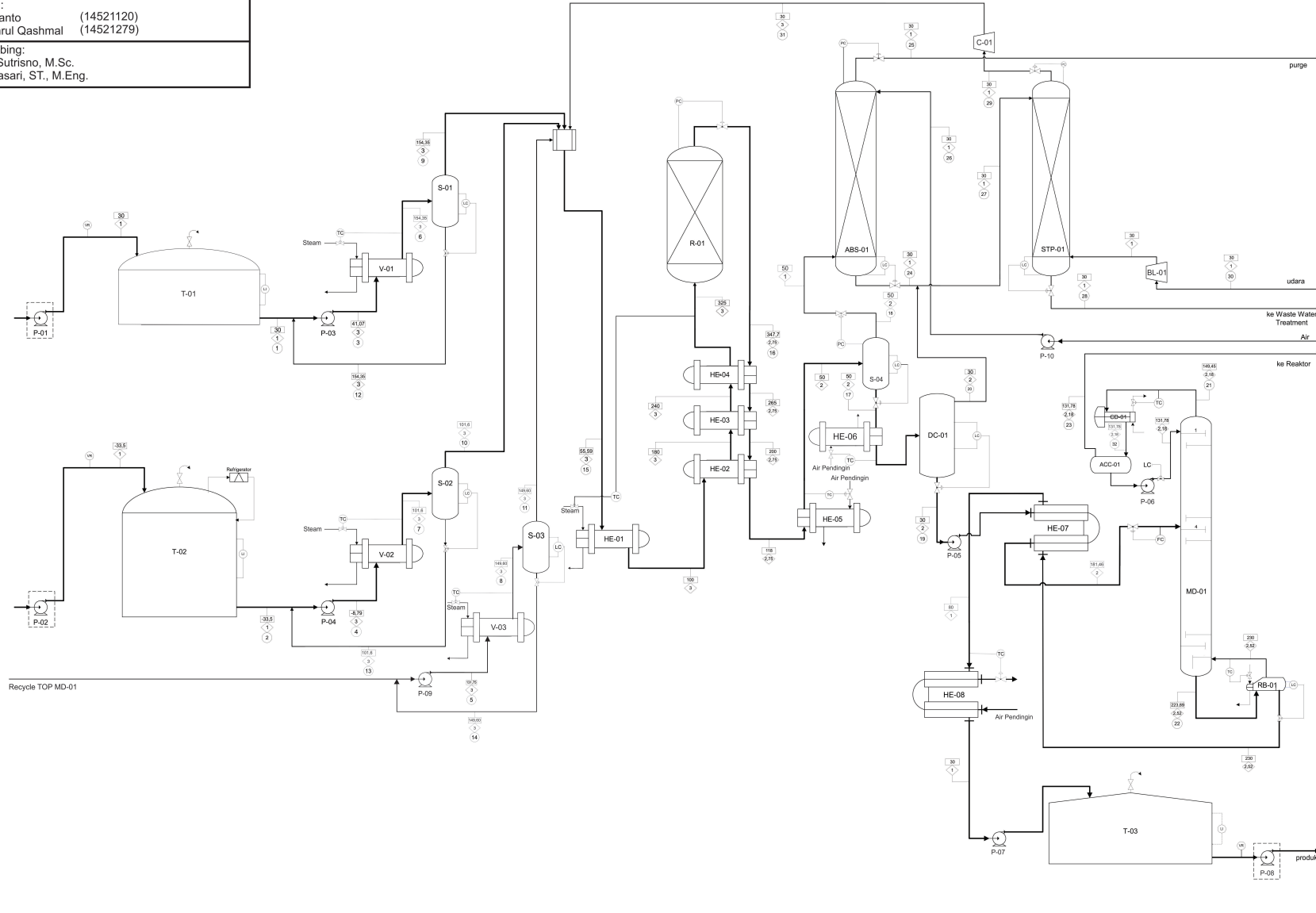




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PROCESS ENGINEERING FLOW DIAGRAM PABRIK BENZONITRILE DARI AMMONIA DAN TOLUENE KAPASITAS 50.000 TON/TAHUN



Keterangan	
R	Reaktor
S	Separator
DC	Decanter
MD	Menara Distilasi
ABS	Absorber
STP	Striper
T	Tangki
HE	Heat Exchanger
CD	Condenser
RB	Reboiler
P	Pompa
C	Compressor
LI	Level Indicator
TC	Temperature Controller
PC	Pressure Controller
FC	Flow Controller
VR	Volume Recorder
○	Nomor Arus, kg/jam
□	Temperatur, C
◇	Tekanan, atm

Komponen	No Arus (Kg/Jam)																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Nitrogen															30942.60	30942.60		30942.60							30942.60								
Oksigen															9395.63	4061.40		4061.40							4061.40								
C. Oksida															0.00	2562.85		2562.85							2562.85								
Amoniak		1051.72		1168.58	0.32		1168.58	0.32		1051.72	0.30				1875.26	832.64	44.17	788.47					0.32	43.85	0.32								
N-Heptana	97.63		108.48		7.33	108.48		7.33	97.63		6.96	10.85		116.86	0.20	104.96	104.96	104.93	0.03	7.35	97.59	7.33	0.02	7.33	0.79				831.53	8.32	823.22		0.32
Air		5.29		5.87	27.31		5.87	27.31		5.29	25.95		0.59	1.37	32.60	3940.64	3773.74	166.90	27.32	3746.42	27.31	0.01	27.31	27022.50	166.90	27022.50	30768.92	30768.92				27.31	
Toluene	6428.92		7143.25		352.37	7143.25		352.37	6428.92		334.75	714.33		17.62	6763.67	356.38	356.11	0.26	355.55	0.57	352.37	3.18	352.37	0.26				0.57	0.57			352.37	
Benzonitrile					30.82		30.82				29.28			1.54	30.82	6343.95	6340.95	3.00	6340.01	0.94	30.82	6309.19	30.82	6309.19	30.82	3.00		0.94	0.94			30.82	
Total	6526.55	1057.01	7251.73	1174.45	418.15	7251.73	1174.45	418.15	6526.55	1057.01	397.24	725.18	117.45	21.10	49145.54	49145.42	10619.90	38525.51	6730.55	3889.37	418.15	6312.40	418.15	27810.18	37737.83	27022.50	31699.55	30876.34	41161.45	40338.23	41161.45	418.15	