



FAST-TRACK

your next procurement project
w/ measurable market success

**INLET COMPRESSOR-
ARIEL JGH/4- 3 STAGE**

Description:

INLET COMPRESSOR- ARIEL JGH/4- 3 STAGE

SN:	F-34670		
MFG:	ARIEL	STROKE:	4.50"
TYPE:	JGT/4- 3 STAGE	RPM:	1.200

CYLINDER 1 & 2:

BORE:	17.250"	CLASS:	ET
MODEL:	17-1/4ET	MAWP:	230PSIG

CYLINDER 3:

BORE:	12.250"	CLASS:	ET
MODEL:	12-1/4ET	MAWP:	635PSIG

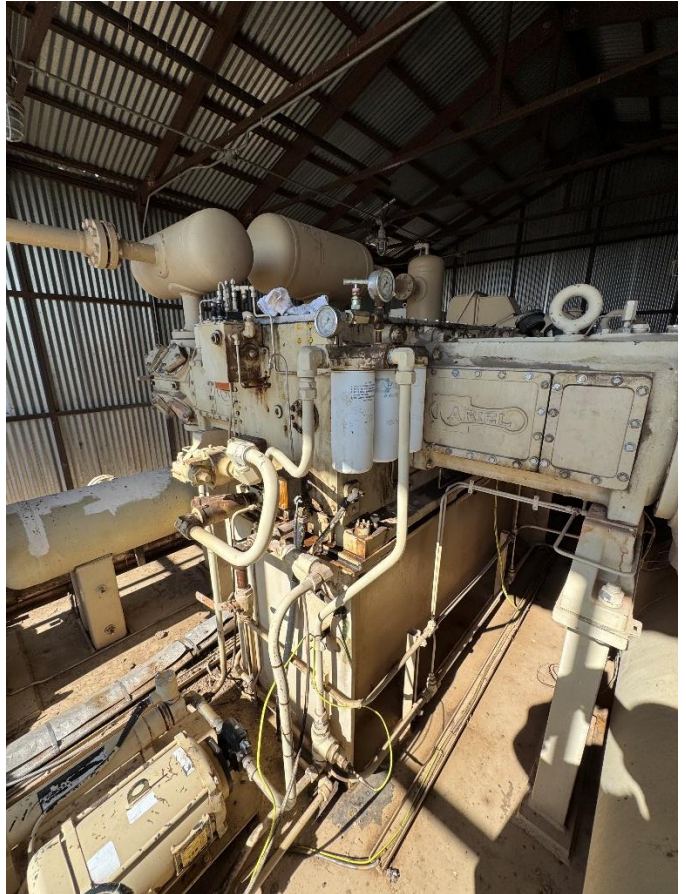
CYLINDER 4:

