



Ariel Performance



Company: Com-Pac Systems, Inc.
 Quote:
 7.7.0.3 Case 1: Clearance Added

Customer: Vintage Production
 Inquiry:
 Project: Shiells Canyon CO2 Plant

Compressor Data:

Elevation, ft: 850.00
 Frame: JGJ/2
 Max RL Tot, lbf: 42000
 Rated RPM: 1800
 Calc RPM: 1780.0

Barmtr, psia: 14.244
 Stroke, in: 3.50
 Max RL Tens, lbf: 21000
 Rated BHP: 620.0
 BHP: 416

Ambient, °F: 100.00
 Rod Dia, in: 1.500
 Max RL Comp, lbf: 23000
 Rated PS FPM: 1050.0
 Calc PS FPM: 1038.3

Driver Data:

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

Services

Gas Model

Service 1

VMG

Stage Data:

1

Target Flow, MMSCFD

6.100

Flow Calc, MMSCFD

6.100

BHP per Stage

410.5

Specific Gravity

0.8320

Ratio of Sp Ht (N)

1.2460

Comp Suct (Zs)

0.9825

Comp Disch (Zd)

0.9765

Pres Suct Line, psig

68.00

Pres Suct Flg, psig

67.18

Pres Disch Flg, psig

205.00

Pres Disch Line, psig

200.00

Pres Ratio F/F

2.693

Temp Suct, °F

100.00

Temp Clr Disch, °F

120.00

Cylinder Data:

Throw 1

Throw 2

Cyl Model

11-1/2RJ

11-1/2RJ

Cyl Bore, in

11.500

11.500

Cyl RDP (API), psig

454.5

454.5

Cyl MAWP, psig

500.0

500.0

Cyl Action

DBL

DBL

Cyl Disp, CFM

742.6

742.6

Pres Suct Intl, psig

58.30

58.30

Temp Suct Intl, °F

107

107

Pres Disch Intl, psig

227.97

227.97

Temp Disch Intl, °F

259

259

HE Suct Gas Vel, FPM

9666

9666

HE Disch Gas Vel, FPM

8869

8869

HE Spcrs Used/Max

0/2

0/2

HE Vol Pkt Avail, %

1.24+57.26

1.24+57.26

Vol Pkt Used, %

25.85 (V)

25.85 (V)

HE Min Clr, %

23.87

23.87

HE Total Clr, %

39.91

39.91

CE Suct Gas Vel, FPM

9502

9502

CE Disch Gas Vel, FPM

8718

8718

CE Spcrs Used/Max

0/2

0/2

CE Min Clr, %

24.86

24.86

CE Total Clr, %

24.86

24.86

Suct Vol Eff HE/CE, %

45.4/63.8

45.4/63.8

Disch Event HE/CE, ms

4.7/6.6

4.7/6.6

Suct Pseudo-Q HE/CE

6.8/6.7

6.8/6.7

Gas Rod Ld Comp, %

77.2 C

77.2 C

Gas Rod Ld Tens, %

81.9 T

81.9 T

Gas Rod Ld Total, %

83.2

83.2

Xhd Pin Deg/%RvrsI lbf

169/83.6

169/83.6

Flow Calc, MMSCFD

3.050

3.050

Cyl BHP

205.2

205.2