



Ariel JGA-4-C1D2

Class I, Division 2

OFFSHORE BOOSTER



Specifications

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| Lifting Frame: | 25' Offshore Lifting Frame (25'x8'x8'6"), DNV Certification 2.7.1, ISO 1161 corner fittings, Classification Society: Lloyd's Register, removable roof panels & removable frame, DNV certified sling & shackles. | |
| Air Booster: | Ariel Model JGA/4, four throw, four stage booster compressor with tandem cylinders on the 3rd & 4th stages. Boosting capacity of 1500 scfm up to 5,000 psig. ASME certified pressure vessels (cylinder scrubbers) & cooler. | |
| Engine & Controls: | Caterpillar C-18: 6-cylinder, 4-cycle, 18-liter, EPA Tier III electronically controlled diesel engine rated at 630 hp at 1,800 rpm. Explosion proof conversion in accordance w/ US Class I, Div. 2 standards (REF: UL583, NFPA 70, NEC 500). Encapsulated ECM, intrinsically safe circuits, EX proof protection on solenoids, sensors, & switches, EX alternator, EX battery box, Panel & Remote ESD, C1D2 wiring to remote location, EX injectors/derivation enclosure, overspeed air intake shutoff, intake flame arrestor (electronically actuated), and EX conversion of CAT supplied electric starter. Spark arresting muffler. C1,D2 FW Murphy Centurion PLC for monitoring booster. | |
| Cooling System: | Air-cooled, tube & shell type heat exchangers with separate fan drives for engine & booster cooling circuits. Heresite offshore protective coating provided on all cores. Anti-static engine belts & fan blades to meet C1D2 standard. | |
| Additional: | 3 layer offshore paint (epoxy-polyurethane). Automatic drains provided on scrubber bottles in between each stage of compression. Central drains for ease of maintenance. Remote connection to bridge for ESD & monitoring. | |
| Booster Capacity/ Operating Conditions: | Inlet Pressure: | 325 psig |
| | Inlet Temperature: | 88° F |
| | Max Discharge Pressure: | 5000 psig |
| | Flow Capacity: | 1500 scfm |
| | Engine Output Speed: | 1800 rpm |
| | Air Outlet: | 1" |
| | Operating Temperature Range: | 40-120° F |
| | Overall Dimensions, L x W x H (feet, inch): | 25' x 8' x 8'6" |
| | Weight dry (estimated): | 38,000 lbs |



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