PABRIK GLISEROL DARI CRUDE PALM OIL (CPO) DENGAN PROSES HIDROLISIS KONTINU

Aliran Massa : (kg / jam)

Tekanan : (Atm)

Temperatur : (℃)

CW : Cooling Water — CWR : Cooling Water Return

S : Steam — SC : Steam Condensate

PW : Process Water — WTP : Waste Treatment Plant

NO	KODE	NAMA ALAT
50	F-374	TANGKI PENYIMPANAN GLISEROL
49	E-373	COOLER GLISEROL
48	L-372	POMPA GLISEROL
47	E-371	CONDENSOR DEODORIZER
46	D-370	TANGKI DEODORIZER
45	E-363	HEATER DEODORIZER
44	E-362	POMPA DEODORIZER
43	L-361	CONDENSOR FALLING FILM EVAPORATOR
42	V-360	FALLING FILM EVAPORATOR
41	E-352	CONDENSOR EVAPORATOR-1
40	L-351	POMPA FALLING FILM EVAPORATOR
39	V-350	EVAPORATOR-1
38	L-342	POMPA EVAPORATOR-1
37	F-341	TANGKI PENYIMPANAN SEMENTARA-2
36	H-340	FILTER PRESS-2
35	L-334	POMPA FILTER PRESS-2
34	J-333	BUCKET ELEVATOR 2
33	J-332	BELT CONVEYOR KARBON AKTIF
32	F-331	STORAGE KARBON AKTIF
31	M-330	TANGKI BLEACHING
30	L-323	POMPA TANGKI BLEACHING
29	F-322	STORAGE SABUN
28	F-321	TANGKI PENYIMPANAN SEMENTARA-1
27	H-320	FILTER PRESS-1
26	L-318	POMPA FILTER PRESS-1
25	E-317	HEATER NaOH
24	L-316	POMPA NaOH
23	M-315	TANGKI PELARUT NaOH
22	J-314	HOPPER NaOH
21	J-313	BUCKET ELEVATOR 1
20	J-312	BELT CONVEYOR NaOH
19	F-311	STORAGE NaOH
18	R-310	TANGKI NETRALISASI
17	E-234	CONDENSOR FLASH TANK
16	E-233	COOLER FLASH TANK
15	E-232	COOLER GLISEROL-1
14	L-231	POMPA TANGKI NETRALISASI
13	F-230	FLASH TANK GLISEROL
12	F-224	TANGKI ASAM LEMAK
11	E-223	COOLER ASAM LEMAK-2
10	E-222	COOLER ASAM LEMAK-1
09	L-221	POMPA TANGKI ASAM LEMAK
08	F-220	FLASH TANK ASAM LEMAK
07	E-212	COOLER PRODUK BAWAH REAKTOR
06	E-211	COOLER PRODUK ATAS REAKTOR
05	R-210	REAKTOR FAT SPLITTING
04	E-113	HEATER AIR PROSES
03	E-112	HEATER CPO
02	L-111	POMPA TANGKI PENYIMPANAN CPO
01	F-110	TANGKI PENYIMPANAN CPO

FLOWSHEET
PABRIK GLISEROL DARI CRUDE PALM OIL (CPO) DENGAN PROSES HIDROLISIS KONTINU

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JAWA TIMUR
2022

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
Trigliserida	56318.5562		1689.5567				1689.5567														
Asam Lemak	2356			54530.8663	49077.7797	5453.0866															
Air	118	28159.278	13884.7675	10906.1733	1090.6173	9815.5559	833.0861	13951.6815	239.3985	1072.4846	13.4735	1059.793	1059.0111	2.4602	1056.551	626.0910	430.4598	573.9210	52.1700	23.4740	28.6961
Karoten	106		106.0169				106.0169			106.0169	1.3319	104.7623	5.2343	0.0122	5.2221	5.2221			5.2221	5.2221	
Gliserol			5940.1994				5583.7874	356.4120		5767.505	72.4564	5699.251	5699.2510	13.2304	5681.818	5681.818			5681.818		5681.818
NaOH									239.3985	0.0012	0.000015	0.001183	0.001182	0.000003	0.001179		0.001179				
Sabun										1745.237	1745.273										
Karbon Aktif													314.0552	314.0552							
Jumlah	58898.302	28159.278	21620.5405	65437.0395	50168.3970	15268.6426	8212.4471	13408.0934	478.7971	8691.244	1833.851	6863.807	7172.8010	329.7580	6743.592	6313.131	430.4610	573.9210	5739.210	28.6961	5739.2102