

Numerical results demonstrating oxygen gas flow rate, temperature and humidity at pressure intervals

Ascending P from 300 ml/min mark					Descending P from 300 ml/min mark				
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA	kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	0.3	20	29	0	0	0.3	14	10	0
10	0.26	20	26	13.3	10	0.3	14	10	0
20	0.25	21	29	16.7	20	0.29	14	10	3.3
30	0.24	22	32	20.0	30	0.28	14	10	6.7
40	0.23	23	33	23.3	40	0.28	14	11	6.7
50	0.23	23	34	23.3	50	0.27	15	13	10.0
60	0.22	24	35	26.7	60	0.26	15	15	13.3
70	0.22	24	36	26.7	70	0.25	16	17	16.7
80	0.21	24	36	30.0	80	0.24	16	19	20.0
90	0.21	24	36	30.0	90	0.24	16	20	20.0
100	0.21	25	36	30.0	100	0.23	17	22	23.3
110	0.2	25	34	33.3	110	0.22	17	23	26.7
120	0.19	25	33	36.7	120	0.21	17	24	30.0
130	0.19	25	33	36.7	130	0.2	18	25	33.3
140	0.19	25	33	36.7	140	0.2	19	25	33.3
150	0.19	25	33	36.7	150	0.2	20	26	33.3
160	0.18	25	33	40.0	160	0.2	21	27	33.3
170	0.18	25	33	40.0	170	0.2	25	30	33.3
180	0.18	25	33	40.0	180	0.18	25	33	40.0

Ascending P from 600 ml/min mark					Descending P from 600 ml/min mark				
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA	kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	0.60	20.3	17.5	0	0	0.60	18.5	9	0
10	0.55	21.4	19.2	8.3	10	0.59	18.9	9.4	1.7
20	0.52	22.7	16.3	13.3	20	0.55	19.4	10.1	8.3
30	0.49	24	16.1	18.3	30	0.52	19.6	10.8	13.3
40	0.47	24.7	16.3	21.7	40	0.50	19.9	11.4	16.7
50	0.45	25.3	15.6	25.0	50	0.48	20.3	12	20.0
60	0.43	25.7	15.8	28.3	60	0.47	20.6	12.4	21.7
70	0.42	25.9	15.5	30.0	70	0.45	21.1	12.9	25.0
80	0.41	26.2	15.6	31.7	80	0.44	21.6	13.1	26.7
90	0.40	26.4	15.7	33.3	90	0.43	22.1	13.7	28.3
100	0.39	26.7	15.7	35.0	100	0.42	22.6	15.7	30.0
110	0.38	26.9	15.8	36.7	110	0.40	23.3	14.4	33.3
120	0.37	27.3	15.5	38.3	120	0.39	24	15.4	35.0
130	0.37	27.4	15.6	38.3	130	0.38	24.9	15.6	36.7
140	0.37	27.7	15.7	38.3	140	0.37	25.9	15.6	38.3
150	0.34	27.9	15.6	43.3	150	0.37	27	15.7	38.3
160	0.34	28.1	15.9	43.3	160	0.36	27.9	16	40.0
170	0.34	28.4	15.6	43.3	170	0.35	28.6	15.4	41.7
180	0.34	28.6	16	43.3	180	0.34	28.6	16	43.3

Ascending P from 900 ml/min mark					Descending P from 900 ml/min mark				
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA	kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	0.91	20	32	0	0	0.91	14	9	0
10	0.84	20	24	7.7	10	0.87	14	10	4.4
20	0.79	21	27	13.2	20	0.83	15	11	8.8
30	0.75	22	31	17.6	30	0.78	15	12	14.3
40	0.72	23	32	20.9	40	0.75	15	13	17.6
50	0.70	23	33	23.1	50	0.71	15	14	22.0
60	0.66	24	33	27.5	60	0.68	16	18	25.3
70	0.63	24	32	30.8	70	0.66	16	18	27.5
80	0.62	24	32	31.9	80	0.64	16	19	29.67
90	0.60	25	32	34.1	90	0.62	17	20	31.9
100	0.58	25	32	36.3	100	0.59	17	22	35.2
110	0.57	25	32	37.4	110	0.58	17	23	36.3
120	0.54	25	32	40.7	120	0.56	18	24	38.5
130	0.53	25	32	41.6	130	0.55	19	25	39.6
140	0.52	25	32	42.9	140	0.53	20	25	41.8
150	0.50	25	32	45.1	150	0.52	21	26	42.9
160	0.50	25	32	45.1	160	0.51	23	28	44.0
170	0.49	25	31	46.2	170	0.50	24	28	45.1
180	0.48	25	31	47.3	180	0.48	25	31	47.3

