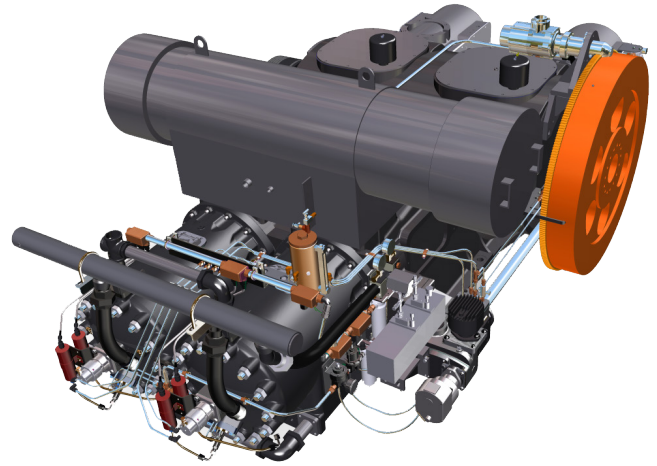




Ajax* Integral Engine-Compressor DPC-2802

384-442 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-2802 integral engine compressor ranges from 384-442 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 900 DPC-2802s have been built. The DPC-2802 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	ULE
No. of Cylinders	2	2	2
Power	422 bhp (315 kWb)	384 bhp (286 kWb)	384 bhp (286 kWb)
Rated Speed	440 rpm	440 rpm	440 rpm
Bore & Stroke	15" x 16" (381 mm x 406 mm)	15" x 16" (381 mm x 406 mm)	15" x 16" (381 mm x 406 mm)
Piston Displacement	5,654 in ³ (93 l)	5,654 in ³ (93 l)	5,654 in ³ (93 l)
BMEP	67.2 psi (4.6 bar)	61.1 psi (4.2 bar)	61.1 psi (4.2 bar)
Piston Speed	1,173 ft/min (6 m/s)	1,173 ft/min (6 m/s)	1,173 ft/min (6 m/s)

Engine Specifications

Model	STD	LE	ULE
Fuel Gas System¹			
Fuel pressure range	150 psi (10.3 bar)	150 psi (10.3 bar)	150 psi (10.3 bar)
Exhaust System²			
Exhaust Temperature	465°F (241°C)	465°F (241°C)	465°F (241°C)
Exhaust Flow	116 lb/min (53 kg/min)	119 lb/min (54 kg/min)	119 lb/min (54 kg/min)
Cooling Water System			
Capacity	75 gal (284 l)	75 gal (284 l)	75 gal (284 l)
Lube Oil System³			
Capacity	30 gal (114 l)	30 gal (114 l)	30 gal (114 l)
Consumption	14.1 pints/day (6.67 l/day)	12.8 pints/day (6.1 l/day)	12.8 pints/day (6.1 l/day)
Crankcase Makeup	3 pints/day (1.5 l/day)	3 pints/day (1.5 l/day)	3 pints/day (1.5 l/day)
Brake Specific Fuel Consumption			
100% Load (LHV)	8,135 Btu/bhp-hr (11,602 kJ/kWh)	7,800 Btu/bhp-hr (11,036 kJ/kWh)	7,600 Btu/bhp-hr (10,753 kJ/kWh)
Engine Emissions²			
NOx	5.5 g/bhp-hr	2 g/bhp-hr	0.5 g/bhp-hr
CO	1.3 g/bhp-hr	1.2 g/bhp-hr	1.2 g/bhp-hr
NMHC	0.7 g/bhp-hr	0.6 g/bhp-hr	0.6 g/bhp-hr
VOC	0.5 g/bhp-hr	0.5 g/bhp-hr	0.5 g/bhp-hr
Formaldehyde	0.3 g/bhp-hr	0.3 g/bhp-hr	0.3 g/bhp-hr
CO ₂	477 g/bhp-hr	458 g/bhp-hr	458 g/bhp-hr
Compressor Specifications			
No. of Throws	2	2	2
Stroke	11" (279 mm)	11" (279 mm)	11" (279 mm)
Piston Speed	807 ft/min (4 m/s)	807 ft/min (4 m/s)	807 ft/min (4 m/s)
Rod Load	33,000 lb (147 kN)	33,000 lb (147 kN)	33,000 lb (147 kN)
Rod Diameter	2.5" (64 mm)	2.5" (64 mm)	2.5" (64 mm)
Crankshaft Centerline	20" (508 mm)	20" (508 mm)	20" (508 mm)
Dry Weight			
Frame Weight	18,500 lb (8391 kg)	18,500 lb (8391 kg)	18,500 lb (8391 kg)
Dimensions			
Frame Length	163" (4,140 mm)	163" (4,140 mm)	163" (4,140 mm)
Frame Width	91" (2,311 mm)	91" (2,311 mm)	91" (2,311 mm)
Frame Height	59" (1,499 mm)	59" (1,499 mm)	59" (1,499 mm)
Stack Diameter	13¼" (337 mm)	13¼" (337 mm)	13¼" (337 mm)
Stack Height	260" (6,604 mm)	260" (6,604 mm)	260" (6,604 mm)
Flywheel			
Outside Diameter	48" (1,219 mm)	48" (1,219 mm)	48" (1,219 mm)
Weight	2,200 lb (998 kg)	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, 100°F ambient temperature for ULE

³ Lube Oil System consumption rates based on full load and full speed operation. Values do not indicate break-in consumption rates.