

Hydraulic power units

Portable hydraulic power supply at the rig site

Applications

- Onshore/Offshore operations
- ATEX Zone I, Zone II, or nonzoned

Features and Benefits

- Compact, easy to transport and can be installed for both onshore and offshore locations
- Self-contained requiring minimal installation labor and maintenance
- Thermostatically-controlled hydraulic oil cooler maintaining optimum oil temperatures for safety
- Automatic shutdown systems offers increased safety for rig personnel
- Lifting certification available for all units

Baker Hughes hydraulic power units are custom-built and certified to the highest industry safety standards. With a proven history of success in the field, the Baker Hughes power units offer the ultimate in flexibility.

The suite of power units includes the zone I electric power unit, zone II diesel power unit, nonzoned diesel power unit, and the existing platform/drilling rig power unit. Once installed, the electric power unit requires minimal maintenance and is ideal for long-term installation in virtually any location, regardless of the environment.

The compact size makes them easy to transport to or from offshore locations

and maximize use of existing space. Being self-contained, they require minimal maintenance and labor to install. The thermostatically controlled hydraulic oil cooler, where installed, maintains optimum hydraulic oil temperature for safety.

Contact your Baker Hughes representative today to find out how the Baker Hughes hydraulic power units can help you improve safety and efficiency in both onshore and offshore applications.

Safety and handling

Before handling, transporting, or use, review the Operating Procedure for guidance.



Figure 1 - Zone I electrical power unit.



Figure 2 - Zone I diesel power unit..

