



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,kPaa:	92.388	Ambient,C:	37.78
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:	46	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, E3m3/D	25.000	
Flow Calc, E3m3/D	7.330	7.330
Cyl BHP per Stage	15.9	23.8
Specific Gravity	0.6500	0.6500
Ratio of Sp Ht (N)	1.2482	1.2389
Comp Suct (Zs)	0.9936	0.9863
Comp Disch (Zd)	0.9913	0.9817
Pres Suct Line, kPag	130.00	N/A
Pres Suct Flg, kPag	127.78	512.93
Pres Disch Flg, kPag	535.15	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.850	4.200
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	118.12	481.86
Temp Suct Intl, C	29	52
Suct Zsph	0.9938	0.9867
Pres Disch Intl, kPag	559.18	2559.43
Temp Disch Intl, C	105	164
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, %	68.4/67.5	55.8/52.1
Disch Event HE/CE, ms	5.6/6.5	4.3/4.8
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	12.2	29.0
Gas Rod Ld Tens, %	12.4	27.3
Gas Rod Ld Total, %	12.9	29.6
Xhd Pin Deg/%RvrsI	157/70.8	136/90.1
Cyl Flow Calc, E3m3/D	7.330	7.330
Cyl BHP	15.9	23.8

Step: C1 - Default Cfg



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Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,kPaa:	92.388	Ambient,C:	37.78
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:	48	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, E3m3/D	25.000	
Flow Calc, E3m3/D	7.916	7.917
Cyl BHP per Stage	16.8	25.0
Specific Gravity	0.6500	0.6499
Ratio of Sp Ht (N)	1.2517	1.2425
Comp Suct (Zs)	0.9935	0.9862
Comp Disch (Zd)	0.9912	0.9823
Pres Suct Line, kPag	144.00	N/A
Pres Suct Flg, kPag	141.64	536.38
Pres Disch Flg, kPag	559.29	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.785	4.043
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	131.37	504.10
Temp Suct Intl, C	29	52
Suct Zsph	0.9936	0.9867
Pres Disch Intl, kPag	584.29	2559.78
Temp Disch Intl, C	104	162
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, %	69.5/68.6	57.8/54.3
Disch Event HE/CE, ms	5.8/6.7	4.4/5.0
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	12.5	28.7
Gas Rod Ld Tens, %	12.7	27.0
Gas Rod Ld Total, %	13.2	29.3
Xhd Pin Deg/%Rvrsl	157/71.6	138/90.7
Cyl Flow Calc, E3m3/D	7.916	7.917
Cyl BHP	16.8	25.0

Step: C1 - Default Cfg



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Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,kPaa:	92.388	Ambient,C:	37.78
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:	50	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, E3m3/D	25.000	
Flow Calc, E3m3/D	8.481	8.482
Cyl BHP per Stage	17.6	25.9
Specific Gravity	0.6500	0.6500
Ratio of Sp Ht (N)	1.2495	1.2406
Comp Suct (Zs)	0.9929	0.9853
Comp Disch (Zd)	0.9904	0.9807
Pres Suct Line, kPag	158.00	N/A
Pres Suct Flg, kPag	155.50	560.46
Pres Disch Flg, kPag	584.04	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.729	3.894
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	144.61	526.89
Temp Suct Intl, C	29	52
Suct Zsph	0.9931	0.9857
Pres Disch Intl, kPag	610.16	2561.00
Temp Disch Intl, C	102	158
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, %	70.2/69.3	59.5/56.1
Disch Event HE/CE, ms	5.9/6.8	4.5/5.2
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	12.9	28.5
Gas Rod Ld Tens, %	13.0	26.6
Gas Rod Ld Total, %	13.6	29.0
Xhd Pin Deg/%RvrsI	156/72.3	139/91.2
Cyl Flow Calc, E3m3/D	8.481	8.482
Cyl BHP	17.6	25.9

