



Bay 8, 1820 – 30<sup>th</sup> Avenue NE  
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## CC100 Compressor Specifications

### Compressor

- Type Oil flooded rotary screw gas compressor
- Model Gardner Denver Enduro 25
- Suction P 70 psi maximum
- Discharge P 250 psi maximum
- Vi 2.7 or 4.4 (field changeable)
- Drive Belt (variable ratio, field changeable)
- Oil filter Donaldson c/w diff. P indicator

### Driver

- Type Natural gas fueled
- Model Cummins 8.3
- Usable horsepower 99 HP @ 1800 rpm available to compressor
- Cylinders 6
- Displacement 505 cubic inch
- Compression ratio 10.5:1
- Aspiration Natural
- Ignition Electronic
- Radiator HD Alum
- Oil level maintainer Murphy LM 2000
- Oil conditioning system Luberfiner
- Oil Cooler Intregal
- Oil day tank 8 gallons
- Coolant day tank 3 gallons
- Fuel gas scrubber Parker 20 micron coalescing filter c/w auto drain/inst. scrubber
- Silencer Whisper Quiet
- Governor Woodward electronic – no droop

### Drive System

- V belt drive 6 each 5V belts
- Clutch Gas operated
- Belt tensioning Constant force gas operated

### Cooling System

- Type Aftercooler/oil cooler combination
- Model AKG AOC 125
- Rating 250 psi @ 325 °F
- CRN AB, BC, SK
- Thermostat Set @ 180 °F

## Capacity Control

- Belt drive 8 different pre-engineered ratios to maximize HP use
- High pressure recycle
- Low pressure recycle
- Manual recycle

## Controls and Instrumentation

### Shutdowns

- Low suction pressure
- High suction pressure
- Low discharge pressure
- High discharge pressure
- High compressor discharge temperature
- High scrubber fluid level
- Low separator oil level
- Low engine oil pressure
- Low engine oil level
- High engine coolant temperature
- ESD

### Warnings

- Compressor oil filter differential pressure
- Gas oil separator element differential pressure

### Indicators

- Annunciator, Murphy TTD
- Engine rpm
- Hour meter
- Engine oil pressure
- Engine glycol temperature
- Engine vacuum pressure
- Engine fuel pressure
- Wellhead pressure
- Suction pressure
- Discharge pressure
- Line pressure
- Compressor discharge temperature
- Mixture control fault
- Air oil separator differential pressure
- Separator level
- Scrubber level
- Engine oil level
- Engine oil day tank level
- Engine glycol level
- Fuel gas filter level

## Inlet/Outlet

- Inlet flange 3" 150# RFF
- Outlet flange 2" 300# RFF
- Inlet valve 3" FP ball valve
- Discharge check Balon 2" swing
- Low pressure inlet control Kimray 318 FGT PRB-D

## Scrubber

- Rated pressure 200 psi @ 80 °F
- Size 16" diameter
- Design code ASME Sect VIII, Div I
- PSV 70 psi
- Corrosion allowance 1/8"
- Demister pad 304SS demister pad, 9 lb/ft3
- Sight glass Glass 10" viewing length
- CRN AB, BC, SK
- Level control Kenco 106 pneumatic

## Separator

- Rated pressure 285 psi @ 250 °F
- Size 16" diameter
- Design code ASME Sect VIII, Div I
- PSV 285 psi
- Corrosion allowance 1/8"
- Sight glass Glass 10" viewing length
- CRN AB, BC, SK

## Piping

- Process piping 2" and under SA-106B threaded piping  
3" SA-106B welded spools
- Other piping SA-106B threaded spools
- Flare header Header for PSV's, and auto blow down
- All process valves accessible from access doors for easy adjustment, service & replacement
- All process valves unioned or flanged for easy replacement

## Enclosure

- Dimensions Length 12'4", width 64", height 60"
- Floor Enviro drip tray c/w drains
- Service doors 2 - engine, 2 - compressor – gas strut balanced, locking
- Sound proofing Frequency specific open flexible polyester polyurethane foam c/w metallized, polyester film, 1" thick, 250-500 HZ
- Louvers 2 adjustable louvers for cooling air control
- Roof vents Built-in roof vents for cooling and ventilation
- Coating Powder coat

## Trailer

- Portability Towable by 3/4 ton pickup
- Dimensions overall 18'6" x 7'1"
- Tongue weight 700 lbs
- Axle type Tandem
- Axle rating 12,000 lbs
- Tires Goodyear ST225/75 R15D
- Leveling 4 leveling posts
- Trailer jack Tongue
- Trailer brakes Electric
- Weight 9000 lbs
- Construction Rectangular HSS tube cruciform (resists flexing while moving, eliminates tendency of screwed piping to loosen)
- Sub Floor Insulation R15

## Miscellaneous

- All inspection and fill points accessible from outside
- Easy access to all service points
- Designed to be readily moved and or replaced for major overhauls or servicing
- All service points reachable at ground level
- All fluid level indicators easily viewable from outside
- Heater, 2 Bruest natural gas heaters, 12" x 24", 12000 BTU/Hr
- Gas Detection, Micro-Watt UT Gold

## **Compliance**

- Power and process in separate compartments, process Class I, Div II, power GP
- CSA or Intertek approved
- Fugitive emission study