



### 1 Metanol intrare/iesire evaporator E201/E251 - intrare pentru amestec de reactie la schimbatorul de caldura E202/E252

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	4310.78	4310.78	8621.56
2	Formol	4.07	4.07	8.14
3	Apa	7.31	7.31	14.62
4	Dimetyleter	3.11	3.11	6.22
<b>TOTAL DEBIT</b>				<b>8650.54</b>

### 2 Aer proaspăt pentru amestec de reactie in schimbatorul de caldura E202/E252

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Apa	192.28	192.28	384.56
2	Azot	10104.5	10104.5	20209
3	Oxigen	3050.67	3050.67	6101.34
4	Bioxid de carbon	6.03	6.03	12.06
<b>TOTAL DEBIT</b>				<b>26706.96</b>

### 3 Gaze recirculate din coloana pentru amestec de reactie la schimbatorul de caldura E202/E252

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	19.22	19.22	38.44
2	Formol	10.81	10.81	21.62
3	Apa	726.44	726.44	1452.88
4	Azot	29719	29719	59438
5	Oxigen	2440.4	2440.4	4880.8
6	Monoxid de carbon	506.71	506.71	1013.42
7	Bioxid de carbon	86.74	86.74	173.48
8	Dimetyleter	63.46	63.46	126.92
<b>TOTAL DEBIT</b>				<b>67145.56</b>

### 4 Aer saracit in oxigen pentru amestec metanol-aer la schimbatorul de caldura E202/E252

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	19.22	19.22	38.44
2	Formol	10.81	10.81	21.62
3	Apa	918.73	918.73	1837.46
4	Azot	39823.46	39823.46	79646.92
5	Oxigen	5491.09	5491.09	10982.18
6	Monoxid de carbon	506.71	506.71	1013.42
7	Bioxid de carbon	92.77	92.77	185.54
8	Dimetyleter	63.46	63.46	126.92
<b>TOTAL DEBIT</b>				<b>93852.5</b>

### 5 Amestec metanol-aer iesire schimbator de caldura E202/E252 - intrare reactoare R201/R251 – R202/R252

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	4330.09	4330.09	8660.18
2	Formol	14.87	14.87	29.74



3	Apa	926.03	926.03	1852.06
4	Azot	39823.5	39823.5	79647
5	Oxygen	5491.09	5491.09	10982.18
6	Monoxid de carbon	506.71	506.71	1013.42
7	Bioxid de carbon	92.77	92.77	185.54
8	Dimetyleter	66.57	66.57	133.14
<b>TOTAL DEBIT</b>				<b>102503.26</b>

#### 6 Amestec reactie iesire reactoare R201/R251 – R202/R252 intrare iesire schimbator de caldura E202/E252 – intrare coloana C201/C251

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	88.27	88.27	176.54
2	Formol	3764.48	3764.48	7528.96
3	Apa	3424.09	3424.09	6848.18
4	Azot	39823.5	39823.5	79647
5	Oxygen	3270.16	3270.16	6540.32
6	Monoxid de carbon	678.99	678.99	1357.98
7	Bioxid de carbon	116.23	116.23	232.46
8	Dimetyleter	85.03	85.03	170.06
9	Acid formic	0.93	0.93	1.86
<b>TOTAL DEBIT</b>				<b>102503.36</b>

#### 7 Saruri de racire in reactoare R201/R251 – R202/R252

Nr. Crt.	Component	Cantitate linia 1	Cantitate linia 2	Total cantitate
1	Saruri de racire	34	34	68
<b>TOTAL</b>				<b>68</b>

#### 8 Solutie UFC 85% iesire din coloana C201/C251 spre rezervoare

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	62.51	62.51	125.02
2	Formol	3750	3750	7500
3	Apa	863.06	863.06	1726.12
4	Acid formic	0.93	0.93	1.86
5	Uree	1500.2	1500.2	3000.4
<b>TOTAL DEBIT</b>				<b>12353.4</b>

#### 9 Gaze neabsorbite iesire din coloana C201/C251

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	25.76	25.76	51.52
2	Formol	14.48	14.48	28.96
3	Apa	4695.44	4695.44	9390.88
4	Azot	39823.5	39823.5	79647
5	Oxygen	3270.16	3270.16	6540.32
6	Monoxid de carbon	678.99	678.99	1357.98
7	Bioxid de carbon	116.23	116.23	232.46
8	Dimetyleter	85.07	85.07	170.14
<b>TOTAL DEBIT</b>				<b>97419.26</b>

#### 10 Gaze iesire din coloana C201/C251 spre reactorul de epurare catalitica

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	6.54	6.54	13.08
2	Formol	3.67	3.67	7.34
3	Apa	1191.38	1191.38	2382.76
4	Azot	10104.5	10104.5	20209
5	Oxygen	829.74	829.74	1659.48
6	Monoxid de carbon	172.28	172.28	344.56
7	Bioxid de carbon	29.49	29.49	58.98
8	Dimetyleter	21.58	21.58	43.16
<b>TOTAL DEBIT</b>				<b>24718.36</b>

#### 11 Apa de absorbtie intrare in coloana C201/C251

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Apa	1503.65	1503.65	3007.3
<b>TOTAL DEBIT</b>				<b>3007.3</b>



#### 12 Gaze iesire din coloana C201/C251 spre condensator

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Metanol	19.22	19.22	38.44
2	Formol	10.81	10.81	21.62
3	Apa	3504.06	3504.06	7008.12
4	Azot	29719	29719	59438
5	Oxigen	2440.42	2440.42	4880.84
6	Monoxid de carbon	506.71	506.71	1013.42
7	Bioxid de carbon	86.74	86.74	173.48
8	Dimetyleter	63.46	63.46	126.92
<b>TOTAL DEBIT</b>				<b>72700.84</b>

#### 13 Condensat

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Apa	2777.61	2777.61	5555.22
<b>TOTAL DEBIT</b>				<b>5555.22</b>

#### 14 Solutie de Uree 70% in coloana C201/C251

Nr. Crt.	Component	Debit kg/h linia 1 de fabricatie	Debit kg/h linia 2 de fabricatie	Total debit kg/h in instalatie
1	Apa	630.77	630.77	1261.54
2	Uree	1500.2	1500.2	3000.4
<b>TOTAL DEBIT</b>				<b>4261.94</b>