Step: C1 - Default Cfg



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Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,kPaa:	92.388	Ambient,C:	37.78
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, E3m3/D	25.000	
Flow Calc, E3m3/D	9.057	9.058
Cyl BHP per Stage	18.4	26.9
Specific Gravity	0.6500	0.6497
Ratio of Sp Ht (N)	1.2497	1.2410
Comp Suct (Zs)	0.9925	0.9848
Comp Disch (Zd)	0.9899	0.9801
Pres Suct Line, kPag	172.00	N/A
Pres Suct Flg, kPag	169.36	584.23
Pres Disch Flg, kPag	608.46	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.678	3.757
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	157.86	549.43
Temp Suct Intl, C	29	52
Suct Zsph	0.9927	0.9852
Pres Disch Intl, kPag	635.64	2561.79
Temp Disch Intl, C	101	155
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, %	71.0/70.1	61.1/57.9
Disch Event HE/CE, ms	6.0/6.9	4.7/5.4
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.1
Gas Rod Ld Comp, %	13.2	28.2
Gas Rod Ld Tens, %	13.3	26.3
Gas Rod Ld Total, %	13.9	28.7
Xhd Pin Deg/%RvrsI	156/73.1	140/91.7
Cyl Flow Calc, E3m3/D	9.057	9.058
Cyl BHP	18.4	26.9

Step: C1 - Default Cfg



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Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,kPaa:	92.388	Ambient,C:	37.78
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:	53	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, E3m3/D	25.000	
Flow Calc, E3m3/D	9.639	9.640
Cyl BHP per Stage	19.2	27.9
Specific Gravity	0.6500	0.6500
Ratio of Sp Ht (N)	1.2512	1.2428
Comp Suct (Zs)	0.9922	0.9844
Comp Disch (Zd)	0.9896	0.9799
Pres Suct Line, kPag	186.00	N/A
Pres Suct Flg, kPag	183.22	607.82
Pres Disch Flg, kPag	632.68	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.631	3.631
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	171.10	571.77
Temp Suct Intl, C	29	52
Suct Zsph	0.9924	0.9849
Pres Disch Intl, kPag	660.89	2562.43
Temp Disch Intl, C	100	153
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, %	71.7/70.9	62.8/59.7
Disch Event HE/CE, ms	6.1/6.9	4.8/5.5
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	13.6	27.9
Gas Rod Ld Tens, %	13.7	26.0
Gas Rod Ld Total, %	14.3	28.4
Xhd Pin Deg/%RvrsI	155/74.0	143/92.3
Cyl Flow Calc, E3m3/D	9.639	9.640
Cyl BHP	19.2	27.9

Step: C1 - Default Cfg



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Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,kPaa:	92.388	Ambient,C:	37.78
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:	55	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, E3m3/D	25.000	
Flow Calc, E3m3/D	10.209	10.210
Cyl BHP per Stage	20.0	28.7
Specific Gravity	0.6500	0.6499
Ratio of Sp Ht (N)	1.2493	1.2412
Comp Suct (Zs)	0.9916	0.9835
Comp Disch (Zd)	0.9888	0.9785
Pres Suct Line, kPag	200.00	N/A
Pres Suct Flg, kPag	197.08	631.68
Pres Disch Flg, kPag	657.16	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.589	3.511
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	184.35	594.36
Temp Suct Intl, C	29	52
Suct Zsph	0.9918	0.9839
Pres Disch Intl, kPag	686.48	2563.51
Temp Disch Intl, C	98	149
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, %	72.3/71.4	64.1/61.2
Disch Event HE/CE, ms	6.1/7.0	5.0/5.6
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	13.9	27.7
Gas Rod Ld Tens, %	14.0	25.7
Gas Rod Ld Total, %	14.7	28.1
Xhd Pin Deg/%RvrsI	155/74.8	147/92.8
Cyl Flow Calc, E3m3/D	10.209	10.210
Cyl BHP	20.0	28.7

