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Specifications on Keystone Gardner Denver 6.5" x 5" Two-Stage Air Booster - Heavy Duty Oil Field Skid

Booster		
Make	Gardner Denver	
Frame	JY-500 (Joy WB-12)	
Туре	Two Stage "Y" Frame	
RPM (Maximum)	700	
Stroke (in)	7	
Max Rated Rod Load (lbs)	15,000	

1st Stage Cylinder	
Cylinder model (in)	6.5
Style	Double Acting
M.A.W.P. (psi)	1665
Cylinder Bore (in)	6.5

2nd Stage Cylinder	
Cylinder model (in)	5
Style	Double Acting
M.A.W.P. (psi)	2050
Cylinder Bore (in)	5

Coolers		
Construction	Steel Tube and Fin	
Precooler M.A.W.P. (psi)	600	
Intercooler M.A.W.P. (psi)	1200	
Aftercooler M.A.W.P. (psi)	2200	
ASME Code Stamp and National Board Registered		

Scrubber Bottles			
1st Stage M.A.W.P. (psi) 600			
2nd Stage M.A.W.P. (psi)	1200		
ASME Code Stamp and Na	tional Board Registered		

Pulsation Bottles	
1st Stage M.A.W.P. (psi)	1220
2nd Stage M.A.W.P. (psi)	
ASME Code Stamp and Na	ational Board Registered

Engine	
Make	Caterpillar
Model	C-16
Speed Rated (rpm)	1800
Speed Idle (rpm)	700
BHP @ Rated Speed	630
Fuel/Cooling	Diesel/Water
Electrical System (volts)	24
Fuel Tank (or Day Tank)	Day Tank
Starting System	Electric

Heavy Duty Oil Field Skid Details	
(4) 12" wide flange beams	
Cross braced/reinforced	
Headache bar front/back	
Top plated 1/8" material	
Bottom plated 1/4" material	

Approximate Unit Dimensions	
Overall Length (in)	24' 5"
Overall Width (in)	8' 1"
Overall Height (in)	8' 9"
Weight (lbs)	33,900 (est.)

Miscellaneous	
Inlet Piping Size (in)	2" NPT
Number of Piping Inlets	3
Discharge Piping Size (in)	3" NPT
Number of Piping Outlets	1
Final Safety Relief Valve Setting (Booster MAWP) (psi)	1500

Unit Includes the Following Safety Shutdowns and Gauges:

Booster Shutdowns	
High Discharge Temperature Shutdown (Each Stage)	
Low Booster Oil Pressure Shutdown	

Booster Gauges	
Suction Pressure	
Interstage Pressure	
Discharge Pressure	
Booster Oil Pressure	
Booster Coolant Temperature (Each Cylinder)	
Air Temperature (Each Scrubber & Pulsation Bottle)	

Engine Gauges	
Voltmeter	
Tachometer/Hour Meter	
Engine Oil Pressure	
Engine Oil Temperature	
Engine Water Temperature	

Engine Shutdowns
Caterpillar ECM with Standard Shutdowns

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Booster set up for single or 2-stage operation (selectable)
Booster oil cooler and thermostatic valve included

Booster bypass piping included
All piping is hydrotested

Performance of Keystone Gardner Denver 6.5" x 5" Air Booster

Performance in Two-Stage Operation Mode							
Engine RPM	Booster RPM	Suction Pressure (PSI)	Disch. Pressure (PSI)	Flow (SCFM)			
1800	600	350	800	3311			
1800	600	350	1000	3296			
1800	600	350	1200	3282			
1800	600	350	1400	3270			

Performance in Single-Stage Operation Mode						
Engine RPM	Booster RPM	Suction Pressure (PSI)	Disch. Pressure (PSI)	Flow (SCFM)		
1800	600	350	600	5100		
1800	600	350	800	4900		
1800	600	350	1000	4700		

Booster Rated Discharge Pressure (RDP) = 1400 psi