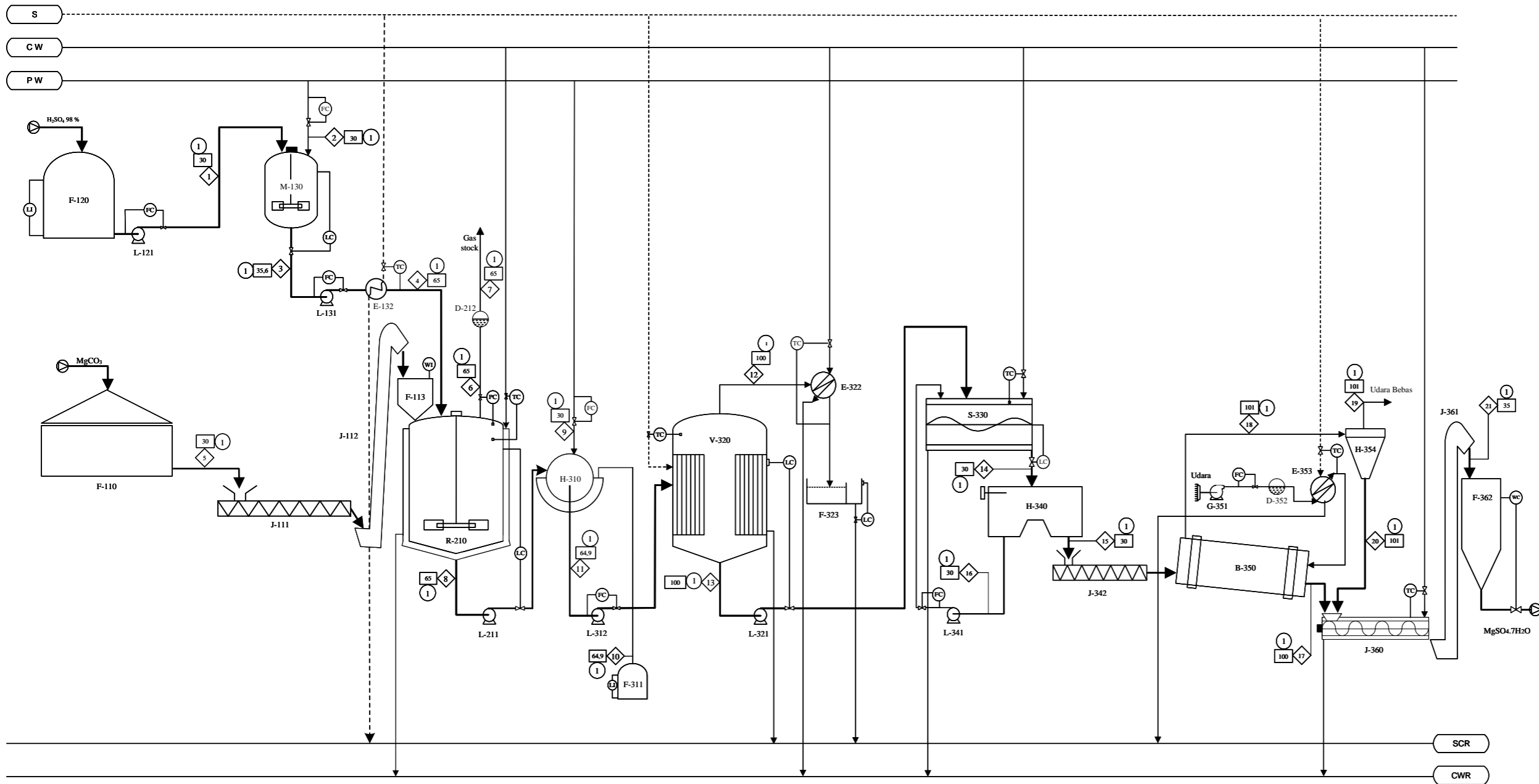


# PABRIK MAGNESIUM SULFAT HEPTAHIDRAT DARI MAGNESIUM KARBONAT DAN ASAM SULFAT DENGAN PROSES KRISTALISASI



**KETERANGAN :**

<span style="border: 1px solid black; padding: 2px;"> </span>	Temperatur ; °C
<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span>	Aliran Massa ; kg/jam
<span style="border: 1px solid black; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span>	Tekanan ; atm
<span style="border: 1px solid black; border-radius: 15px; padding: 2px;">S</span>	Steam
<span style="border: 1px solid black; border-radius: 15px; padding: 2px;">SCR</span>	Steam Condensate Return
<span style="border: 1px solid black; border-radius: 15px; padding: 2px;">CW</span>	Cooling Water
<span style="border: 1px solid black; border-radius: 15px; padding: 2px;">CWR</span>	Cooling Water Return
<span style="border: 1px solid black; border-radius: 15px; padding: 2px;">PW</span>	Process Water

NO	KODE	NAMA ALAT
1	F-110	GUDANG MAGNESIUM KARBONAT
2	J-111	SCREW CONVEYOR - 1
3	J-112	BUCKET ELEVATOR - 1
4	F-113	HOPPER MAGNESIUM KARBONAT
5	F-120	TANGKI PENAMPUNG ASAM SULFAT 98%
6	L-121	POMPA - 1
7	M-130	TANGKI PENGECER ASAM SULFAT
8	L-131	POMPA - 2
9	E-132	HEATER - 1 ASAM SULFAT
10	R-210	REAKTOR
11	L-211	POMPA - 3
12	D-212	MOLECULAR SIEVE-1
13	H-310	ROTARY DRUM VACUUM FILTER
14	F-311	TANGKI PENAMPUNG CAKE
15	L-312	POMPA - 4
16	V-320	EVAPORATOR
17	L-321	POMPA - 5
18	E-322	KONDENSOR
19	F-323	HOT WELL
20	S-330	CRYSTALLIZER
21	H-340	CENTRIFUGE
