# PC391 BAKKEN CASING COMPRESSOR



#### **Shipping Dimensions**

• 1.2m W x 2.4m L x 2.4m H (4'0" W x8'0" L x 8'0" H)

#### **Shipping Weight**

1.3 tonnes (2,500 lbs.)

## **DESIGN SUMMARY**

#### **COMPRESSOR MODULE**

 Corken D391 Two-Stage Reciprocating Compressor c/w Heavy Duty Flywheel

#### **DRIVER**

• 15HP explosion proof motor

#### SUCTION SCRUBBER

• 10<sup>3</sup>/<sub>4</sub>" OD Vertical Inlet Mist Extractor c/w Level Gauge

#### **PIPING AND CONTROLS**

- Inlet Regulator Fisher 627 with 15 to 40 psig spring
- Manifolded Low Suction Recycle with two (2) Fisher 627 regulators
- PSV for suction, interstage, and discharge

#### **COOLING SYSTEM**

- Stainless Steel Four-pass Fin Tube Interstage Gas Cooler
- Stainless Steel Six-pass Fin Tube Discharge Gas Cooler

#### **CONTROL PANEL**

- VFD Control Panel with Integral PLC
- Instrumentation and Control include
  - Suction Pressure Transmitter
  - Low Suction Pressure Switch
  - High Discharge Pressure Switch
  - High Discharge Temperature Switch
  - Low Oil Pressure Switch
  - High Inlet Scrubber Level Switch
  - Class 1 Zone 1 Wiring to Skid Edge

#### **ENCLOSURE/SKID**

- Utilidor building
- Two sets of access doors
- Removable panel for belt
- Skid has four corner lifting, containment lip, and drain connection
- 1.000W Electric Heater

#### **CUSTOM OPTIONS**

- to VFD Panel
- H2S beacon
- Heat trace cable (70ft)
- VFD panel from compressor
- · Under skid insulation w/ fire retardant (2" thickness)
- Sour service controls, valves, PSVs, and instrumentation

## **ENHANCED VALUE**

- VFD allows broad flow ranges
- One button startup
- Ability to adjust and control desired casing pressure
- Designed for Bakken oil wells
- · Service center in Estevan, SK
- 25,000 ft<sup>2</sup> fabrication facility
- 40 years combined Bakken optimization experience
- Over 500 casing gas systems installed in 10 years
- 24/7 Support
- Well capitalized, with extensive inventory

Joint collaboration with











- Inlet/Outlet flex hoses
- H<sub>2</sub>S detection with shutdown
- · Interconnecting wiring for

# **PC391 BAKKEN CASING COMPRESSOR**

Driver: 460VAC/3PH/60Hz BHP/Driver speed: 15 BHP @ 1,760 rpm Compressor: Corken D391 Compressor speed: 825 rpm Altitude: 2500 ft Ambient temp: 60 °F Inlet temp: 60 °F Interstage temp: 170 °F Gas Analysis: typical Bakken Gas Sp. Gr.: 0.99 Molar Weight: 28.7 Discharge pressure: See Chart

	Suction	150 psig Discharge		200 psig Discharge		300 psig Discharge		400 psig Discharge	
		mscfd	HP	mscfd	HP	mscfd	HP	mscfd	HP
	0 psig	23	6.7						
	5 psig	32	7.7	32	8.2				
	10 psig	42	8.5	41	9.2				
	15 psig	51	9.2	50	10.0	49	11.2		
	20 psig	60	9.8	60	10.7	58	12.1	57	13.1
	25 psig	70	10.3	69	11.4	68	12.9	66	14.1
	30 psig	79	10.7	79	11.9	77	13.7	76	15.0
	35 psig			88	12.4	86	14.4		
	40 psig			98	12.9	96	15.0		