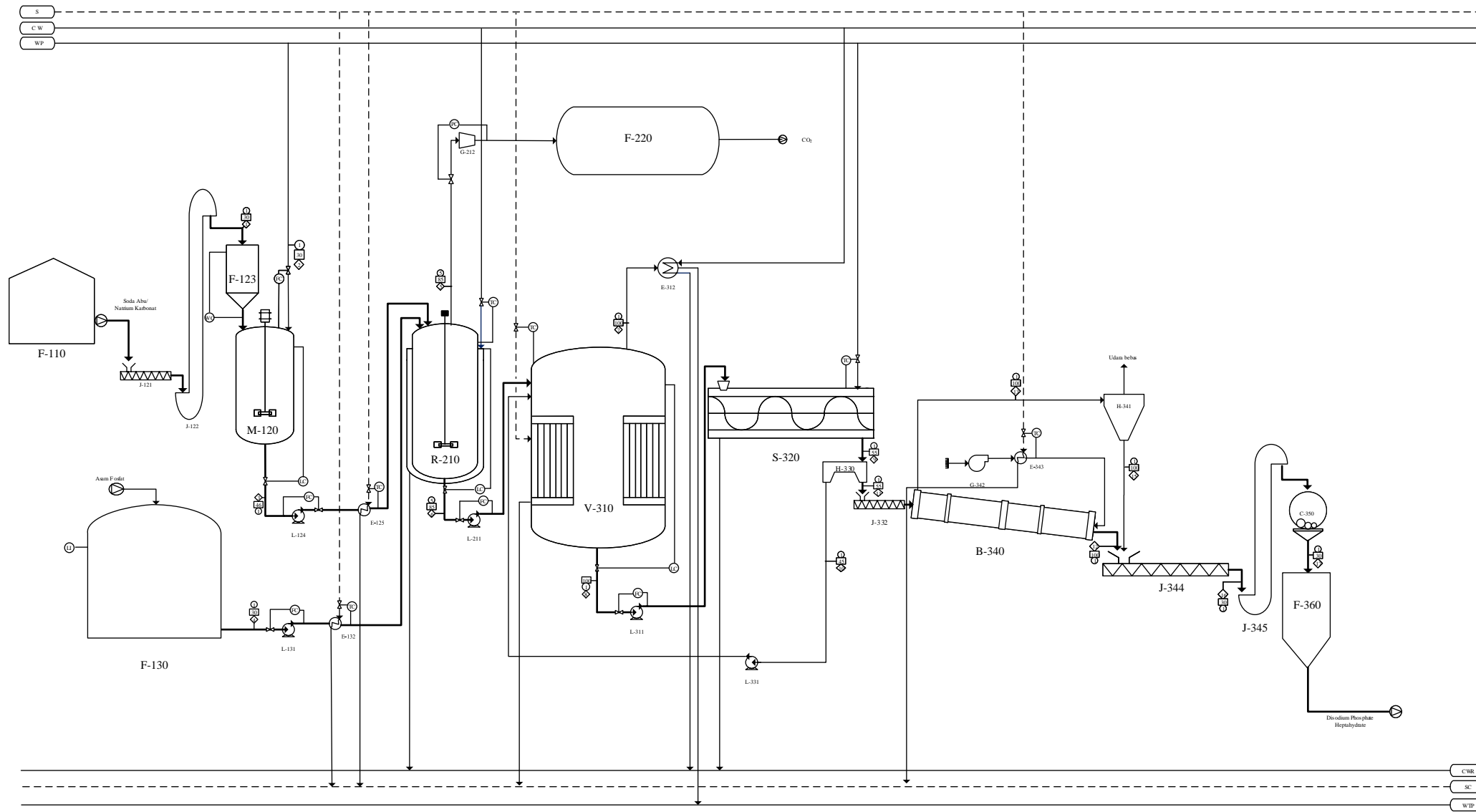


PRA RENCANA PABRIK DINATRIUM HIDROGEN FOSFAT DIHIDRAT DARI SODA ABU DAN ASAM FOSFAT DENGAN PROSES KRISTALISASI



Keterangan :

	Temperatur, °C		Cooling Water		Steam
	Tekanan, atm		Cooling Water Return		Steam Condensate
	Aliran massa, kg/jam		Pure Water		Waste Treatment Plant

29	F - 360	SILO DINATRIUM HIDROGEN FOSFAT DIHIDRAT
28	C - 350	BALL MILL
27	J - 345	BUCKET ELEVATOR - 2
26	J - 344	COOLING CONVEYOR - 3
25	E - 343	HEATER - 3
24	G - 342	BLOWER
23	H - 341	CYCLONE
22	B - 340	ROTARY DRYER
21	L - 332	POMPA - 5
20	J - 331	SCREW CONVEYOR - 2
19	H - 330	CENTRIFUGE
18	S - 320	CRYSTALLIZER
17	E - 312	KONDENSOR
16	L - 311	POMPA - 4
15	V - 310	EVAPORATOR
14	F - 220	TANGKI CO ₂
13	G - 212	COMPRESSOR
12	L - 211	POMPA - 3
11	R - 210	REAKTOR
10	E - 132	HEATER - 2
9	L - 131	POMPA - 2
8	F - 130	TANGKI ASAM FOSFAT
7	E - 125	HEATER - 1
6	L - 124	POMPA - 1
5	M - 120	TANGKI PELARUTAN SODA ABU
4	F - 123	HOPPER SODA ABU
3	J - 122	BUCKET ELEVATOR - 1
2	J - 121	SCREW CONVEYOR - 1
1	F - 110	GUDANG SODA ABU
No.	Kode	Nama Alat

Aliran Massa (Kg/Jam)

Nomor	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Na ₂ CO ₃	5.231,4031		5.231,4031			261,5702		261,5702	261,5702	251,2001	19,9459	19,9459				19,9459	19,9459	
NaCl	10,4943		10,4943			10,4943		10,4943	10,4943	10,0782	0,8002	0,8002				0,8002	0,8002	
H ₃ PO ₄				4.836,5802		241,8290		241,8290	241,8290	232,2416	18,4406	18,4406				18,4406	18,4406	
H ₂ O	5,2471	10.383,0450	10.388,2922	2.604,3124		13.836,5385	9.911,9648	3.924,5737	3.073,6612	2.951,8045	103,0435	14,9242	88,1193	88,1193		14,9242	14,9242	
Na ₂ HPO ₄ ·2H ₂ O											7.375,4593	7.517,1204	7.441,9492	75,1712	0,7517	74,4195	7.516,3687	7.516,3687
Na ₂ HPO ₄						6.657,7008		6.657,7008	133,1540	127,8751	5,2790	5,2262	0,0528	0,0005	0,0523	5,2784	5,2784	
CO ₂					2.062,9495													
Total	5.247,1445	10.383,0450	15.630,1896	7.440,8927	2.062,9495	21.008,1327	9.911,9648	11.096,1679	11.096,1679	3.573,1995	7.664,6296	7.501,2862	163,3433	88,8716	74,4718	7.575,7580	7.575,7580	

FLOWSHEET PRA RENCANA PABRIK DINATRIUM HIDROGEN FOSFAT DIHIDRAT DARI SODA ABU DAN ASAM FOSFAT DENGAN PROSES KRISTALISASI

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DOSEN PEMBIMBING

IR. NURUL WIDJI TRIANA, MT



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