



Company: Ariel Corporation

Quote:

7.7.11.0 Remarks: 3304 Blowcase Package

Ariel Performance

Customer: IRON HUB

Inquiry:

Project: IH-42949

**Compressor Data:**

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	45	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service**Stage Data**

	Service 1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.251	0.251
Cyl BHP per Stage	15.5	23.3
Specific Gravity	0.6500	0.6500
Ratio of Sp Ht (N)	1.2488	1.2394
Comp Suct (Zs)	0.9939	0.9867
Comp Disch (Zd)	0.9916	0.9823
Pres Suct Line, psig	18.00	N/A
Pres Suct Flg, psig	17.69	72.92
Pres Disch Flg, psig	76.10	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.879	4.271
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	16.32	68.49
Temp Suct Intl, F	84	126
Suct Zsph	0.9940	0.9871
Pres Disch Intl, psig	79.52	371.14
Temp Disch Intl, F	223	330
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	68.0/67.1	55.0/51.2
Disch Event HE/CE, ms	5.6/6.5	4.2/4.7
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	12.0	29.1
Gas Rod Ld Tens, %	12.2	27.4
Gas Rod Ld Total, %	12.7	29.7
Xhd Pin Deg/%RvrsI	157/70.5	136/89.9
Cyl Flow Calc, MMSCFD	0.251	0.251
Cyl BHP	15.5	23.3

Step: C1 - Default Cfg



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Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	47	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.271	0.271
Cyl BHP per Stage	16.4	24.4
Specific Gravity	0.6500	0.6497
Ratio of Sp Ht (N)	1.2488	1.2396
Comp Suct (Zs)	0.9934	0.9860
Comp Disch (Zd)	0.9911	0.9815
Pres Suct Line, psig	20.00	N/A
Pres Suct Flg, psig	19.67	76.34
Pres Disch Flg, psig	79.62	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.813	4.109
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	18.22	71.73
Temp Suct Intl, F	84	126
Suct Zsph	0.9936	0.9865
Pres Disch Intl, psig	83.18	371.27
Temp Disch Intl, F	220	324
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	69.0/68.1	56.9/53.3
Disch Event HE/CE, ms	5.7/6.6	4.4/4.9
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	12.4	28.9
Gas Rod Ld Tens, %	12.5	27.1
Gas Rod Ld Total, %	13.1	29.4
Xhd Pin Deg/%RvrsI	157/71.2	138/90.4
Cyl Flow Calc, MMSCFD	0.271	0.271
Cyl BHP	16.4	24.4

Step: C1 - Default Cfg



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Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	49	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	Service 1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.291	0.291
Cyl BHP per Stage	17.2	25.5
Specific Gravity	0.6500	0.6504
Ratio of Sp Ht (N)	1.2488	1.2399
Comp Suct (Zs)	0.9930	0.9855
Comp Disch (Zd)	0.9906	0.9808
Pres Suct Line, psig	22.00	N/A
Pres Suct Flg, psig	21.65	79.74
Pres Disch Flg, psig	83.12	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.754	3.959
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	20.11	74.95
Temp Suct Intl, F	84	125
Suct Zsph	0.9932	0.9859
Pres Disch Intl, psig	86.84	371.41
Temp Disch Intl, F	217	318
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	69.9/68.9	58.7/55.3
Disch Event HE/CE, ms	5.8/6.7	4.4/5.1
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	12.7	28.6
Gas Rod Ld Tens, %	12.9	26.8
Gas Rod Ld Total, %	13.4	29.1
Xhd Pin Deg/%RvrsI	157/72.0	139/91.0
Cyl Flow Calc, MMSCFD	0.291	0.291
Cyl BHP	17.2	25.5

Step: C1 - Default Cfg



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Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	51	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.311	0.311
Cyl BHP per Stage	18.0	26.5
Specific Gravity	0.6500	0.6501
Ratio of Sp Ht (N)	1.2507	1.2419
Comp Suct (Zs)	0.9928	0.9852
Comp Disch (Zd)	0.9903	0.9808
Pres Suct Line, psig	24.00	N/A
Pres Suct Flg, psig	23.63	83.11
Pres Disch Flg, psig	86.58	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.700	3.820
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	22.00	78.15
Temp Suct Intl, F	84	125
Suct Zsph	0.9930	0.9857
Pres Disch Intl, psig	90.45	371.48
Temp Disch Intl, F	215	314
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	70.7/69.8	60.4/57.2
Disch Event HE/CE, ms	5.9/6.8	4.6/5.3
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	13.1	28.3
Gas Rod Ld Tens, %	13.2	26.5
Gas Rod Ld Total, %	13.8	28.8
Xhd Pin Deg/%RvrsI	156/72.8	140/91.5
Cyl Flow Calc, MMSCFD	0.311	0.311
Cyl BHP	18.0	26.5

