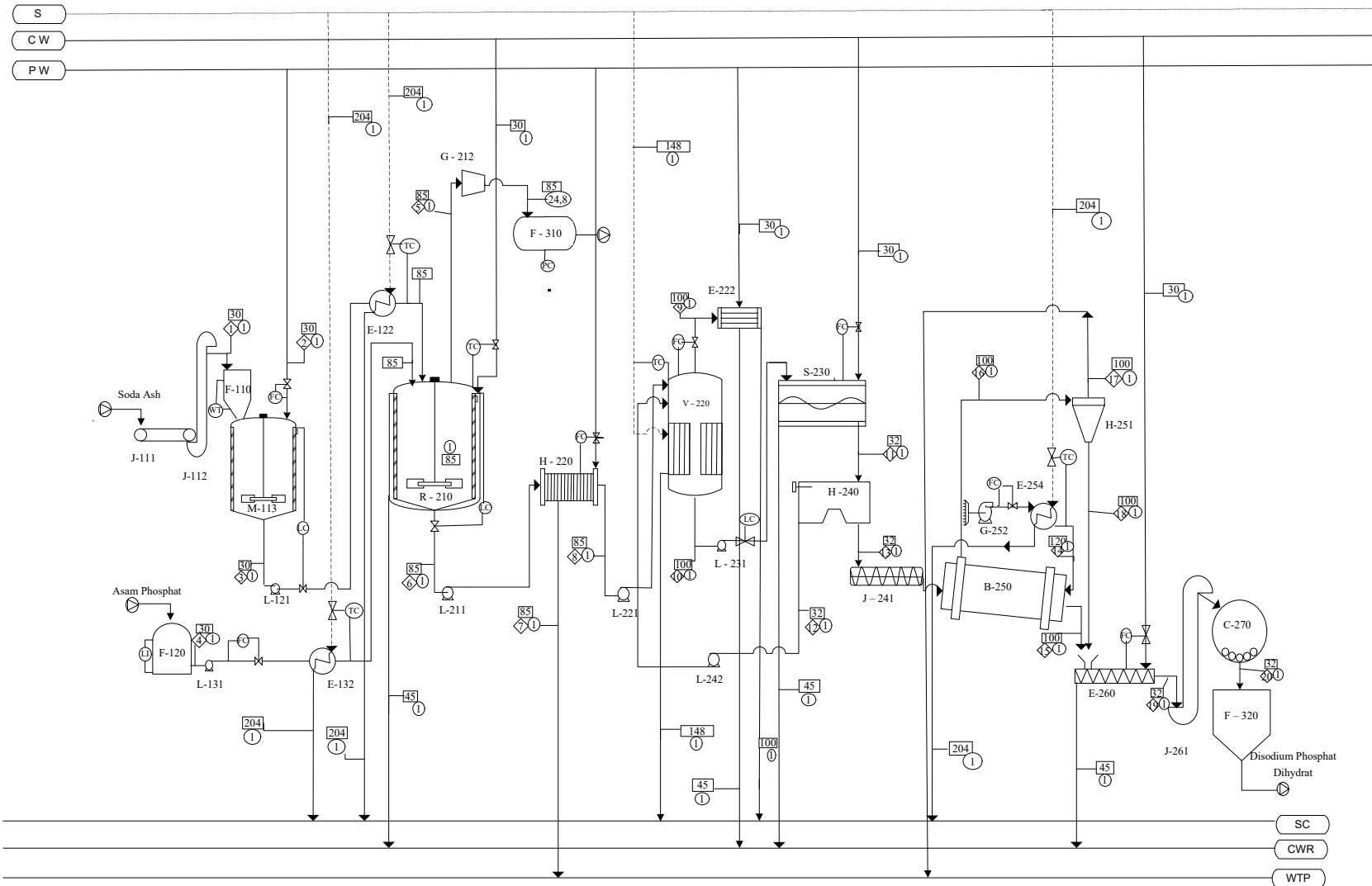


PABRIK DISODIUM PHOSPHAT DIHYDRAT DARI SODA ASH DAN ASAM PHOSPHAT DENGAN PROSES KRISTALISASI



KETERANGAN :

