



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 Gauge

Driver

➤ Type	Natural gas fueled
➤ Model	Teco 8100
➤ Horsepower	Rated 240 @ 3000
➤ Usable horsepower	100 HP @ 1800 rpm available to compressor
➤ Cylinders	8
➤ Displacement	496 cubic inch
➤ Compression ratio	9.1:1
➤ Aspiration	Natural
➤ Ignition	Electronic distributor
➤ Radiator	Bolted construction
➤ Oil level maintainer	Murphy LM 2000
➤ Oil conditioning system	Luberfiner
➤ Oil Cooler	C/W 180F thermostat
➤ 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	Dual Mac – Critical Grade
➤ Exhaust manifold	Water cooled
➤ 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
- 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 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 11.5', 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 14'6" x 7'1"
- Tongue weight 700 lbs
- Axle type Tandem
- Axle rating 7000 lbs
- Tires Goodyear ST225/75 R15D
- Leveling 4 leveling posts
- Trailer jack Tongue
- Trailer brakes Electric
- Weight 6200 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