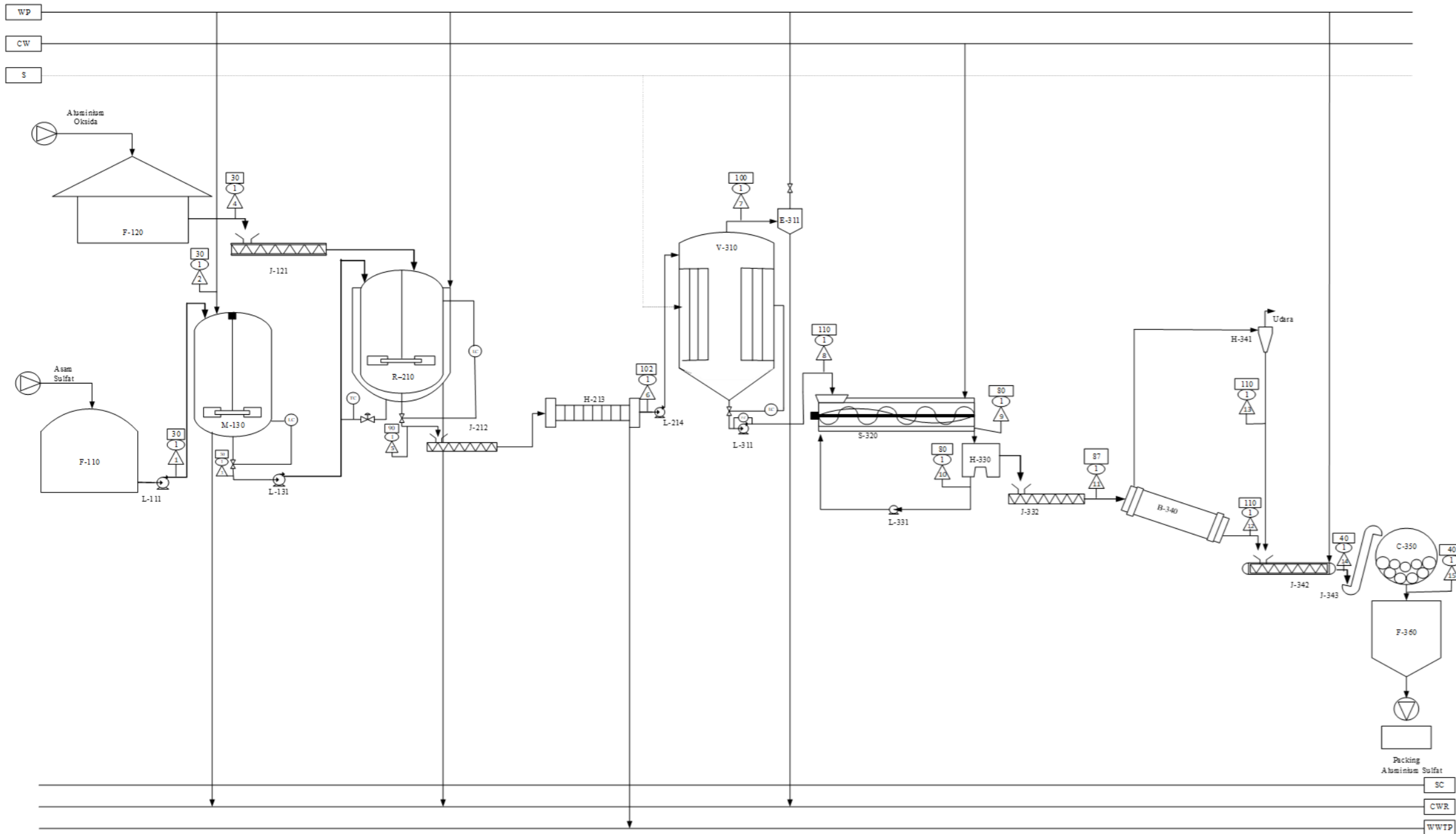


# FLOWSHEET PRA RENCANA PABRIK ALUMINIUM SULFAT DARI ALUMINIUM OKSIDA DAN ASAM SULFAT DENGAN PROSES WET



KETERANGAN	
	Temperature
	Aliran Massa
	Tekanan
	Water Process
	Cooling Water
	Steam
	Steam Condensat
	Cooling Water Return
	Waste Water Treatment
	Flow Controller
	Level Controller
	Temperature Controller
	Pressure Controller

22	F-360	Silo Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>
21	C-350	Ball Mill
20	J-343	Bucket Elevator
19	H-341	Cyclone
18	J-342	Cooling Screw Conveyor
17	B-340	Rotary dryer
16	J-332	Screw Conveyor - 3
15	L-331	Pompa - 4
14	H-330	Centrifuge
13	S-320	Crystallizer
12	V-310	Evaporator
11	L-214	Pompa-3
10	H-213	Filter Press
9	J-212	Screw Conveyor -2
8	R-210	Reaktor
7	L-221	Heat Exchanger
6	L-131	Pompa -2
5	M-130	Tangki Pengenceran H <sub>2</sub> SO <sub>4</sub>
4	L-111	Pompa -1
3	F-110	Tangki Penyimpanan H <sub>2</sub> SO <sub>4</sub>
2	J-121	Screw Conveyor - 1
1	F-120	Gudang Penyimpanan Al <sub>2</sub> O <sub>3</sub>

Component	Stream No.														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
H <sub>2</sub> SO <sub>4</sub>	26532.3483		26532.3483		4864.2639	4863.9287		4863.9287	9630.5789	9437.9673	192.6116	12.1106		12.1106	12.1106
H <sub>2</sub> O	541.4765	13126.7029	13668.1794		17648.0317	17646.8157		11938.7341	23638.6936	23165.9197	472.7739	29.7260		29.7260	29.7260
H <sub>2</sub> O (g)								5708.0816							
Al <sub>2</sub> O <sub>3</sub>				7670.9170	153.4183										
Na <sub>2</sub> O				7.6786	7.6786										
Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (aq)					25205.7309	25203.9942		25203.9942	8317.3181	8150.9717					
Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (s)									21003.3285		21169.6749	20876.4684	208.7647	21085.2331	21085.2331
<b>Total</b>	<b>27073.8248</b>	<b>13126.7029</b>	<b>40200.5277</b>	<b>7678.5956</b>	<b>47879.1233</b>	<b>47714.7387</b>	<b>5708.0816</b>	<b>42006.6571</b>	<b>62589.9190</b>	<b>40754.8587</b>	<b>21835.0603</b>	<b>20918.3050</b>	<b>208.7647</b>	<b>21127.0697</b>	<b>21127.0697</b>

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