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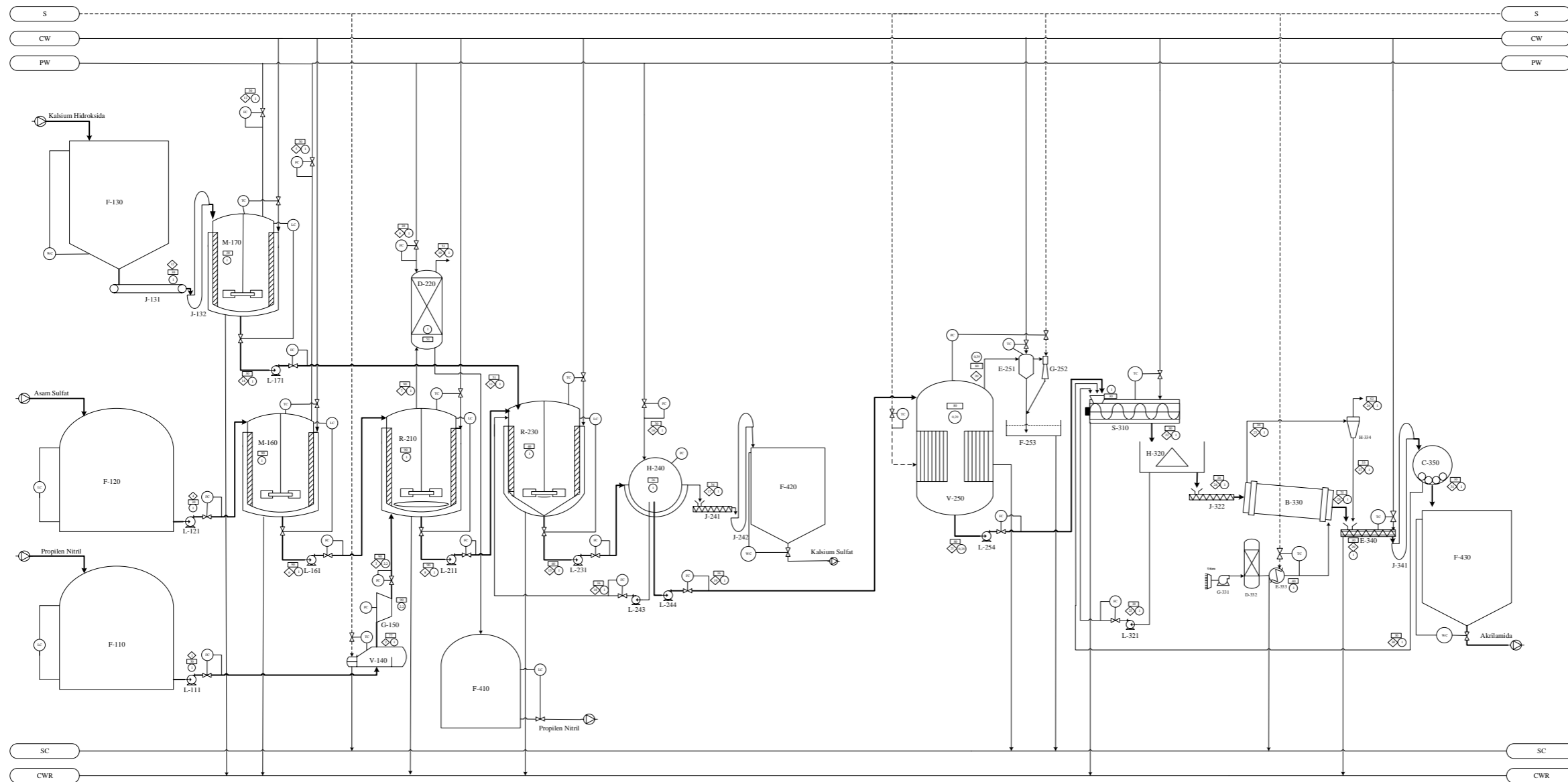


Pra Rencana Pabrik  
Pabrik Akrilamida dari Propilen Nitril dengan Proses Asam Sulfat

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# PABRIK AKRILAMIDA DARI PROPILEN NITRIL DENGAN PROSES ASAM SULFAT



**Keterangan :**

- Temperatur : °C
- Aliran Massa : kg/jam
- Tekanan : atm
- Steam : 148°C ; 4,5 atm
- Steam Condensate
- Cooling Water
- Cooling Water Return
- Process Water

