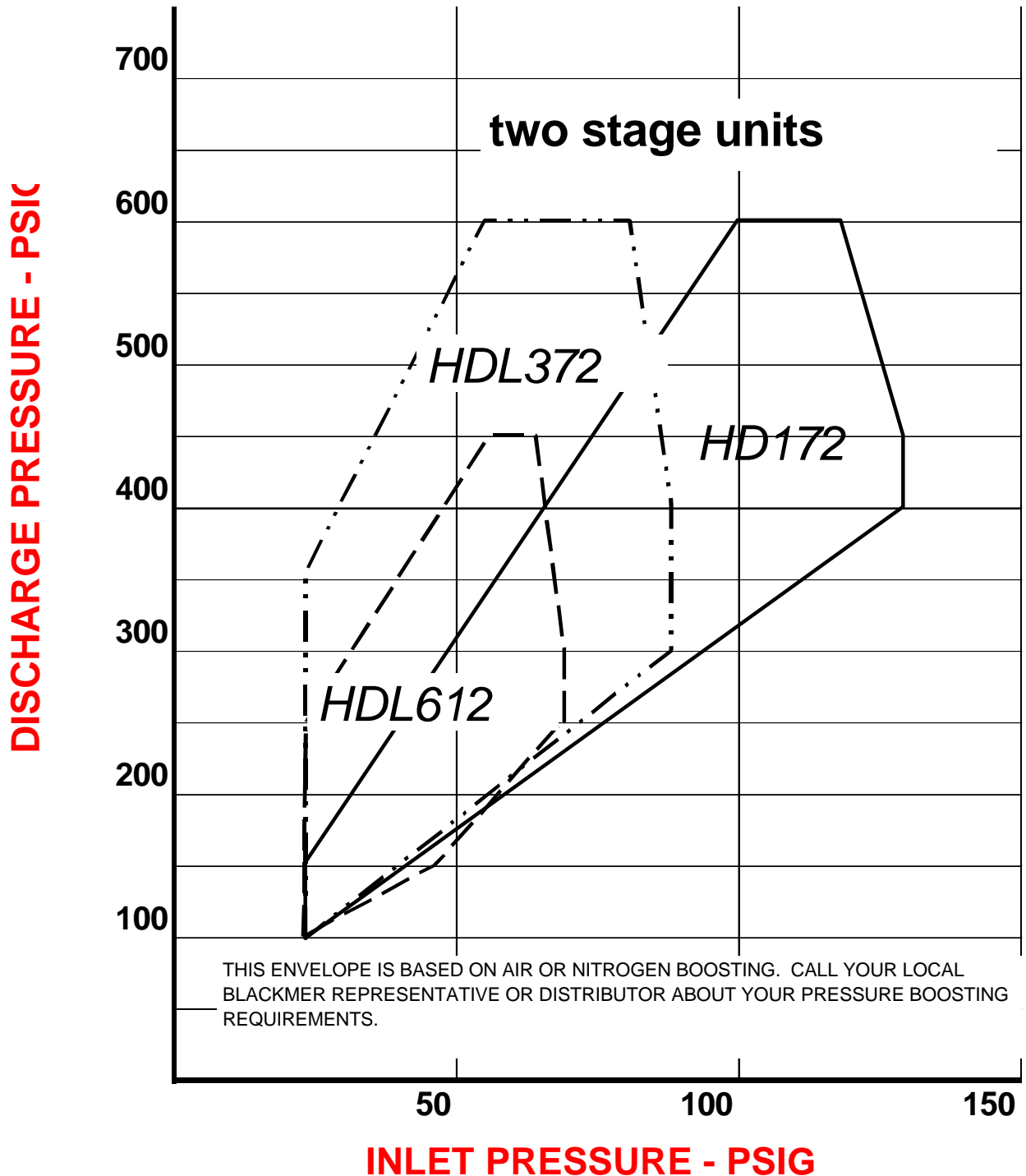


**NON-LUBE TWO-STAGE BOOSTER COMPRESSORS  
OPERATING ENVELOPE**



# NON-LUBE TWO-STAGE BOOSTER COMPRESSORS OPERATING ENVELOPE

**ESTIMATED PERFORMANCE BLACKMER MODEL HD172C AIR - NITROGEN 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
25	14	2.9	14	3.4																		
30	16	3	16	3.5	16	3.9																
35			18	3.6	17	4	17	4.4														
40			20	3.7	19	4.2	19	4.5														
45			22	3.8	21	4.3	21	4.7	21	5												
50					23	4.4	23	4.8	23	5.2												
55					25	4.5	25	4.9	24	5.3	24	5.7										
60					27	4.5	27	5	26	5.5	26	5.8										
65							29	5.1	28	5.6	28	6	28	6.3								
70							30	5.2	30	5.7	30	6.1	29	6.5	29	6.8						
75							32	5.3	32	5.8	32	6.2	31	6.6	31	7						
80									34	5.9	33	6.4	33	6.8	33	7.1	32	7.5				
85									36	6	35	6.5	35	6.9	35	7.3	34	7.6				
90									38	6.1	37	6.6	37	7	37	7.4	36	7.8	36	8.1		
95									39	6.1	39	6.7	39	7.1	38	7.5	38	7.9	38	8.3		
100											41	6.7	41	7.2	40	7.7	40	8.1	40	8.4	39	8.8
105													42	7.3	42	7.8	42	8.2	41	8.6	41	8.9
110													44	7.4	44	7.9	44	8.3	43	8.7	43	9.1
115													46	7.5	46	8	46	8.4	45	8.8	45	9.2
120													48	7.6	48	8.1	47	8.5	47	9		
125													50	7.7	50	8.2	49	8.6				
130													52	7.7	51	8.3						
	100#		150#		200#		250#		300#		350#		400#		450#		500#		550#		600#	

DISCHARGE PRESSURE - PSIG

**ESTIMATED PERFORMANCE BLACKMER MODEL HDL372C AIR - NITROGEN 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
25	42	6.8	41	8.1	40	9.2	40	10.1	39	10.9	38	11.5										
