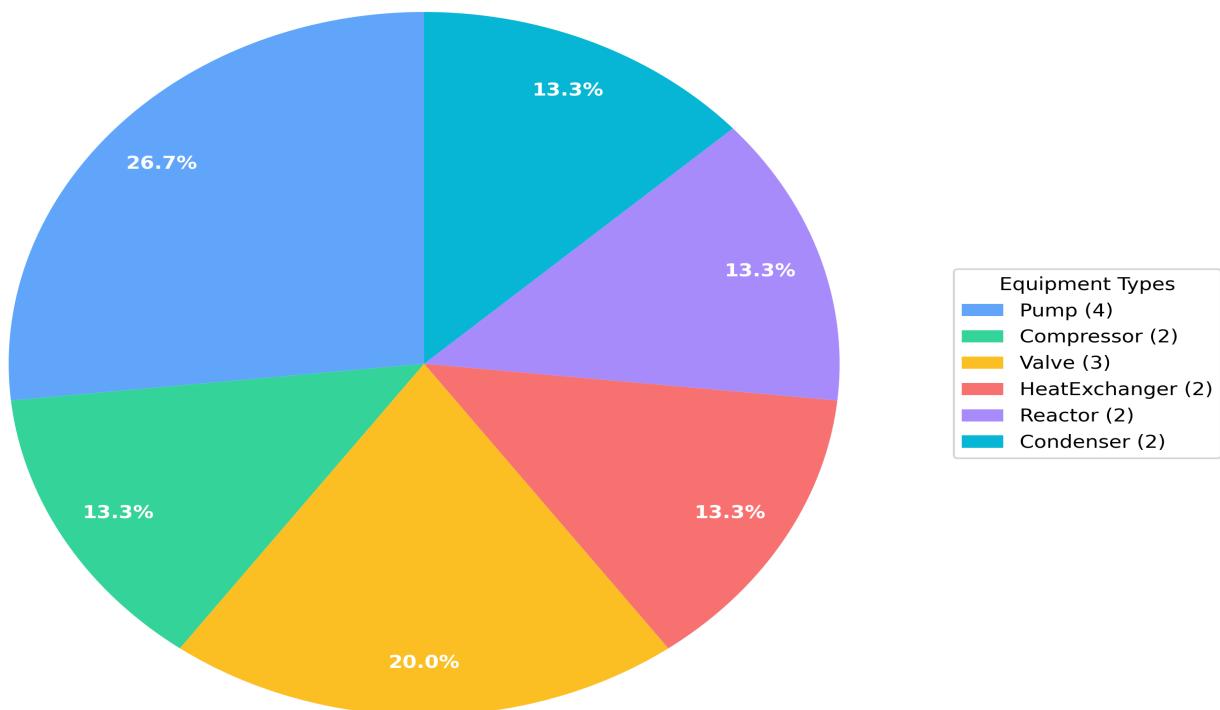
Equipment Analysis Report: sample_equipment_data.csv

Executive Summary

Metric	Value
Total Equipment	15
Average Flowrate	119.80 L/min
Average Pressure	6.11 bar
Average Temperature	117.47 °C
Equipment Types	6