Content Cont	Technical Specifications	
Explosion-proof equipment to ATEX zone Pump	Zone I electrical power unit	
Pump	Lifting certification	EN 12079 and DNV 2.7-1 / 2.7-3
Engine 100 hp (75 kw) Etxal electric motor Cooler Thermastatically controlled hydraulic oil cooler Pressure and temperature trips Electric supply 3-phase 380/415/490 volts 50/60 Hz Hydraulic output Up to 37 gpm (140 lpm) at 3,000 psi (172.3 bar) and up to 59 gpm (132 lpm) at 2,000 psi at 50 Hz Size 4 ft 9-in. long x 4 ft 9-in. wide x 4 ft 9-in. high (1,500 mm long x 1,500 mm wide x 1,500 mm high) Weight 6,600 lb (3,000 kg) Operating temperature range 2-0°C to 50°C Zone III diesel power unit Uffing certification En 12079 and DNV 2.7-1 / 2.7-3 Explosion-proof equipment to ATEX zone II Variable displacement axial piston pump suitable for closed and open center hydraulic systems and pressures up to 6,000 psi (144 bar) Figine 4-cylinder diesel with Pyroban* protection systems Cooler Combined water-cooled manifold/exhaust cooler Fersure and temperature trips Flame arrestors Ethoust gas flame and spark arrestors, inlet air frame arrestor, crank case vent flame arrestor Fan and fan belts Nonmetallic radiator fan and antistatic fan belts Protection device Overspeed protection device operating an inlet air cut-off Caps Screw caps to dipstick and oil filter caps Hydraulic output 2,500 psi (1724 barr) or 35 gpm (132 lpm) at 1,800 mm wide x 1,840 mm high) Weight 6,600 lb (3,000 kg) Operating temperature range 2-0°C to 40°C Nonzoned diesel power unit with increased sofety Engine protection includes exhaust spark arrestor, or spend shutdown, emergency stop, low engine oil pressure shutdown Fixed displacement gear pump suitable for open center hydraulic systems and pressures up to 3,000 psi (1724 barr) or 35 gpm (132 lpm) at 1,800 mm long x 1,300 mm wide x 1,840 mm high) Weight 6,600 lb (3,000 kg) Operating temperature range 2-0°C to 40°C Nonzoned diesel power unit with increased sofety Engine Deturz 6,491 6 - cylinder diesel Hydraulic output 2,500 psi (1723 bor) or 35 gpm (132 lpm) Starter Ali-operated Ali-o spring-operated Size 7,684 6 - cylinder diesel	Explosion-proof equipment to ATEX zone	
Cooler Thermostatically controlled hydraulic oil cooler Pressure and temperature trips Motor over current, motor high temperature, high hydraulic oil temperature and low hydraulic oil level trips Electric supply 3-phase 380/415/480 volts 50/60 Hz Hydraulic output Up to 37 gpm (140 lpm) at 3,000 psi (172.3 bar) and up to 59 gpm (132 lpm) at 2,000 psi at 50 Hz Size 4 ft 9-in. long x 4 ft 9-in. wide x 4 ft 9-in. high (1,500 mm long x 1,500 mm wide x 1,500 mm high) Weight 6,600 lb (3,000 kg) Operating temperature range 2-20°C to 50°C Zone I diesel power unit Elition of the 120°P and DNV 2.7-1/2.7-3 Explosion-proof equipment to ATEX zone II Varioble displacement axid piston pump suitable for closed and open center hydraulic systems and pressures up to 6,000 psi (414 bar) Engine 4-cylinder diesel with Pyroban® protection systems Cooler Combined water-cooled manifold/exhaust cooler Pressure and temperature trips low lubricating oil pressure, high cooling water temperature, high oil temperature, and high exhaust temperature trips Flame arrestors Exhaust gas flame and spark arrestors, inlet air flame arrestor, crank case vent flame arrestor Fon and fan belts Nonmetallic radiator fan and antistatic fan belts Protection device Overspeed protection device	Pump	
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Electric supply 3-phase 380/415/480 volts 50/60 Hz Electric supply 4-phase 380/415/480 volts 50/60 Hz Electric supply 4-fine files 50/60 ps (172.3 bar) and 50/60 ps (1414 bar) Engline 4-phase 50/600 ps (1414 bar) Engine 4-cylinder diesel with Pyroban* protection systems Cooler 4-cylinder diesel with Pyroban* protection systems Cooler 5-cooled manifold/exhaust cooler Elemane arrestors 5-chause 4-cylinder diesel with Pyroban* protection systems Elemane arrestors 6-cooled manifold/exhaust cooler Elemane arrestors 6-chause 4-cylinder diesel protection device operating an inlet air cut-off Eags 8-crew caps to dipstick and oil filter caps Hydraulic output 9-cy60 ps (172.4 bar) or 35 gpm (132 lpm) at 1,800 rpm Electric 8-fi 3-in, long x 4 ft 3-in, wide x 6 ft high (2,500 mm long x 1,300 mm wide x 1,840 mm high) Weight 6-600 lb (3,000 kg) Operating temperature range 7-20°C to 40°C Nonzoned diesel power unit with increased safety Engine 5-cy60 ps (172.3 bar) or 35 gpm (132 lpm) Engine 6-cy60 ps (172.3 bar) or 35 gpm (132 lpm) Engine 6-cy60 ps (172.3 bar) or 35 gpm (132 lpm) Starter Ali- or spring-operated Size 7-fit 8-in, long x 4 ft 3-in, wide x 4 ft 9-in, high (2,400 mm long x 1,300 mm wide x 1,500 mm high)	Cooler	Thermostatically controlled hydraulic oil cooler
