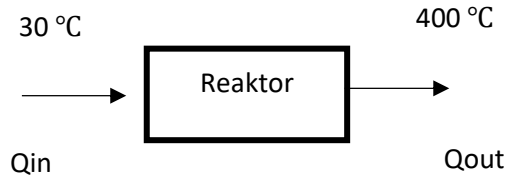


**BAB VI**  
**NERACA PANAS**

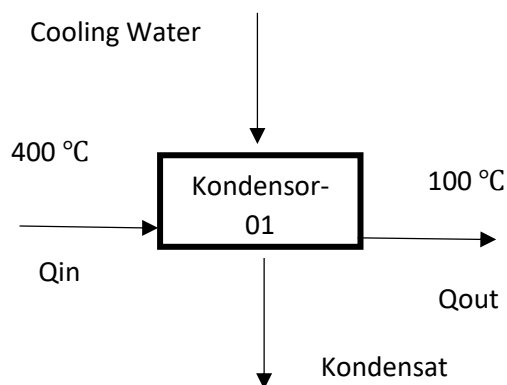
**6.1 Neraca Panas Reaktor FluidizedBed**



Tabel 6. 1 Neraca Panas di Reaktor Fluidizer

No	Komponen	Input (kj/jam)	Output (kj/jam)
1	Q reaktan	12,775	
2	Q produk	54263,835	18.656.641,542
3	Q reaksi		58.492.831,919
4	Q sistem	77.149.460,686	
<b>Total</b>		<b>77.149.473,461</b>	<b>77.149.473,461</b>

**6.2 Neraca Panas Kondensor-01**

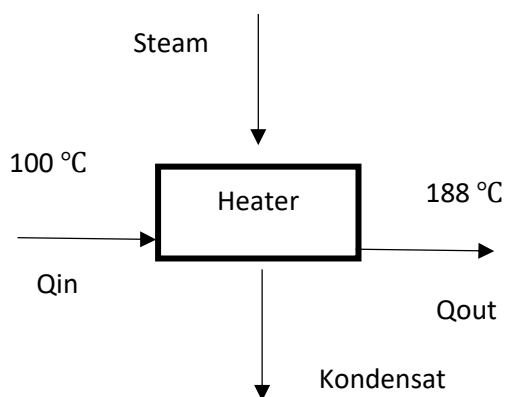


Tabel 6. 2 Neraca Panas di Kondensor-01

No	Komponen	Input (kj/Jam)	Output (kj/jam)
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1	Gasoline	16.753.449,620	588.161,603
2	Gas Oil	777.123,029	105.589,566
3	LPG	1.111.538,695	126.522,578
4	N <sub>2</sub>	950,329	190,934
5	Char	13.579,869	
6	Q sistem	- 17.836.176,862	
<b>Total</b>		<b>343518,750</b>	<b>343518,750</b>

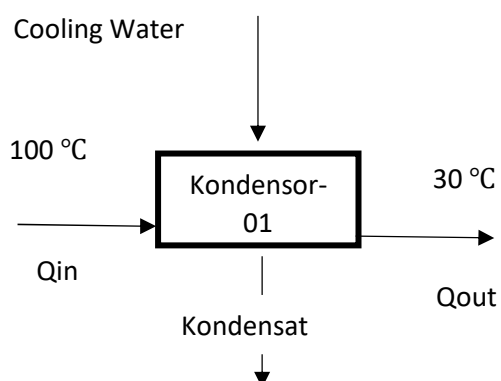
### 6.3 Neraca Panas Heater



Tabel 6. 3 Neraca Panas di Heater

No	Komponen	Input (kj/Jam)	Output (kj/jam)
1	Gasoline	588.161,603	3.215.378,857
2	Gas Oil	105.589,566	273.823,060
3	Q sistem	2.795.450,748	
<b>Total</b>		<b>3.489.201,917</b>	<b>3.489.201,917</b>

### 6.4 Neraca Panas Kondensor-02



Tabel 6. 4 Neraca Panas di Kondensor-02

No	Komponen	Input (kj/Jam)	Output (kj/jam)
1	LPG	126.522,578	7.236,023
2	N <sub>2</sub>	190,934	12,775
3	Q sistem	- 119.464,713	
<b>Total</b>		<b>7.248,798</b>	<b>7.248,798</b>

### 6.5 Neraca Panas Menara Distilasi

Tabel 6. 5 Neraca Panas di Menara Distilasi

No	Komponen	Input (kj/Jam)	Output (kj/jam)	
		Arus 9	Arus 10	Arus 11
1	Gasoline	3.215.378,857	3.054.609,914	2.664.731,624
2	Gas Oil	273.823,060	13.691,153	244.633,310
3	QR	3.737.593,913		
4	QK			804.996,694
5	Qloss			344.133,135
<b>Total</b>		<b>7.226.795,830</b>	<b>7.226.795,830</b>	

### 6.6 Neraca Panas Kondensor Menara Distilasi (Kondensor-03)

Tabel 6. 6 Neraca Panas Kondensor Menara Distilasi

No	Komponen	Input (kj/jam)	Output kj/jam)
1	$\Delta H_2$	7.362.499,678	
2	$\Delta H_3$		3.068.301,067
3	$\Delta H_4$	4.294.198,611	
4	Q pendingin		8.588.397,222
<b>Total</b>		<b>11.656.698,289</b>	<b>11.656.698,289</b>

## 6.7 Neraca Panas Reboiler Menara Distilasi

Tabel 6. 7 Neraca Panas Reboiler Menara Distilasi

No	Komponen	Input (kj/jam)	Output kj/jam)
1	$Q_R$		3.737.593,913
2	$Q_{loss}$		196.715,469
3	$Q_{sistem}$	3.934.309,382	
<b>Total</b>		<b>3.934.309,382</b>	<b>3.934.309,382</b>

## 6.8 Neraca Panas Kondensor-04

Tabel 6. 8 Neraca Panas Kondensor-04

No	Komponen	Input (kj/jam)	Output kj/jam)
1	Gasoline	138.236,581	2.394,217
2	Gas oil	232.401,644	5.323,950
3	$Q_{sistem}$	-362.920,058	
<b>Total</b>		<b>7.718,167</b>	<b>7.718,167</b>