BORE:	7.375"	CLASS:	ET
MODEL:	7-3/8ET	MAWP:	1135PSIG





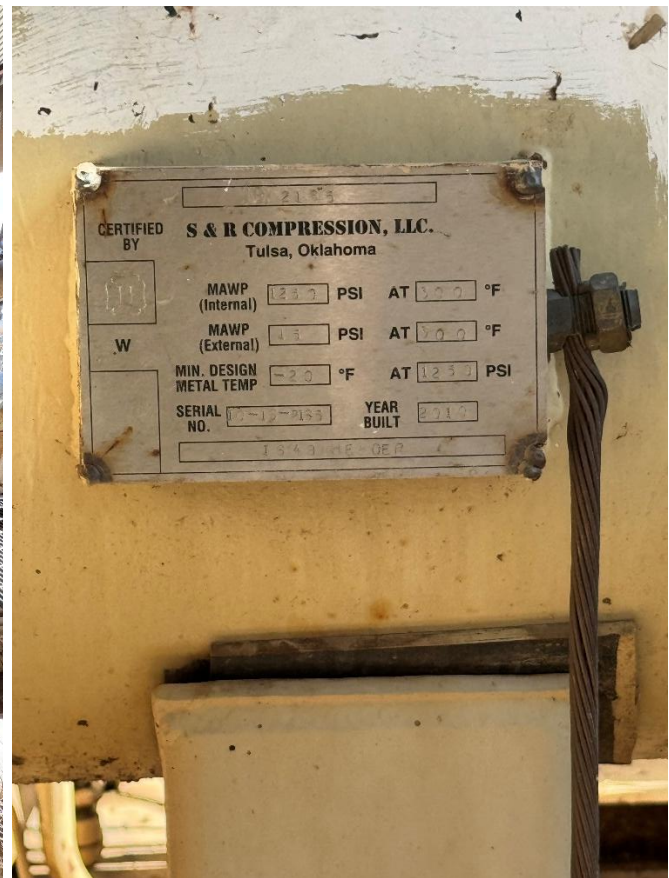
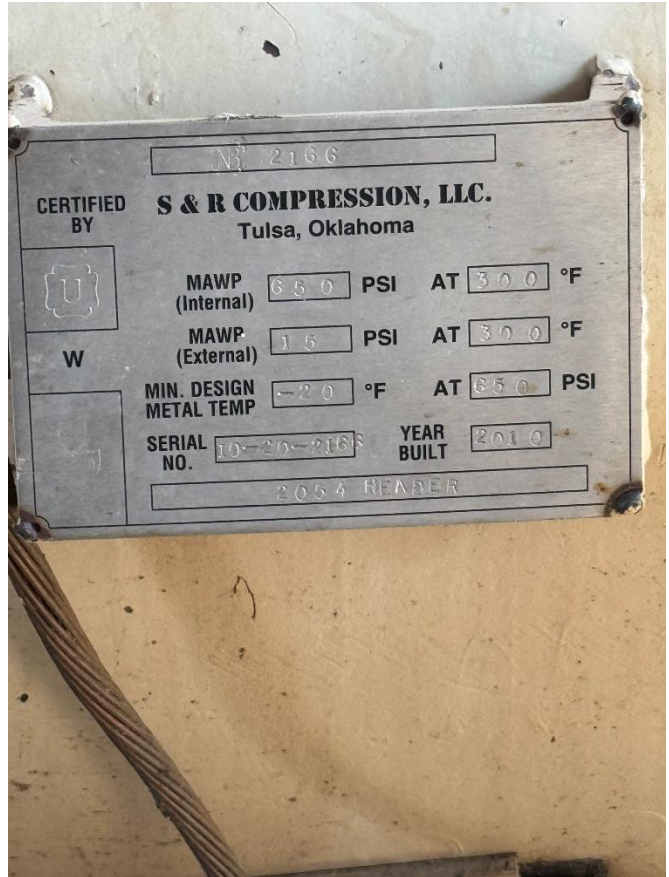


