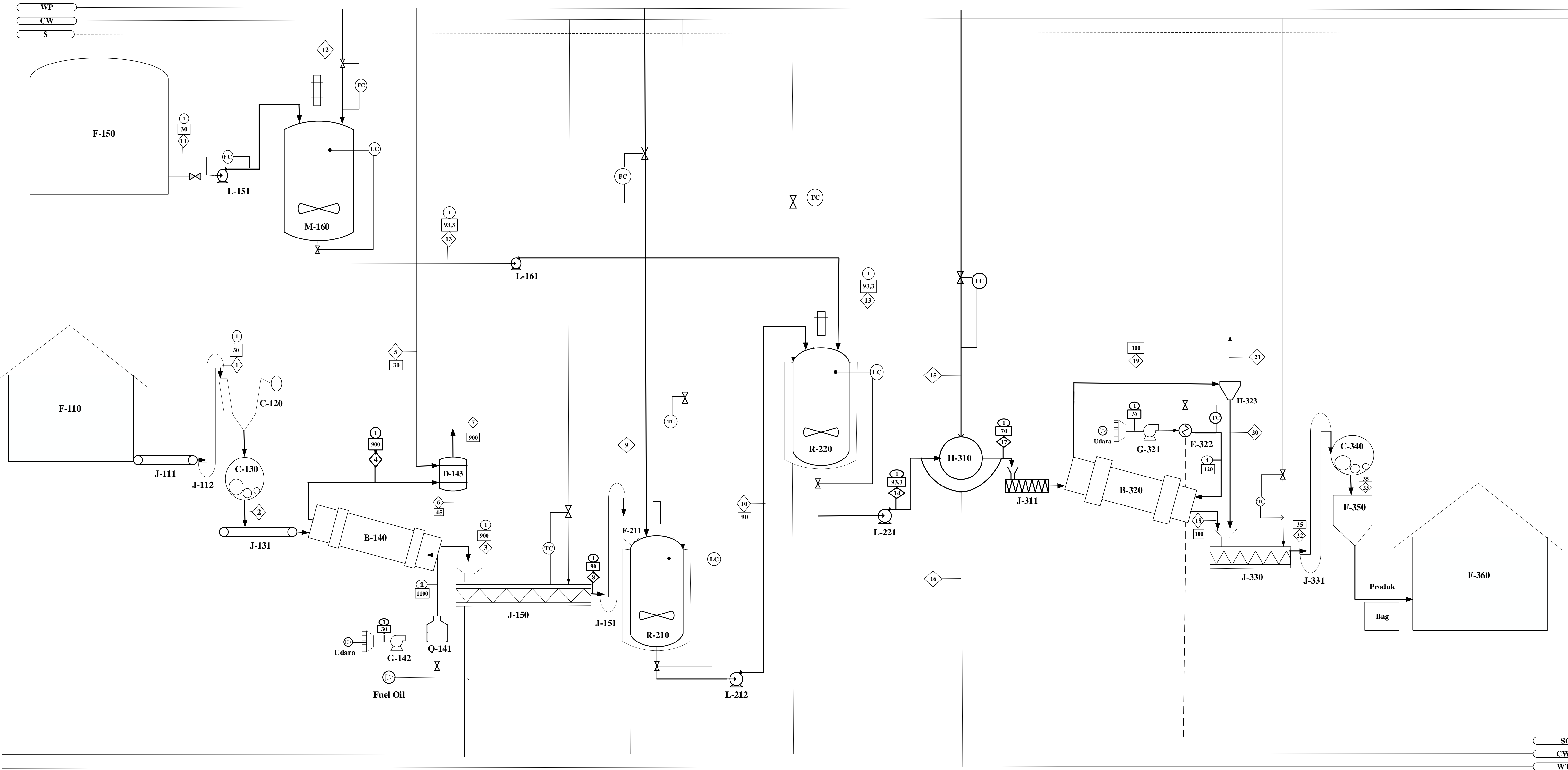


PABRIK GIPSUM DARI BATU KAPUR DAN ASAM SULFAT DENGAN PROSES KALSINASI



	Temperatur : °C
	Tekanan : atm
	Aliran Massa : kg/jam
	Cooling Water
	Proses Water
	Steam
	Cooling Water Return
	Waste Water Treatment
	Steam Condensat

