



Air Drilling Specialties
6750 South Hwy 87
Duchesne UT 84021
Office: 435-738-2517
Fax: 435-738-2527
Email: airdrilling@ubtanet.com
www.airdrillingspecialties.com

BOOSTER SPECIFICATIONS ARIEL JGA4 UNIT # B-6 & # B-7

ENGINE:
CATERPILLAR INDUSTRIAL DIESEL C18 TIER 3
MAX. HP 630, MAX RPM: 2100

COMPRESSOR:
ARIEL JGA4, MAX RPM: 1800

1ST STAGE CYLINDER #1: JG 4.75" BORE
MAX. DISCHARGE PRESSURE 865 PSI

2ND STAGE CYLINDER #2: JG 3.875" BORE
MAX. DISCHARGE PRESSURE 1270 PSI

3RD STAGE CYLINDER #3 & 4:
3SG-CE BORE/CRANK END
MAX. DISCHARGE PRESSURE 3000 PSI

4TH STAGE CYLINDER #5 & 6: SG-FS-HE
1.75" BORE/HEAD END
MAX. DISCHARGE PRESSURE 6100 PSI

VESSELS:
ALL ASME CODE STAMPED, MESH PAD,
SCRUBBERS SUCTION AND DISCHARGE
PULSATION DAMPENING BOTTLES EACH
STAGE

COOLER: BOX HEADER AND FINS BY FIN-X,
ASME CODE STAMPED
IC1 MAWP 1287 PSI, IC2 MAWP 1932 PSI,
IC3 MAWP 3220 PSI, AC MAWP 5365 PSI



Built with Pride in Casper, Wyoming By:



Compression Leasing Services Inc.
PO Box 1629
1925/1935 North Loop
Casper, WY 82602/82601
Ph. 307-265-3242/Fax. 307-265-3221
www.compressionleasing.com



DRIVE:
DIRECT DRIVE, NO CLUTCH

FAN:
BELT DRIVEN OFF OF COMPRESSOR OUTPUT SHAFT

PIPING:
CODE WELDED 100% X-RAY TO B31.3 SEVERE CYCLIC SERVICE, PRIMARILY 3" S/80 AND 2" S/160-XXH PIPING

MANIFOLD: SUCTION TO DISCHARGE BY-PASS ON SKID VIA FLANGED BALL VALVES, INLET MANIFOLD WITH(3) 2" INLETS,
AND DISCHARGE BLOCK VALVE ON SKID, AUXILLERY CHOKE VALVE ON DISCHARGE

CONTROLS: ENGINE PROTECTION BY CATERPILLAR AND CLS PLUS GAUGES, COMPRESSOR PROTECTED FROM
HIGH LIQUID LEVEL IN EACH SCRUBBER, DISCHARGE TEMPERATURE EACH CYLINDER, LOW
COMPRESSOR CYLINDER LUBE LEVEL, LUBRICATOR NO FLOW, AND LOW COMPRESSOR OIL PRESSURE

FUEL: 30 GALLON DAY TANK AND CONNECTIONS FOR LARGER TANK

FUEL CONSUMPTION: NORMAL 18-26 GPH, MAX 31 GPH

FUEL COOLER: ON BOARD FUEL COOLER FOR GRAVITY OR PUMP FED SUPPLY, NO RETURN LINES REQUIRED,
QUICK, LEAK FREE DISCONNECTS FOR FUEL LINES



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CONFIGURATION:
 UNIT IS A 4 STAGE COMPRESSOR,

SUCTION PRESSURE: UP TO 500 PSI OF AFTER COOLED AIR

DISCHARGE PRESSURE: UP TO 4500 PSI

FLOW RATE: UP TO 2000 SCFM

SKID: HEAVY DUTY 4 RUNNER, DESIGNED FOR WINCH TRUCK WITH TAIL ROLL,
 LIFTING RACK WITH 4 POINT LIFT SUITABLE FOR CRANE USE

DIMENSIONS: 24'-6 1/2" LONG X 8'-4" WIDE X 9'-2" HIGH

