



Air Drilling Specialties  
6750 South Hwy 87  
Duchesne UT 84021  
Office: 435-738-2517  
Fax: 435-738-2527  
Email: [airdrilling@ubtanet.com](mailto:airdrilling@ubtanet.com)  
[www.airdrillingspecialties.com](http://www.airdrillingspecialties.com)

## BOOSTER SPECIFICATIONS JOY WB12 - 6 X 3.75 UNIT # B-4

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

**COMPRESSOR:**  
GARDNER DENVER (JOY)  
WB12 MODEL JHY2003

**1<sup>ST</sup> STAGE CYLINDER:**  
6" BORE  
MAX. DISCHARGE PRESSURE 1700 PSI  
DOUBLE ACTING

**2<sup>ND</sup> STAGE CYLINDER:**  
3 3/4" BORE  
MAX. DISCHARGE PRESSURE 3200 PSI  
DOUBLE ACTING  
PRACTICAL LIMIT FOR THIS UNIT 2750 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**



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](http://www.compressionleasing.com)





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 JOY WB12 - 6 X 3.75 UNIT # B-4



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



**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 2750 SCFM IN 2 STAGE, OR 3750 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"