32	F-360	GUDANG PENYIMPANAN PRODUK
31	F-350	SILLO
30	C-340	BALL MILL
29	J-331	BUCKET ELEVATOR - 3
28	J-330	COOLING CONVEYOR
27	H-323	CYCLONE
26	E-322	HEAT EXCHANGER
25	G-321	BLOWER
24	B-320	ROTARY DRYER
23	J-311	SCREW CONVEYOR
22	H-310	ROTARY DRUM VACUM FILTER
21	L-221	POMPA - 4
20	R-220	REAKTOR
19	L-161	POMPA - 3
18	M-160	TANGKI PENGECER H ₂ SO ₄
17	L-151	POMPA - 2
16	F-150	TANGKI PENYIMPANAN H ₂ SO ₄
15	L-212	POMPA - 1
14	R-210	REAKTOR HYDRATOR
13	F-211	HOPPER
12	J-151	BUCKET ELEVATOR - 2
11	J-150	COOLING CONVEYOR
10	D-143	SCRUBBER
9	G-142	BLOWER
8	Q-141	BURNER ROTARY KILN
7	B-140	ROTARY KILN
6	J-131	BELT CONVEYOR - 2
5	C-130	BALL MILL
4	C-120	JAW CRUSHER
3	J-112	BUCKET ELEVATOR - 1
2	J-111	BELT CONVEYOR - 1
1	F-110	GUDANG PENYIMPANAN CaCO ₃

Aliran Massa (Kg/Jam)

Komponen	Aliran	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
CaCO ₃		5,616,4208	5,616,4208																						
MgCO ₃		30,7437	30,7437																						
CaO				3,145,1957					3,145,1957																
MgO				14,6399					14,6399																
CO ₂					2,487,3290		2,474,8924	12,4366																	
Ca(OH) ₂											4,156,1514				207,8076			207,8076	205,7295	2,0781	2,0573	0,0208	207,7868	207,7868	
Mg(OH) ₂											21,2278				1,0614			1,0614	1,0508	0,0106	0,0105	0,00011	1,0613	1,0613	
Fe ₂ O ₃		5,1240	5,1240	5,1240				5,1240	5,1240		5,1240				0,2562			0,2562	0,2536	0,0026	0,0025	0,000026	0,2562	0,2562	
Al ₂ O ₃		2,8466	2,8466	2,8466				2,8466	2,8466		2,8466				0,1423			0,1423	0,1409	0,0014	0,0014	0,000014	0,1423	0,1423	
SiO ₂		28,4664	28,4664	28,4664				28,4664	28,4664		28,4664				28,4664			28,4664	28,1817	0,2847	0,2818	0,0028	28,4636	28,4636	
CaSO ₄ ·2H ₂ O															9,177,2316			9,177,2316	9,085,4593	91,7723	90,8546	0,9177	9,176,3139	9,176,3139	
MgSO ₄															41,7236			41,7236							
Fe ₂ (SO ₄) ₃															12,1694			12,1694	12,0477	0,1217	0,1205	0,0012	12,1682	12,1682	
Al ₂ (SO ₄) ₃															9,0674			9,0674							
H ₂ O		9,6786	9,6786		9,6786	3,1109	3,1109	9,6786			1,221,0524	203,5087	111,1516	5,446,4288	5,557,5804	5,776,6807	3,883,1214	8,261,8785	1,397,9237	519,4930	878,4307		878,4307	519,4930	519,4930
H ₂ SO ₄																									
Total		5,693,2801	5,693,2801	3,196,2725	2,497,0076	3,1109	2,478,0033	22,1152	3,196,2725	1,221,0524	4,417,3250	5,668,7320	5,446,4288	11,115,1607	15,532,4857	3,883,1214	8,435,2236	10,980,3835	10,007,6815	972,7020	93,3286	879,3734	10,101,0101	10,101,0101	

No.	KODE	NAMA ALAT
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PROGRAM STUDI TEKNIK KIMIA		
FAKULTAS TEKNIK		
UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" JAWA TIMUR		
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