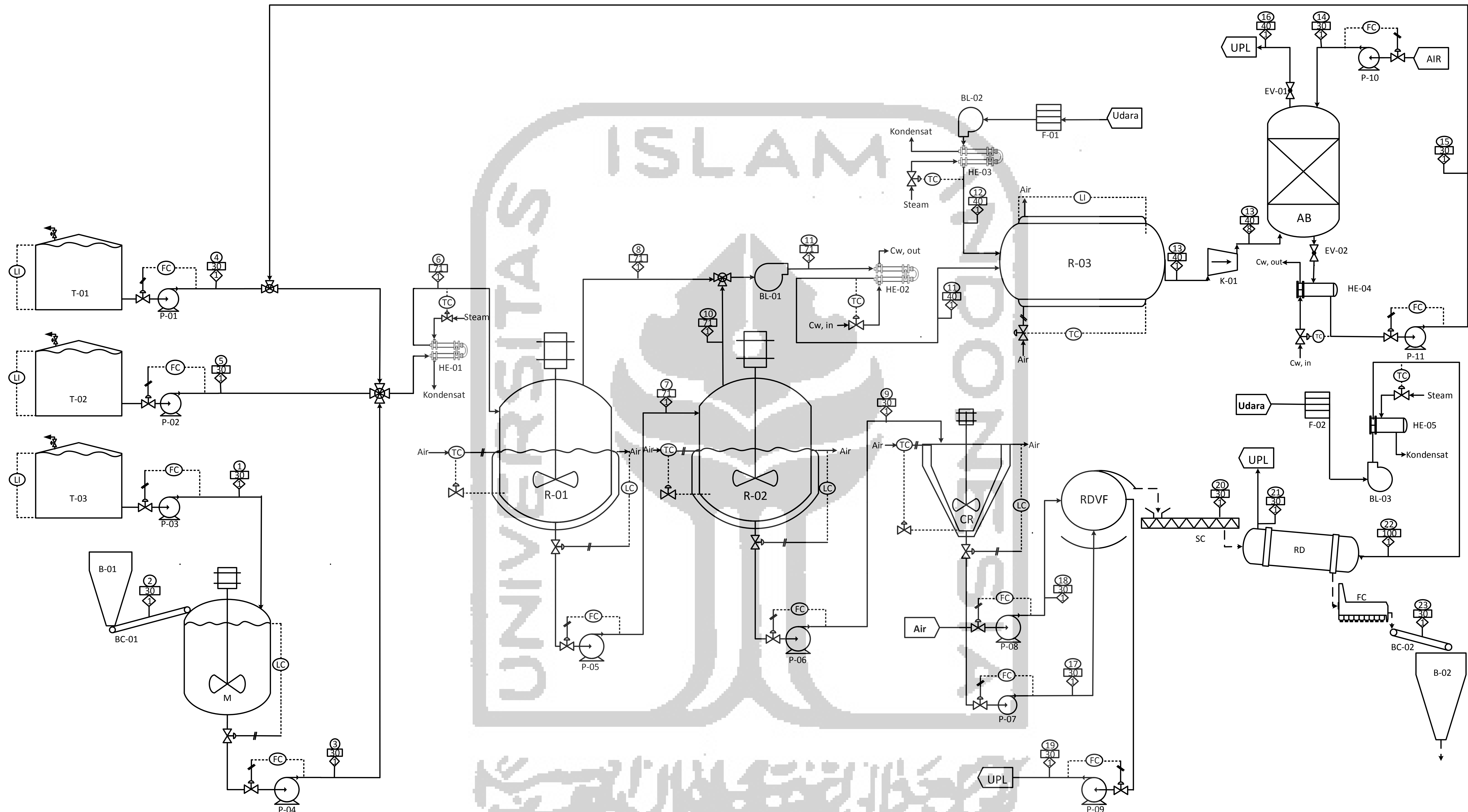



PROCESS ENGINEERING FLOW DIAGRAM

PRARANCANGAN PABRIK ASAM OKSALAT DIHIDRAT DARI GLUKOSA DAN ASAM NITRAT KAPASITAS 11.000 TON/TAHUN



Komponen	Arus (kg/jam)																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
C6H12O6	-	-	-	-	868.2	868.2	478.1	-	143.4	-	-	-	-	-	-	143.4	-	140.6	2.869	-	-	2.869	
HNO3	-	-	-	1823	-	1823	1004	-	301.2	-	-	-	-	867.5	-	301.2	-	295.2	6.024	-	6.024	-	
H2C2O4	-	-	-	-	-	-	585.1	-	1087	-	-	-	-	-	-	108.7	-	106.5	2.174	-	-	2.174	
H2C2O4.2H2O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1370	-	-	1370	-	-	1370	
H2O	14.17	-	14.17	858.0	165.4	1052	1272	-	1472	-	-	-	532.2	408.3	-	1081	215.0	1274	21.62	-	1059	-	
H2SO4	694.4	-	694.4	-	-	1389	694.4	-	694.4	-	-	-	-	-	-	694.4	-	680.6	13.89	-	-	13.89	
V2O5	-	0.0694	0.0694	-	-	0.1389	-	-	-	-	-	-	-	-	-	0.0694	-	0.0681	0.0014	-	-	-	
NO	-	-	-	-	-	-	-	390.1	-	334.7	724.8	-	72.48	-	-	279.0	-	-	-	-	-	-	
NO2	-	-	-	-	-	-	-	-	-	-	-	1000	-	-	50.01	-	-	-	-	-	-	-	
O2	-	-	-	-	-	-	-	-	-	-	-	850.4	502.5	-	-	502.5	-	-	-	-	-	-	
N2	-	-	-	-	-	-	-	-	-	-	-	3199	3199	-	-	3199	-	-	-	-	-	-	
Udara panas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1037.4	-	
Total	708.6	0.0694	708.7	2681	1034	5132	4033	390.1	3699	334.7	724.8	4049	4774	532.2	1276	4031	3699	215.0	2497	1417	1037.4	1065	1389

KETERANGAN ALAT		KETERANGAN SIMBOL	
BL	Blower	○	Nomor Arus
EV	Expansion Valve	□	Suhu, °C
BC	Belt Conveyor	◇	Tekanan, atm
SC	Screw Conveyor	⚡	Airan Listrik
F	Filter Bag	⋯	Udara Tekan
HE	Heat Exchanger	⊕	Control Valve
K	Kompresor	—	Piping
M	Mixer	- - -	Non Piping
P	Pompa		
R	Reaktor		
CR	Crystallizer		
AB	Absorber		
RD	Rotary Dryer		
RDVF	Rotary Drum Vacuum Filter		
B	Bin		
T	Tangki Penyimpanan		



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PROCESS ENGINEERING FLOW DIAGRAM
PRARANCANGAN PABRIK ASAM OKSALAT DARI
GLUKOSA DAN ASAM NITRAT
KAPASITAS 11.000 TON/TAHUN

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