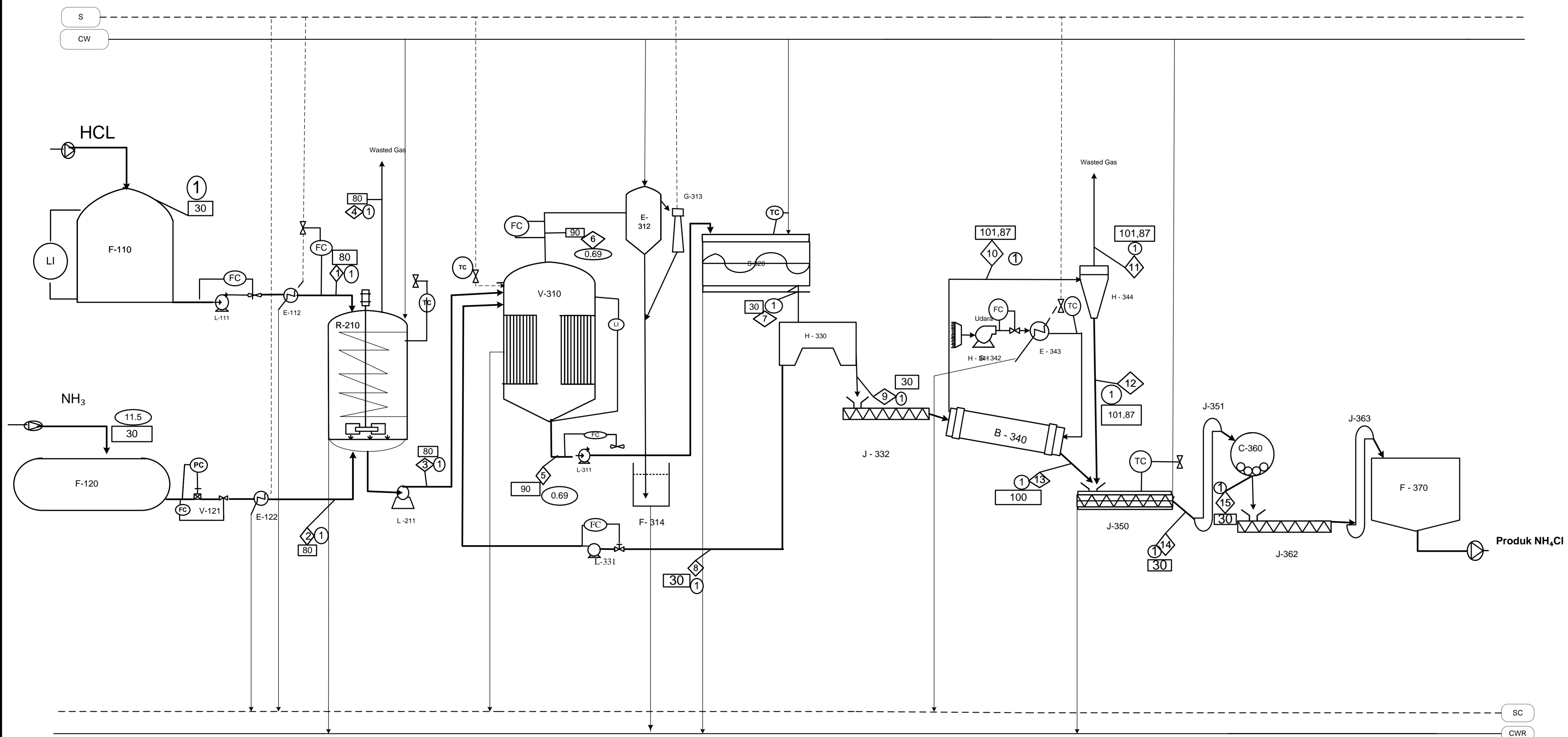


# FLOWSHEET PABRIK SAL AMONIAK DARI HCL DAN AMONIA DENGAN PROSES DIRECT



**KETERANGAN :**

	Temperatur : °C
	Aliran Massa : Kg/jam
	Tekanan : atm
	Steam : 148 °C ; 4,5 atm
	Steam Condensate
	Cooling Water
	Cooling Water Return

NO	KODE	NAMA ALAT
1	F-110	Tangki Penampung HCl
2	L-111	Pompa-1
3	E-112	Heat Exchanger-1
4	F-120	Tangki Penampung NH <sub>3</sub>
5	V-121	Expantion Valve
6	E-122	Heat Exchanger-2
7	R-210	Reaktor
8	L-211	Pompa-2
9	V-310	Evaporator
10	L-311	Pompa-3
11	E-312	Barometric Condensor
12	G-313	Steam Ejector
13	F-314	Hot Well
14	S-320	Crystallizer
15	H-330	Centrifuge
16	L-331	Pompa-4
17	J-332	Screw Conveyor
18	B-340	Rotary Dryer
19	H-341	Air Filter
20	G-342	Blower
21	E-343	Heat Exchanger-3
22	H-344	Cyclone
23	J-350	Cooling Conveyor
24	J-351	Bucket Elevator
25	C-360	Ball Mill
26	J-362	Screw Conveyor
27	J-363	Bucket Elevator
28	F-370	Silo NH <sub>4</sub> Cl

DIGAMBAR : Achmad Hanifa  
 NPM : 1631010196  
 DOSEN PEMBIMBING : Ir. Lucky Indrati Utami, M.T.

KOMPONEN	Aliran ( Kg / Jam )														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
H <sub>2</sub> O	15490,583	17,105	15507,688		8610,152	12915,227	8610,152	6017,691	2592,460	2582,075	2582,075		10,385	10,385	10,385
HCl	7289,686			145,794											
NH <sub>3</sub>		3403,985		68,080											
NH <sub>4</sub> Cl			10479,798		15369,428		15369,428	4889,630	10479,798	104,798	1,048	103,750	10375	10478,75	10478,750
Udara										80813,643	80813,643				
<b>TOTAL</b>	<b>22780,268</b>	<b>3421,091</b>	<b>25987,486</b>	<b>213,873</b>	<b>23979,579</b>	<b>12915,227</b>	<b>23979,579</b>	<b>10907,321</b>	<b>13072,258</b>	<b>83500,516</b>	<b>83396,77</b>	<b>103,750</b>	<b>10385,39</b>	<b>10489,135</b>	<b>10489,135</b>

**FLOW SHEET**  
**PABRIK SAL AMONIAK DARI HCL DAN AMONIA**  
**DENGAN PROSES DIRECT**

JURUSAN TEKNIK KIMIA  
 FAKULTAS TEKNIK  
 UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN"  
 JAWA TIMUR  
 2022

