



Bay 8, 1820 – 30th Avenue NE
Calgary, Alberta T2E 7M5
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CC50 Compressor Specifications

Note: Some components subject to change 03-19-07

Compressor

- Type Oil flooded rotary screw gas compressor
- Model Gardner Denver Enduro 12
- Suction P 70 psi maximum
- Discharge P 250 psi maximum
- Vi 2.7 or 4.5 (field changeable)
- Drive Belt (variable ratio, field changeable)
- Oil filter Donaldson Duramax c/w diff. P indicator

Driver

- Type Natural gas fueled
- Model Teco 4300
- Horsepower Rated 72 @ 3600
- Usable horsepower 50 HP @ 2200 rpm available to compressor
- Cylinders 6
- Displacement 260 cubic inch
- Compression ratio TBA
- Aspiration Natural
- Ignition Electronic distributor
- Radiator Bolted construction
- Oil level maintainer Murphy LM 2000
- Oil conditioning system Luberfiner
- Oil day tank 8 gallons
- Coolant day tank 3 gallons
- Fuel gas scrubber Parker coalescing filter
- Silencer Mac - whisper quiet operation
- Exhaust manifold Water cooled
- Governor Woodward electronic

Drive System

- V belt drive 3 each 5V belts
- Clutch Air operated
- Belt tensioning Constant force air operated

Cooling System

- Type Aftercooler/oil cooler combination
- Model AKG AOC 40
- Rating 250 psi @ 325 °F
- CRN AB, BC, SK
- Thermostat Set @ 180 °F

Capacity Control

- Belt drive
- High pressure recycle
- Low pressure recycle
- Manual recycle

8 different pre-engineered ratios to maximize HP use

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 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
- Engine vacuum pressure
- Engine glycol temperature

Inlet/Outlet

- Inlet flange 3" 150# RFF
- Outlet flange 2" 300# RFF
- Inlet valve Mara 2" FP ball valve
- Discharge check Balon 2" swing
- Low pressure inlet control Kimray 230 SGT PRB-D

Scrubber

- Rated pressure 200 psi @ 80 °F
- Size 14" 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 14" 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 SA-106B threaded piping
- 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', width 60", height 51"
- Floor Drip tray c/w drains
- Service doors 2 - engine, 2 - compressor – gas strut balanced, locking
- Louvers 2 adjustable louvers for cooling air control
- Roof vents Built-in roof vents for cooling and ventilation
- Coating Powder coat
- Sound proofing Frequency specific open flexible polyester polyurethane foam c/w metallized, polyester film, 1' thick, 250-500 HZ

Trailer

- | | |
|------------------------|--|
| ➤ Portability | Towable by ½ ton pickup |
| ➤ Dimensions | Deck 12' x 60", overall 15' x 6'9" |
| ➤ Tongue weight | 400 lbs |
| ➤ Axle rating | 6000 lbs |
| ➤ Tires | Goodyear ST225/75 R15D |
| ➤ Leveling | 4 leveling posts |
| ➤ Trailer jack | Tongue |
| ➤ Trailer brakes | Electric |
| ➤ Weight | 5500 lbs |
| ➤ Sub Floor Insulation | R15 |
| ➤ Construction | Rectangular HSS tube cruciform (resists flexing while moving, eliminates tendency of screwed piping to loosen) |

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, Bruest natural gas heater, 12" x 24" 12000 BTU/Hr and 12" x 12" 6000 BTU/Hr

Options

- Blow Case Assembly
- Inlet Scrubber Auto Drain
- 12 volt Oil Pan Heater
- Water Jacket Provisional Heat Trace
- Condensate pump
- Flow measurement
- Inlet particulate filter
- Fire & gas detection
- Tear-away bug screens on cooling air inlets.
- 120 volt block heater
- Armored flex Hoses

Compliance

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