43	F-430	SILLO AKRILAMIDA
42	C-350	BALL MILL
41	J-341	BUCKET ELEVATOR - 3
40	E-340	COOLING CONVEYOR
39	H-333	CYCLONE
38	E-332	HEATER
37	D-332	MOLECULAR SIEVER
36	G-331	BLOWER
35	B-330	ROTARY DRYER
34	J-322	SCREW CONVEYOR-2
33	L-321	POMPA-10
32	H-320	CENTRIFUGE
31	S-310	CRYSTALLIZER
30	L-254	POMPA - 9
29	F-253	HOT WELL
28	G-252	STEAM JET EJECTOR
27	E-251	BAROMETRIC CONDENSOR
26	V-250	EVAPORATOR
25	L-244	POMPA - 8
24	L-243	POMPA-7
23	F-420	SILLO KALSIMUM SULFAT
22	J-242	BUCKET ELEVATOR-2
21	J-241	SCREW CONVEYOR - 1
20	H-240	ROTARY DRUM VACCUM FILTER
19	L-231	POMPA - 6
18	R-230	NEUTRALIZER
17	F-410	TANGKI PENAMPUNG
16	D-220	SCRUBBER
15	L-211	POMPA- 5
14	R-210	REAKTOR
13	L-171	POMPA-4
12	M-170	TANGKI PENGECER- 2
11	L-161	POMPA- 3
10	M-160	TANGKI PENGECER- 1
9	G-150	COMPRESSOR
8	V-140	VAPORIZER
7	J-132	BUCKET ELEVATOR-1
6	J-131	BELT CONVEYOR-1
5	F-130	SILLO PENYIMPAN KALSIMUM HIDROKSIDA
4	L-121	POMPA - 2
3	F-120	TANGKI PENYIMPAN ASAM SULFAT
2	L-111	POMPA - 1
1	F-110	TANGKI PENYIMPANAN PROPILEN NITRIL

Komponen	Nomor	Aliran Massa ( 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	24	25	26	27	28	29	30	31			
C <sub>3</sub> H <sub>3</sub> N		3363,93	3363,93	3380,83				50,71			0,25	50,46																							
H <sub>2</sub> SO <sub>4</sub>					6220,09																														
H <sub>2</sub> O		16,90	16,90	16,90	126,94						16,90	50,21	153,76			15205,61	304,11	11766,73	11766,73	10695,19	1071,54	53595,96	52524,04	1071,92	1064,31	1064,31		7,61	7,61	0,38	7,23				
H <sub>2</sub> SO <sub>4</sub> ·H <sub>2</sub> O						7362,55		74,00																											
C <sub>3</sub> H <sub>5</sub> NO·H <sub>2</sub> SO <sub>4</sub>											10618,68																								
Ca(OH) <sub>2</sub>												4696,80																							
Ca(OH) <sub>2</sub> ·H <sub>2</sub> O														5839,27																					
CaSO <sub>4</sub>															8631,96		8631,96																		
C <sub>3</sub> H <sub>5</sub> NO Kristal																						4488,66		4511,72	45,12	0,45	44,67	4466,60	4511,27	225,56	4285,70				
C <sub>3</sub> H <sub>5</sub> NO Liquid															8747,26		174,95	4286,16	4286,16		4286,16	1153,12	1130,05												
Air Proses					1015,52				50,21			988,70				8631,96																			
<b>Total</b>		3380,83	3380,83	3397,73	6347,03	1015,52	7362,55	67,62	10692,67	50,21	17,16	100,67	4850,57	988,70	5839,27	32584,82	8631,96	9111,02	16052,88	16052,88	10695,19	5357,69	59237,74	53654,10	5583,64	1109,43	1064,76	44,67	4474,21	4518,87	225,94	4292,93			

**NAMA ALAT**

FLOWSHEET  
PABRIK AKRILAMIDA DARI PROPILEN NITRIL DENGAN  
PROSES ASAM SULFAT

DIGAMBAR OLEH :  
LUKYANA AINI 18031010069

DOSEN PEMBIMBING :  
IR. KINDRIARI NURMA W., MT

PROGRAM STUDI TEKNIK KIMIA  
FAKULTAS TEKNIK  
INSTITUT TEKNOLOGI SEPULUH NOPEMBER  
"VETERAN" JAWA TIMUR  
2022