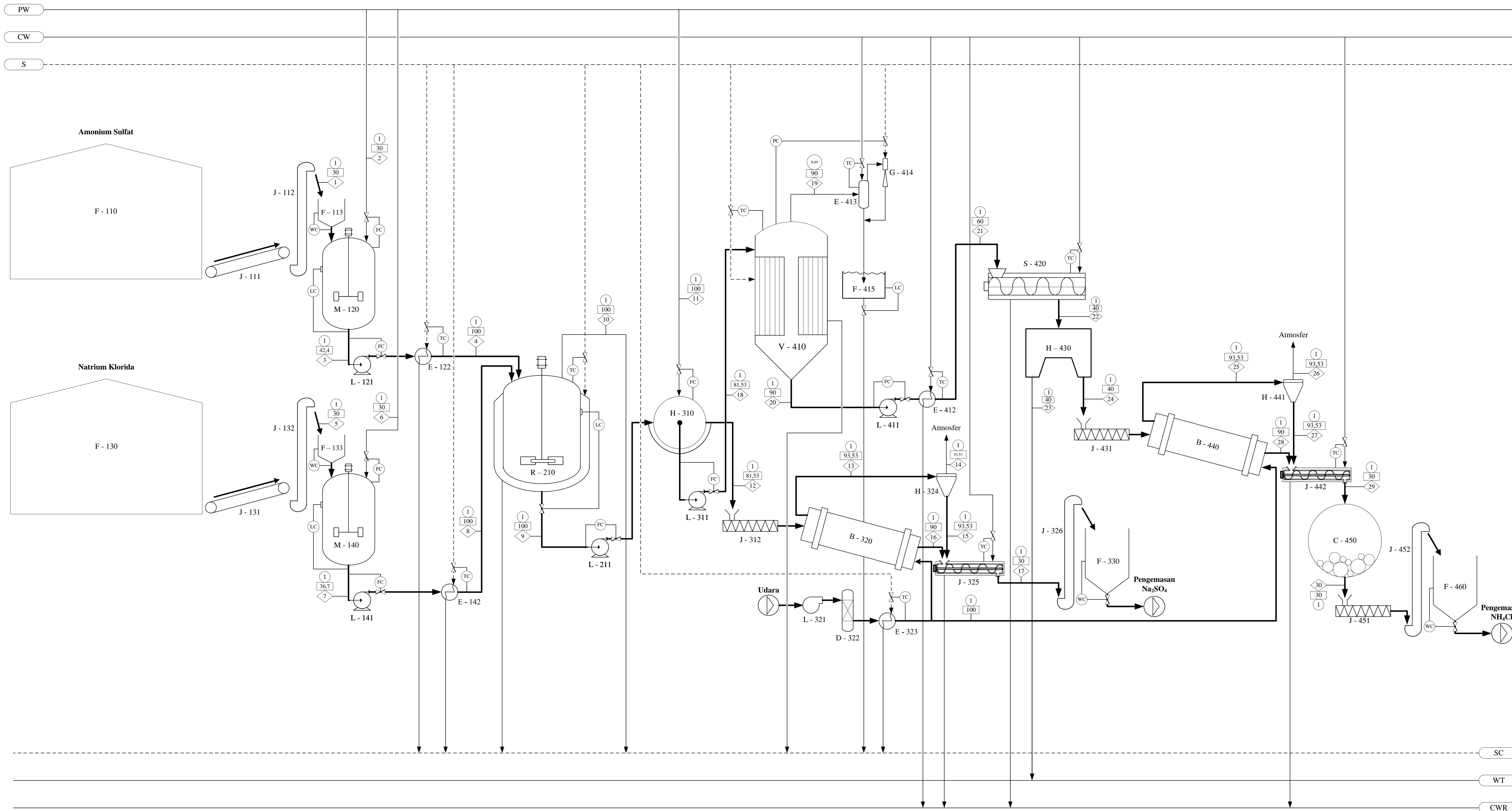


PABRIK AMONIUM KLORIDA DARI AMONIUM SULFAT DAN NATRIUM KLORIDA DENGAN PROSES DOUBLE DECOMPOSITION




PW	Process Water	□	Temperatur (°C)
CW	Cooling Water	◇	Aliran Massa (kg/jam)
S	Steam	○	Tekanan (atm)
SC	Steam Condensate		
WT	Waste Treatment		
CWR	Cooling Water Return		