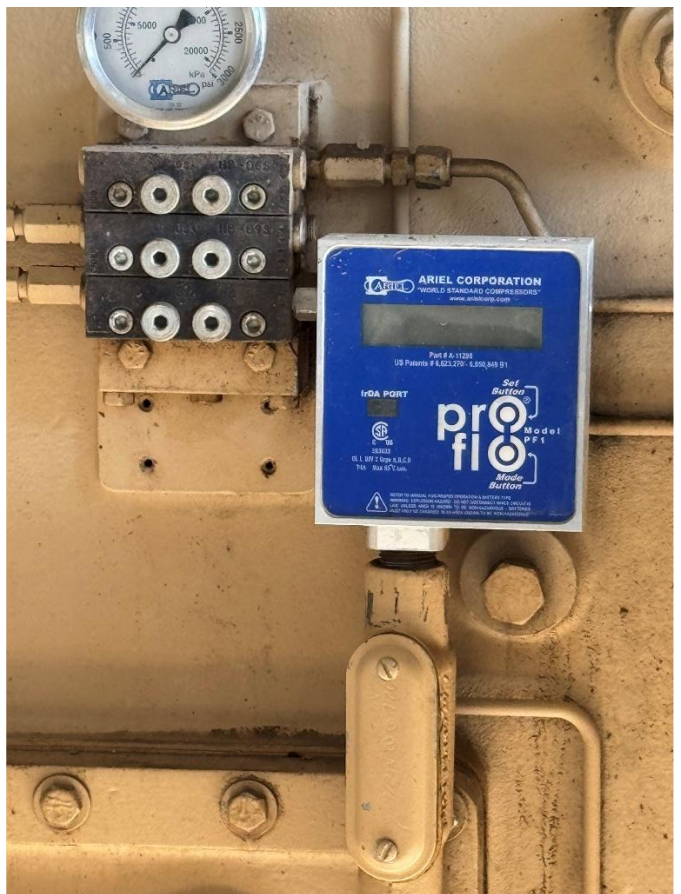
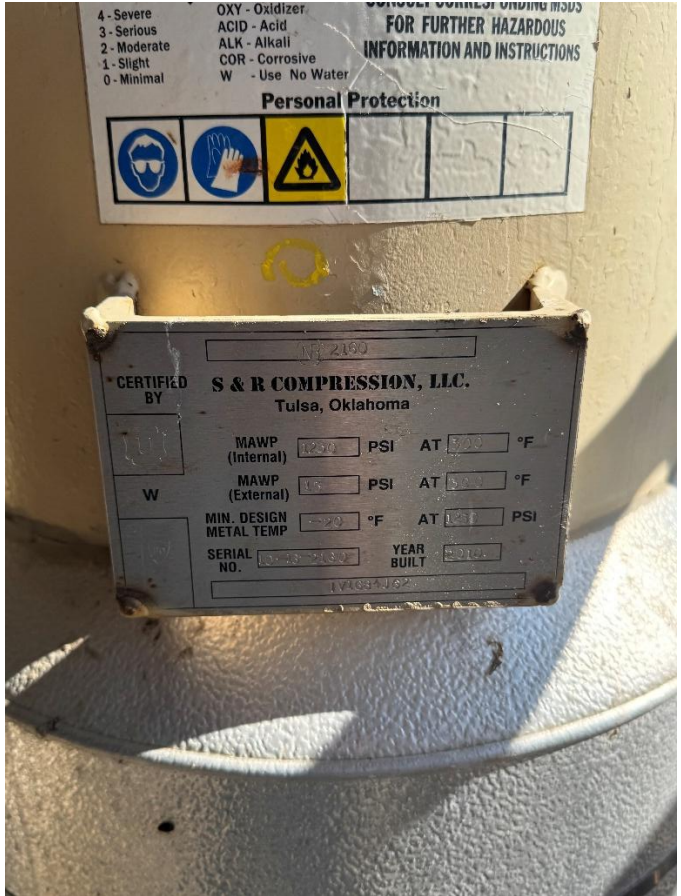
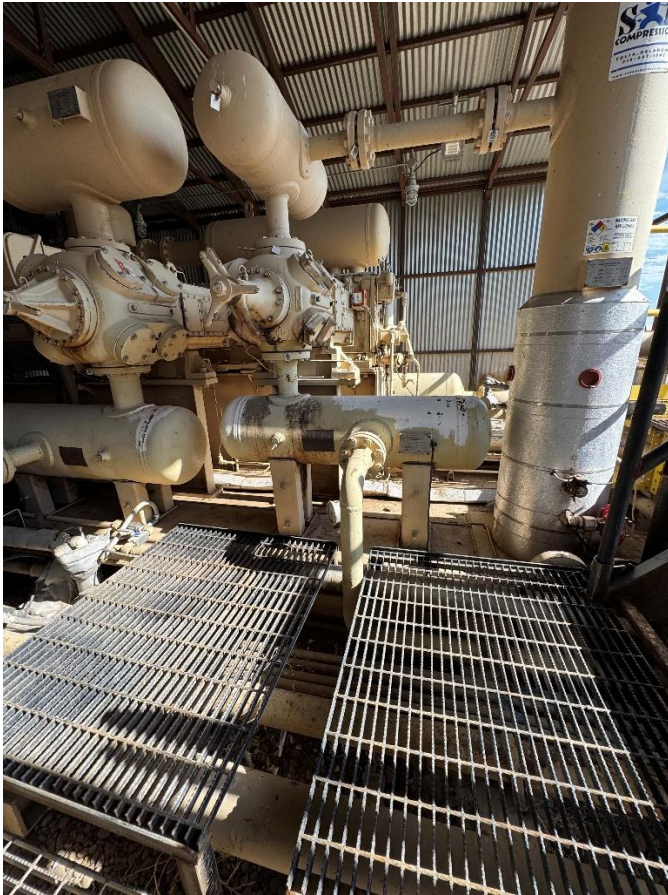






















