

Chemical Equipment Parameter Report

Report generated on: 2025-11-13 21:08:06

Dataset ID: 4

File Name: chemical_data_test8.csv

Total Equipment Count: 8

Average Flowrate: 139.38

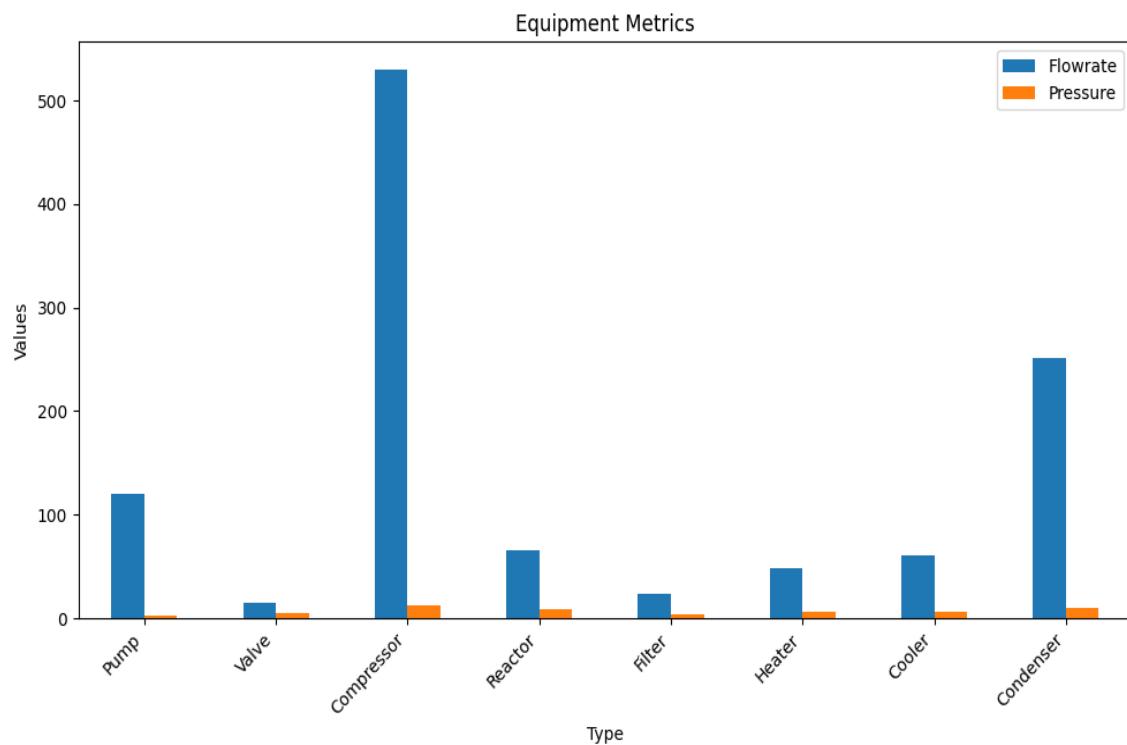
Average Pressure: 6.61

Average Temperature: 89.19

Data Insights

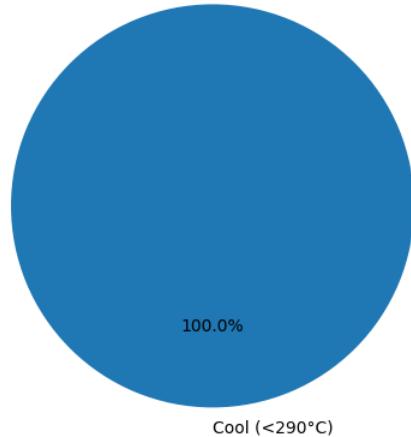
- This dataset contains data for 8 pieces of equipment.
- Flowrate ranges from 15.3 to 530.2. Equipment with highest flowrate: Compressor-Gamma.
- Pressure ranges from 2.1 to 12.3. Equipment with highest pressure: Compressor-Gamma.
- Temperature ranges from 15.7 to 300.4°C. Equipment with highest temperature: Heater-Zeta.

Equipment Metrics



Temperature Distribution

Temperature Distribution



Raw Data

| Equipment Name | Type | Flowrate | Pressure | Temperature | temp_category |
|------------------|------------|----------|----------|-------------|---------------|
| Pump-Alpha | Pump | 120.5 | 2.1 | 45.2 | Cool (<290°C) |
| Valve-Beta | Valve | 15.3 | 4.5 | 32.8 | Cool (<290°C) |
| Compressor-Gamma | Compressor | 530.2 | 12.3 | 80.1 | Cool (<290°C) |
| Reactor-Delta | Reactor | 65.9 | 8.7 | 120.5 | Cool (<290°C) |
| Filter-Epsilon | Filter | 23.7 | 3.4 | 28.6 | Cool (<290°C) |
| Heater-Zeta | Heater | 48.1 | 5.8 | 300.4 | Cool (<290°C) |
| Cooler-Eta | Cooler | 60.4 | 6.1 | 15.7 | Cool (<290°C) |
| Condenser-Theta | Condenser | 250.9 | 10.0 | 90.2 | Cool (<290°C) |