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Ratio of Feed Air Entering Compressor Versus High-Pressure Air Out of Compressor

Times more dense at higher gauge pressures than at 0 psi gauge pressure at different temperatures [°F] => The multiplier of the CFM of air out of compressor at given pressure versus the CFM of feed air at local atmospheric pressure

Gauge pressure [psi]	Entering Air Temperature:	30	40	50	60	70	80	90	100	120	140	150	200	250	300	400	500	600
0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.3
10		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
20		1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3
30		2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.0
40		2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.7	2.8	2.7	2.8	2.7
50		3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3
60		4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.0
70		4.8	4.7	4.8	4.8	4.8	4.7	4.8	4.8	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7
80		5.4	5.4	5.5	5.5	5.4	5.4	5.5	5.4	5.4	5.5	5.5	5.5	5.4	5.5	5.5	5.5	5.3
90		6.1	6.1	6.1	6.2	6.1	6.1	6.2	6.1	6.1	6.2	6.1	6.2	6.1	6.2	6.2	6.2	6.0
100		6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.7
120		8.2	8.1	8.2	8.2	8.2	8.1	8.2	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.0
140		9.5	9.5	9.6	9.6	9.5	9.5	9.6	9.5	9.4	9.6	9.6	9.6	9.5	9.6	9.6	9.6	9.4
150		10.2	10.1	10.2	10.3	10.2	10.1	10.2	10.2	10.1	10.2	10.2	10.3	10.2	10.3	10.3	10.3	10.1
200		13.6	13.5	13.6	13.7	13.6	13.5	13.7	13.6	13.5	13.7	13.6	13.7	13.6	13.7	13.7	13.7	13.4
250		17.0	16.9	17.1	17.1	17.0	16.9	17.1	17.0	16.9	17.1	17.0	17.1	17.0	17.1	17.1	17.2	16.8
300		20.4	20.3	20.5	20.5	20.4	20.3	20.5	20.4	20.3	20.5	20.5	20.5	20.4	20.5	20.5	20.6	20.1
400		27.3	27.0	27.3	27.4	27.3	27.1	27.3	27.2	27.0	27.3	27.3	27.3	27.2	27.4	27.3	27.5	26.8
500		34.1	33.8	34.1	34.3	34.1	33.9	34.1	33.9	33.8	34.2	34.1	34.2	34.0	34.2	34.2	34.3	33.5
700		47.6	47.3	47.7	47.9	47.7	47.4	47.8	47.6	47.3	47.8	47.8	47.8	47.6	47.8	47.9	48.0	46.9
800		54.4	54.0	54.5	54.8	54.5	54.1	54.6	54.4	54.1	54.6	54.5	54.7	54.4	54.8	54.7	54.9	53.7
900		61.3	60.9	61.4	61.6	61.3	60.9	61.5	61.3	60.7	61.4	61.3	61.5	61.1	61.5	61.4	61.9	60.3
1000		68.1	67.6	68.2	68.5	68.1	67.6	68.3	68.0	67.6	68.2	68.2	68.3	67.9	68.4	68.3	68.8	67.2

Density of air [lb/ft³] at different temperatures [°F]

Gauge pressure [psi]	Entering Air Temperature:	30	40	50	60	70	80	90	100	120	140	150	200	250	300	400	500	600
0		0.081	0.08	0.078	0.076	0.075	0.074	0.072	0.071	0.069	0.066	0.065	0.06	0.056	0.052	0.046	0.041	0.038
5		0.109	0.107	0.105	0.102	0.101	0.099	0.097	0.095	0.092	0.089	0.087	0.081	0.075	0.07	0.062	0.056	0.05
10		0.136	0.134	0.131	0.128	0.126	0.124	0.121	0.119	0.115	0.111	0.109	0.101	0.094	0.088	0.078	0.07	0.063
20		0.192	0.188	0.185	0.18	0.177	0.174	0.171	0.168	0.162	0.156	0.154	0.142	0.132	0.123	0.109	0.098	0.089
30		0.247	0.242	0.238	0.232	0.228	0.224	0.22	0.216	0.208	0.201	0.198	0.183	0.17	0.159	0.141	0.126	0.114
40		0.302	0.295	0.291	0.284	0.279	0.274	0.269	0.264	0.255	0.246	0.242	0.225	0.208	0.195	0.172	0.154	0.14
50		0.357	0.35	0.344	0.336	0.33	0.324	0.318	0.312	0.302	0.291	0.287	0.265	0.246	0.23	0.203	0.182	0.165
60		0.412	0.404	0.397	0.388	0.381	0.374	0.367	0.361	0.348	0.337	0.331	0.306	0.284	0.266	0.235	0.21	0.19
70		0.467	0.458	0.451	0.44	0.432	0.424	0.416	0.409	0.395	0.382	0.375	0.347	0.322	0.301	0.266	0.238	0.216
80		0.522	0.512	0.504	0.492	0.483	0.474	0.465	0.457	0.441	0.427	0.42	0.388	0.361	0.337	0.298	0.267	0.241
90		0.578	0.566	0.557	0.544	0.534	0.524	0.515	0.505	0.488	0.472	0.464	0.429	0.399	0.372	0.329	0.295	0.267
100		0.633	0.62	0.61	0.596	0.585	0.574	0.564	0.554	0.535	0.517	0.508	0.47	0.437	0.408	0.36	0.323	0.292
120		0.743	0.728	0.717	0.7	0.687	0.674	0.662	0.65	0.628	0.607	0.597	0.552	0.513	0.479	0.423	0.379	0.343
140		0.853	0.836	0.823	0.804	0.789	0.774	0.76	0.747	0.721	0.697	0.686	0.634	0.589	0.55	0.486	0.436	0.394
150		0.909	0.89	0.876	0.856	0.84	0.824	0.809	0.795	0.768	0.742	0.73	0.675	0.627	0.586	0.518	0.464	0.42
200		1.185	1.161	1.142	1.116	1.095	1.075	1.055	1.036	1.001	0.967	0.951	0.879	0.817	0.764	0.675	0.604	0.547
250		1.46	1.431	1.408	1.376	1.35	1.325	1.301	1.278	1.234	1.193	1.173	1.084	1.008	0.941	0.832	0.745	0.675
300		1.736	1.702	1.674	1.636	1.605	1.575	1.547	1.519	1.467	1.418	1.395	1.289	1.198	1.119	0.989	0.886	0.802
400		2.29	2.24	2.21	2.16	2.12	2.08	2.04	2	1.933	1.868	1.838	1.698	1.579	1.475	1.303	1.167	1.057
500		2.84	2.78	2.74	2.68	2.63	2.58	2.53	2.48	2.4	2.32	2.28	2.11	1.959	1.83	1.618	1.449	1.312
700		3.94	3.86	3.8	3.72	3.65	3.58	3.51	3.45	3.33	3.22	3.17	2.93	2.72	2.54	2.25	2.01	1.822
800		4.49	4.4	4.33	4.24	4.16	4.08	4	3.93	3.8	3.67	3.61	3.34	3.1	2.9	2.56	2.29	2.08
900		5.05	4.95	4.87	4.76	4.67	4.58	4.5	4.42	4.26	4.12	4.05	3.75	3.48	3.25	2.87	2.58	2.33
1000		5.6	5.49	5.4	5.28	5.18	5.08	4.99	4.9	4.73	4.57	4.5	4.16	3.86	3.61	3.19	2.86	2.59