

Helium

1000 ft/min (5 m/s) ascent rate

800 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
4	6.63	6, 10	2.63	2, 10	135
5	7.87	7, 14	2.87	2, 14	155
6	9.14	9, 2	3.14	3, 2	175
7	10.35	10, 6	3.35	3, 6	195
8	11.58	11, 9	3.58	3, 9	215
9	12.78	12, 12	3.78	3, 12	233
10	14.01	14, 0	4.01	4, 0	253
11	15.18	15, 3	4.18	4, 3	272
12	16.41	16, 7	4.41	4, 7	292

1000 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
4	6.75	6, 12	2.75	2, 12	144
5	7.98	7, 16	2.98	2, 16	164
6	9.23	9, 4	3.23	3, 4	183
7	10.46	10, 7	3.46	3, 7	204
8	11.67	11, 11	3.67	3, 11	223
9	12.89	12, 14	3.89	3, 14	243
10	14.09	14, 1	4.09	4, 1	262
11	15.29	15, 5	4.29	4, 5	281
12	16.47	16, 8	4.47	4, 8	300

1200 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	8.09	8, 1	3.09	3, 1	173
6	9.33	9, 5	3.33	3, 5	192
7	10.54	10, 9	3.54	3, 9	212
8	11.79	11, 13	3.79	3, 13	232
9	12.98	13, 0	3.98	4, 0	251
10	14.13	14, 2	4.13	4, 2	270
11	15.37	15, 6	4.37	4, 6	290
12	16.58	16, 9	4.58	4, 9	309

1500 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	8.24	8, 4	3.24	3, 4	186
6	9.49	9, 8	3.49	3, 8	205
7	10.70	10, 11	3.70	3, 11	225
8	11.90	11, 14	3.90	3, 14	245
9	13.11	13, 2	4.11	4, 2	264
10	14.31	14, 5	4.31	4, 5	283
11	15.51	15, 8	4.51	4, 8	303
12	16.68	16, 11	4.68	4, 11	322

2000 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	8.49	8, 8	3.49	3, 8	207
6	9.71	9, 11	3.71	3, 11	227
7	10.92	10, 15	3.92	3, 15	247
8	12.13	12, 2	4.13	4, 2	266
9	13.31	13, 5	4.31	4, 5	284
10	14.51	14, 8	4.51	4, 8	304
11	15.69	15, 11	4.69	4, 11	323
12	16.88	16, 14	4.88	4, 14	342
14	18.07	18, 1	4.07	4, 1	362
16	19.24	19, 4	3.24	3, 4	380

3000 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	9.00	9, 0	4.00	4, 0	250
6	10.18	10, 3	4.18	4, 3	270
7	11.37	11, 6	4.37	4, 6	289
8	12.58	12, 9	4.58	4, 9	308
9	13.73	13, 12	4.73	4, 12	327
10	14.93	14, 15	4.93	4, 15	346
11	16.10	16, 2	5.10	5, 2	365
12	17.27	17, 4	5.27	5, 4	384
14	19.57	19, 9	5.57	5, 9	421
16	21.96	21, 15	5.96	5, 15	459

AIRGAS HE BL200
HE BL 300

Hydrogen

1000 ft/min (5 m/s) ascent rate

800 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
4	6.63	6, 10	2.63	2, 10	125
3	7.87	7, 14	4.87	4, 14	144
6	9.12	9, 2	3.12	3, 2	162
7	10.37	10, 6	3.37	3, 6	181
8	11.57	11, 9	3.57	3, 9	199
9	12.80	12, 13	3.80	3, 13	217
10	14.00	14, 0	4.00	4, 0	234
11	15.20	15, 3	4.20	4, 3	252
12	16.40	16, 6	4.40	4, 6	270

1000 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
4	6.73	6, 12	2.73	2, 12	133
5	7.99	7, 16	2.99	3, 0	152
6	9.21	9, 3	3.21	3, 3	170
7	10.45	10, 7	3.45	3, 7	188
8	11.67	11, 11	3.67	3, 11	206
9	12.89	12, 14	3.89	3, 14	224
10	14.09	14, 1	4.09	4, 1	243
11	15.29	15, 5	4.29	4, 5	260
12	16.47	16, 8	4.47	4, 8	278

1200 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	8.09	8, 1	3.09	3, 1	160
6	9.34	9, 5	3.34	3, 5	178
7	10.55	10, 9	3.55	3, 9	196
8	11.77	11, 12	3.77	3, 12	215
9	12.97	13, 0	3.97	4, 0	233
10	14.20	14, 3	4.20	4, 3	250
11	15.39	15, 6	4.39	4, 6	268
12	16.56	16, 9	4.56	4, 9	286

1500 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	8.27	8, 4	3.27	3, 4	172
6	9.49	9, 8	3.49	3, 8	191
7	10.71	10, 11	3.71	3, 11	209
8	11.91	11, 15	3.91	3, 15	226
9	13.12	13, 2	4.12	4, 2	245
10	14.32	14, 5	4.32	4, 5	262
11	15.51	15, 8	4.51	4, 8	280
12	16.69	16, 11	4.69	4, 11	297

2000 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	8.49	8, 8	3.49	3, 8	192
6	9.75	9, 12	3.75	3, 12	210
7	10.93	10, 15	3.93	3, 15	228
8	12.14	12, 2	4.14	4, 2	247
9	13.32	13, 5	4.32	4, 5	264
10	14.52	14, 8	4.52	4, 8	281
11	15.73	15, 12	4.73	4, 12	299
12	16.87	16, 14	4.87	4, 14	317
14	18.06	18, 1	4.06	4, 1	334
16	19.22	19, 4	3.22	3, 4	352

3000 gram balloon					
payload weight (lbs)	Nozzle lift		Free lift		Vol (ft ³)
	(lbs)	(lbs,oz)	(lbs)	(lbs,oz)	
5	8.97	9, 0	3.97	4, 0	232
6	10.16	10, 3	4.16	4, 3	249
7	11.35	11, 6	4.35	4, 6	267
8	12.55	12, 9	4.55	4, 9	286
9	13.73	13, 12	4.73	4, 12	303
10	14.93	14, 15	4.93	4, 15	321
11	16.09	16, 1	5.09	5, 1	338
12	17.30	17, 5	5.30	5, 5	356
14	19.61	19, 10	5.61	5, 10	391
16	21.93	21, 15	5.93	5, 15	425

Airgas HY200
HY300