

Chemical Equipment Report

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Summary Statistics

Metric	Value
Total Equipment	25
Average Flowrate	234.62
Average Pressure	31.34
Average Temperature	82.66

Equipment Type Distribution

Equipment Type	Count
Reactor	5
Pump	4
Heat Exchanger	3
Compressor	3
Distillation Column	2
Storage Tank	2
Separator	2
Mixer	2
Control Valve	2

Equipment Details

Name	Type	Flowrate	Pressure	Temperature
Compressor-001	Compressor	500.0	80.0	45.0

Compressor-002	Compressor	480.0	75.0	42.0
Compressor-003	Compressor	520.0	85.0	48.0
Distillation-001	Distillation Column	120.0	12.0	85.0
Distillation-002	Distillation Column	135.0	13.5	90.0
HeatExchanger-001	Heat Exchanger	350.0	15.2	120.5
HeatExchanger-002	Heat Exchanger	320.0	14.8	115.0
HeatExchanger-003	Heat Exchanger	380.0	16.0	125.0
Mixer-001	Mixer	180.0	10.0	35.0
Mixer-002	Mixer	200.0	12.0	40.0
Pump-001	Pump	200.0	45.0	25.0
Pump-002	Pump	180.0	42.0	28.0
Pump-003	Pump	220.0	48.0	30.0
Pump-004	Pump	190.0	44.0	26.0
Reactor-001	Reactor	150.5	25.3	180.0
Reactor-002	Reactor	175.0	28.5	195.0
Reactor-003	Reactor	160.0	26.0	185.0
Reactor-004	Reactor	145.0	24.0	175.0
Reactor-005	Reactor	155.0	25.0	182.0
Separator-001	Separator	250.0	20.0	65.0
Separator-002	Separator	275.0	22.0	70.0
Tank-001	Storage Tank	0.0	1.0	25.0
Tank-002	Storage Tank	0.0	1.2	28.0
Valve-001	Control Valve	300.0	50.0	55.0
Valve-002	Control Valve	280.0	48.0	52.0