

# Chemical Equipment Analysis Report

**Report Generated:** February 01, 2026 at 04:14:09

**Dataset:** sample\_equipment\_data.csv

**Upload Date:** February 01, 2026 at 03:53

**Total Equipment:** 15

## Summary Statistics

Parameter	Average Value	Unit
Flowrate	119.80	units/hr
Pressure	6.11	bar
Temperature	117.47	°C

## Equipment Type Distribution

Equipment Type	Count	Percentage
Compressor	2	13.3%
Condenser	2	13.3%
HeatExchanger	2	13.3%
Pump	4	26.7%
Reactor	2	13.3%
Valve	3	20.0%

## Outlier Detection (Z-score > 2)

■ No outliers detected. All equipment parameters are within normal range.

# Detailed Equipment List

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