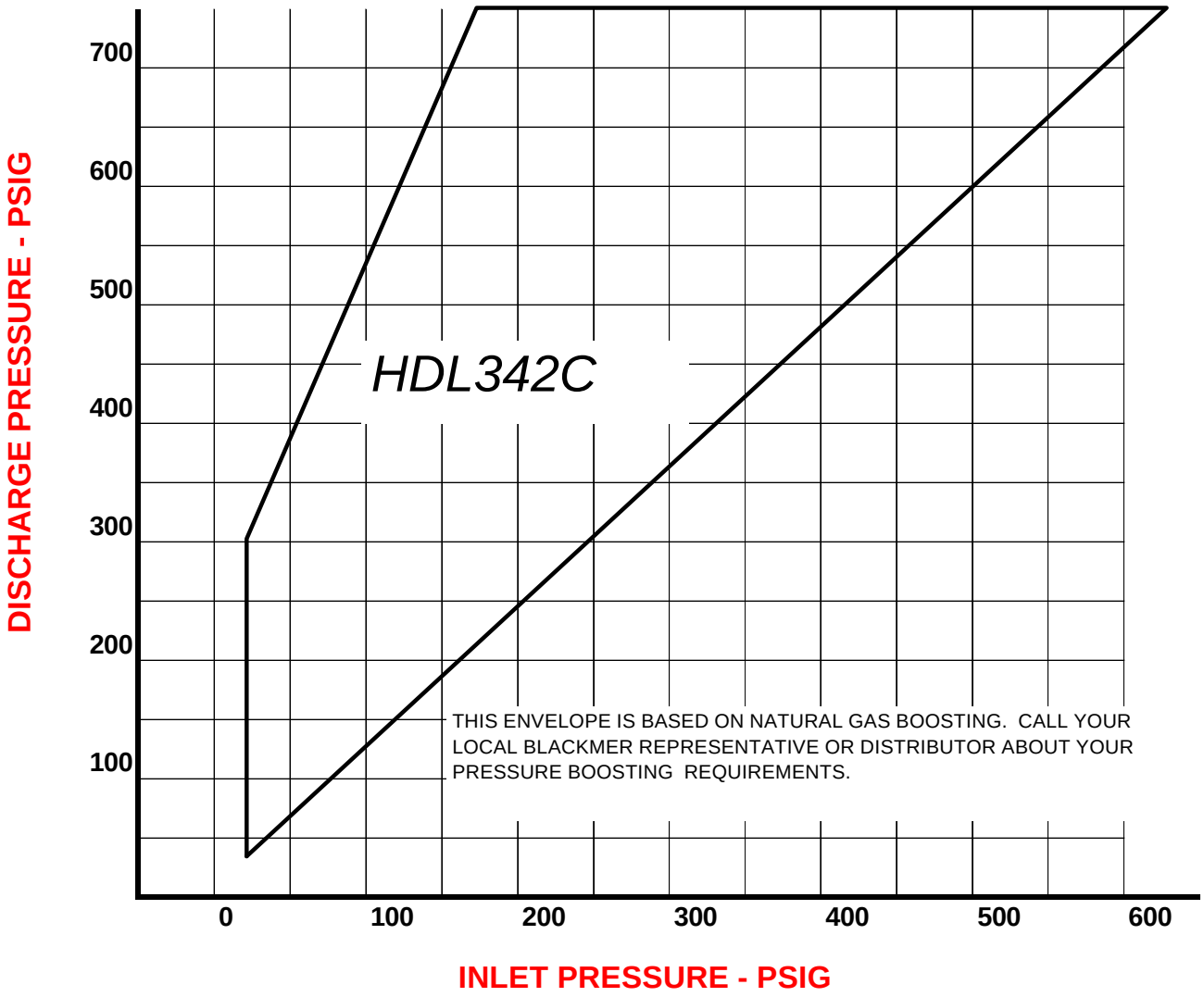
NON-LUBE BOOSTER COMPRESSORS
OPERATING ENVELOPE natural gas unit



NON-LUBE BOOSTER COMPRESSORS
OPERATING ENVELOPE natural gas unit

ESTIMATED PERFORMANCE BLACKMER MODEL HDL342C NATURAL GAS BOOSTING

INLET PSIG	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp
25	33	3.2	30	4	28	4.6	26	4.9	24	5.2	22	5.4	20	5.5	18	5.5	16	5.5	14	5.4	12	5.3						
50			55	3.3	52	4.4	50	5.2	48	5.8	45	6.3	43	6.7	41	7	38	7.3	36	7.5	34	7.6	32	7.7	30	7.8	28	7.8
75					77	3.4	75	4.6	72	5.6	69	6.4	67	7	65	7.6	62	8.1	60	8.5	58	8.8	56	9.1	53	9.3	51	9.6
100							100	3.5	97	4.8	95	5.8	92	6.7	89	7.5	87	8.2	84	8.8	82	9.3	80	9.8	77	10.2	75	10.6
125									123	3.6	120	4.9	117	6	114	7	112	7.9	109	8.7	107	9.4	104	10	102	10.6	99	11.1
150													143	5	140	6.2	137	7.3	135	8.2	132	9.1	129	9.9	127	10.6	124	11.2
175															166	5.1	163	6.3	160	7.4	158	8.5	155	9.4	152	10.3	150	11
200																	189	5.1	186	6.4	184	7.6	181	8.7	178	9.7	175	10.6
225																			213	5.2	210	6.5	207	7.7	204	8.9	201	9.9
250																					237	5.2	234	6.6	231	7.9	228	9
275																							261	5.3	258	6.7	255	8
300																									285	5.3	282	6.7
325																											309	5.4
	50#		75#		100#		125#		150#		175#		200#		225#		250#		275#		300#		325#		350#		375#	