Step: C1 - Default Cfg



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Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,kPaa:	92.388	Ambient,C:	37.78
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, E3m3/D	25.000	
Flow Calc, E3m3/D	10.795	10.795
Cyl BHP per Stage	20.8	29.5
Specific Gravity	0.6500	0.6497
Ratio of Sp Ht (N)	1.2509	1.2429
Comp Suct (Zs)	0.9912	0.9830
Comp Disch (Zd)	0.9884	0.9781
Pres Suct Line, kPag	214.00	N/A
Pres Suct Flg, kPag	210.94	655.23
Pres Disch Flg, kPag	681.31	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.551	3.400
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	197.60	616.68
Temp Suct Intl, C	29	52
Suct Zsph	0.9914	0.9835
Pres Disch Intl, kPag	711.63	2564.07
Temp Disch Intl, C	97	147
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, %	72.9/72.1	65.5/62.7
Disch Event HE/CE, ms	6.2/7.1	5.1/5.8
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	14.3	27.4
Gas Rod Ld Tens, %	14.3	25.4
Gas Rod Ld Total, %	15.0	27.8
Xhd Pin Deg/%RvrsI	156/75.8	153/93.3
Cyl Flow Calc, E3m3/D	10.795	10.795
Cyl BHP	20.8	29.5

Step: C1 - Default Cfg



Ariel Performance



Company: Ariel Corporation

Customer: IRON HUB

Quote:

Inquiry:

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Project: IH-42949

Compressor Data:

Elevat'n,ft:	2500.00	Barmtr,kPaa:	92.388	Ambient,C:	37.78
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:	58	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, E3m3/D	25.000	
Flow Calc, E3m3/D	11.372	11.372
Cyl BHP per Stage	21.6	30.3
Specific Gravity	0.6500	0.6504
Ratio of Sp Ht (N)	1.2503	1.2427
Comp Suct (Zs)	0.9908	0.9824
Comp Disch (Zd)	0.9878	0.9774
Pres Suct Line, kPag	228.00	N/A
Pres Suct Flg, kPag	224.80	678.87
Pres Disch Flg, kPag	705.54	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.516	3.296
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	210.82	639.03
Temp Suct Intl, C	29	51
Suct Zsph	0.9910	0.9829
Pres Disch Intl, kPag	736.97	2565.01
Temp Disch Intl, C	96	145
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, %	73.4/72.6	66.8/64.1
Disch Event HE/CE, ms	6.3/7.1	5.3/5.9
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	14.6	27.2
Gas Rod Ld Tens, %	14.7	25.0
Gas Rod Ld Total, %	15.4	27.5
Xhd Pin Deg/%RvrsI	156/76.7	166/93.8
Cyl Flow Calc, E3m3/D	11.372	11.372
Cyl BHP	21.6	30.3

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,kPaa:	92.388	Ambient,C:	37.78
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

	1	2
Flow Req'd, E3m3/D	25.000	
Flow Calc, E3m3/D	11.956	11.957
Cyl BHP per Stage	22.4	31.0
Specific Gravity	0.6500	0.6498
Ratio of Sp Ht (N)	1.2510	1.2436
Comp Suct (Zs)	0.9903	0.9816
Comp Disch (Zd)	0.9872	0.9764
Pres Suct Line, kPag	242.00	N/A
Pres Suct Flg, kPag	238.66	702.43
Pres Disch Flg, kPag	729.68	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.483	3.199
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	224.08	661.37
Temp Suct Intl, C	29	51
Suct Zsph	0.9905	0.9821
Pres Disch Intl, kPag	762.12	2565.64
Temp Disch Intl, C	95	142
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, %	73.9/73.1	68.0/65.4
Disch Event HE/CE, ms	6.4/7.2	5.4/6.1
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	15.0	26.9
Gas Rod Ld Tens, %	15.0	24.7
Gas Rod Ld Total, %	15.7	27.1
Xhd Pin Deg/%RvrsI	158/77.6	166/94.2
Cyl Flow Calc, E3m3/D	11.956	11.957
Cyl BHP	22.4	31.0

