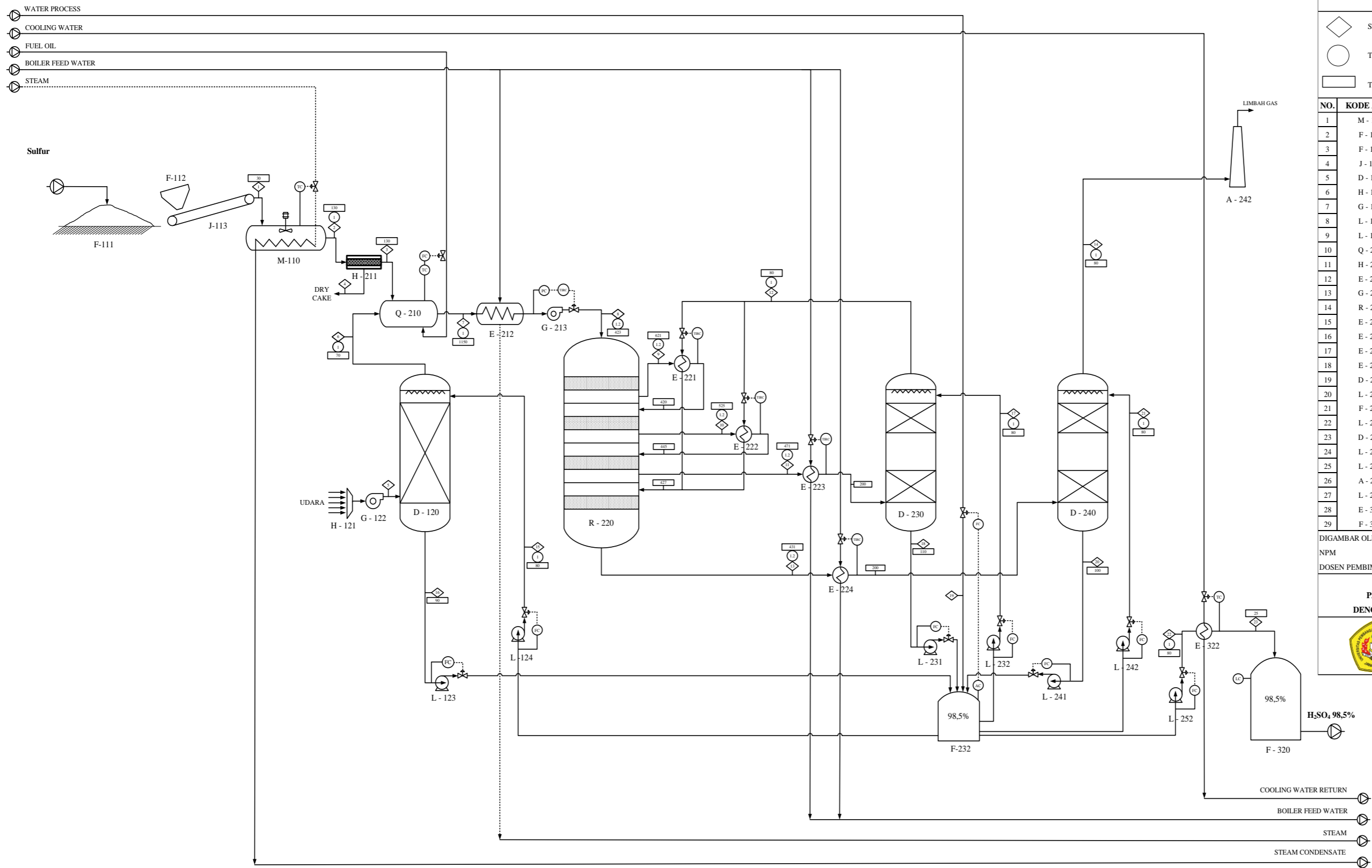


PABRIK ASAM SULFAT DARI SULFUR DAN UDARA DENGAN PROSES *DOUBLE CONTACT DOUBLE ABSORBER*



KETERANGAN			
◇	STREAM	⊕	RAW MATERIAL
○	TEKANAN (atm)	⊖	PRODUK
□	TEMPERATUR (°C)		

