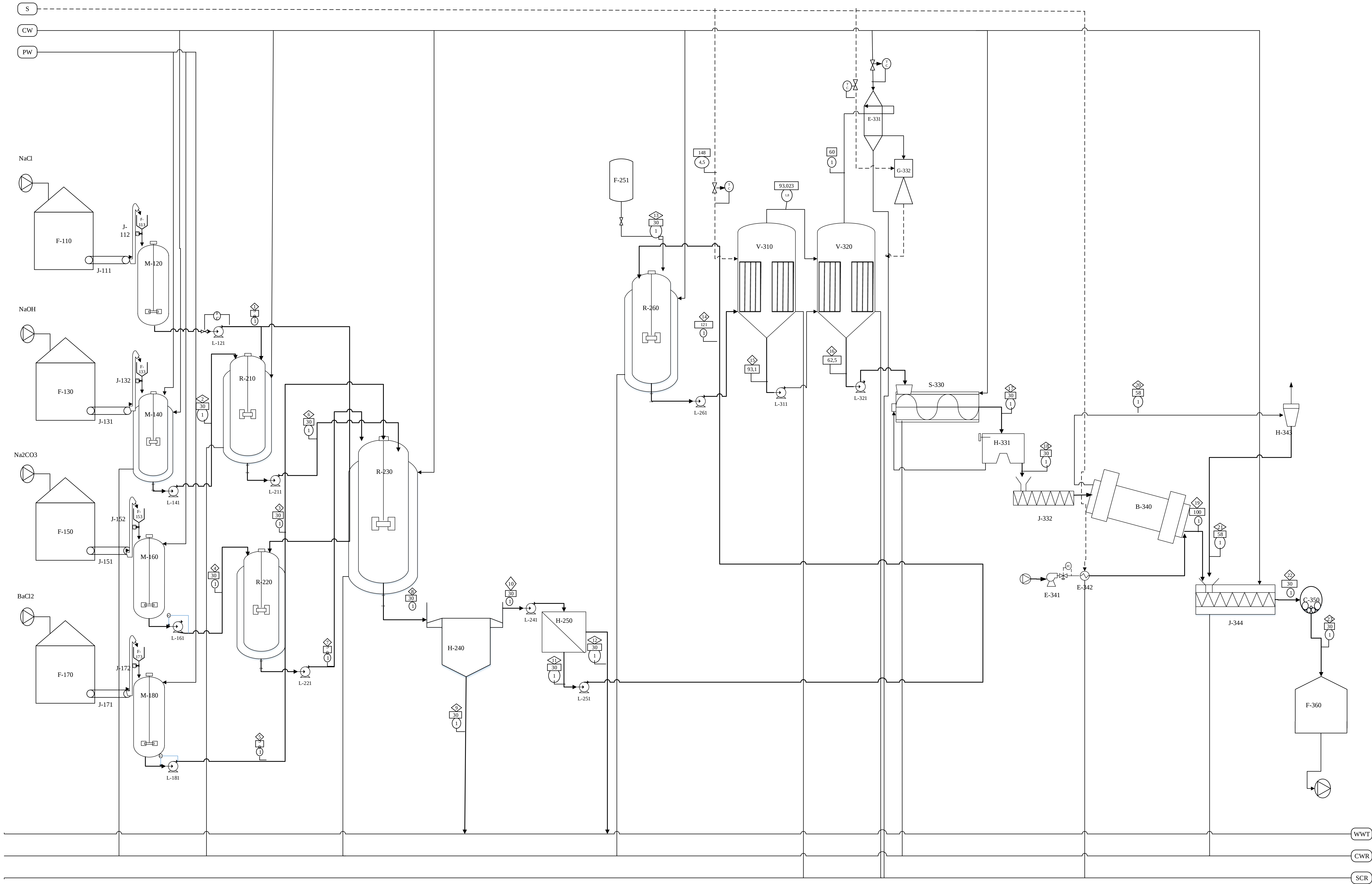


PABRIK GARAM FARMASI DARI GARAM RAKYAT DENGAN PROSES SEDIMENTASI DAN EVAPORASI (MULTIPLE EFFECT EVAPORATOR)