Company: Ariel Corporation

Quote:

7.7.3.0

Case 1:

Ariel Performance

Customer:

Inquiry:

Project:

**Compressor Data:**

Elevation, ft:	5910.00	Barmtr, psia:	11.793	Ambient, °F:	90.00
Frame:	JGH/4	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:	1360.0	Rated PS FPM:	900.0
Calc RPM:	1188.0	BHP:	776	Calc PS FPM:	891.0

Driver Data:

Type:	Electric
Mfg:	
Model:	60 Hz - 6 Po
BHP:	0
Avail:	0

SOUR GAS-1**Services**

Gas Model

Service 1

VMG

Stage Data:

	1	2	3
Target Flow, MMSCFD	2.500	2.500	2.500
Flow Calc, MMSCFD	3.688	3.688	3.566
BHP per Stage	307.7	231.2	223.1
Specific Gravity	1.0101	1.0101	0.9708
Ratio of Sp Ht (N)	1.1794	1.1795	1.2018
Comp Suct (Zs)	0.9891	0.9683	0.9239
Comp Disch (Zd)	0.9773	0.9477	0.8842
Pres Suct Line, psig	10.00	N/A	N/A
Pres Suct Flg, psig	9.50	68.96	196.27
Pres Disch Flg, psig	70.87	201.27	570.00
Pres Disch Line, psig	N/A	N/A	560.00
Pres Ratio F/F	3.882	2.639	2.796
Temp Suct, °F	60.00	110.00	110.00
Temp Clr Disch, °F	110.00	110.00	110.00

Cylinder Data:

	Throw 1	Throw 3	Throw 2	Throw 4
Cyl Model	17-1/4ET	17-1/4ET	12-1/4ET	7-3/8ET
Cyl Bore, in	17.250	17.250	12.250	7.375
Cyl RDP (API), psig	205.0	205.0	577.3	1031.8
Cyl MAWP, psig	230.0	230.0	635.0	1135.0
Cyl Action	DBL	DBL	DBL	DBL
Cyl Disp, CFM	1436.3	1436.3	719.5	254.6
Pres Suct Intl, psig	6.75	6.75	60.95	177.77
Temp Suct Intl, °F	68	68	115	115
Pres Disch Intl, psig	79.91	79.91	221.08	624.53
Temp Disch Intl, °F	214	214	227	244
HE Suct Gas Vel, FPM	9239	9239	8406	8118
HE Disch Gas Vel, FPM	7950	7950	7335	7523
HE Spcrrs Used/Max	0/3	0/3	0/2	0/2
HE Vol Pkt Avail	1.11+46.67	1.11+46.67	0.94+47.20	0.86+40.17
Vol Pkt Used	0.00 (V) %	0.00 (V) %	0.00 (V) %	0.00 (V) %
HE Min Clr, %	13.76	13.76	18.68	15.15
HE Total Clr, %	14.88	14.88	19.62	16.01
CE Suct Gas Vel, FPM	9114	9114	8182	7521
CE Disch Gas Vel, FPM	7843	7843	7139	6969
CE Spcrrs Used/Max	0/3	0/3	0/2	0/2
CE Min Clr, %	14.30	14.30	19.58	16.79
CE Total Clr, %	14.30	14.30	19.58	16.79
Suct Vol Eff HE/CE, %	60.3/61.5	60.3/61.5	68.8/68.8	70.2/68.9
Disch Event HE/CE, ms	6.7/7.9	6.7/7.9	8.8/10.0	8.7/9.8
Suct Pseudo-Q HE/CE	10.1/9.8	10.1/9.8	8.0/7.6	7.7/6.6
Gas Rod Ld Comp, %	57.1 C	57.1 C	63.7 C	65.9 C
Gas Rod Ld Tens, %	70.1 T	70.1 T	75.6 T	70.9 T
Gas Rod Ld Total, %	70.8	70.8	77.6	76.6
Xhd Pin Deg/%RvrsI lbf	180/87.5	180/87.5	179/95.7	175/92.0
Flow Calc, MMSCFD	1.844	1.844	3.688	3.566
Cyl BHP	153.8	153.8	231.2	223.1