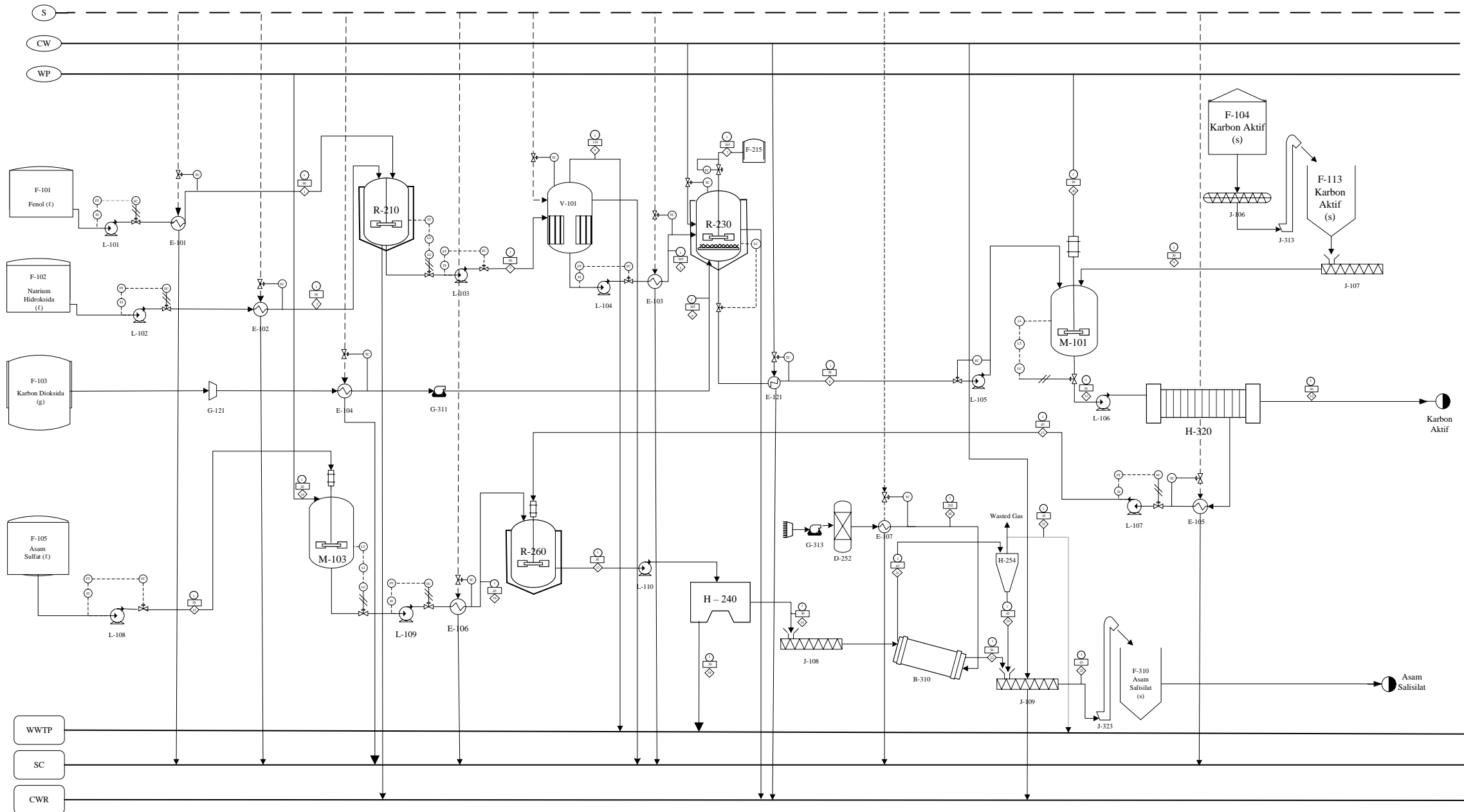


# PABRIK ASAM SALISILAT BERBAHAN BAKU FENOL DENGAN PROSES KOLBE - SCHMITT



Keterangan	
	Tekanan
	Temperature Control
	Aliran Massa
	Steam
	Water Process
	Cooling Water
	Waste Water Treatment Plant
	Steam Condensat
	Cooling Water Return