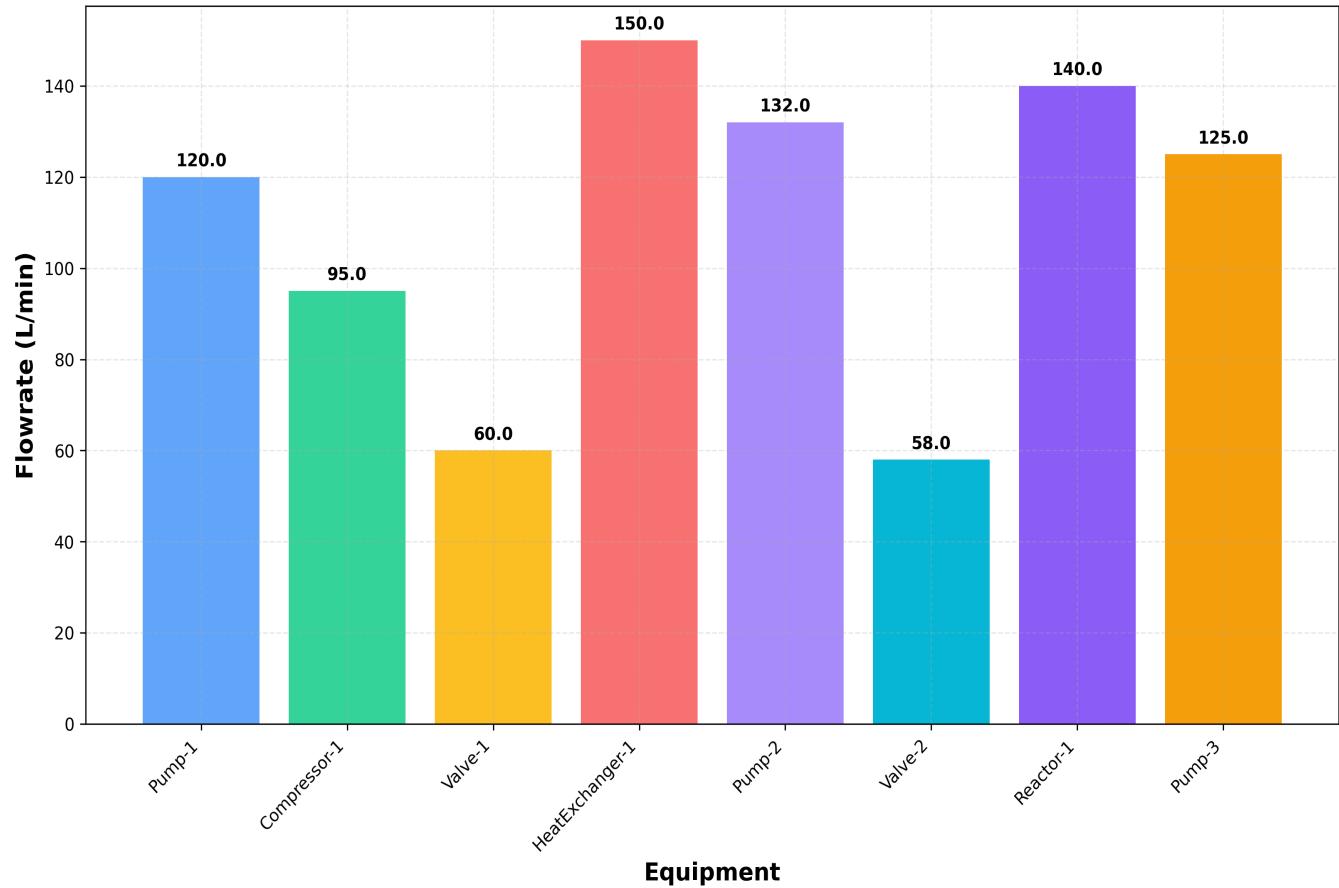
Equipment Type Distribution

Equipment Distribution by Type

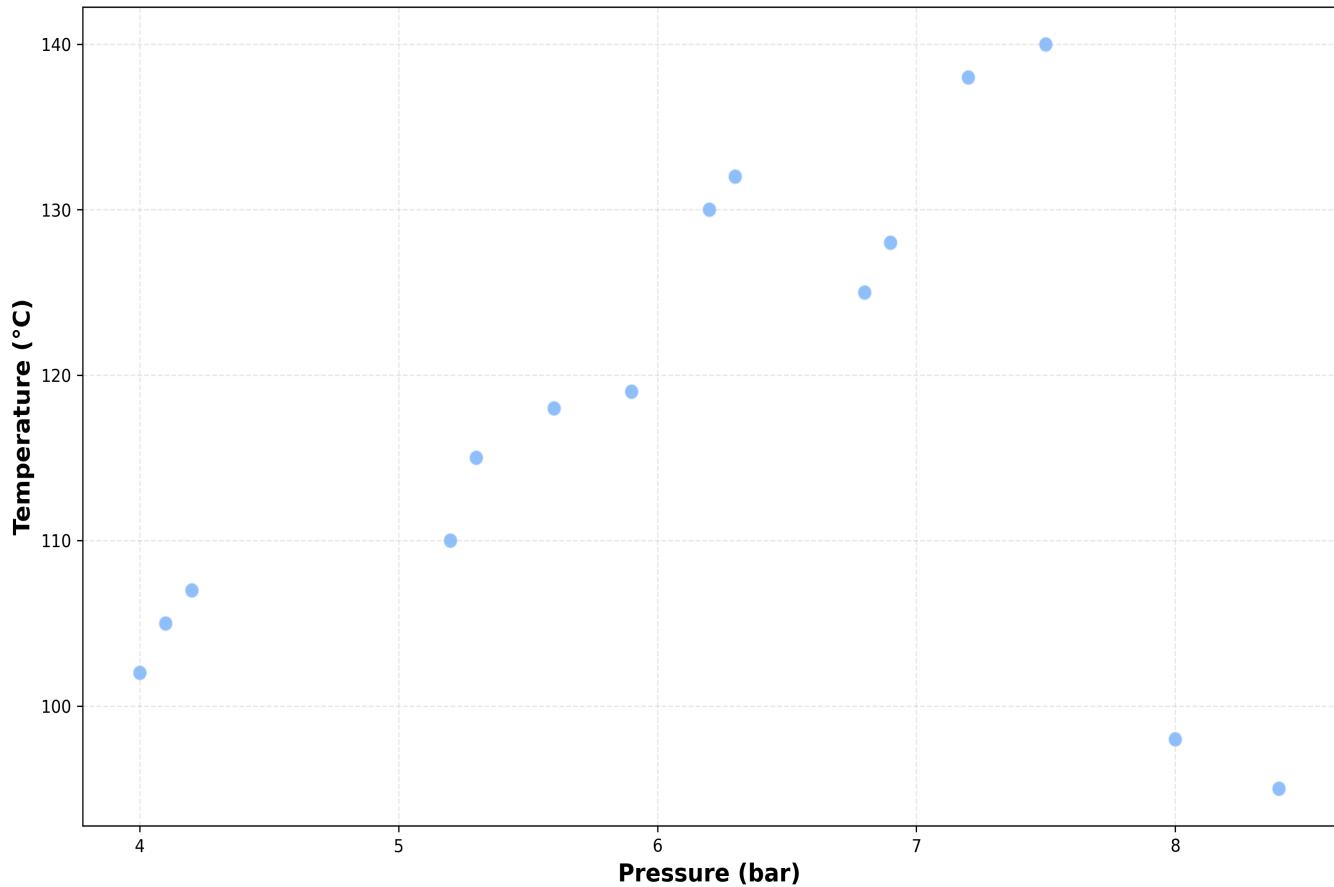


Parameter Analysis

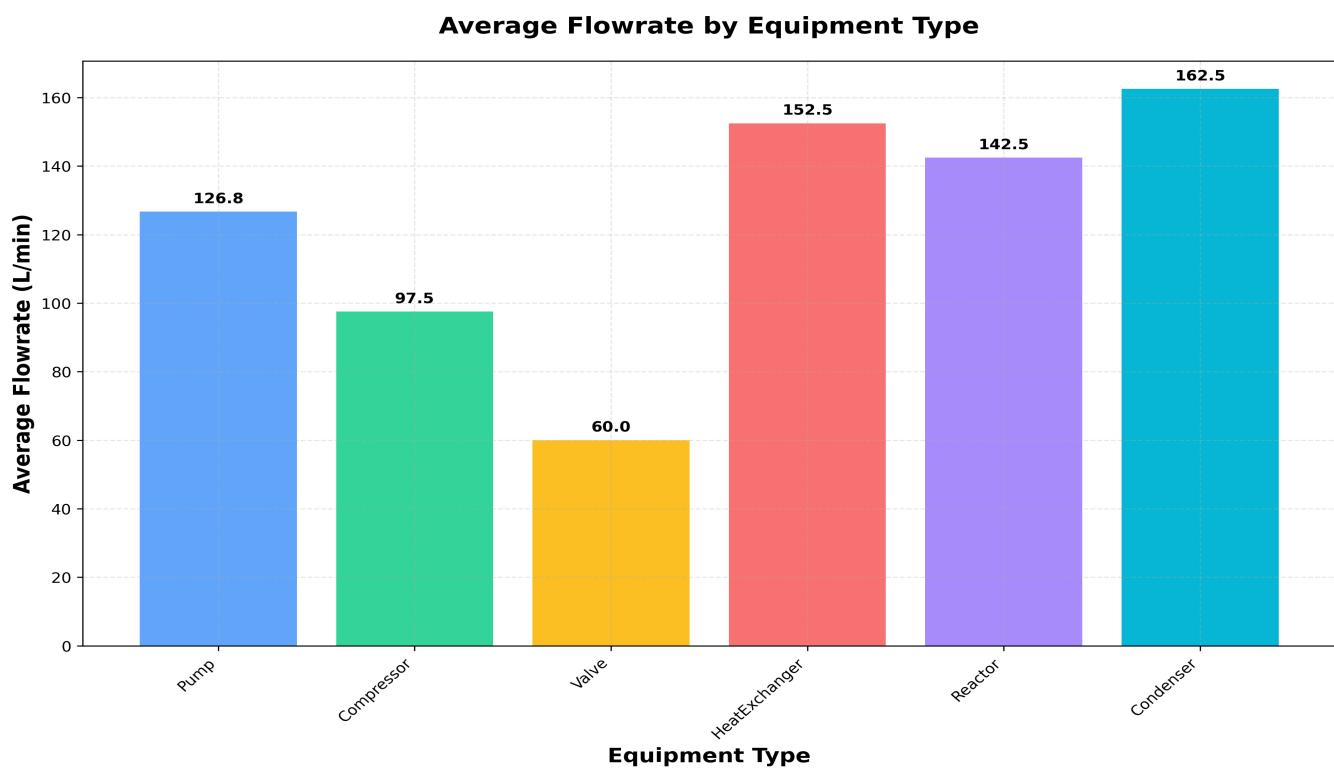
Flowrate by Equipment (Top 8)



Pressure vs Temperature Correlation



Parameter Comparison by Equipment Type



Detailed Equipment Data

Equipment Name	Type	Flowrate	Pressure	Temperature
Pump-1	Pump	120.0	5.2	110.0
Compressor-1	Compressor	95.0	8.4	95.0
Valve-1	Valve	60.0	4.1	105.0
