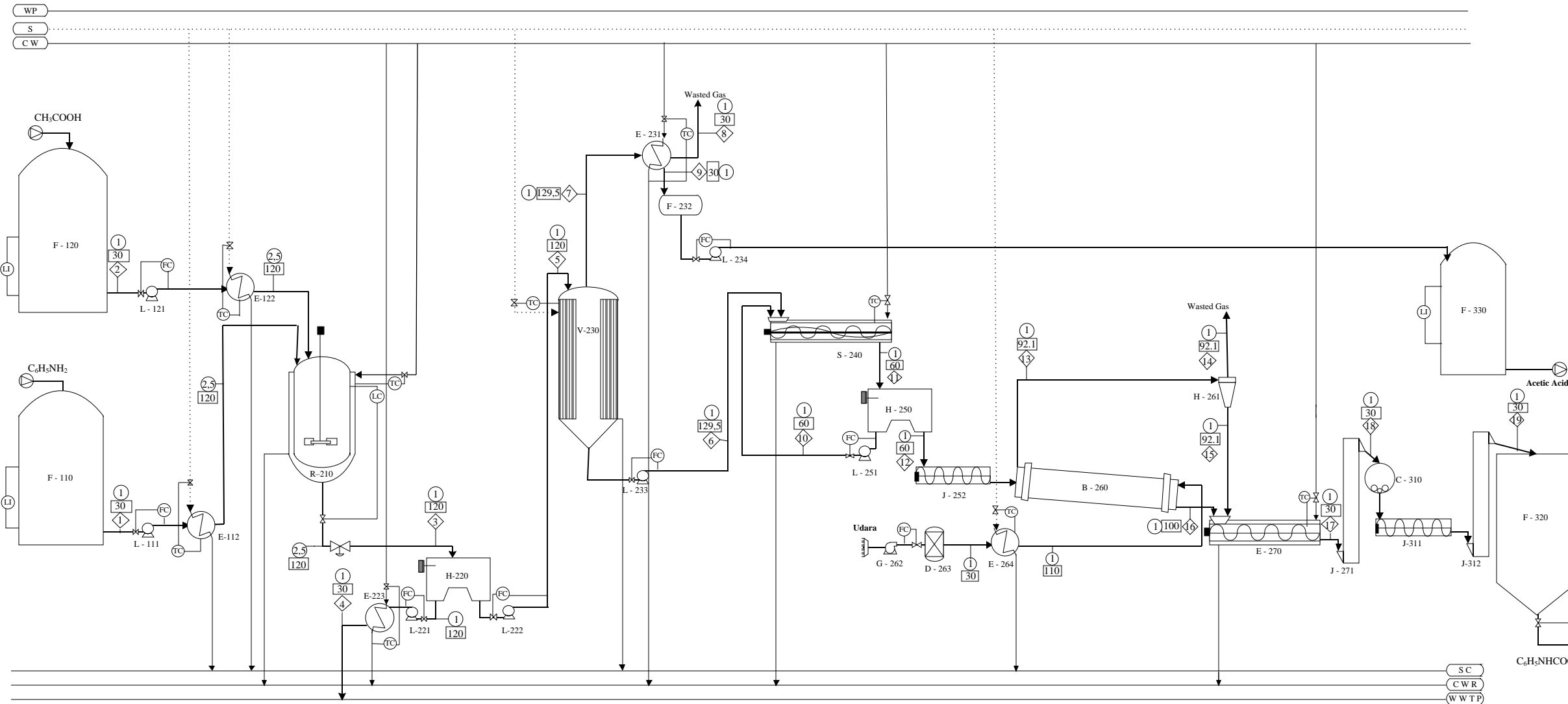


FLOWSHEET PRA RENCANA PABRIK N-PHENYLACETAMIDE DARI ANILINE DAN ACETIC ACID DENGAN CRYSTALLIZATION PROCESS



KETERANGAN :

	Temperatur ; °C
	Aliran Massa ; kg/jam
	Tekanan ; atm
	Water Process
	Steam
	Cooling Water
	Steam Condensate
	Cooling Water Return
	Waste Water Treatment Proses

No.	Nama Alat	Kode Alat
1	Tanki Penampung Aniline	F-110
2	Tanki Penampung Acetic Acid	F-120
3	Pompa 1	L-111
4	Pompa 2	L-121
5	Heater 1	E-112
6	Heater 2	E-122
7	Reaktor	R-210
8	Centrifuge 1	H-220
9	Pompa 3	L-221
10	Pompa 4	L-222
11	Cooler	E-223
12	Evaporator	V-230
13	Kondensor	E-231
14	Akumulatur	F-232
15	Pompa 5	L-234
16	Tanki Acetic Acid	F-330
17	Pompa 6	L-233
18	Crystallizer	S-240
19	Centrifuge 2	H-250
20	Pompa 7	L-251
21	Screw Conveyor	J-252
22	Rotary Dryer	B-260
23	Cyclone	H-261
24	Blower	G-262
25	Moleculer Sieve	D-263
26	Heater 3	E-264
27	Cooling Screw Conveyor	E-270
28	Bucket Elevator 1	J-271
29	Ball Mill	C-310
30	Screw Conveyor	J-311
31	Bucket Elevator 2	J-312
32	Tanki Penyimpanan N-Phenylacetamide	F-320

Aliran Massa (Kg/Jam)

Komponen	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
C ₆ H ₅ NH ₂	4628,8175		462,8818	360,1972	102,6845	102,6845				86,1607	188,8452	30,3887	0,3039	0,3008	0,0030	30,0848	30,0879	30,0879	30,0879
CH ₃ COOH		5972,6678	3284,9673		3284,9673	328,4967			2956,2426	240,2132	568,7100	152,8408	1,5284	1,5131	0,0153	151,3124	151,3277	151,3277	151,3277
C ₆ H ₅ NHCOCH ₃			6047,3262		6047,3262	6047,3262				646,1341	1362,7013	169,6389							
H ₂ O	4,6335	11,9693	822,9129	740,6216	82,2913	8,2291			74,0544	7,4062	15,6353	1,5635	1,0189	1,0088	0,0102	0,5446	0,5548	0,5548	0,5548
CH ₃ COOH _(g)							2956,4706	0,2280											
C ₆ H ₅ NHCOCH ₃ (s)											5330,7590	5330,7590	55,0040	0,5500	54,4539	5445,3939	5499,8478	5499,8478	5499,8478
H ₂ O _(g)							74,0622	0,0077											
Total	4633,4510	5984,6371	10618,0881	1100,8188	9517,2693	6486,7365	3030,5327	0,2357	3030,2970	979,9142	7466,6508	5685,1909	57,8552	3,3728	54,4825	5627,3357	5681,8182	5681,8182	5681,8182

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FLOWSHEET PRA PERANCANGAN PABRIK N-PHENYLACETAMIDE DARI ANILINE DAN ACETIC ACID DENGAN CRYSTALLIZATION PROCESS

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 2024