

MUDMASTER[®]

PUMP UNITS

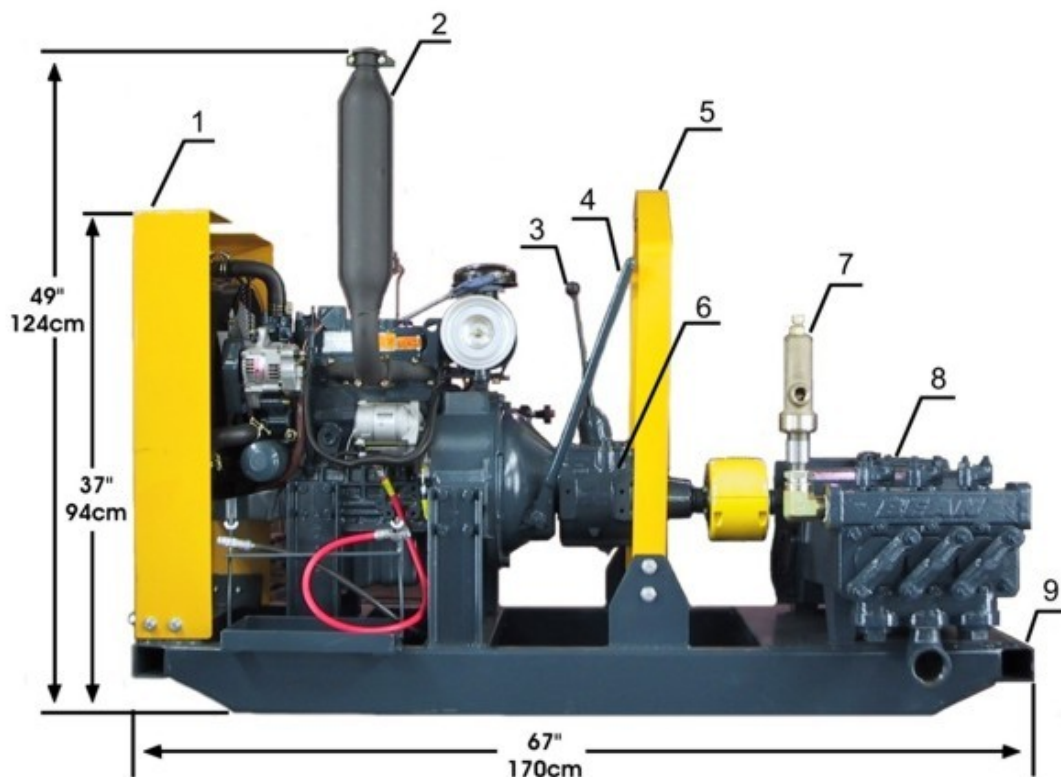


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Edmonton AB Canada 780-455-2260
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Mudmaster 435 DT Pump Unit

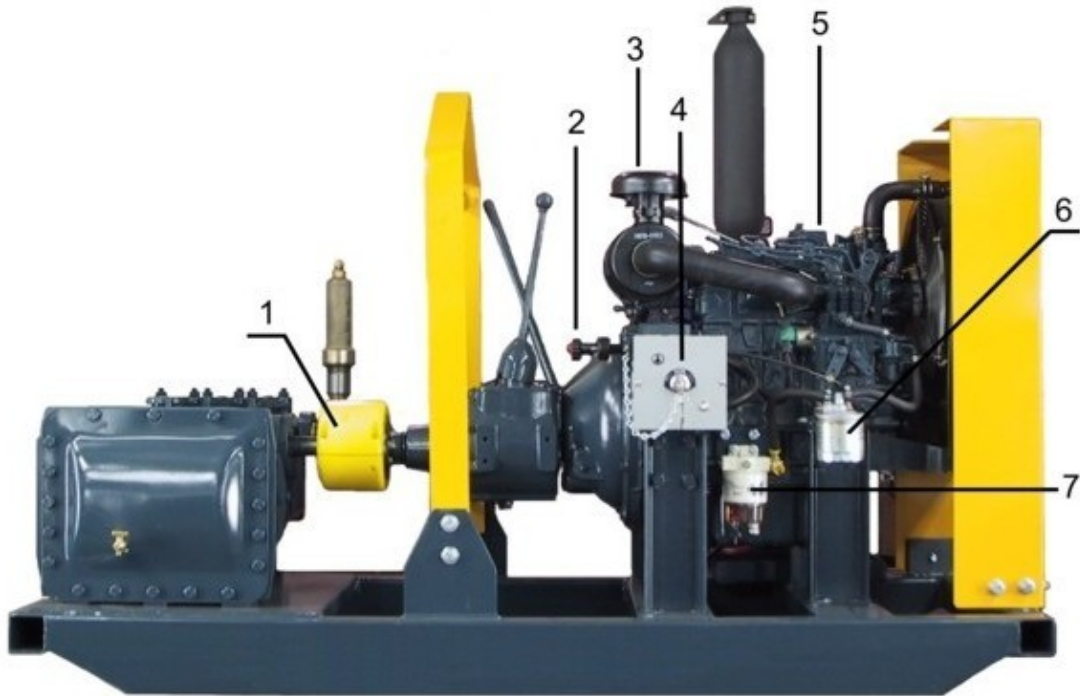
Left Hand Side (Viewed from pump end)