SPECIFIC GRAVITY = 0.65 K=1.27 INLET TEMP=70 f BAROMETER = 14.5 PSI

DISCHARGE PRESSURE - PSIG

INLET PSIG	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp
50	26	7.8	22	7.7	20	7.6	18	7.5																						
75	49	9.7	47	9.8	45	10	43	10	41	10.1	38	10.1	36	10.1	34	10.1	32	10.1												
100	70	11.2	68	11.4	66	11.6	64	11.8	62	12	59	12.1	57	12.2	55	12.3	53	12.3	51	12.4	49	12.4								
125	97	11.6	95	12	92	12.3	90	12.7	88	13	85	13.3	83	13.5	81	13.7	78	13.9	76	14.1	74	14.2	72	14.3	70	14.4				
150	122	11.8	119	12.4	117	12.9	114	13.3	112	13.7	110	14.1	107	14.5	105	14.8	103	15.1	100	15.3	98	15.6	96	15.8	93	16	91	16.1		
175	147	11.8	144	12.4	142	13	139	13.6	137	14.1	134	14.6	132	15.1	129	15.5	127	15.9	125	16.2	122	16.5	120	16.8	117	17.1	115	17.4	113	17.6
200	173	11.4	170	12.2	167	12.9	165	13.6	162	14.2	160	14.8	157	15.4	154	15.9	152	16.4	150	16.8	147	17.2	145	17.6	142	18	140	18.3	137	18.6
225	199	10.9	196	11.8	193	12.6	191	13.4	188	14.1	185	14.8	183	15.4	180	16	177	16.6	175	17.1	172	17.6	170	18.1	167	18.5	165	19	162	19.4
250	225	10.1	222	11.1	219	12	217	12.9	214	13.8	211	14.5	209	15.3	206	16	203	16.6	201	17.2	198	17.8	195	18.4	193	18.9	190	19.4	188	19.8
275	252	9.1	249	10.3	246	11.3	243	12.3	240	13.2	238	14.1	235	14.9	232	15.7	229	16.4	227	17.1	224	17.8	221	18.4	219	19	216	19.6	212	20
300	279	8	276	9.3	273	10.4	270	11.5	267	12.5	264	13.5	261	14.4	259	15.3	256	16.1	253	16.9	250	17.6	248	18.3	245	19	242	19.6	237	20
325	306	6.8	303	8.1	300	9.4	297	10.6	294	11.7	291	12.7	288	13.7	285	14.7	283	15.6	280	16.4	277	17.2	274	18	271	18.8	269	19.5	263	20
350	334	5.4	331	6.9	328	8.2	325	9.5	322	10.7	319	11.8	316	12.9	313	13.9	310	14.9	307	15.9	304	16.7	301	17.6	298	18.4	296	19.2	293	19.9
375			359	5.5	355	6.9	352	8.3	349	9.6	346	10.8	343	12	340	13.1	337	14.1	334	15.1	331	16.1	329	17	326	17.9	323	18.8	320	19.6
400					384	5.5	381	7	377	8.4	374	9.7	371	10.9	368	12.1	365	13.2	362	14.3	359	15.4	356	16.3	353	17.3	350	18.2	347	19.1
425							409	5.6	406	7	403	8.4	400	9.7	396	11	393	12.2	390	13.4	387	14.5	384	15.5	381	16.6	378	17.5	375	18.5
450									435	5.6	431	7.1	428	8.5	425	9.8	422	11.1	419	12.3	416	13.5	413	14.6	410	15.7	407	16.8	403	17.8
475											460	5.6	457	7.1	454	8.5	451	9.9	448	11.2	445	12.4	441	13.6	438	14.8	435	15.9	432	17
500													486	5.7	483	7.2	480	8.6	477	10	473	11.3	470	12.5	467	13.8	464	14.9	461	16.8
525															513	5.7	509	7.2	506	8.6	503	10	500	11.4	496	12.6	493	13.9	490	15.1
550																	539	5.7	536	7.2	533	8.7	529	10.1	526	11.4	523	12.7	520	14
575																			566	5.8	563	7.3	559	8.7	556	10.1	553	11.5	549	12.8
	400#		425#		450#		475#		500#		525#		550#		575#		600#		625#		650#		675#		700#		725#		750#	

DISCHARGE PRESSURE - PSIG