Step: C1 - Default Cfg



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**Compressor Data:**

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	52	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service**Stage Data**

	Service 1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.331	0.331
Cyl BHP per Stage	18.8	27.4
Specific Gravity	0.6500	0.6500
Ratio of Sp Ht (N)	1.2503	1.2417
Comp Suct (Zs)	0.9923	0.9845
Comp Disch (Zd)	0.9897	0.9797
Pres Suct Line, psig	26.00	N/A
Pres Suct Flg, psig	25.61	86.51
Pres Disch Flg, psig	90.08	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.653	3.690
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	23.89	81.37
Temp Suct Intl, F	84	125
Suct Zsph	0.9925	0.9849
Pres Disch Intl, psig	94.10	371.61
Temp Disch Intl, F	212	309
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	71.4/70.5	62.0/58.9
Disch Event HE/CE, ms	6.0/6.9	4.7/5.5
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	13.4	28.1
Gas Rod Ld Tens, %	13.5	26.2
Gas Rod Ld Total, %	14.1	28.5
Xhd Pin Deg/%RvrsI	155/73.6	141/92.0
Cyl Flow Calc, MMSCFD	0.331	0.331
Cyl BHP	18.8	27.4

Step: C1 - Default Cfg



Ariel Performance



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Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	54	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.351	0.351
Cyl BHP per Stage	19.6	28.3
Specific Gravity	0.6500	0.6503
Ratio of Sp Ht (N)	1.2501	1.2418
Comp Suct (Zs)	0.9919	0.9839
Comp Disch (Zd)	0.9892	0.9791
Pres Suct Line, psig	28.00	N/A
Pres Suct Flg, psig	27.59	89.90
Pres Disch Flg, psig	93.55	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.609	3.569
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	25.78	84.58
Temp Suct Intl, F	84	125
Suct Zsph	0.9921	0.9844
Pres Disch Intl, psig	97.73	371.74
Temp Disch Intl, F	210	304
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	72.0/71.2	63.4/60.4
Disch Event HE/CE, ms	6.1/6.9	4.9/5.6
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	13.7	27.8
Gas Rod Ld Tens, %	13.8	25.8
Gas Rod Ld Total, %	14.5	28.2
Xhd Pin Deg/%RvrsI	155/74.4	146/92.5
Cyl Flow Calc, MMSCFD	0.351	0.351
Cyl BHP	19.6	28.3

Step: C1 - Default Cfg



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Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	56	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.371	0.371
Cyl BHP per Stage	20.4	29.1
Specific Gravity	0.6500	0.6501
Ratio of Sp Ht (N)	1.2501	1.2421
Comp Suct (Zs)	0.9915	0.9834
Comp Disch (Zd)	0.9887	0.9785
Pres Suct Line, psig	30.00	N/A
Pres Suct Flg, psig	29.57	93.29
Pres Disch Flg, psig	97.03	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.570	3.456
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	27.68	87.79
Temp Suct Intl, F	84	125
Suct Zsph	0.9917	0.9838
Pres Disch Intl, psig	101.35	371.85
Temp Disch Intl, F	208	299
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	72.6/71.8	64.8/62.0
Disch Event HE/CE, ms	6.2/7.0	5.0/5.7
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	14.1	27.5
Gas Rod Ld Tens, %	14.2	25.5
Gas Rod Ld Total, %	14.8	27.9
Xhd Pin Deg/%RvrsI	155/75.3	150/93.0
Cyl Flow Calc, MMSCFD	0.371	0.371
Cyl BHP	20.4	29.1

Step: C1 - Default Cfg



Ariel Performance



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Quote:

Inquiry:

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Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot, %:	100	Max RL Tens, %:	100	Max RL Comp, %:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	57	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.391	0.391
Cyl BHP per Stage	21.2	29.9
Specific Gravity	0.6500	0.6497
Ratio of Sp Ht (N)	1.2500	1.2422
Comp Suct (Zs)	0.9910	0.9827
Comp Disch (Zd)	0.9881	0.9777
Pres Suct Line, psig	32.00	N/A
Pres Suct Flg, psig	31.55	96.67
Pres Disch Flg, psig	100.49	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.534	3.350
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	29.57	90.99
Temp Suct Intl, F	84	125
Suct Zsph	0.9912	0.9832
Pres Disch Intl, psig	104.96	371.95
Temp Disch Intl, F	206	294
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	73.1/72.3	66.1/63.4
Disch Event HE/CE, ms	6.2/7.1	5.2/5.8
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	14.4	27.3
Gas Rod Ld Tens, %	14.5	25.2
Gas Rod Ld Total, %	15.2	27.6
Xhd Pin Deg/%RvrsI	156/76.2	156/93.5
Cyl Flow Calc, MMSCFD	0.391	0.391
Cyl BHP	21.2	29.9

