

CV20 Engine Driven Vane VRU Compressor Specifications

Compressor

- ➢ Type
- > Model
- Suction P
- Discharge P
- > Drive
- > Power
- > Max Flow
- ➢ Inlet Temp
- Case Cooling

Driver

- > Type
- > Model
- Usable horsepower
- Cylinders
- Displacement
- Compression ratio
- > Aspiration
- Ignition
- Radiator
- Oil level maintainer
- Oil conditioning system
- Oil day tank
- Coolant day tank
- ➢ Fuel gas scrubber
- > Silencer
- > Governor
- Gas Composition

- Dry Vane Compressor Ro-Flo 4CCB (formerly AC) 3-5 kPag 230 kPag Direct by driveshaft from Engine 10 HP at 1.4 Se3M3 / day 1.8 Se³m³ / day 51C° Heat exchanger
- Natural gas fueled GM 3000 20 HP @ 1800 rpm available to compressor 4 180 cubic inch 9.25 Natural Electronic distributor Finned tube Murphy LM 2000 Luberfiner 3 gallons 1 gallons Parker 20 micron coalescing filter Mac - whisper quiet operation Woodward electronic We have examined the gas composition. The power of the driver has been derated based on the high CO2 content.

Drive System

Driveshaft

Driveshaft from flywheel to Compressor input shaft

Gas Cooling System

\triangleright	After Cooler	Type
------------------	--------------	------

- Model
- ➢ Rating
- > CRN
- Discharge Temp
- Pre Cooler type

Bar and Plate After Cooler Global CX16 245 psi @ 400 °F AB, BC, SK 10C above ambient Finned Tube

Capacity Control

\triangleright	Turn Down	100%
\triangleright	Low pressure recycle	0.0–1.8 Se ³ m ³ / day
\triangleright	Manual Engine Speed control	$0.6 - 1.8 \ S \ e^3 m^3 / day$

Controls and Instrumentation

Shutdowns

- ► Low suction pressure (2"H2O)
- > High compressor discharge temperature
- High scrubber fluid level
- Low compressor lube oil level
- Low engine oil pressure
- Low engine oil level
- > High engine coolant temperature
- > ESD
- > Gas Detection Micro Watt Millennium Basic

Indicators

- > Annunciator Murphy TTDJ
- ≻ Engine rpm
- > Hour meter
- > Engine oil pressure
- > Engine fuel pressure
- > Suction pressure
- Discharge pressure
- > Compressor discharge temperature
- > 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
- ➢ Outlet flange
- ➤ Inlet valve
- Discharge check

Scrubber And Water Disposal

- Inlet scrubber
- Corrosion allowance
- ➢ Sight glass
- ➢ Level control
- Pump
- Discharge Scrubber
- Design Code
- Auto Drain

1/8" Glass 10" viewing length Kenco 106 pneumatic NG powered ¹/₂" Diaphragm Wilden PX1 10" dia Vertical ASME SectVIII CRN AB, BC, SK

16" diameter, Vertical cw mesh pad

2" npt

1" npt

Mara 2" FP ball valve

Balon 1" swing

Piping

- Process piping
- ➢ Other piping
- ➢ Flare header

SA-106B threaded piping SA-106B threaded spools 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
- > Floor
- Service doors
- Cooling Air Intake
- Roof vents
- > Finish
- ➢ Sound proofing & Insulation

Length 10', width 56", height 51" Drip tray c/w drains 2 - engine, 2 - compressor – gas strut balanced, locking Standard Bug Screens and Winter front Accessories Built-in roof vents for cooling and ventilation Powder coat Frequency specific open flexible polyester polyurethane foam c/w metallized, polyester film, 2" thick, 250-500 HZ

Trailer

- > Portability
- Dimensions
- Tongue weight
- > Axle rating
- ➤ Tires
- ➤ Leveling
- > Trailer jack
- > Trailer brakes
- ➢ Weight
- Sub Floor Insulation
- Construction

Towable by ¹/₂ ton pickup Deck 10' x 56", overall 13'2" x 6'5" 400 lbs 6000 lbs Goodyear ST225/75 R15D 4 leveling posts Tongue Electric 3000 lbs R15 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
- Heaters, Scottcan natural gas heaters, One 12" x 24" 12000 BTU/Hr, One 12" x 12" 6000 BTU/Hr

Compliance

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

Options

- > Compartment temperature control via temperature control of dampers
- ➢ Fire Loop