Ascending P from 1200 ml/min mark					Descending P from 1200 ml/min mark				
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA	kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	1.21	15	25	0	0	1.21	14	7	0
10	1.12	17	15	7.4	10	1.15	14	8	5.0
20	1.06	19	14	12.4	20	1.09	14	8	9.9
30	1	20	18	17.4	30	1.03	15	9	14.9
40	0.96	21	19	20.7	40	0.99	15	10	18.2
50	0.92	22	20	24.0	50	0.94	15	10	22.3
60	0.87	22	20	28.1	60	0.9	15	11	25.6
70	0.84	23	20	30.6	70	0.87	16	11	28.1
80	0.82	23	20	32.2	80	0.84	16	12	30.6
90	0.79	23	20	34.7	90	0.81	16	13	33.1
100	0.77	24	20	36.4	100	0.78	17	14	35.5
110	0.75	24	20	38.0	110	0.76	17	14	37.2
120	0.72	24	20	40.5	120	0.74	18	14	38.8
130	0.71	24	20	41.3	130	0.72	19	15	40.5
140	0.7	24	20	42.1	140	0.7	20	15	42.1
150	0.67	25	20	44.6	150	0.68	21	15	43.8
160	0.65	25	20	46.3	160	0.66	22	17	45.5
170	0.64	25	20	47.1	170	0.65	24	17	46.3
180	0.62	25	20	48.8	180	0.62	25	20	48.8

Ascending P from 3 L/min mark					Descending P from 3 L/min mark				
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA	kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	3.23	20	36	0	0	3.23	15	10	0
10	2.97	21	36	8.1	10	3.02	15	11	6.5
20	2.88	22	30	10.8	20	2.85	15	12	11.8
30	2.66	23	34	17.6	30	2.69	16	13	16.7
40	2.53	24	35	21.7	40	2.55	16	14	21.1
50	2.42	25	36	25.1	50	2.43	16	16	24.8
60	2.32	25	36	28.2	60	2.32	16	17	28.2
70	2.23	25	37	31.0	70	2.24	17	19	30.7
80	2.15	25	37	33.4	80	2.15	17	20	33.4
90	2.08	25	37	35.6	90	2.09	17	22	35.3
100	2.02	25	37	37.5	100	2.01	18	23	37.8
110	1.96	26	37	39.3	110	1.96	18	24	39.3
120	1.89	26	37	41.5	120	1.89	19	25	41.5
130	1.85	26	37	42.7	130	1.85	20	26	42.7
140	1.81	26	37	44.0	140	1.81	21	26	44.0
150	1.75	26	36	45.8	150	1.77	22	27	45.2
160	1.72	26	36	46.7	160	1.72	23	29	47.0
170	1.69	26	36	47.7	170	1.69	25	31	47.7

