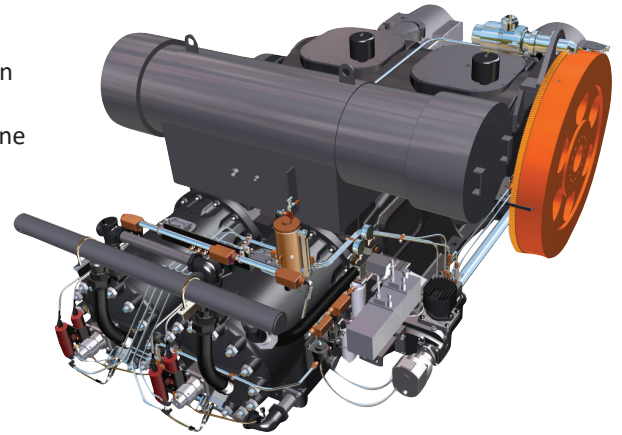# AJAX™ INTEGRAL ENGINE-COMPRESSOR DPC-2202

296 bhp, 440 rpm

Overview

Robust, reliable Ajax engines have been manufactured in the United States longer than any other OEM brand engines, with continuous innovations and technologies adding compliance, strength and simplicity to the original design. The DPC-2202 integral engine compressor is rated at 296 bhp and features a slow-speed, two-cycle engine design that results in less wear and fewer moving parts. It offers greater reliability and efficiency than high-speed separable units. As a result, operating costs are substantially lower over the life of your equipment. Over 60 DPC-2202s have been built. The DPC-2202 is the economic choice for a variety of applications, including gas gathering, injection, processing, transmission, and fuel gas boosting.

Benefits

❯ Minimum maintenance

❯ Higher availability

❯ Higher resale value

❯ Reduced parts stocking requirements

❯ Single source responsibility available

❯ More gas compressed per BHP than high-speed separable units

❯ Higher mechanical efficiency

❯ Flexible

Features

❯ Integral crankshaft design

❯ Slow operating speed

❯ Fewer moving parts

❯ Technically current design

❯ Low-cycle, low BMEP engine

❯ Larger valve area

Model	STD	LE
No. of Cylinders	2	2
Power	296 bhp (221 kWb)	296 bhp (221 kWb)
Rated Speed	440 rpm	440 rpm
Bore & Stroke	13¼" × 16" (337 mm × 406 mm)	13¼" × 16" (337 mm × 406 mm)
Piston Displacement	4,412 in^3 (72 l)	4,412 in^3 (72 l)
BMEP	60.4 psi (4.2 bar)	60.4 psi (4.2 bar)
Piston Speed	1,173 ft/min (6 m/s)	1,173 ft/min (6 m/s)

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Model	STD	LE
Fuel Gas System[1]		
Fuel pressure range	150 psi (10.3 bar)	150 psi (10.3 bar)
Exhaust System[2]		
Exhaust Temperature	470°F (243°C)	470°F (243°C)
Exhaust Flow	93 lb/min (42 kg/min)	93 lb/min (42 kg/min)
Cooling Water System		
Capacity	25 gal (95 l)	25 gal (95 l)
Lube Oil System[3]		
Capacity	25 gal (95 l)	25 gal (95 l)
Consumption	5.0 pints/day (2.3 l/day)	5.0 pints/day (2.3 l/day)
Crankcase Makeup	2.54 pints/day (1.2 l/day)	2.54 pints/day (1.2 l/day)
Brake Specific Fuel Consumption		
100% Load (LHV)	8,000 Btu/bhp-hr (11,319 kJ/kWh)	7,800 Btu/bhp-hr (11,036 kJ/kWh)
Engine Emissions[2]		
NOx	10 g/bhp-hr	2 g/bhp-hr
CO	1.3 g/bhp-hr	1.4 g/bhp-hr
NMHC	0.6 g/bhp-hr	0.6 g/bhp-hr
VOC	0.5 g/bhp-hr	0.5 g/bhp-hr
Formaldehyde	0.3 g/bhp-hr	0.3 g/bhp-hr
CO_2	470 g/bhp-hr	458 g/bhp-hr
Compressor Specifications		
No. of Throws	2	2
Stroke	11" (279 mm)	11" (279 mm)
Piston Speed	807 ft/min (4 m/s)	807 ft/min (4 m/s)
Rod Load	33,000 lb (147 kN)	33,000 lb (147 kN)
Rod Diameter	2.5" (64 mm)	2.5" (64 mm)
Crankshaft Centerline	20" (508 mm)	20" (508 mm)
Dry Weight		
Frame Weight	18,500 lb (8,391 kg)	18,500 lb (8,391 kg)
Dimensions		
Frame Length	163" (4,140 mm)	163" (4,140 mm)
Frame Width	91" (2,311 mm)	91" (2,311 mm)
Frame Height	59" (1,499 mm)	59" (1,499 mm)
Stack Diameter	12" (305 mm)	12" (305 mm)
Stack Height	190" (4,826 mm)	190" (4,826 mm)
Flywheel		
Outside Diameter	48" (1,219 mm)	48" (1,219 mm)
Weight	2,200 lb (998 kg)	2,200 lb (998 kg)

[1] Fuel Gas System pressure noted is maximum pressure at customer connection
[2] Exhaust and Emissions noted based on: PLQNG, 1500 FASL Elevation, 65°F ambient temperature for STD and LE
[3] Lube Oil System consumption rates based on full load and full speed operation. Values do not indicate break-in consumption rates.

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