Ariel Performance



CE Total CIr, %

Suct Vol Eff HE/CE, %

Disch Event HE/CE, ms

Suct Pseudo-Q HE/CE

Gas Rod Ld Comp. %

Gas Rod Ld Tens. %

Gas Rod Ld Total, %

Flow Calc, MMSCFD

Cyl BHP

Xhd Pin Deg/%Rvrsl lbf

14.53

68.1/68.8

10.3/12.3

7.9/7.8

53.5 C

57.7 T

138/95.0

57.9

3.498

301.1

Company: Quote:

Ariel Corporation

Customer: Inquiry:

Confidential



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Case:4 - Pkg:3

7.7.8.0

Case 4:

Project: Acid Gas Treater & Injection Proposal

Compressor Data:	Driver Data:
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Elevation,ft:	2800.00	Barmtr,psia:	13.251	Ambient,F:	110.00	Type:	Electric
Frame: (ELP)	KBK/4	Stroke, in:	6.00	Rod Dia, in:	2.000	Mfg:	
Max RL Tot, lbf:	92000	Max RL Tens, lbf:	46000	Max RL Comp, lbf:	50000	Model:	60 Hz - 8 Po
Rated RPM:	1200	Rated BHP:	3680.0	Rated PS FPM:	1200.0	BHP:	0
Calc RPM:	801 N	RHP.	904	Calc PS FPM:	801 N	Δvail·	0

891.0 **SOUR GAS-2 Services** Service 1 Gas Model VMG-APRNGL2 Stage Data: 2 3 4 1 3.180 Target Flow, MMSCFD 3.180 3.180 3.180 Flow Calc, MMSCFD 3.444 3.424 3.498 3.495 BHP per Stage 205.0 167.1 301.1 213.2 Specific Gravity 1.2724 1.2731 1.2826 1.2863 Ratio of Sp Ht (N) 1.3007 1.3052 1.3200 1.3531 Comp Suct (Zs) 0.9912 0.9742 0.9349 0.8278 Comp Disch (Zd) 0.9867 0.9656 0.9170 0.8050 Pres Suct Line, psig 6.00 N/A N/A N/A Pres Suct Flg, psig 5.81 54.78 156.19 407.57 Pres Disch Flg, psig 56.32 160.35 415.08 1010.13 Pres Disch Line, psig N/A N/A N/A 1000.00 Pres Ratio F/F 3.650 2.552 2.528 2.432 Temp Suct, F 80.00 120.00 120.00 120.00 Temp Clr Disch, F 120.00 120.00 120.00 120.00 Cylinder Data: Throw 1 Throw 2 Throw 4 Throw 3 Cyl Model 24-1/8K:20 12-1/2K:21 8-3/8K:20 5-3/8K:20 12.500 Cyl Bore, in 24.125 7.875 5.000 Cyl RDP (API), psig 250.0 727.3 1722.7 2286.4 Cyl MAWP, psig 275.0 0.008 1895.0 2515.0 Cyl Action DBL **DBL** DBL DBL Cyl Disp, CFM 2818.7 749.6 291.7 111.8 Pres Suct Intl, psig 3.64 50.27 143.57 384.70 Temp Suct Intl, F 97 128 126 125 Pres Disch Intl, psig 169.99 1059.90 62.14 445.57 Temp Disch Intl, F 293 301 327 299 HE Suct Gas Vel, FPM 7901 6202 6538 5498 HE Disch Gas Vel. FPM 6706 5334 6010 4867 HE Spcrs Used/Max 0/0 0/4 0/4 0/2 HE Vol Pkt Avail 0.75+50.51 No Pkt No Pkt No Pkt Vol Pkt Used 0.00 (V) % No Pkt No Pkt No Pkt HE Min Clr, % 14.21 17.31 17.99 20.84 HE Total CIr, % 14.96 17.31 17.99 20.84 CE Suct Gas Vel, FPM 7846 6043 6116 4618 CE Disch Gas Vel. FPM 6660 5198 5623 4088 CE Spcrs Used/Max 0/0 0/4 0/4 0/2 CE Min Clr, % 14.53 18.38 20.47 31.16

18.38

76.6/75.4

13.1/15.2

5.9/5.6

29.7 C

30.7 T

171/96.1

31.5

3.495

213.2

20.47

75.5/72.8

13.1/15.0

8.2/7.2

30.4 C

28.8 T

180/84.6

31.0

3.444

205.0

31.16

73.5/62.9

13.1/14.2

6.1/4.3

29.1 C

21.4 T

158/77.7

26.6

3.424

167.1