

Chemical Equipment Analysis Report

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Dataset:	sample_equipment_data.csv
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Summary Statistics

Metric	Value
Total Equipment	20
Average Flowrate	140.25
Average Pressure	28.19
Average Temperature	107.20

Equipment Type Distribution

Equipment Type	Count	Percentage
Reactor	3	15.0%
Pump	3	15.0%
Heat Exchanger	3	15.0%
Compressor	2	10.0%
Valve	1	5.0%
Storage Tank	1	5.0%
Separator	1	5.0%
Mixer	1	5.0%

Filter	1	5.0%
Evaporator	1	5.0%
Dryer	1	5.0%
Distillation Column	1	5.0%
Crystallizer	1	5.0%

Equipment Details

Name	Type	Flow	Press	Temp
Reactor-A1	Reactor	150.5	25.3	180.2
Heat Exchanger-HX01	Heat Exchanger	200.0	15.8	120.5
Pump-P101	Pump	85.3	45.0	65.0
Distillation Column-	Distillation Co	120.0	8.5	95.3
Compressor-C201	Compressor	300.0	100.5	150.0
Reactor-A2	Reactor	165.0	28.0	185.5
Heat Exchanger-HX02	Heat Exchanger	180.5	14.2	115.0
Pump-P102	Pump	90.0	42.5	68.5
Storage Tank-T301	Storage Tank	50.0	2.0	25.0
Mixer-M401	Mixer	110.0	5.5	45.0
Reactor-A3	Reactor	155.8	26.5	182.0
Heat Exchanger-HX03	Heat Exchanger	195.0	16.0	118.0
Pump-P103	Pump	88.0	44.0	66.0
Filter-F501	Filter	75.0	12.0	55.0
Separator-S601	Separator	130.0	18.5	78.0
Compressor-C202	Compressor	310.0	105.0	155.0
Valve-V701	Valve	60.0	35.0	50.0
Dryer-D801	Dryer	95.0	3.5	200.0
Crystallizer-CR901	Crystallizer	105.0	6.0	85.0
Evaporator-E1001	Evaporator	140.0	10.0	105.0