30	47	6.9	46	8.4	46	9.6	45	10.6	44	11.4	44	12.1										
35			52	8.6	51	9.9	50	11	50	11.9	49	12.7	48	13.4								
40			57	8.8	56	10.2	56	11.3	55	12.3	54	13.2	54	14								
45					62	10.4	61	11.6	60	12.7	60	13.6	59	14.5	58	15.2						
50					67	10.6	67	11.9	66	13.1	65	14.1	64	15	64	15.8	63	16.5				
55					73	10.8	72	12.2	71	13.4	70	14.4	70	15.4	69	16.3	68	17.1	68	17.8	67	18.5
60					78	10.9	77	12.4	76	13.7	76	14.8	75	15.8	74	16.7	74	17.6	73	18.3	72	19.1
65							83	12.6	82	13.9	81	15.1	80	16.2	80	17.1	79	18	78	18.8	78	19.6
70							88	12.8	87	14.2	86	15.4	86	16.5	85	17.5	84	18.5	84	19.3	80	19.4
75							93	12.9	93	14.4	92	15.7	91	16.9	90	17.9	90	18.9	89	19.8	85	19.9
80							99	13.1	98	14.6	97	16	96	17.2	96	18.3	95	19.3	91	19.5	88	19.9
85							104	13.2	103	14.8	103	16.2	102	17.5	101	18.6	100	19.7				
90									109	14.9	108	16.4	107	17.7								
	100#		150#		200#		250#		300#		350#		400#		450#		500#		550#		600#	

DISCHARGE PRESSURE - PSIG

**ESTIMATED PERFORMANCE BLACKMER MODEL HDL612 AIR - NITROGEN BOOSTING**

INLET PSIG	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp	scfm	bhp
25	95	15	94	17.9	92.1	20.2	90.6	22.1						
30			106	18.6	104	21.1	102.9	23.1						
35			119	19.1	117	21.9	115	24.1	113.7	26				
40			131	19.6	129	22.5	128	25	126	27.1				
45			143	20	142	23.2	140	25.8	138	28	136.7	30		
50					154	23.7	152	26.5	151	28.9	149	31		
55					167	24.2	165	27.1	163	29.6	161	31.9	159.7	33.9
60					179	24.6	177	27.7	175	30.4	174	32.7	171.9	34.9
65							190	28.2	188	31				
	100#		150#		200#		250#		300#		350#		400#	

DISCHARGE PRESSURE - PSIG