HeatExchanger-1	HeatExchanger	150.0	6.2	130.0
Pump-2	Pump	132.0	5.6	118.0
Valve-2	Valve	58.0	4.0	102.0
Reactor-1	Reactor	140.0	7.5	140.0
Pump-3	Pump	125.0	5.3	115.0
Condenser-1	Condenser	160.0	6.8	125.0
Compressor-2	Compressor	100.0	8.0	98.0
HeatExchanger-2	HeatExchanger	155.0	6.3	132.0
Valve-3	Valve	62.0	4.2	107.0
Pump-4	Pump	130.0	5.9	119.0
Reactor-2	Reactor	145.0	7.2	138.0
Condenser-2	Condenser	165.0	6.9	128.0

Statistical Analysis

Parameter	Mean	Std Dev	Min	Max
Flowrate (L/min)	119.80	35.47	58.00	165.00
Pressure (bar)	6.11	1.34	4.00	8.40
Temperature (°C)	117.47	13.95	95.00	140.00

Recommendations & Insights

- 3 equipment items are operating at high temperatures (>131.4°C). Consider reviewing cooling systems.
- 3 equipment items are operating at high pressures (>7.4 bar). Monitor for safety compliance.
- Pump equipment represents 26.7% of your fleet. Consider standardization benefits.
- Regular maintenance scheduling recommended based on operating parameters.
- Consider implementing real-time monitoring for critical equipment.