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,kPaa:	92.388	Ambient,C:	37.78
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, E3m3/D	25.000	
Flow Calc, E3m3/D	12.537	12.537
Cyl BHP per Stage	23.1	31.6
Specific Gravity	0.6500	0.6499
Ratio of Sp Ht (N)	1.2511	1.2439
Comp Suct (Zs)	0.9900	0.9814
Comp Disch (Zd)	0.9869	0.9763
Pres Suct Line, kPag	256.00	N/A
Pres Suct Flg, kPag	252.52	726.00
Pres Disch Flg, kPag	753.81	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.453	3.106
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	237.32	683.69
Temp Suct Intl, C	29	51
Suct Zsph	0.9902	0.9818
Pres Disch Intl, kPag	787.30	2566.31
Temp Disch Intl, C	94	140
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, %	74.3/73.5	69.2/66.7
Disch Event HE/CE, ms	6.4/7.3	5.5/6.2
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	15.3	26.6
Gas Rod Ld Tens, %	15.3	24.4
Gas Rod Ld Total, %	16.1	26.8
Xhd Pin Deg/%RvrsI	158/78.5	166/94.7
Cyl Flow Calc, E3m3/D	12.537	12.537
Cyl BHP	23.1	31.6

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,kPaa:	92.388	Ambient,C:	37.78
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:	62	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, E3m3/D	25.000	
Flow Calc, E3m3/D	13.122	13.122
Cyl BHP per Stage	23.9	32.3
Specific Gravity	0.6500	0.6502
Ratio of Sp Ht (N)	1.2518	1.2449
Comp Suct (Zs)	0.9897	0.9810
Comp Disch (Zd)	0.9866	0.9760
Pres Suct Line, kPag	270.00	N/A
Pres Suct Flg, kPag	266.38	749.52
Pres Disch Flg, kPag	777.89	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.426	3.020
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	250.56	705.96
Temp Suct Intl, C	29	51
Suct Zsph	0.9899	0.9815
Pres Disch Intl, kPag	812.42	2566.97
Temp Disch Intl, C	94	138
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, %	74.7/74.0	70.3/67.9
Disch Event HE/CE, ms	6.5/7.3	5.6/6.4
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	15.6	26.4
Gas Rod Ld Tens, %	15.6	24.1
Gas Rod Ld Total, %	16.4	26.5
Xhd Pin Deg/%RvrsI	161/79.5	165/95.2
Cyl Flow Calc, E3m3/D	13.122	13.122
Cyl BHP	23.9	32.3

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,kPaa:	92.388	Ambient,C:	37.78
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

	1	2
Flow Req'd, E3m3/D	25.000	
Flow Calc, E3m3/D	13.707	13.707
Cyl BHP per Stage	24.7	32.8
Specific Gravity	0.6500	0.6498
Ratio of Sp Ht (N)	1.2525	1.2457
Comp Suct (Zs)	0.9893	0.9805
Comp Disch (Zd)	0.9861	0.9756
Pres Suct Line, kPag	284.00	N/A
Pres Suct Flg, kPag	280.24	773.03
Pres Disch Flg, kPag	801.94	2449.85
Pres Disch Line, kPag	N/A	2400.00
Pres Ratio F/F	2.400	2.938
Temp Suct, C	26.67	48.89
Temp Clr Disch, C	48.89	48.89

Cylinder Data

	Throw 2	Throw 1
Cyl Model	5-1/8JG	3-5/8JG
Cyl Bore,in	5.125	3.625
Cyl RDP (API),kPag	5421.8	7960.3
Cyl MAWP,kPag	5964.0	8756.3
Cyl Action	DBL	DBL
Cyl Disp, CFM	125.8	61.4
Pres Suct Intl, kPag	263.81	728.25
Temp Suct Intl, C	29	51
Suct Zsph	0.9895	0.9810
Pres Disch Intl, kPag	837.49	2567.53
Temp Disch Intl, C	93	136
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, %	75.1/74.4	71.3/69.0
Disch Event HE/CE, ms	6.5/7.4	5.7/6.5
Suct Pseudo-Q HE/CE	3.7/3.4	5.1/4.2
Gas Rod Ld Comp, %	16.0	26.1
Gas Rod Ld Tens, %	15.9	23.7
Gas Rod Ld Total, %	16.7	26.2
Xhd Pin Deg/%RvrsI	164/80.4	166/95.6
Cyl Flow Calc, E3m3/D	13.707	13.707
Cyl BHP	24.7	32.8

Step: C1 - Default Cfg