 	Temperatur ; °C
◇	Aliran Massa ; kg/jam
○	Tekanan ; atm
S	Steam : 148°C ; 4,5 atm
S C	Steam Condensate
C W	Cooling Water
C W R	Cooling Water Return
P W	Process Water
W T P	Waste Treatment Plant

32	F - 320	SILO DISODIUM PHOSPHAT
31	J - 273	SCREW CONVEYOR - 3
30	J - 272	BUCKET ELEVATOR - 3
29	C - 270	BALL MILL
28	J - 261	BUCKET ELEVATOR - 2
27	E - 260	COOLING CONVEYOR
26	E - 254	HEATER - 3
25	G - 252	BLOWER
24	H - 251	CYCLONE
23	B - 250	ROTARY DRYER
22	L - 242	POMPA - 6
21	J - 241	SCREW CONVEYOR - 2
20	H - 240	CENTRIFUGE
19	S - 230	CRYSTALLIZER
18	L - 231	POMPA - 5
17	E - 222	KONDENSOR
16	L - 221	POMPA - 4
15	V - 220	EVAPORATOR
14	H - 220	FILTER PRESS
13	F - 310	TANGKI CO ₂ LIQUID
12	G - 212	COMPRESSOR
11	L - 211	POMPA - 3
10	R - 210	REAKTOR
9	L - 131	POMPA - 2
8	E - 132	HEATER - 2
7	E - 122	HEATER - 1
6	F - 120	TANGKI ASAM PHOSPHAT
5	L - 121	POMPA - 1
4	M - 113	TANGKI PELARUTAN
3	J - 112	BUCKET ELEVATOR - 1
2	J - 111	SCREW CONVEYOR - 1
1	F - 110	SILO SODA ASH
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	18	19	20
Na ₂ CO ₃	15.133.4630		15.133.4630																	
NaCl	30.3580		30.3580			30.3580	0.6072	29.7508		33.3817	33.3817	31.7127	1.6691		1.6691				1.6691	1.6691
Na ₂ HPO ₄ ·2H ₂ O											23669.1646		23669.1646		23432.4730	236.6916	2.3669	234.3247	23666.7977	23666.7977
Na ₂ HPO ₄						19259.4732	385.1895	18874.2837		18898.3913	377.9678	359.0694	18.8984		18.7094	0.18898	0.0019	0.1871	18.8965	18.8965
H ₃ PO ₄			13.991.3148																	
Sisa Na ₂ CO ₃						756.6732	15.1335	741.5397		788.8972	788.8972	749.4523	39.4449		39.4449				39.4449	39.4449
Sisa H ₃ PO ₄						699.5657	13.9913	685.5744		729.3577	729.3577	692.8898	36.4679		36.4679				36.4679	36.4679
H ₂ O	15.1790	20.853.0548	20.868.2338	7.533.7849		30873.7184	616.8672	30256.8511	19626.0585	11047.2909	5898.5498	5603.6223	294.9275		46.9964	247.9311	247.9311		46.9964	46.9964
CO ₂					5.967.7241															
Udara Kering														275121.7159		275121.7159	275121.7159			
TOTAL	15.179.0000	20.853.0548	36.032.0548	21.525.0998	5.967.7241	51619.7884	1031.7886	50587.9998	19626.0585	31497.3189	31497.3189	7436.7465	24060.5723		23575.7606	275606.5277	275372.0158	234.5118	23810.2724	23810.2724

FLOW SHEET
PABRIK DISODIUM PHOSPHAT DIHYDRAT
DARI SODA ASH
DAN ASAM PHOSPHAT DENGAN PROSES KRISTALISASI

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