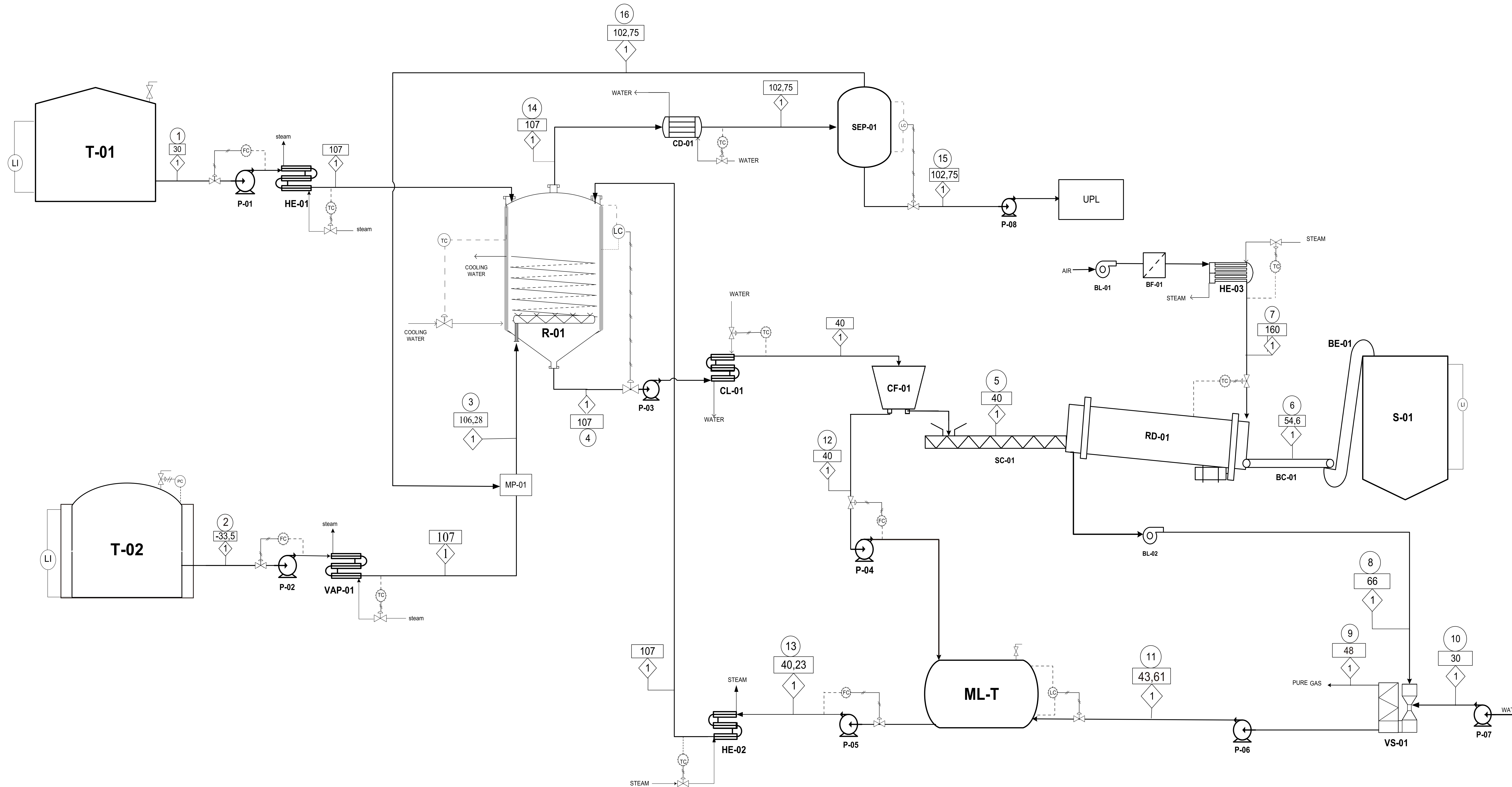


# PROCESS ENGINEERING FLOW DIAGRAM

## PRARANCANGAN PABRIK AMMONIUM SULFAT DARI AMMONIA DAN ASAM SULFAT

### KAPASITAS PRODUKSI 200.000 TON / TAHUN



**Keterangan Gambar**

- R : Reaktor
- CF : Cetrifuge
- RD : Rotary Dryer
- VS : Venturi scrubber
- SEP : Separator
- CL : Cooler
- CD : Condenser
- HE : Heater
- VAP : Vaporizer
- BF : Bag Filter
- BL : Blower
- T : Tangki Penyimpan
- P : Pompa
- BE : Bucket Elevator
- BC : Belt Conveyor
- SC : Screw Conveyor
- S : Silo
- ML-T : Mother Liquor Tank

- PC : Pressure Controller
- FC : Flow Controller
- LC : Level Controller
- TC : Temperature Controller
- LI : Level Indicator

- : Nomor Arus
- : Suhu, °C
- ◇ : Tekanan, atm
- ⋈ : Control Valve
- - - : Electrical Signal
- : Udara Instrument

**NERACA MASSA (Kg/Jam)**

KOMPONEN	NOMOR ARUS															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NH3		6452,536	6570,810											131,416	13,142	118,275
H2SO4	18466,866			402,127	25,768	25,253		0,515			0,515	376,359	376,875			
H2O(g)		65,177	66,372					268,098	2,681					457,048		1,195
H2O(l)	281,221			10412,460	520,623	252,525				458,402	723,818	9891,837	10615,655		455,853	
(NH4)2SO4(l)				33496,824							509,689	8012,388	8522,077			
(NH4)2SO4(c)					25484,436	24974,747		509,689								
N2								20931,276	20931,276	20931,276						
O2								5564,010	5564,010	5564,010						
TOTAL	18748,087	6517,713	6637,182	44311,412	26030,827	25252,525	26495,285	27273,587	26497,966	458,402	1234,022	18280,584	19514,607	588,464	468,995	119,469



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