



## CC75 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, 3.6 or 4.4 (field changeable)
➤ Drive	Belt (variable ratio, field changeable)
➤ Oil filter	Donaldson c/w differential pressure gauge

### Driver

➤ Type	Natural gas fueled
➤ Model	Teco 5700
➤ Horsepower	Rated 155 @ 3000
➤ Usable horsepower	75 HP @ 2000 rpm available to compressor
➤ Cylinders	8
➤ Displacement	350 cubic inch
➤ Compression ratio	9.4:1
➤ 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	Monnier 20 micron coalescing filter c/w auto drain/inst. scrubber
➤ Silencer	Dual Mac - whisper quiet
➤ Exhaust manifold	Water cooled
➤ Governor	Woodward electronic – no droop

### Drive System

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

### Cooling System

➤ Type	Aftercooler/oil cooler combination
➤ Model	AKG AOC 75
➤ 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

9 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 Mara 3" FP ball valve
- Discharge check Balon 2" swing
- Low pressure inlet control Kimray 330 FGT PRB-D

## Scrubber

- Rated pressure 200 psi @ 80 °F
- Size 16" diameter
- Design code ASME Sect VIII, Div I
- PSV 75 psi
- Corrosion allowance 1/8"
- Demister pad 304SS demister pad, 9 lb/ft<sup>3</sup>
- 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        | 500 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, & 12" x 12", 6000 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