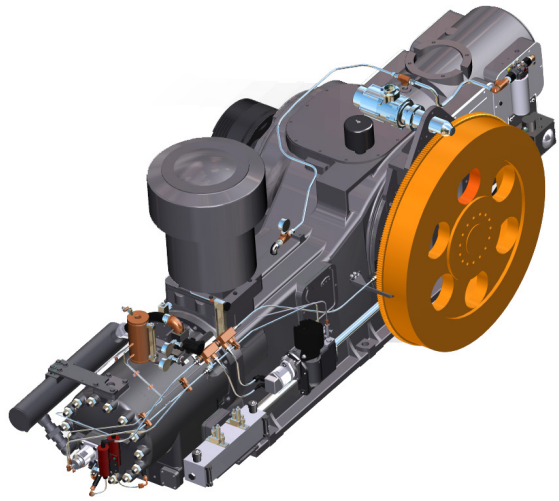
Ajax* Integral Engine-Compressor DPC-2201

148 bhp
440 rpm



Robust reliable Ajax engines have been manufactured in the United States longer than any other engine manufacturer, with continuous innovations and technologies adding compliance, strength and simplicity to the original design. The DPC-2201 integral engine compressor rated at 148 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. The DPC-2201 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

Engine Specifications

Model	STD	LE
No. of Cylinders	1	1
Power	148 bhp (110 kWb)	148 bhp (110 kWb)
Rated Speed	440 rpm	440 rpm
Bore & Stroke	13¼" × 16" (337 mm × 406 mm)	13¼" × 16" (337 mm × 406 mm)
Piston Displacement	2,206 in³ (36 l)	2,206 in³ (36 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)

Engine Specifications

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	490°F (254°C)	490°F (254°C)
Exhaust Flow	45 lb/min (20 kg/min)	47 lb/min (21 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	4.9 pints/day (2.3 l/day)	4.9 pints/day (2.3 l/day)
Crankcase Makeup	1.3 pints/day (0.6 l/day)	1.3 pints/day (0.6 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	1	1
Stroke	11" (279 mm)	11" (279 mm)
Piston Speed	807 ft/min (4 m/s)	807 ft/min (4 m/s)
Rod Load	30,000 lb (133 kN)	30,000 lb (133 kN)
Rod Diameter	2.5" (64 mm)	2.5" (64 mm)
Crankshaft Centerline	20" (508 mm)	20" (508 mm)
Dry Weight		
Frame Weight	11,000 lb (4,990 kg)	11,000 lb (4,990 kg)
Dimensions		
Frame Length	158" (4,013 mm)	158" (4,013 mm)
FrameWidth	61" (1,549 mm)	61" (1,549 mm)
Frame Height	53" (1,346 mm)	53" (1,346 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 & 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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