



Air Drilling Specialties
6750 South Hwy 87
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SCREW COMPRESSOR SPECIFICATIONS INGERSOLL-RAND/DOOSAN UNITS' # IR-1 THRU IR-4

ENGINE:
CATERPILLAR INDUSTRIAL DIESEL C15
TIER 3
MAX. HP 540, MAX RPM: 1800

COMPRESSOR:
ROTARY SCREW TWO STAGE

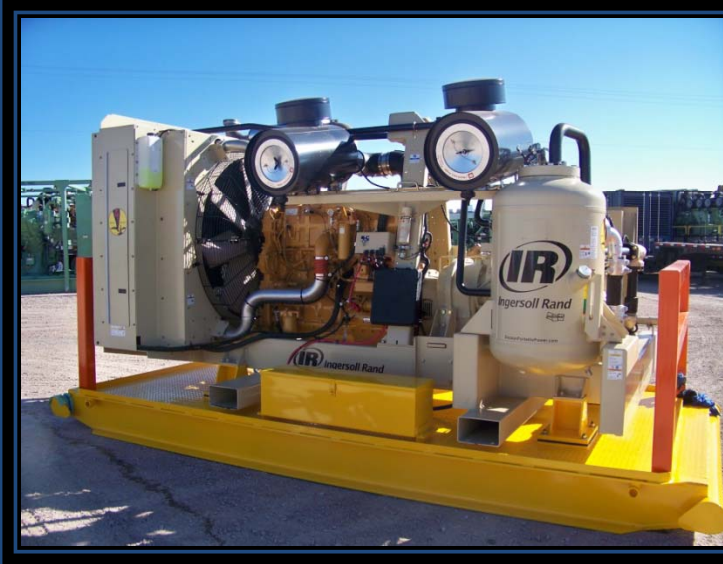
FREE AIR DELIVERY (CFM/M3MIN)
1170/33.13

RATED OPERATING PRESSURE
(PSIG/BAR)350/24.1

PRESSURE RANGE (PSIG/BAR)
150 TO 375/10.3 TO 25.9

SEPARATOR TANK VOLUME
(US GAL/LITRES) 92.5/350

OIL CAPACITY
(US GAL/LITRES) 62/234.7



Packaged 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



Diesel engine with electronic controls to comply with USA/EPA Tier 3 exhaust emission requirements.

- Three stage, heavy duty, dry type air cleaner with replaceable primary and secondary elements located inside unit. Air filters have maintenance indicator lamp on the control panel.
- Fuel/water separator.
- Electric starting system, 00 battery cables with battery disconnect switch.
- Starter protection system.
- Ether cold start system.
- Exhaust rain cap.
- Unloaded warm up, start run valve.

PACKAGE FEATURES

- Hinged instrument panel with lockable door.
- Shock mounted engine and compressor.
- 30 Gallon day tank with connections for larger tank.
- Side-by-side coolers for easy cleaning along with an access door.
- Low coolant level shutdown.
- Low fuel level shutdown.
- Central drains with valves.
- Oilfield skid with tail rolls and bump guards.
- Cool box / sucker fan design for lower engine temperature.

SAFETY FEATURES

- Automatic safety shutdowns: high discharge air temp, low engine oil pressure, and high engine coolant temp.
- Manual and automatic blowdown valves.
- Minimum pressure device.
- ASME safety relief valve.
- Fan and belt guards.
- Battery disconnect switch
- Operating and maintenance manuals.
- Operating and safety decals.



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SCREW COMPRESSOR SPECIFICATIONS INGERSOLL-RAND/DOOSAN UNITS' # IR-1 THRU IR-4

COMPRESSOR

- The compressor is a two stage, oil flooded asymmetrical rotary screw.
- The actual air delivery is 1170 cfm (33.13 M³/min).
- The rated operating pressure is 350 psig (24.1 bar).
- The pressure range is 150-375 psig (10.3-25.9 bar).
- The regulation system is 100% stepless.
- The air service valve is 2 inch NPT, ¼ turn.

COMPRESSOR FEATURES

- Three stage, heavy duty, dry type air cleaner with replaceable primary and safety elements located inside unit.
- Air filters have maintenance indicator lamp on the control panel.
- 25-micron spin-on oil filter.
- Oil separation system - two stage vertical tank with sight gauge and over-fill protection.
- Fin and tube coolers.
- Engine driven flexible drive coupling.
- INSTRUMENTS AND CONTROLS
- Gauges shall be backlit for night operations.
- Air discharge pressure gauge.
- Hourmeter.
- Tachometer.
- Engine water temperature gauge.
- Engine oil pressure gauge.
- Discharge air temperature gauge.
- Voltmeter.
- Indicator warning lights for low engine coolant level, low fuel level, alternator malfunction and air filter maintenance. Gauges shall be backlit for night operations.
- Indicator lights for shutdown due to low engine oil pressure, high engine coolant temperature, high discharge air temperature, and low fuel level.
- Engine and compressor malfunction fault indicator display (digital)
- Electronic micro-processor control interface for maintenance fault code read out.



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