Hydraulic output Up to 37 gpm (140 lpm) at 3,000 psi (172.3 bar) and up to 59 gpm (132 lpm) at 2,000 psi at 50 Hz Size 4 ft 9-in. long x 4 ft 9-in. wide x 4 ft 9-in. high (1,500 mm long x 1,500 mm wide x 1,500 mm high) 6,600 lb (3,000 kg) Operating temperature range -20°C to 50°C Zone II diesel power unit Lifting certification EN 12079 and DNV 2.7-1 / 2.7-3 Explosion-proof equipment to ATEX zone II Pump Variable displacement axial piston pump suitable for closed and open center hydraulic systems and pressures up to 6,000 psi (414 bar) Engine 4-cylinder diesel with Pyroban* protection systems Cooler Combined water-cooled manifold/exhaust cooler Low lubricating oil pressure, high cooling water temperature, high oil temperature, and high exhaust temperature trips Flame arrestors Exhaust gas flame and spark arrestors, inlet air flame arrestor, crank case vent flame arrestor Fan and fan belts Nonmetallic radiator fan and antistatic fan belts Protection device Overspeed protection device operating an inlet air cut-off Caps Screw caps to dipstick and oil filter caps Hydraulic output 2,500 psi (172,4 bar) or 35 gpm (132 lpm) at 1,800 rpm Starter Air-operated Size 8 ft 3-in. long x 4 ft 3-in. wide x 6 ft high (2,500 mm long x 1,300 mm wide x 1,840 mm high) Weight 6,600 lb (3,000 kg) Operating temperature range -20°C to 40°C Nonzoned diesel power unit with increased safety Flad displacement gear pump suitable for open center hydraulic systems and pressures up to 3,000 psi (207 Mpc) Engine DEUT2* 6,1914 6-cylinder diesel Hydroulic output 4,500 psi (172,3 bar) or 35 gpm (132 lpm) Starter Air- or spring-operated	Pressure and temperature trips	
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Engine protection includes exhaust spark arrestor, overspeed shutdown, emergency stop, low engine oil pressure shutdown Pump Fixed displacement gear pump suitable for open center hydraulic systems and pressures up to 3,000 psi (207 MPa) Engine DEUTZ® 6L914 6-cylinder diesel Hydraulic output 2,500 psi (172.3 bar) or 35 gpm (132 lpm) Starter Air- or spring-operated Size 7 ft 8-in. long x 4 ft 3-in. wide x 4 ft 9-in. high (2,400 mm long x 1,300 mm wide x 1,500 mm high)	Operating temperature range	-20°C to 40°C
Fixed displacement gear pump suitable for open center hydraulic systems and pressures up to 3,000 psi (207 MPa) Engine DEUTZ® 6L914 6-cylinder diesel Hydraulic output 2,500 psi (172.3 bar) or 35 gpm (132 lpm) Starter Air- or spring-operated Size 7 ft 8-in. long x 4 ft 3-in. wide x 4 ft 9-in. high (2,400 mm long x 1,300 mm wide x 1,500 mm high)	Nonzoned diesel power unit with increased safety	
3,000 psi (207 MPa) Engine DEUTZ® 6L914 6-cylinder diesel Hydraulic output 2,500 psi (172.3 bar) or 35 gpm (132 lpm) Starter Air- or spring-operated Size 7 ft 8-in. long x 4 ft 3-in. wide x 4 ft 9-in. high (2,400 mm long x 1,300 mm wide x 1,500 mm high)	Engine protection includes exhaust spark arrestor, overspeed shutdown, emergency stop, low engine oil pressure shutdown	
Hydraulic output 2,500 psi (172.3 bar) or 35 gpm (132 lpm) Starter Air- or spring-operated Size 7 ft 8-in. long x 4 ft 3-in. wide x 4 ft 9-in. high (2,400 mm long x 1,300 mm wide x 1,500 mm high)	Pump	
Starter Air- or spring-operated Size 7 ft 8-in. long x 4 ft 3-in. wide x 4 ft 9-in. high (2,400 mm long x 1,300 mm wide x 1,500 mm high)	Engine	DEUTZ® 6L914 6-cylinder diesel
Size 7 ft 8-in. long x 4 ft 3-in. wide x 4 ft 9-in. high (2,400 mm long x 1,300 mm wide x 1,500 mm high)	Hydraulic output	2,500 psi (172.3 bar) or 35 gpm (132 lpm)
The state of the s	Starter	Air- or spring-operated
Weight 5,500 lb (2,500 kg)	Size	7 ft 8-in. long x 4 ft 3-in. wide x 4 ft 9-in. high (2,400 mm long x 1,300 mm wide x 1,500 mm high)
	Weight	5,500 lb (2,500 kg)

Note: The specifications given herein may not apply to all existing Baker Hughes hydraulic power units.

