



Bay 8, 1820 – 30th Avenue NE
Calgary, Alberta T2E 7M5
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CC40 Compressor Specifications

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 3000
Horsepower	Rated 72 @ 3600
Usable horsepower	40 HP @ 2200 rpm available to compressor
Cylinders	4
Displacement	180 cubic inch
Compression ratio	9.25
Aspiration	Natural
Ignition	Electronic distributor
Radiator	Bolted construction
Oil level maintainer	Murphy LM 2000
Oil conditioning system	Luberfiner
Oil day tank	4 gallons
Coolant day tank	3 gallons
Fuel gas scrubber	Monnier 20 micron 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	10 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 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 PR-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/ft ³
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 10', width 56", 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 10' x 56", overall 13'2" x 6'5"
Tongue weight	400 lbs
Axle rating	6000 lbs
Tires	Goodyear ST225/75 R15D
Leveling	4 leveling posts
Trailer jack	Tongue
Trailer brakes	Electric

Weight	4800 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, Bruerst natural gas heater, 12" x 24" 12000 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