



Waukesha L7044GSI / Ariel KBK4 Gas Compression For Sale

Driver	Waukesha L7044GSI (Series 5) – 1900BHP
Compressor	Ariel KBK4
Cylinders	(2) 13.625K:21, (1) 10.5K:21, (1) 6.75K:21
Stages	3
Cooler	AXH 168EF
Panel	Murphy Centurion Plus
Location	On Shore
Minimum Ambient Air Temperature	50°F
Maximum Ambient Air Temperature	105°F
Design Elevation above MSL	0-100m
Suction Pressure	30 – 80 PSIG
Suction Temperature	80°F**
Discharge Pressure	1200 - 1400 PSIG
Flow rate Per Unit	8 - 10 MMSCFD

*Normal Operating Temperature = 80 (°F).

This is a brand-new surplus compressor package with NO operational hours, that is ready for immediate Ex-Works Delivery. The unit was packaged in 2019 by SNC Lavalin based out of Houston, Texas and has been very well maintained and preserved during its idle life.

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The unit can operate on higher suction temperature, various ambient temperatures, and elevations. Performances can be provided for these specific cases.

Case	Description	Avail. BHP	Calc BHP	% Max BHP	RPM	Stgs	Req, MMSCFD	Fin-Calc, MMSCFD	Ps, Psig	Pd, Psig	Ts, °F
1	Ps=30, Pd=1300	1805	1277	70.77	1200	3	10.0	5.82	30.0	1300	80.0
2	Ps=40, Pd=1300	1805	1502	83.23	1200	3	10.0	7.34	40.0	1300	80.0
3	DESIGN CASE	1805	1721	95.37	1200	3	10.0	8.89	50.0	1300	80.0
4	Ps=60, Pd=1300	1805	1805	100.00	1200	3	10.0	9.82	60.0	1300	80.0
5	Ps=70, Pd=1300	1805	1805	100.00	1200	3	10.0	10.2 6	70.0	1300	80.0
6	Ps=80, Pd=1300	1805	1805	100.00	1200	3	10.0	10.6 9	80.0	1300	80.0
7	Ps=30, Pd=1400	1805	1294	71.70	1200	3	10.0	5.77	30.0	1400	80.0
8	Ps=40, Pd=1400	1805	1526	84.54	1200	3	10.0	7.29	40.0	1400	80.0
9	Ps=50, Pd=1400	1805	1752	97.09	1200	3	10.0	8.85	50.0	1400	80.0
10	Ps=60, Pd=1400	1805	1805	100.00	1200	3	10.0	9.59	60.0	1400	80.0
11	Ps=70, Pd=1400	1805	1805	100.00	1200	3	10.0	10.0 0	70.0	1400	80.0
12	Ps=80, Pd=1400	1805	1805	100.00	1200	3	10.0	10.4 1	80.0	1400	80.0

PERFORMANCE GAURANTEE:

- Guaranteed is a single design point as calculated by the current version of the OEM (Ariel) performance program. All other performance is expected and is not guaranteed.
- The rated capacity and power are guaranteed to a tolerance of +/- 3% for specific gravity ranges between 0.50 and 0.80.
 1. Specific gravity between 0.50 and 0.80 (14.48 to 23.17 molecular weight)
 2. Suction pressure greater than 10 psig (0.7 barg)
 3. Discharge pressure less than 2500 psig (172 barg)
 4. Compression ratio greater than 1.8
 5. Compression ratio less than 4.0, else suction VE > 50%)
- Rated capacity and power can be guaranteed to a tolerance of ± 6% for conditions outside those listed above.
- NOTE: Performance predictions are not guaranteed for unloading configurations including single acting or non-acting cylinder, deactivated stage, or blow thru operation.

COMPRESSOR PACKAGE BASICS:

- All Scrubbers are designed/sized based on API 11P Class A fluid.
- Process vessels and bottles are designed in accordance with ASME Section VIII, Div. 1.
- Pulsation bottles are designed in accordance with API 618 5th Edition Design Approach 2 guidelines.
- Piping designed to ASME B31.3 codes and standards.
- Flanges designed to ASME B16.5 codes and standards.
- Murphy Centurion Plus control system housed in a enclosure built to NEMA 3 specifications.
 - NEC: suitable for class 1 division 2 groups B, C, & D, T3 Hazardous area.
 - NEC: suitable for class 1 zone 2 groups IIa & IIb, t3 hazardous area.



