



Air Drilling Specialties
6750 South Hwy 87
Duchesne UT 84021
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Email: airdrilling@ubtanet.com
www.airdrillingspecialties.com

BOOSTER SPECIFICATIONS

JOY WB12 - 6 X 4

UNIT # B-5



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



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

COMPRESSOR:
GARDNER DENVER (JOY)
WB12 MODEL JHY2003

1ST STAGE CYLINDER:
6" BORE
MAX. DISCHARGE PRESSURE 1700 PSI
DOUBLE ACTING

2ND STAGE CYLINDER:
4" BORE
MAX. DISCHARGE PRESSURE 3200 PSI
DOUBLE ACTING
PRACTICAL LIMIT FOR THIS UNIT 2500 PSI

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

COOLER:
BOX HEADER AND FINS BY FIN-X,
ASME CODE STAMPED
IC MAWP 1935 PSI
AC MAWP 3225 PSI

GEAR REDUCER: 2.96:1

DRIVE:
DIRECT DRIVE, NO CLUTCH

FAN:
BELT DRIVEN OFF OF COUPLING

PIPING:
CODE WELDED 100% X-RAY TO B31.3 SEVERE CYCLIC SERVICE, PRIMARILY 3" XH AND 3" SCH. 160 PIPING

VALVES:
ALL MAIN PROCESS VALVES FOR OPERATION AS 1 OR 2 STAGE ARE FLANGED BALL VALVES

MANIFOLD: SUCTION TO DISCHARGE BY-PASS ON SKID VIA FLANGED BALL VALVES, FLANGED SUCTION BLOCK AND DISCHARGE BLOCK VALVES ON SKID

CONTROLS: ENGINE PROTECTION BY CATERPILLAR PLUS GAUGES, COMPRESSOR PROTECTED FROM HIGH LIQUID LEVEL IN EACH SCRUBBER, DISCHARGE TEMPERATURE EACH STAGE, LOW COMPRESSOR CYLINDER LUBE LEVEL, 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 CAN BE USED IN SINGLE STAGE OPERATION UP TO 1000 PSI,
 OR IN 2 STAGE OPERATION UP TO 2500 PSI WITH PROPER
 SUCTION PRESSURE

SUCTION PRESSURE: UP TO 500 PSI OF AFTER COOLED AIR

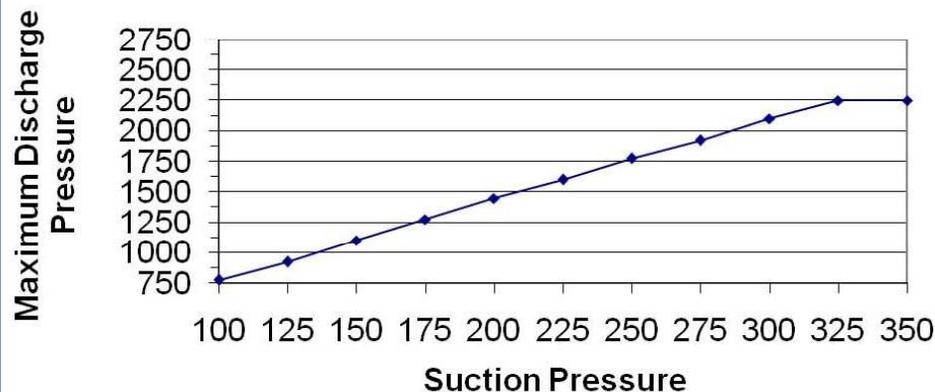
DISCHARGE PRESSURE: UP TO 2500 PSI IN 2 STAGE OR 1000 PSI IN SINGLE STAGE

FLOW RATE: UP TO 2860 SCFM IN 2 STAGE, OR 3901 SCFM IN SINGLE
 STAGE WITH 350 PSI SUCTION

SKID: HEAVY DUTY 4 RUNNER WITH BUMP GUARDS, DESIGNED FOR WINCH
 TRUCK WITH TAIL ROLL

DIMENSIONS: 22'-6" LONG X 7'-10" WIDE X 9'-9" HEIGHT, OVER ALL WIDTH 8'-3"

**Maximum Discharge Pressure vs Suction Pressure
 2-Stage**



**Flow in SCFM vs Suction Pressure
 With Maximum Discharge Pressure 2-Stage**