180	1.64	26	36	49.2		180	1.64	26	36	49.2
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Ascending P from 6 L/min mark					Descending P from 6 L/min mark					
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA		kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	5.99	20	35	0		0	5.91	16	9	0
10	5.55	21	26	7.3		10	5.56	16	10	5.9
20	5.23	22	27	12.7		20	5.21	16	11	11.8
30	4.95	23	31	17.4		30	4.94	16	12	16.4
40	4.71	24	33	21.4		40	4.69	17	12	20.6
50	4.50	24	34	24.9		50	4.47	17	14	24.4
60	4.32	25	34	27.9		60	4.28	17	15	27.6
70	4.14	25	35	30.9		70	4.11	17	18	30.5
80	3.99	25	35	33.4		80	3.96	18	18	33.0
90	3.85	25	35	35.7		90	3.82	18	19	35.4
100	3.72	25	35	37.9		100	3.69	18	21	37.6
110	3.60	25	35	40.0		110	3.58	19	22	39.4
120	3.50	26	35	41.6		120	3.48	19	24	41.1
130	3.40	26	34	43.2		130	3.39	20	25	42.6
140	3.30	26	34	45.0		140	3.3	20	25	44.2
150	3.24	26	34	46.0		150	3.23	21	25	45.3
160	3.15	26	34	47.4		160	3.16	23	27	46.5

170	3.08	26	34	48.6		170	3.09	24	28	47.7
180	3.01	26	34	50.0		180	3.01	26	34	49.1

Ascending P from 9 L/min mark					Descending P from 9 L/min mark				
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA	kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	9.00	19	28	0	0	8.86	15	8	0
10	8.28	20	20	8.0	10	8.29	15	9	6.4
20	7.87	21	21	12.6	20	7.8	15	9	12.0
30	7.45	21	24	17.2	30	7.37	15	10	16.8
40	7.11	22	26	21.0	40	7	16	11	21.0
50	6.80	23	27	24.4	50	6.68	16	12	24.6
60	6.50	23	27	27.8	60	6.4	16	13	27.8
70	6.24	24	27	30.7	70	6.14	16	14	30.7
80	6.01	24	27	33.2	80	5.91	16	14	33.3
90	5.80	24	27	35.6	90	5.72	17	16	35.4
100	5.61	24	27	37.7	100	5.53	17	17	37.6
110	5.43	25	26	39.7	110	5.37	18	18	39.4
120	5.29	25	26	41.2	120	5.21	18	19	41.2
130	5.13	25	26	43.0	130	5.08	19	20	42.7
140	5.00	25	26	44.4	140	4.96	20	20	44.0
150	4.86	25	26	46.0	150	4.86	21	21	45.1

160	4.74	25	26	47.3		160	4.77	22	21	46.1
170	4.64	25	26	48.4		170	4.66	24	21	47.4
180	4.54	25	26	49.6		180	4.54	25	26	48.8

Ascending P from 12 L/min mark					Descending P from 12 L/min mark					
kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA		kPa	Flow rate (L/min)	Temp	Humidity (%)	% Diff from 1 ATA
0	12.01	22.1	21.6	0		0	11.86	19.6	11.1	0
10	11.25	23.1	22.3	6.3		10	11.15	19.7	10.3	6.0
20	10.69	23.7	19.6	11.0		20	10.49	20	11.4	11.6
30	10.15	24.3	20.3	15.5		30	9.94	20.4	12.9	16.2
40	9.68	24.7	20.1	19.4		40	9.49	20.7	14	20.0
50	9.28	25.2	20.0	22.7		50	9.04	21.2	14.4	23.8
60	8.90	25.7	21.0	25.9		60	8.66	21.6	15.5	27.0
70	8.56	26.2	20.5	28.7		70	8.32	22	16.4	29.8
80	8.27	26.5	20.2	31.1		80	8.02	22.4	17.1	32.4
90	7.98	26.9	20.0	33.6		90	7.76	22.8	17.6	34.6
100	7.72	27.4	19.6	35.7		100	7.52	23.4	17.9	36.6
110	7.50	27.9	19.5	37.6		110	7.30	24	18.5	38.4
120	7.27	28.4	19.2	39.5		120	7.11	24.9	19.6	40.1
130	7.06	28.7	18.6	41.2		130	6.94	25.6	19.5	41.5
140	6.88	29.1	18.7	42.7		140	6.79	26.4	20	42.7

150	6.73	29.4	18.6	44.0		150	6.65	27.2	19.6	44.0
160	6.55	29.6	18.7	45.5		160	6.53	28.6	19.7	45.0
170	6.41	29.8	18.5	46.6		170	6.39	29.6	18	46.1