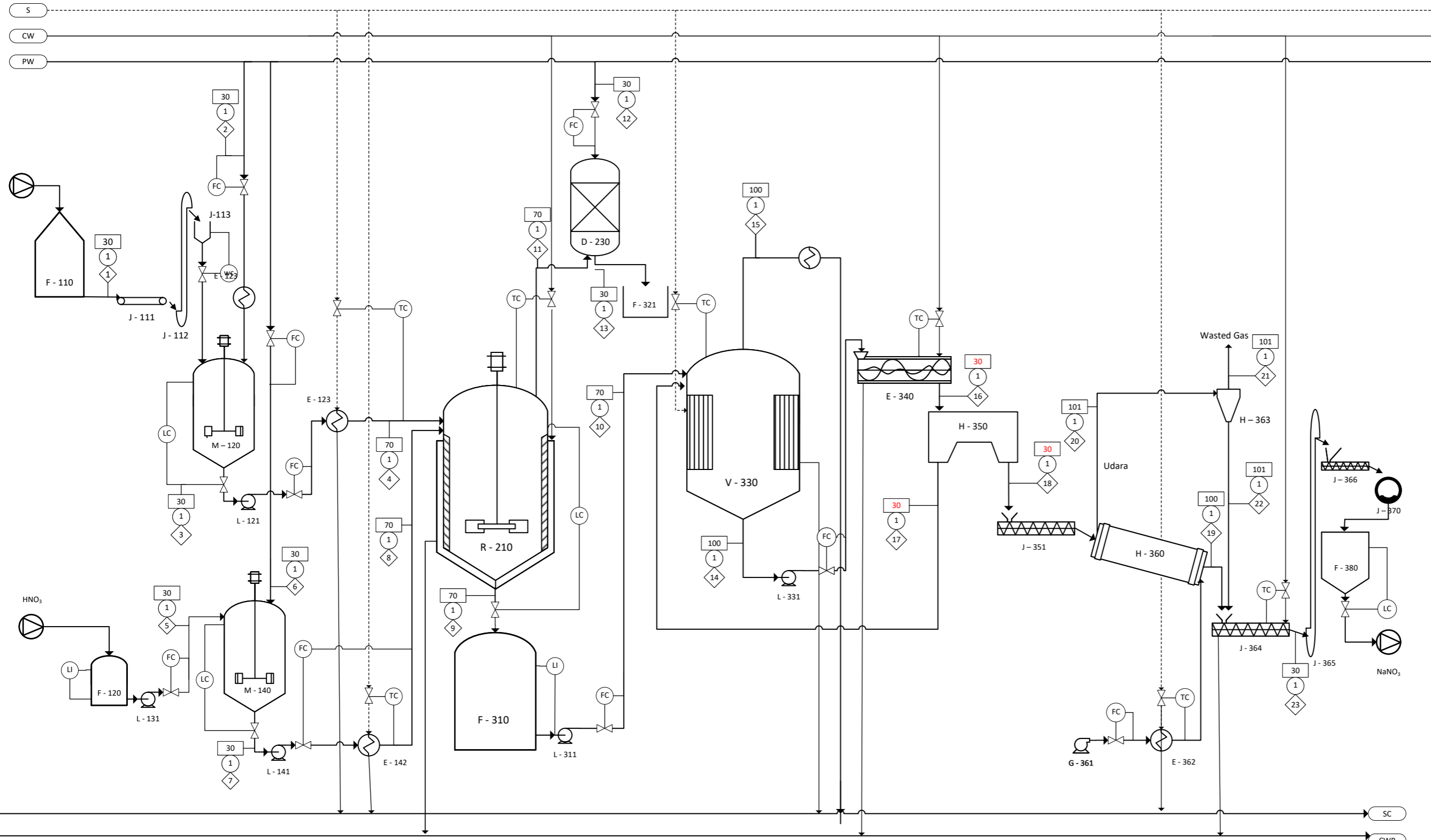


PABRIK SODIUM NITRAT DARI SODIUM KARBONAT DAN ASAM NITRAT



Symbol	Keterangan
□	Temperature (°C)
○	Tekanan (atm)
◇	Nomor Aliran
S	Steam
CW	Cooling Water
PW	Process Water
SC	Steam Condensate
CWR	Cooling Water Return
WTP	Water Treatment Plant

No.	Kode	Nama Alat
33	J-370	BALL MILL
32	J-366	SCREW CONVEYOR
31	F-380	SILO NaNO ₃
30	J-365	BUCKET ELEVATOR
29	J-364	COOLING CONVEYOR
28	H-363	CYCLONE
27	E-362	HEATER
26	G-361	BLOWER
25	H-360	ROTARY DRYER
24	J-351	SCREW CONVEYOR
23	E-340	CRYSTALLIZER
22	E-332	KONDENSATOR
21	H-350	CENTRIFUGE
20	F-333	BAK PENAMPUNG LIMBAH
19	L-331	POMPA
18	V-330	EVAPORATOR
17	F-321	TANGKI PENAMPUNG ASAM KARBONAT
16	D-320	ABSORBER
15	L-211	POMPA
14	F-220	TANGKI PENAMPUNG LARUTAN NaNO ₃
13	R-210	REAKTOR
12	E-142	HEATER
11	L-141	POMPA
10	M-140	TANGKI PENGECERAN HNO ₃
9	L-131	POMPA
8	F-310	STORAGE NaNO ₃
7	E-122	HEATER
6	L-121	POMPA
5	M-120	TANGKI PELARUTAN Na ₂ CO ₃
4	J-113	HOPPER Na ₂ CO ₃
3	J-112	BUCKET ELEVATOR
2	J-111	BELT CONVEYOR
1	F-110	GUDANG PENYIMPANAN Na ₂ CO ₃

SC
CWR
WTP

KOMPONEN	ALIRAN MASSA																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Na ₂ CO ₃	1574,7267		1574,7267	1574,7267																				
HNO ₃					1910,0459		1910,0459	1910,0459	38,2009	38,2009					38,2006									
NaNO ₃									2525,5051	2525,5051				2549,1013		2549,1013	23,5962	2525,5051	2500,2501	25,2551	0,2526	25,0025	2525,2526	
H ₂ O	15,9063	1527,6377	1543,5440	1543,544	898,8451	421,3337	1320,1798	1320,1798	3131,1292	3131,1292		52001,033		2587,3023	2878,8673	2587,3023	2335,0403	122,8969	5,0105	117,8863	117,8863		5,0105	
CO ₂									653,6602	653,6602	653,6602			6,5366										
H ₂ CO ₃													520663,1566											
TOTAL	1590,6331	1527,6377	3118,2708	3118,2708	2808,891	421,3337	3230,2247	3230,2247	6348,4954	6348,4954	653,6602	52001,033	520669,6932	5136,4036	2917,0682	2358,6365	2358,6365	2648,402	2505,2606	143,1414	118,1389	25,0025	2330,2631	

DI GAMBAR OLEH : Ody Iskandar Dimata

NPM : 18031010001

Dosen Pembimbing : Ir. Ketut Sumarta, MS

FLOWSHEET PABRIK SODIUM NITRAT DARI SODIUM KARBONAT DAN ASAM NITRAT DENGAN PROSES SINTETIK



FAKULTAS TEKNIK
JAWA TIMUR
2023

PROGRAM STUDI TEKNIK KIMIA