Step: C1 - Default Cfg



Company: Ariel Corporation

Quote:

7.7.11.0 Remarks: 3304 Blowcase Package

Ariel Performance

Customer: IRON HUB

Inquiry:

Project: IH-42949

**Compressor Data:**

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	59	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service**Stage Data**

	Service 1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.412	0.412
Cyl BHP per Stage	22.0	30.6
Specific Gravity	0.6500	0.6503
Ratio of Sp Ht (N)	1.2509	1.2432
Comp Suct (Zs)	0.9905	0.9819
Comp Disch (Zd)	0.9874	0.9765
Pres Suct Line, psig	34.00	N/A
Pres Suct Flg, psig	33.53	100.03
Pres Disch Flg, psig	103.93	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.500	3.251
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	31.46	94.17
Temp Suct Intl, F	84	125
Suct Zsph	0.9907	0.9823
Pres Disch Intl, psig	108.56	372.07
Temp Disch Intl, F	205	291
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	73.6/72.8	67.4/64.7
Disch Event HE/CE, ms	6.3/7.2	5.3/6.0
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	14.8	27.0
Gas Rod Ld Tens, %	14.8	24.9
Gas Rod Ld Total, %	15.5	27.3
Xhd Pin Deg/%RvrsI	157/77.1	167/94.0
Cyl Flow Calc, MMSCFD	0.412	0.412
Cyl BHP	22.0	30.6

Step: C1 - Default Cfg



Ariel Performance



Company: Ariel Corporation

Customer: IRON HUB

Quote:

Inquiry:

7.7.11.0 Remarks: 3304 Blowcase Package

Project: IH-42949

Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	60	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.432	0.432
Cyl BHP per Stage	22.7	31.3
Specific Gravity	0.6500	0.6498
Ratio of Sp Ht (N)	1.2520	1.2447
Comp Suct (Zs)	0.9904	0.9820
Comp Disch (Zd)	0.9874	0.9772
Pres Suct Line, psig	36.00	N/A
Pres Suct Flg, psig	35.51	103.39
Pres Disch Flg, psig	107.38	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.470	3.157
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	33.35	97.36
Temp Suct Intl, F	84	125
Suct Zsph	0.9906	0.9825
Pres Disch Intl, psig	112.15	372.13
Temp Disch Intl, F	203	287
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	74.1/73.3	68.6/66.0
Disch Event HE/CE, ms	6.4/7.2	5.5/6.2
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	15.1	26.8
Gas Rod Ld Tens, %	15.1	24.6
Gas Rod Ld Total, %	15.9	27.0
Xhd Pin Deg/%RvrsI	158/78.0	166/94.5
Cyl Flow Calc, MMSCFD	0.432	0.432
Cyl BHP	22.7	31.3

Step: C1 - Default Cfg



Ariel Performance



Company: Ariel Corporation

Customer: IRON HUB

Quote:

Inquiry:

7.7.11.0 Remarks: 3304 Blowcase Package

Project: IH-42949

Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	61	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.452	0.452
Cyl BHP per Stage	23.5	31.9
Specific Gravity	0.6500	0.6503
Ratio of Sp Ht (N)	1.2520	1.2449
Comp Suct (Zs)	0.9898	0.9812
Comp Disch (Zd)	0.9867	0.9761
Pres Suct Line, psig	38.00	N/A
Pres Suct Flg, psig	37.49	106.75
Pres Disch Flg, psig	110.82	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.441	3.069
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	35.24	100.54
Temp Suct Intl, F	84	124
Suct Zsph	0.9901	0.9816
Pres Disch Intl, psig	115.75	372.25
Temp Disch Intl, F	202	283
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	74.5/73.8	69.7/67.2
Disch Event HE/CE, ms	6.5/7.3	5.6/6.3
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	15.4	26.5
Gas Rod Ld Tens, %	15.4	24.2
Gas Rod Ld Total, %	16.2	26.7
Xhd Pin Deg/%RvrsI	159/78.9	166/94.9
Cyl Flow Calc, MMSCFD	0.452	0.452
Cyl BHP	23.5	31.9

