



Company: Ariel Corporation
 Quote:
 Case 1:

Ariel Performance

Customer:
 Inquiry:
 Project:



Compressor Data:

Elevation,ft:	2800.0	Barmtr,psia:	13.251	Ambient,°F:	100.00
Frame:	JGH/2	Stroke, in:	4.50	Rod Dia, in:	2.000
Max RL Tot, lbf:	48000	Max RL Tens, lbf:	24000	Max RL Comp, lbf:	30000
Rated RPM:	1200	Rated BHP:	680.0	Rated PS FPM:	900.0
Calc RPM:	1200.0	Calc BHP:	345	Calc PS FPM:	900.0

Driver Data:

Type: Unselected
 Mfg:
 Model:
 BHP: 0
 Avail: 0 (0)

Services

Stage Data:	Service 1	
	#1	#2
Flow Req'd, MMSCFD	3.000	3.000
Flow Calc, MMSCFD	2.748	2.748
Cyl BHP per Stage	157.7	180.6
Specific Gravity	0.65	0.65
Ratio of Sp Ht (N)	1.2559	1.2554
Comp Suct (Zs)	0.9784	0.9563
Comp Disch (Zd)	0.9721	0.9516
Pres Suct Line, psig	100.00	N/A
Pres Suct Flg, psig	95.00	269.89
Pres Disch Flg, psig	276.10	810.00
Pres Disch Line, psig	N/A	800.00
Pres Ratio F/F	2.673	2.908
Temp Suct, °F	80.00	120.00
Temp Clr Disch, °F	120.00	120.00

Cylinder Data:

	Throw 1	Throw 2
Cyl Model	9-5/8T	5-1/2ET
Cyl Bore, in	9.125	5.500
Cyl RDP (API), psig	1154.5	1568.2
Cyl MAWP, psig	1270.0	1725.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	398.9	138.7
Pres Suct Intl, psig	90.32	256.16
Temp Suct Intl, °F	85	125
Suct Zsph	0.9791	0.9576
Pres Disch Intl, psig	288.96	842.87
Temp Disch Intl, °F	218	280
HE Suct Gas Vel, FPM	6842	7740
HE Disch Gas Vel, FPM	6431	6569
HE Spcrs Used/Max	0/4	0/2
HE Vol Pkt Avail, %	1.05+60.05	No Pkt
Vol Pkt Used, %	0.00 (V)	No Pkt
HE Min Clr, %	21.19	11.28
HE Total Clr, %	22.24	11.28
CE Suct Gas Vel, FPM	6513	6716
CE Disch Gas Vel, FPM	6122	5701
CE Spcrs Used/Max	0/4	0/2
CE Min Clr, %	23.19	13.38
CE Total Clr, %	23.19	13.38
Suct Vol Eff HE/CE, %	67.2/66.1	78.3/75.5
Disch Event HE/CE, ms	8.8/9.9	9.2/10.3
Suct Pseudo-Q HE/CE	4.8/4.3	4.1/3.1
Gas Rod Ld Comp, lbf	13300 C	14811 C
Gas Rod Ld Tens, lbf	12058 T	11243 T
Gas Rod Ld Total, lbf	25358	26054
Xhd Pin Deg/%Rvrsl lbf	169/88.5	163/97.3
Flow Calc, MMSCFD	2.748	2.748
Cyl BHP	157.7	180.6