46	F-310	Silo Asam Salisilat
45	J-323	Bucket Elevator - 2
44	J-109	Cooling Screw Conveyor
43	H-254	Cyclone
42	B-310	Rotary Dryer
41	E-107	Heater - 7
40	D-252	Molecular Sieve Tray
39	G-313	Blower - 2
38	J-108	Screw Conveyor - 2
37	H-240	Centrifuge
36	L-110	Pompa - 10
35	R-260	Tangki Presipitasi
34	E-106	Heater - 6
33	L-109	Pompa - 9
32	M-103	Tangki Pengenceran
31	L-108	Pompa - 8
30	F-105	Tangki Penampung H <sub>2</sub> SO <sub>4</sub>
29	L-107	Pompa - 7
28	E-105	Heater - 5
27	H-320	Filter Press
26	L-106	Pompa - 6
25	M-101	Tangki Dekolorasi
24	J-107	Screw Conveyor - 1
23	F-113	Hopper Karbon Aktif
22	J-313	Bucket Elevator - 1
21	J-106	Belt Conveyor
20	F-104	Gudang Karbon Aktif
19	E-121	Cooler - 1
18	L-105	Pompa - 5
17	F-215	Gas Holder
16	R-230	Reaktor II
15	G-311	Blower - 1
14	E-104	Heater - 4
13	G-121	Expander
12	F-103	Tangki Penampung CO <sub>2</sub>
11	E-103	Heater - 3
10	L-104	Pompa - 4
9	V-101	Evaporator
8	L-103	Pompa - 3
7	R-210	Reaktor Natrium Fenolat
6	E-102	Heater - 2
5	L-102	Pompa - 2
4	F-102	Tangki Penampung NaOH
3	E-101	Heater - 1
2	L-101	Pompa - 1
1	F-101	Tangki Penampung Fenol
NO	KODE	NAMA ALAT

Komponen	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	22	23	24	25	
Phenol	4987,8602		598,5432		598,5432		598,5432																			
Air	30,1078	2299,3682	3169,9835	3011,4843	158,4992	1,2799	159,7791			5936,1686	5936,1686	1187,2337	4748,9349	1278,3783	39,5375	1317,9158	5626,0079	5513,4877	112,5202		111,9576	0,5626	111,9576		0,5626	
Natrium Hidroksida		2122,494	254,6992		254,6992			254,6992				254,6992	50,9398	203,7594					4,0752		4,055	0,0204	4,0548		0,0204	
Natrium Fenolat			5416,6040		5416,6040			54,1660				54,1660	10,8332	43,3328				43,3328	42,4662	0,8667		0,0173	0,8493	0,0173	0,8493	
Karbon Dioksida						2237,4310	159,7791													171221,87	171221,8656					
Natrium Salisilat																						0,0237	1,1598	0,0237		1,1597
Karbon Aktif									124,6965				124,6965	124,6965												
Asam Sulfat																1976,8737	1976,8737	1315,6094	1289,2972	26,3122		26,1806	0,1316	26,1806		0,1316
Natrium Sulfat																		2599,4880	2547,4983	51,9898		51,7298	0,2599	51,7298		0,2599
Asam Salisilat																		5052,5260		5052,526		101,0505	4951,4755	2,0210	99,0295	5050,5050
<b>Total</b>	<b>5017,9681</b>	<b>4421,8619</b>	<b>9439,8300</b>	<b>3011,4843</b>	<b>6428,3456</b>	<b>2238,7109</b>	<b>918,1014</b>	<b>7705,3314</b>	<b>124,6965</b>	<b>5936,1686</b>	<b>13766,197</b>	<b>2852,9965</b>	<b>10913,200</b>	<b>1278,3783</b>	<b>2016,4111</b>	<b>3294,7895</b>	<b>14899,895</b>	<b>9650,4219</b>	<b>5249,473</b>	<b>171221,87</b>	<b>171516,8799</b>	<b>4954,4591</b>	<b>195,9848</b>	<b>99,0295</b>	<b>5053,4885</b>	

**PRA-RENCANA PABRIK ASAM SALISILAT  
BERBAHAN BAKU FENOL DENGAN  
PROSES KOLBE - SCHMITT**

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 : **18031010216**

DOSEN PEMBIMBING :  
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