43	F - 460	Silo Amonium Klorida
42	J - 452	Bucket Elevator - 4
41	J - 451	Screw Conveyor - 3
40	C - 450	Ball Mill
39	J - 442	Cooling Screw Conveyor - 2
38	H - 441	Cyclone - 2
37	B - 440	Rotary Dryer - 2
36	J - 431	Screw Conveyor - 2
35	H - 430	Centrifuge
34	S - 420	Crystallizer
33	F - 415	Hot Well
32	G - 414	Steam Jet Ejector
31	E - 413	Kondensor
30	E - 412	Cooler
29	L - 411	Pompa - 5
28	V - 410	Evaporator
27	F - 330	Silo Natrium Sulfat
26	J - 326	Bucket Elevator - 3
25	J - 325	Cooling Screw Conveyor - 1
24	H - 324	Cyclone - 1
23	E - 323	Heater - 3
22	D - 322	Molecular Sieve
21	L - 321	Blower
20	B - 320	Rotary Dryer - 1
19	J - 312	Screw Conveyor - 1
18	L - 311	Pompa - 4
17	H - 310	Rotary Drum Vacuum Filter
16	L - 211	Pompa - 3
15	R - 210	Reaktor
14	E - 142	Heater - 2
13	L - 141	Pompa - 2
12	M - 140	Tangki Pelarut Natrium Klorida
11	F - 133	Hopper Natrium Klorida
10	J - 132	Bucket Elevator - 2
9	J - 131	Belt Conveyor - 2
8	F - 130	Gudang Natrium Klorida
7	E - 122	Heater - 1
6	L - 121	Pompa - 1
5	M - 120	Tangki Pelarut Amonium Sulfat
4	F - 113	Hopper Amonium Sulfat
3	J - 112	Bucket Elevator - 1
2	J - 111	Belt Conveyor - 1
1	F - 110	Gudang Amonium Sulfat
No	Kode Alat	Nama Alat

KOMPONEN	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	
(NH ₄) ₂ SO ₄	13456,4889		13456,4889	13456,4889				672,8244				20,1847	0,2018	0,0020	0,1998	19,9829	20,1827	652,6397		652,6397	652,6397	652,6397	626,5341	26,1056	0,2611	0,0026	0,2584	25,8445	26,1030	26,1030	
H ₂ SO ₄	13,6062		13,6062	13,6062				13,6062				13,6062	0,1361	0,0014	0,1347	13,4701	13,6048														
NaCl					12320,6971		12320,6971	12320,6971	1013,3360			30,4001	0,3040	0,0030	0,3010	30,0961	30,3970	982,9359		982,9359	982,9359	982,9359	943,6185	39,3174	0,3932	0,0039	0,3892	38,9243	39,3135	39,3135	
CaSO ₄					12,6366		12,6366	12,6366				12,6366	0,1264	0,0013	0,1251	12,5102	12,6353														
MgCl ₂					25,2732		25,2732	25,2732				25,2732	0,2527	0,0025	0,2502	25,0205	25,2707														
MgSO ₄					25,2732		25,2732	25,2732				25,2732	0,2527	0,0025	0,2502	25,0205	25,2707														
NH ₄ Cl _(b)								10349,6021				310,4881						10039,1141		10039,1141	10039,1141	13,4423	12,9046								
NH ₄ Cl _(s)													3,1049	0,0310	3,0738	307,3832	310,4570					10025,6718			10026,2095	1,0026	99,2595	9925,9474	10025,2069	10025,2069	
Na ₂ SO ₄								13741,4235				13741,4235	1,3741	1,3741	136,0401	13604,0093	13740,0494														
H ₂ O _(l)	136,0616	17115,8473	17251,9089	17251,9089	252,73225	33688,5822	33941,3145	33941,3145	16066,6527			2866,1256			28,6613	28,6613	15584,6532		2666,9019	2666,9019	2666,9019	2266,8666	400,0353					10,3868	10,3868	10,3868	
H ₂ O _(g)									35126,5706				2837,4639	2837,4639													389,6485	389,6485			
TOTAL	13606,1567	17115,8473	30722,0040	30722,0040	12636,6125	33688,5822	46325,1947	46325,1947	41920,6281	35126,5706	2384,1256	17045,4108	2979,2568	2838,8819	140,3749	14066,1540	14206,5289	27259,3429	12917,7513	14341,5915	14341,5915	14341,5915	3849,9238	10491,6678	490,5649	390,6577	99,9072	10001,1029	10101,0101	10101,0101	