NO.	KODE ALAT	NAMA ALAT
1	M - 110	SULFUR MELTER
2	F - 111	SULFUR OPEN STORAGE
3	F - 112	HOPPER
4	J - 113	BELT CONVEYOR
5	D - 120	DRYING TOWER
6	H - 121	AIR FILTER
7	G - 122	BLOWER I
8	L - 123	SULFURIC ACID PUMP I
9	L - 124	CIRCULATION PUMP I
10	Q - 210	FURNACE
11	H - 211	SULFUR FILTER
12	E - 212	WASTE HEAT BOILER
13	G - 213	BLOWER II
14	R - 220	CONVERTER
15	E - 221	HEAT EXCHANGER I
16	E - 222	HEAT EXCHANGER II
17	E - 223	ECONOMIZER I
18	E - 224	ECONOMIZER II
19	D - 230	ABSORBER I
20	L - 231	SULFURIC ACID PUMP II
21	F - 232	CIRCULATION TANK
22	L - 232	CIRCULATION PUMP II
23	D - 240	ABSORBER II
24	L - 241	SULFURIC ACID PUMP III
25	L - 242	CIRCULATION PUMP III
26	A - 242	STACK
27	L - 252	SULFURIC ACID PUMP IV
28	E - 322	COOLER
29	F - 320	SULFURIC ACID STORAGE TANK

DIGAMBAR OLEH : DEVITA SALSA GUNAWAN
 NPM : 19031010013
 DOSEN PEMBIMBING : IR. ELY KURNIATI, MT

FLOW SHEET
PABRIK ASAM SULFAT DARI SULFUR DAN UDARA
DENGAN PROSES *DOUBLE CONTACT DOUBLE ABSORBER*

PROGRAM STUDI TEKNIK KIMIA
 FAKULTAS TEKNIK
 UPN "VETERAN" JAWA TIMUR
 2023

STREAM NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
STREAM NAME	SOLID SULFUR	SULFUR MOLTEN	FILTERED SULFUR	DRY CAKE	ATMOSPHER AIR	DRY AIR	SO ₂ GAS	SO ₂ GAS INLET CONVERTER	CONVERTER BED I OUTLET	CONVERTER BED II OUTLET	CONVERTER BED III OUTLET	GAS ABSORBER I OUTLET	CONVERTER BED IV OUTLET	TAIL GAS	98,5% H ₂ SO ₄ INLET	97% H ₂ SO ₄ OUTLET	98,5% H ₂ SO ₄ INLET	99,99% H ₂ SO ₄ OUTLET	PROCESS WATER	99,99% H ₂ SO ₄ OUTLET	98,5% H ₂ SO ₄ INLET COOLER	98,5% H ₂ SO ₄ INLET	98,5% H ₂ SO ₄ PRODUCT	
KOMPONEN	BM	(Kg/Jam)																						
S	32.06	1626.6402	1626.6402	1626.6402																				
Imp (C)	12.01	3.2598	3.2598		3.2598																			
O ₂	32.00				4567.8319	4567.8319	2944.2359	2944.2359	2380.0363	2148.0367	2132.7811	2132.7811	2132.4380	2132.4380										
N ₂	28.20				17183.7485	17183.7485	17183.75	17183.7485	17183.7485	17183.7485	17183.7485	17183.7485	17183.7485	17183.7485										
SO ₂	64.06						3250.2362	3250.2362		62.4533	1.3740	1.3740	0.0003	0.0003										
SO ₃	80.06									2823.1137	3983.9822	4060.3170	4.0603	5.7771										
H ₂ SO ₄	98.08														7033.0110	7033.0110	60012.8308	64982.0746		92.4581	85.3877	4976.3141	4976.3141	
H ₂ O	18.02				108.7579										108.7579	217.5158	913.9010	0.9139	879.6534	0.0013	1.3003	74.1252	74.1252	
Total		1629.9000	1629.9000	1626.6402	3.2598	21860.3383	21751.5804	23378.2206	23378.2206	23378.2206	23378.2206	19321.9640	19321.9640	19316.1926	7141.7689	7250.5268	60926.7318	64982.9885	879.6534	92.4594	86.6880	5050.4393	5050.4393	