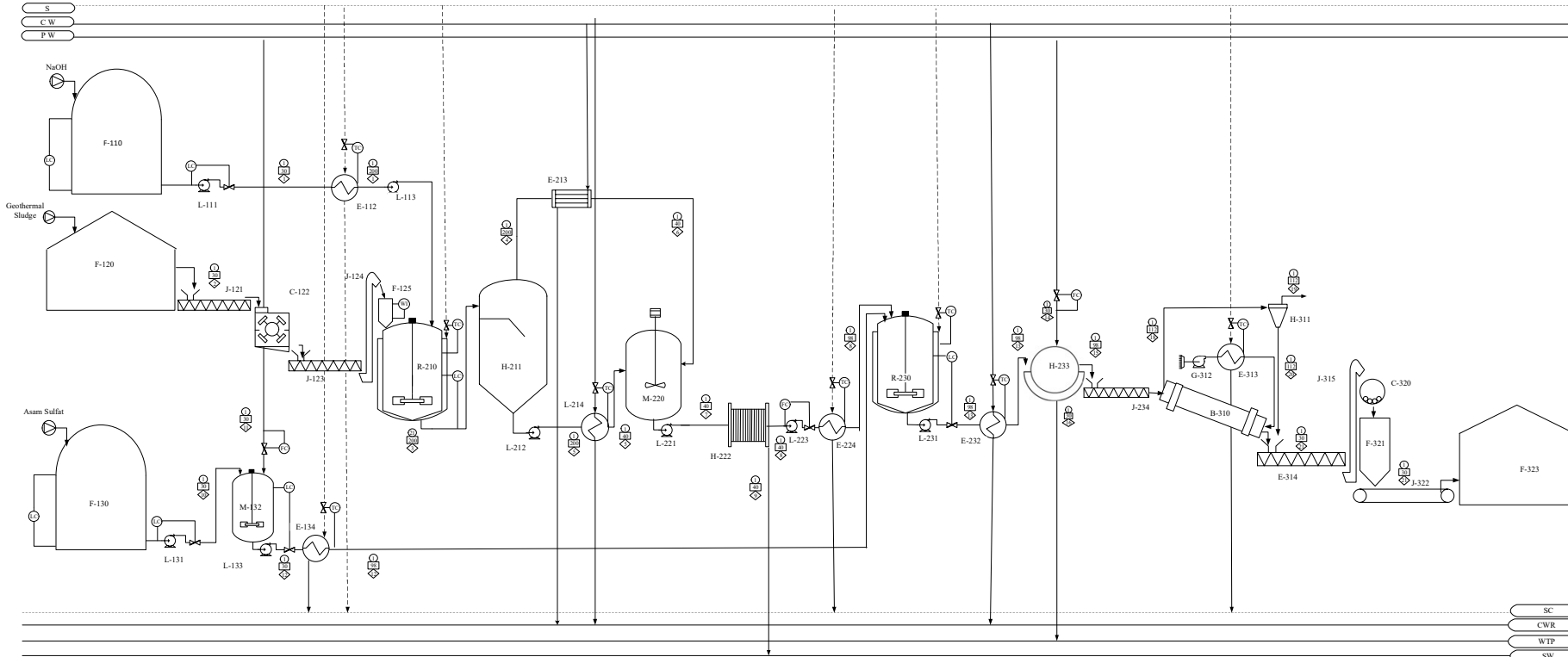


PABRIK SILIKA DARI GEOTHERMAL SLUDGE DENGAN PROSES PRESIPITASI



□	Temperatur, C	SC	Steam Condensat
◇	Aliran massa, kg/jam	CW	Cooling Water
○	Tekanan, atm	CWR	Cooling Water Return
○	Steam	WTP	Waste Treatment Process
○	Process Water	SW	Solid Waste

No	Nama Alat	Kode
1	Storage Tank NaOH	F-110
2	Pompa 1	L-111
3	Heater	E-112
4	Pompa 2	L-113
5	Gudang Geothermal Sludge	F-120
6	Screw Conveyor 1	J-121
7	Hammer Mill	C-122
8	Screw Conveyor 2	J-123
9	Bucket Elevator	J-124
10	Hopper Geothermal Sludge	F-125
11	Reaktor Ekstraksi	R-210
12	Flash Drum	H-211
13	Kondensor	E-213
14	Pompa 3	L-212
15	Cooler	L-214
16	Tangki Homogenisasi	M-220
17	Pompa	L-221
18	Filter Press	H-222
19	Pompa 4	L-223
20	Heater	E-224
21	Storage Tank Asam Sulfat	F-130
22	Pompa 5	L-131
23	Tangki Pengenceran Asam Sulfat	M-132
24	Pompa 6	L-133
25	Heater	E-134
26	Reaktor Presipitasi	R-230
27	Rotary Pump	L-231
28	Cooler	E-232
29	Rotary Drum Vacuum Filter	H-233
30	Screw Conveyor 3	J-234
31	Rotary Dryer	B-310
32	Blower	G-312
33	Cyclone	H-311
34	Heater	E-313
35	Cooling Conveyor	E-314
36	Bucket Elevator	J-315
37	Ball Mill	C-320
38	Silo Produk	F-321
39	Belt Conveyor	J-322
40	Gudang Penyimpanan Produk	F-323

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
Komponen																					
SiO ₂		3078,6607	9,2360		9,2360		9,2360		9,2360												
K ₂ O		16,4533	16,4533		16,4533		16,4533		16,4533												
CaO		46,1957	46,1957		46,1957		46,1957		46,1957												
MnO		4,1133	4,1133		4,1133		4,1133		4,1133												
Fe ₂ O ₃		13,7005	13,7005		13,7005		13,7005		13,7005												
CuO		1,8035	1,8035		1,8035		1,8035		1,8035												
PbO		0,5063	0,5063		0,5063		0,5063		0,5063												
Rb ₂ O		1,2656	1,2656		1,2656		1,2656		1,2656												
Re ₂ O ₃		1,3922	1,3922		1,3922		1,3922		1,3922												
NaOH	4091,2026																				
Na ₂ SiO ₃			6242,1524	12,0830	6230,0694	12,0830	6242,1524	6241,1022	1,0502				36,4027		0,3640	36,0387	0,3604	0,0036	0,0000	0,0036	0,3640
H ₂ SO ₄												4981,6529	4981,6529		72,1831	7146,1302	71,4613	0,7218	0,0072	0,7146	72,1759
Na ₂ SO ₄													7218,3133								
H ₂ O	4091,2026		5011,7232	100,7321	4910,9911	100,7321	5011,7232	5010,8800	0,8432	101,6664	14843,292	14944,9586	20870,8361	4576,5123	208,7084	25238,6401	33,3226	175,3857	175,3857	0,0000	33,3226
Udara																					
Total	8182,4052	3164,0912	11348,5420	112,8151	11235,7269	112,8151	11348,5420	11251,9823	96,5598	5083,3193	14843,2922	19926,6115	31176,5604	4576,5123	3332,2637	32420,8090	3125,6425	206,6213	175,6981	30,9232	3156,5657

FLOWSHET PABRIK SILIKA DARI GEOTHERMAL SLUDGE DENGAN PROSES PRESIPITASI

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