Komponen	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CaSO4	13,97853		7,68819			7,68819	1,76828	9,45647	0,18912	9,26734		9,26734	9,2673		9,2673	9,2673	9,2673	0,463367	0,4629	0,000463367	0,000458734	0,4633626	0,4633626
MgSO4	19,81786		0,99089			0,99089	0,330958	1,32185	0,026437	1,29541		1,2954	1,29541		1,2954	1,2954	1,2954	0,06477	0,0647	6,47707E-05	6,4123E-05	0,064770055	0,064770055
MgCl2	26,5226		1,32613			1,32613	0,442926	1,76905	0,035381	1,73367		1,73367	1,73367		1,73367	1,73367	1,73367	0,08668	0,086597003	8,66837E-05	8,58168E-05	0,08668282	0,08668282
NaCl	6236,9338		6236,9338			6267,86	6238,018	6265,75	125,315	6140,4360		6140,436	6149,4367		6149,4367	6149,4367	122,9887	6,1494	6,143287306	0,006149437	0,006087942	6,149375249	6,149375249
Impurities	9,6361		9,6360			9,63606	9,636062	9,636062	7,70885	1,92721		1,92721											
H2O	35272,67		35272,67			35272,67	35272,67	35272,67	705,4534	34567,2166		34567,21	34569,99		14330,785	6131,536	2435,66	121,783	9,851146936			9,851146936	9,851146936
NaOH		43,6712				6,29066		0,12581	6,164852			6,16485											
BaCl2					52,3877			1,04775	0,020955	1,0267996		1,02679	1,02679		1,026799	1,026799	1,026799	0,05134	0,051288641	5,134E-05	5,08266E-05	0,051339468	0,051339468
Na2CO3			8,3335				2,16097	2,16097	1,728777	0,43219	0,43219												
BaSO4								57,5408	46,03265	11,50816													
Na2SO4								28,78	0,714705	0,571764	0,142941												
Ca(OH)2						3,42609		0,068521	3,35757			3,35757			3,3575	3,35757	3,35757	0,16788	0,167710761	0,000167879	0,0001662	0,167876961	0,167876961
Mg(OH)2						24,5515		24,55155	19,64124	4,91031	4,91031												
CaCO3							4,35313	3,4825	0,87063		0,870627												
MgCO3						1,2444	1,24439	0,02488	1,21950			1,2195	1,2195		1,2195	1,2195	1,2195	0,06097	0,060914092	6,09751E-05	6,03653E-05	0,060974457	0,060974457
HCl														5,61									
NaCl.2H2O																					9,625096031	9722,222	9722,222
Total	156296,15	0,0344584	858,00268	167,40449	1050,2599										20498,1225	12298,8734	12298,87349	9851,146936	9729,485459	121,6614778	121,6614778	9739,117529	9739,117529

Keterangan :			
	Tekanan (atm)		Stream Condensate Return
	Temperatur (°C)		Cooling Water
	Aliran Massa(kg/jam)		Cooling Water Return
	Steam		Process Water
	Waste Water Treatment		

NO	KODE ALAT	NAMA ALAT
1	F-110	GUDANG GARAM RAKYAT
2	J-111	SCREW CONVEYOR-1
3	J-112	BUCKET ELEVATOR
4	F-113	HOPPER-1
5	M-120	MIXER-1
6	J-131	SCREW CONVEYOR-1
7	J-132	BUCKET ELEVATOR-1
8	M-140	MIXER-1
9	L-141	POMPA-2
10	F-150	TANGKI PENAMPUNGAN Na2CO3
11	J-151	SCREW CONVEYOR-2
12	J-152	BUCKET ELEVATOR-2
13	M-160	MIXER-2
14	L-161	POMPA-3
15	F-170	TANGKI PENAMPUNGAN BaCl2
16	J-171	SCREW CONVEYOR-3
17	J-172	BUCKET ELEVATOR-3
18	M-180	MIXER-3
19	L-181	POMPA-4
20	R-210	REAKTOR-1
21	R-220	REAKTOR-2
22	R-230	REAKTOR-3
23	L-221	POMPA-5
24	H-240	CLARIFIER
25	L-241	POMPA-6
26	H-250	FILTER
27	L-251	POMPA-7
28	F-251	TANGKI PENAMPUNGAN HCL
29	R-260	TANGKI NETRALISASI
30	L-261	POMPA-8
31	V-310	EVAPORATOR-1
32	L-311	POMPA-9
33	V-320	EVAPORATOR-2
34	L-323	POMPA-10
35	E-321	BAROMETRIC CONDENSOR
36	G-322	JET EJECTOR
37	S-330	CRYSTALLIZER
38	H-332	CENTRIFUGE
39	J-333	SCREW CONVEYOR
40	B-340	ROTARY DRYER
41	H-343	CYCLONE
42	E-341	FAN UDARA
43	E-342	AIR PRE HEATER
44	J-344	COOLING CONVEYOR
45	C-350	BALLMILL
46	F-350	STORAGE TANK GARAM FARMASI

Digambar Oleh	Indah Dwi Asti	Mengetahui
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FLOWSHEET PRA RANCANGAN PABRIK GARAM FASRMASI DARI AIR LAUT DENGAN PROSES SEDIMENTASI DAN EVAPORASI (MULTIPLE EFFECT EVAPORATOR)		
	PROGRAM STUDI TEKNIK KIMIA FAKULTAS TEKNIK DAN SAINS UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" JAWA TIMUR 2024	