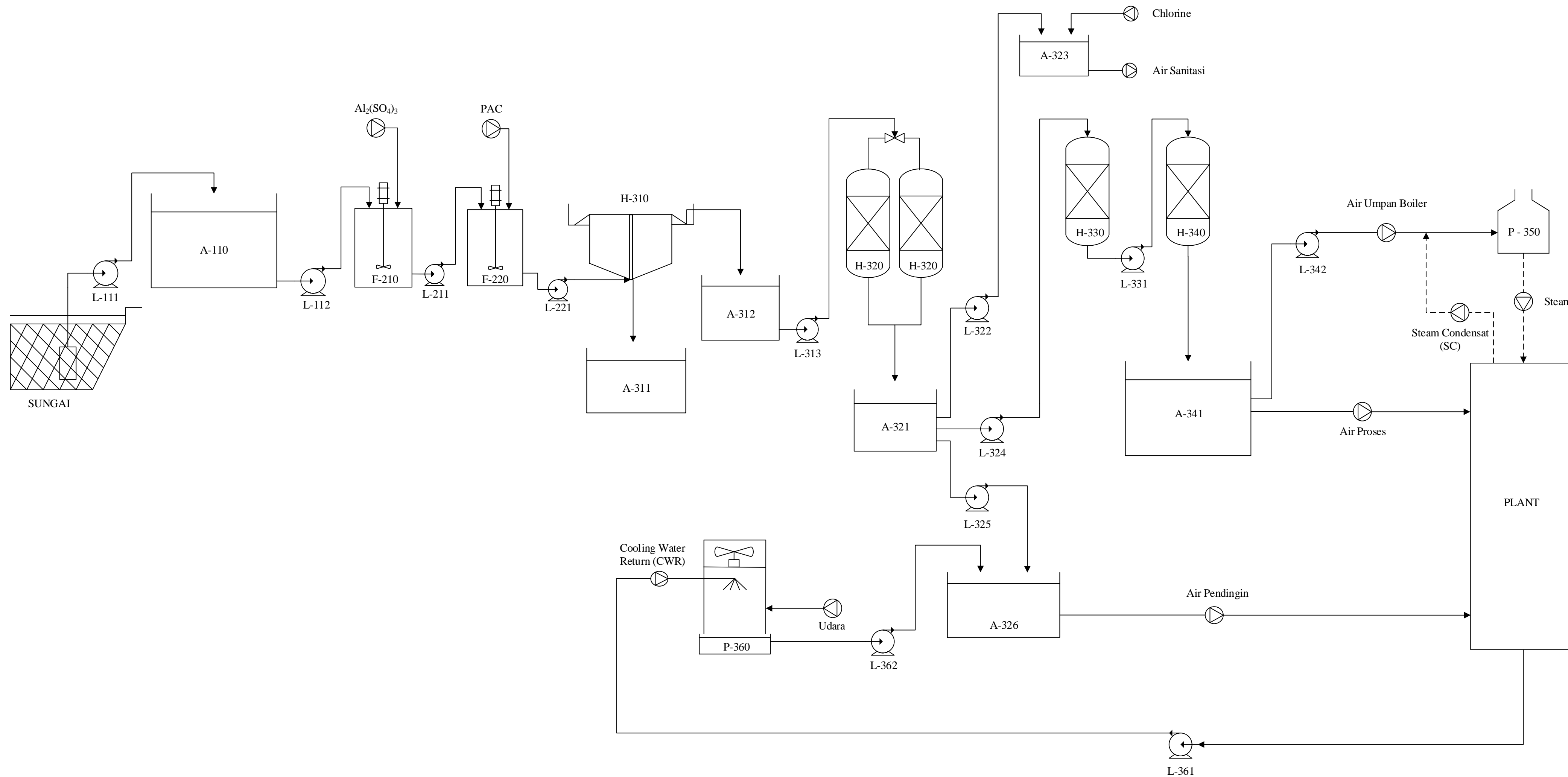
FLOWSHEET
PABRIK AMONIUM KLORIDA DARI AMONIUM SULFAT DAN NATRIUM KLORIDA
DENGAN PROSES DOUBLE DECOMPOSITION

Digambar oleh	Narke Khaleda Zia Kudadiri	Mengetahui
NPM	19031010045	
Dosen Pembimbing	Ir. Sani, MT	




PROGRAM STUDI TEKNIK KIMIA
FAKULTAS TEKNIK
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SURABAYA
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FLOWSHEET UNIT PENGOLAHAN AIR PABRIK AMONIUM KLORIDA DARI AMONIUM SULFAT DAN NATRIUM KLORIDA DENGAN PROSES DOUBLE DECOMPOSITION



27	L - 362	POMPA - 12
26	A - 361	POMPA - 11
25	P - 360	COOLING TOWER
24	P - 350	BOILER
23	L - 342	POMPA - 10
22	A - 341	BAK AIR DEMINERALISASI
21	H - 340	TANGKI ANION EXCHANGER
20	L - 331	POMPA - 9
19	H - 330	TANGKI KATION EXCHANGER
18	A - 326	BAK PENAMPUNG AIR PENDINGIN
17	L - 325	POMPA - 8
16	L - 324	POMPA - 7
15	A - 323	BAK AIR SANITASI
14	L - 322	POMPA - 6
13	A - 321	BAK PENAMPUNG AIR BERSIH
12	H - 320	SAND FILTER
11	L - 313	POMPA - 5
10	A - 312	BAK PENAMPUNG AIR BERSIH
9	A - 311	BAK PENAMPUNG FLOK
8	H - 310	CLARIFIER
7	L - 221	POMPA - 4
6	F - 220	TANGKI FLOKULASI
5	L - 211	POMPA - 3
4	F - 210	TANGKI KOAGULASI
3	L - 112	POMPA - 2
2	A - 110	BAK PENAMPUNG AIR SUNGAI
1	L - 111	POMPA - 1
NO	KODE ALAT	NAMA ALAT

FLOWSHEET UNIT PENGOLAHAN AIR PABRIK AMONIUM KLORIDA DARI AMONIUM SULFAT DAN NATRIUM KLORIDA DENGAN PROSES DOUBLE DECOMPOSITION		
Digambar oleh	Narke Khaleda Zia Kudadiri	Mengetahui
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