22	L-341	POMPA - 6
23	J-342	SCREW CONVEYOR - 2
24	B-350	ROTARY DRYER
25	G-351	BLOWER
26	D-352	MOLECULAR SIEVE-2
27	E-353	HEATER - 2 UDARA
28	H-354	CYCLONE
29	J-360	COOLING CONVEYOR
30	J-361	BUCKET ELEVATOR - 2
31	F-362	SILO MgSO <sub>4</sub> ·7H <sub>2</sub> O

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	
MgCO <sub>3</sub>					3298,3225			65,9665		65,9665												
SiO <sub>2</sub>					33,3164			33,3164		33,3164												
H <sub>2</sub> SO <sub>4</sub>	3837,0238		3837,0238	3837,0238				76,7405		0,0237	76,7167		76,7167	83,8285	4,1914	79,6371	4,1495	0,0419	0,0004	0,0415	4,1910	
H <sub>2</sub> O	78,30661	11432,7648	11511,0714	11511,0714				12201,5557	20,9017	24,6758	12197,7816	5519,2800	6678,5016	1919,6125	95,9806	1823,6319	9,4711	86,5096	86,5096		9,4711	
CO <sub>2</sub>						1686,9134	16,8691															
MgSO <sub>4</sub>								4615,2417		1,4276	4613,8141		4613,8141	92,4474	4,6224	87,8250	4,5761	0,0462	0,0005	0,0458	4,6219	
MgSO <sub>4</sub> ·7H <sub>2</sub> O														9452,3582	9452,3582		9357,8347	94,5236	0,9452	93,5783	9451,4130	
<b>TOTAL</b>	3915,3304	11432,7648	15348,0951	15348,0951	3331,6389	1686,9134	16,8691	16992,8207	20,9017	125,4099	16888,3124	5519,2800	11369,0325	11548,2467	9557,1527	1991,0940	9376,0314	181,1213	87,4557	93,6656	9469,6970	

**FLOWSHEET PABRIK MAGNESIUM SULFAT HEPTAHIDRAT (MgSO<sub>4</sub>·7H<sub>2</sub>O) DARI MAGNESIUM KARBONAT DAN ASAM SULFAT DENGAN PROSES KRISTALISASI**

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