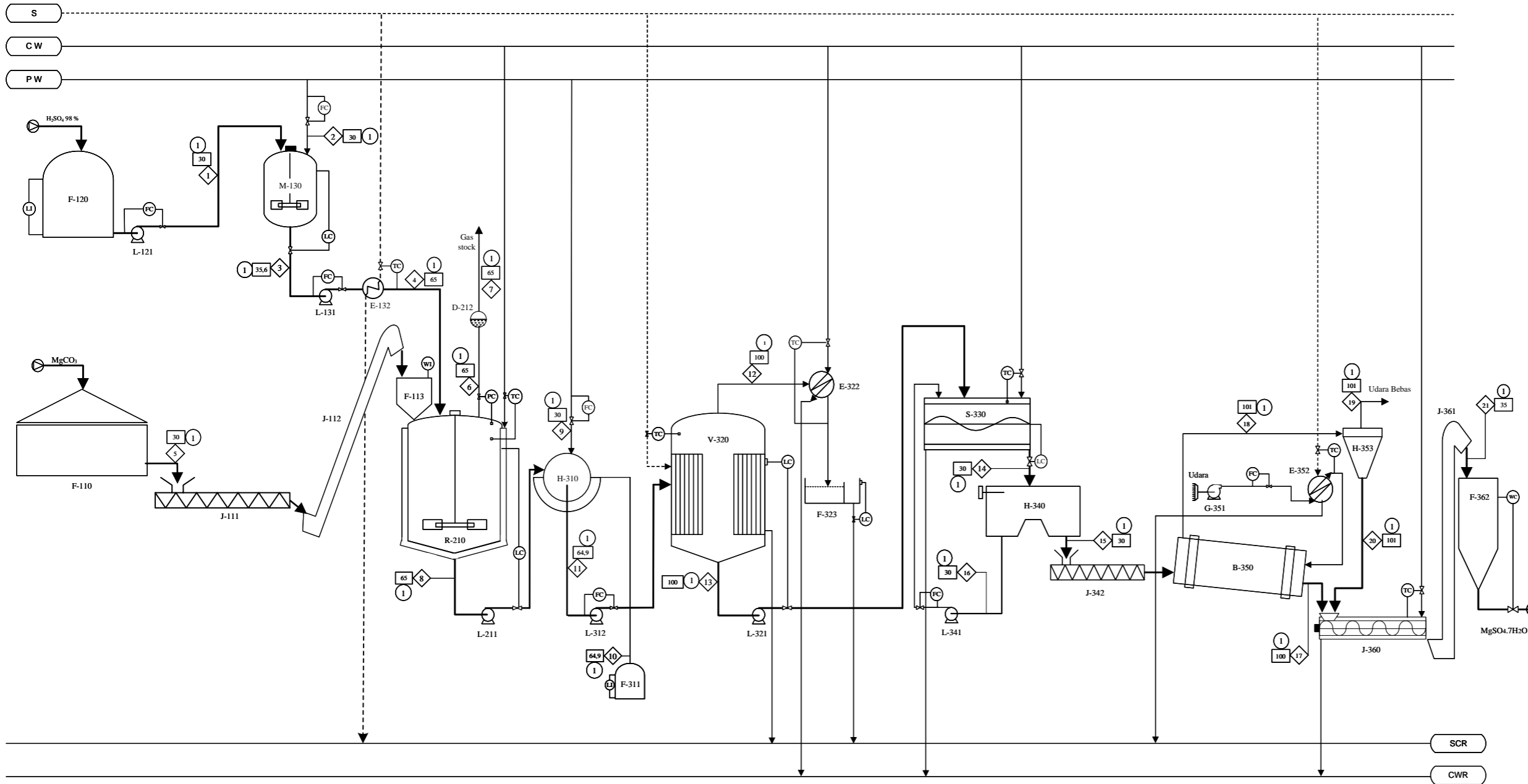


PABRIK MAGNESIUM SULFAT HEPTAHIDRAT DARI MAGNESIUM KARBONAT DAN ASAM SULFAT



KETERANGAN :

	Temperatur ; °C
	Aliran Massa ; kg/jam
	Tekanan ; atm
S	Steam
S C R	Steam Condensate Return
C W	Cooling Water
C W R	Cooling Water Return
P W	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
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	E-352	HEATER - 2 UDARA
27	H-353	CYCLONE
28	J-360	COOLING CONVEYOR
29	J-361	BUCKET ELEVATOR - 2
30	F-362	SILO MgSO ₄ .7H ₂ 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 ₃					3300,5214			66,0104		66,0104											
SiO ₂					33,3386			33,3386		33,3386											
H ₂ SO ₄	3839,5818		3839,5818	3839,5818				76,7916		0,0238	76,7679		76,7679	83,8844	4,1942	79,6902	4,1523	0,0419	0,0004	0,0415	4,1938
H ₂ O	78,3588123	11440,3866	11518,7454	11518,7454				12209,6901	20,9156	24,6922	12205,9134	5522,9595	6682,9539	1920,8923	96,0446	1824,8477	9,4774	86,5672	86,5672		9,4774
CO ₂						1688,0380	16,8804														
MgSO ₄								4618,3185		1,4285	4616,8900		4616,8900	92,5090	4,6254	87,8835	4,5792	0,0463	0,0005	0,0458	4,6250
MgSO ₄ .7H ₂ O														9458,6598	9458,6598		9364,0732	94,5866	0,9459	93,6407	9457,7139
TOTAL	3917,9406	11440,3866	15358,3272	15358,3272	3333,8600	1688,0380	16,8804	17004,1492	20,9156	125,4935	16899,5713	5522,9595	11376,6118	11555,9455	9563,5241	1992,4214	9382,2821	181,2420	87,5140	93,7280	9476,0101

FLFLOWSHEET PABRIK MAGNESIUM SULFAT HEPTAHIDRAT (MgSO₄.7H₂O) DARI MAGNESIUM KARBONAT DAN ASAM SULFAT DENGAN PROSES KRISTALISASI

DIGAMBAR OLEH :

LIA WARDANI

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DOSEN PEMBIMBING :

IR. LUCKY INDRATIUTAMI, MT

TTD :



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"VETERAN" JAWA TIMUR 2022