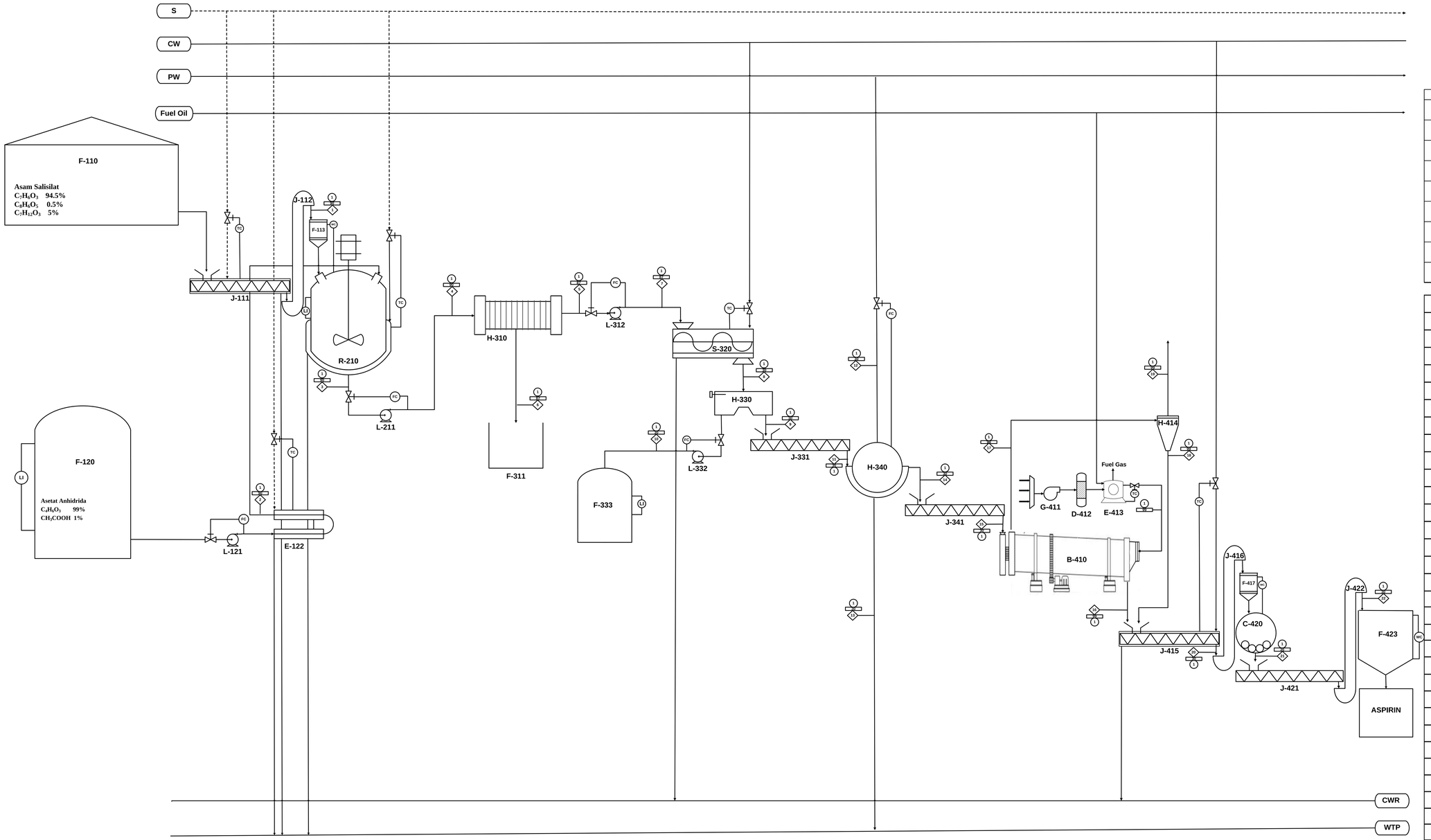
FLOWSHEET PABRIK ASAM ASETILSALISILAT(ASPIRIN) DARI ASAM SALISILAT DAN ASETAT ANHIDRIDA DENGAN PROSES ASETILASI KAPASITAS 80.000 TON/TAHUN