Above dimensions are approximate

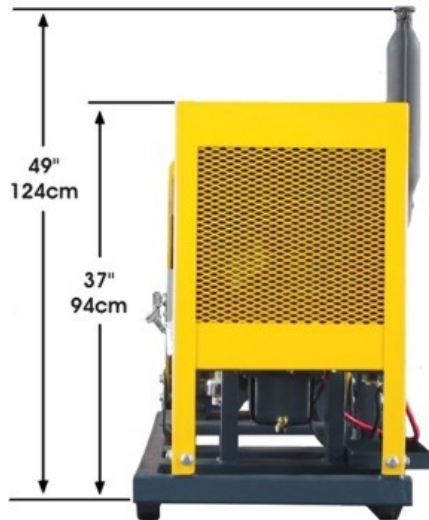
1. Heavy gauge removable radiator guard
2. Exhaust silencer shown in vertical position
3. Gear selector
4. Clutch actuator
5. Bolt-on single point lifting bail
6. Transmission assembly, four speeds, with integral reduction gear
7. Adjustable pressure relief valve
8. FMC (Bean Royal) W1122B-CD (435) pump assembly
9. Welded structural tube skid base

Right Hand Side (Viewed from pump end)



1. Coupling with guard
2. Throttle control
3. Dry type air cleaner with replaceable element
4. Start/Stop water resistant panel
5. Kubota 3 cylinder diesel engine
6. Spin-on replaceable fuel filter
7. Primary fuel filter/water separator

Front View



Rear View



General Specifications – Model 435 DT

- Diesel powered high pressure pumping unit designed for continuous duty applications as a “mud pump” for diamond (core) drilling use.
- 564 kg / 1185 lb (with oil, without battery)

Engine

- Kubota type D1105, three cylinder, liquid cooled diesel.
- Rated 19 continuous, 25 intermittent B.H.P @ 3000 RPM.
- 12 volt electric starting and charging system.
- Glow plug starting assist.
- Replaceable spin-on lube and fuel filters.
- Primary fuel/water separator.
- Dry type replaceable air filter.
- Fuel transfer and priming pump.
- Engine details are available on separate specification page.

Transmission

- Mudmaster model 40M43 with integral reduction gear.
- Four forward speeds to provide pump input speeds of 192, 278, 500 and 833 RPM at 2500 engine RPM.
- 8” Automotive clutch assembly directly connected.
- Spicer type output flange positively aligned to heavy duty pump coupling with guard.

Pump

- FMC (Bean Royal) model W1122B-CD
- *Rated 37 U.S.G.P.M. @ 1000 P.S.I. (140 liters @ 68 BAR) with standard “core drill” style ball valves.
- Rated 50 U.S.G.P.M @ 1000 P.S.I. (190 liters @ 68 BAR) with optional disk valves (850 Pump RPM).
- Actual flow rates may vary with the site conditions:

Flow Per Minute			
First Gear	Second Gear	Third Gear	Fourth Gear
Up to 11.3 USG (43 L)	Up to 16.4 USG (62 L)	Up to 29 USG (112 L)	Up to 49 USG (141 L)

* 50 GPM (190 L) with optional disc valves & 850 RPM pump speed (2500 engine).

Other Features

- Welded structural steel base frame with coped ends for ease of transport and installation.
- Full flow, replaceable lube, fuel and air filters.
- Primary fuel filter/water separator.
- Fuel transfer and priming pump.
- Guarded coupling.
- Heavy construction, removable radiator guard.
- Bolt-on, structural steel, single point lifting bail.
- Easy access for service and maintenance.
- Adjustable pressure relief valve with steel plumbing.
- Fully load tested and serviced including lube oil and antifreeze.
- Enamel paint finish.
- One set of owner's manuals.