Step: C1 - Default Cfg



Ariel Performance



Company: Ariel Corporation

Customer: IRON HUB

Quote:

Inquiry:

7.7.11.0 Remarks: 3304 Blowcase Package

Project: IH-42949

Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	63	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service

Stage Data

	1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.473	0.473
Cyl BHP per Stage	24.2	32.5
Specific Gravity	0.6500	0.6504
Ratio of Sp Ht (N)	1.2530	1.2460
Comp Suct (Zs)	0.9896	0.9809
Comp Disch (Zd)	0.9865	0.9761
Pres Suct Line, psig	40.00	N/A
Pres Suct Flg, psig	39.47	110.12
Pres Disch Flg, psig	114.26	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.415	2.985
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	37.13	103.72
Temp Suct Intl, F	84	124
Suct Zsph	0.9898	0.9814
Pres Disch Intl, psig	119.33	372.33
Temp Disch Intl, F	201	279
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	74.9/74.2	70.8/68.4
Disch Event HE/CE, ms	6.5/7.4	5.6/6.4
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	15.8	26.2
Gas Rod Ld Tens, %	15.7	23.9
Gas Rod Ld Total, %	16.5	26.4
Xhd Pin Deg/%RvrsI	162/79.9	166/95.4
Cyl Flow Calc, MMSCFD	0.473	0.473
Cyl BHP	24.2	32.5

Step: C1 - Default Cfg



Company: Ariel Corporation

Quote:

7.7.11.0 Remarks: 3304 Blowcase Package

Ariel Performance

Customer: IRON HUB

Inquiry:

Project: IH-42949

**Compressor Data:**

Elevat'n,ft:	2500.00	Barmtr,psia:	13.400	Ambient,F:	100.00
Frame:	JGA/2	Stroke,in:	3.00	Rod Dia,in:	1.125
Max RL Tot,%:	100	Max RL Tens,%:	100	Max RL Comp,%:	100
Rated RPM:	1800	Rated BHP:	280.0	Rated PS FPM:	900.0
Calc RPM:	1800.0	Calc BHP:	64	Calc PS FPM:	900.0

Driver Data:

Type:	Nat. Gas
Mfg:	Caterpillar
Model:	G3304B NA
BHP:	95
Avail:	80 (15)

Service**Stage Data**

	Service 1	2
Flow Req'd, MMSCFD	0.884	
Flow Calc, MMSCFD	0.493	0.493
Cyl BHP per Stage	25.0	33.0
Specific Gravity	0.6500	0.6499
Ratio of Sp Ht (N)	1.2518	1.2451
Comp Suct (Zs)	0.9891	0.9802
Comp Disch (Zd)	0.9858	0.9751
Pres Suct Line, psig	42.00	N/A
Pres Suct Flg, psig	41.45	113.48
Pres Disch Flg, psig	117.70	355.32
Pres Disch Line, psig	N/A	348.09
Pres Ratio F/F	2.390	2.906
Temp Suct, F	80.00	120.00
Temp Clr Disch, F	120.00	120.00

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),psig	786.4	1154.5
Cyl MAWP,psig	865.0	1270.0
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, psig	39.03	106.91
Temp Suct Intl, F	84	124
Suct Zsph	0.9893	0.9807
Pres Disch Intl, psig	122.92	372.44
Temp Disch Intl, F	199	275
HE Suct Gas Vel, FPM	6943	7951
HE Disch Gas Vel, FPM	6042	7022
HE Spcrs Used/Max	0/1	0/1
HE Vol Pkt Avail	1.01+45.66	1.16+49.54
HE Vol Pkt Used	0.00 (V) %	0.00 (V) %
HE Min Clr, %	18.32	15.01
HE Total Clr, %	19.33	16.17
CE Suct Gas Vel, FPM	6608	7185
CE Disch Gas Vel, FPM	5751	6346
CE Spcrs Used/Max	0/1	0/1
CE Min Clr, %	20.06	17.84
CE Total Clr, %	20.06	17.84
Suct Vol Eff HE/CE, %	75.3/74.5	71.7/69.4
Disch Event HE/CE, ms	6.6/7.4	5.7/6.6
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	16.1	26.0
Gas Rod Ld Tens, %	16.1	23.6
Gas Rod Ld Total, %	16.9	26.1
Xhd Pin Deg/%RvrsI	163/80.8	165/95.8
Cyl Flow Calc, MMSCFD	0.493	0.493
Cyl BHP	25.0	33.0

Step: C1 - Default Cfg