KETERANGAN		
	Temperatur; (°C)	WC : Weight Capacity
	Aliran Massa; kg/jam	FC : Flow Control
	Tekanan; atm	LI : Level Indicator
S	Steam	TC : Temperatur Control
SC	Steam Condensate	LC : Level Control
CW	Cooling Water	PC : Pressure Control
CWR	Cooling Water Return	
PW	Process Water	
WTP	Waste Treatment Plant	

NO	KODE ALAT	NAMA ALAT
1	F-110	Tangki Penampumg Asam Salisilat
2	J-111	Heating Conveyor
3	J-112	Bucket Elevator-1
4	F-113	Hopper-1
5	F-120	Tangki Penampung Asetat Anhidrida
6	L-121	Pompa-1
7	E-122	Heater
8	R-210	Reaktor
9	L-211	Pompa-2
10	H-310	Filter Press
11	F-311	Bak Penampung Cake
12	L-312	Pompa-3
13	S-320	Crystalizer
14	H-330	Centrifuge
15	J-331	Screw Conveyor-1
16	L-332	Pompa-4
17	F-333	Tangki Asam Asetat
18	H-340	Rotary Drum Vacuum Filter
19	J-341	Screw Conveyor-2
20	B-410	Rotary Dryer
21	G-411	Blower
22	D-412	Molecular Sieve Dryer
23	E-413	Burner
24	H-414	Cyclone
25	J-415	Rotary Dryer
26	J-416	Bucket Elevator-2
27	F-417	Hopper-2
28	C-420	Ball Mill
29	J-421	Screw Conveyor-3
30	J-422	Bucket Elevator-3
31	F-423	Silo Penyimpanan Produk Aspirin

Komponen	Aliran (Kg/jam)																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
$C_7H_6O_{3(s)}$	8743,4658		738,6091	738,6091	738,6091	705,5064	53,1026	53,1026	53,1026		53,1026		53,1026									
$C_6H_6O_{5(s)}$	46,2618		46,2618	46,2618	46,2618	43,0235	3,2383	3,2383	3,2383		3,2383		3,2383									
$C_7H_{12}O_{3(s)}$	462,6183		462,6183	462,6183	462,6183	430,2350	32,3833	32,3833	32,3833		32,3833		32,3833									
$C_4H_6O_{3(l)}$		7004,5352	1102,7493	1102,7493	1102,7493	21,5781	1081,1712	1081,1712	108,1171	973,0541	108,1171		108,1171									
$C_2H_4O_{2(l)}$		70,7534	3542,4128	3542,4128	3542,4128	69,3163	3473,0965	3473,0965	347,3096	3125,7868	347,3096		347,3096									
$C_9H_8O_{4(l)}$			1041,5633	1041,5633	1041,5633	208,7969	1021,2364	2,9284		2,6356			116,6027									
$C_9H_8O_{4(s)}$								1020,3280	1020,6209		1020,6209			1009,2082	1009,2082	999,1080	100,9202	99,9110	1,0092	1009,1090	1009,1090	1009,1090
$H_2O_{(l)}$												3498,8016	3148,7214	3498,8012	3498,8012	10,0011				10,0011	10,0011	10,0011
$H_2O_{(g)}$																	348,0791		348,0791			
Total	9252,3369	7075,3386	16327,7045	16327,7045	16327,7045	1473,4662	14854,2483	14854,2483	10752,7719	4101,4765	10752,7719	3498,8016	32143,4751	13590,0984	13590,0984	1000,0991	3588,9992	99,9110	3489,0883	10101,0101	10101,0101	10101,0101

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