

COMPRESSOR PERFORMANCE SUMMARY

Compressor: Ariel JGK/4
Configuration 1: 1 x 14-1/8 K (13.625" bore), 1 x 9-5/8 K (9.125" bore) and 1 x 5-3/8 K-DW (5.00" bore)
Configuration 2: 2 x 14-1/8 K (13.625" bore), 1 x 9-5/8 K (9.125" bore) and 1 x 5-3/8 K-DW (5.00" bore)
 Engine: Caterpillar G3516 TALE rated for 1085hp @ 1200 rpm
 Cooler: Air-X-Hemphill 144 ZF

Page No.	Suction Pressure (psig)	Discharge Pressure (psig)	Capacity (mmscfd) Pre-Proc.	Capacity (mmscfd) Post-Proc.	Compression Horsepower	Operating Mode
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Configuration 1						
1	140	900	9.089	8.900	1083	DBL + DBL + DBL
2	130	900	8.758	8.575	1083	DBL + DBL + DBL
3	120	900	8.414	8.239	1083	DBL + DBL + DBL
4	110	900	8.084	7.915	1085	DBL + DBL + DBL
5	100	900	7.786	7.624	1086	DBL + DBL + DBL
6	90	900	7.483	7.327	1086	DBL + DBL + DBL
7	80	900	7.157	7.008	1085	DBL + DBL + DBL
8	140	1200	8.076	7.907	1083	DBL + DBL + DBL
9	130	1200	7.845	7.680	1085	DBL + DBL + DBL
10	120	1200	7.607	7.446	1084	DBL + DBL + DBL
11	110	1200	7.318	7.165	1085	DBL + DBL + DBL
12	100	1200	7.033	6.885	1086	DBL + DBL + DBL
13	90	1200	6.773	6.630	1086	DBL + DBL + DBL
14	80	1200	6.511	6.373	1085	DBL + DBL + DBL
Configuration 2						
1	90	900	7.463	7.311	1085	CE + CE + DBL + DBL
2	80	900	7.100	6.955	1085	CE + CE + DBL + DBL
3	70	900	6.737	6.628	1081	CE + DBL + DBL + DBL
4	60	900	6.429	6.290	1087	DBL + DBL + DBL + DBL
5	50	900	5.995	5.865	1087	DBL + DBL + DBL + DBL
6	40	900	5.576	5.454	1086	DBL + DBL + DBL + DBL
7	90	1200	6.657	6.519	1085	CE + CE + DBL + DBL
8	80	1200	6.532	6.400	1085	CE + CE + DBL + DBL
9	70	1200	6.187	6.052	1086	DBL + DBL + DBL + DBL
10	60	1200	5.847	5.719	1086	DBL + DBL + DBL + DBL
11	50	1200	5.507	5.385	1087	DBL + DBL + DBL + DBL
12	40	1200	5.155	5.040	1087	DBL + DBL + DBL + DBL
Gas Analysis						

Operating Conditions		Site Conditions	
Speed =	1200 rpm	Elevation =	2198 feet
Gas is Sweet, S.G. =	0.6362 (pre process)	Ambient Temperature =	100°F.
Suction Temperature =	50°F.		
AC Cooling Temperature =	120°F.		

Legend

- CE - crank end single acting cylinder (head end valves manually removed from cylinder)
- DBL - double acting cylinder (all valves in cylinder)
- Blank - cylinder/piston has been removed from throw (ie. 4 throw frame operating with only 3 throws)
- DIS - cylinder disabled (head end valves and crank end valves manually removed from cylinder)
- HEVU - head end valve unloader

