

MUDMASTER®

PUMP UNITS

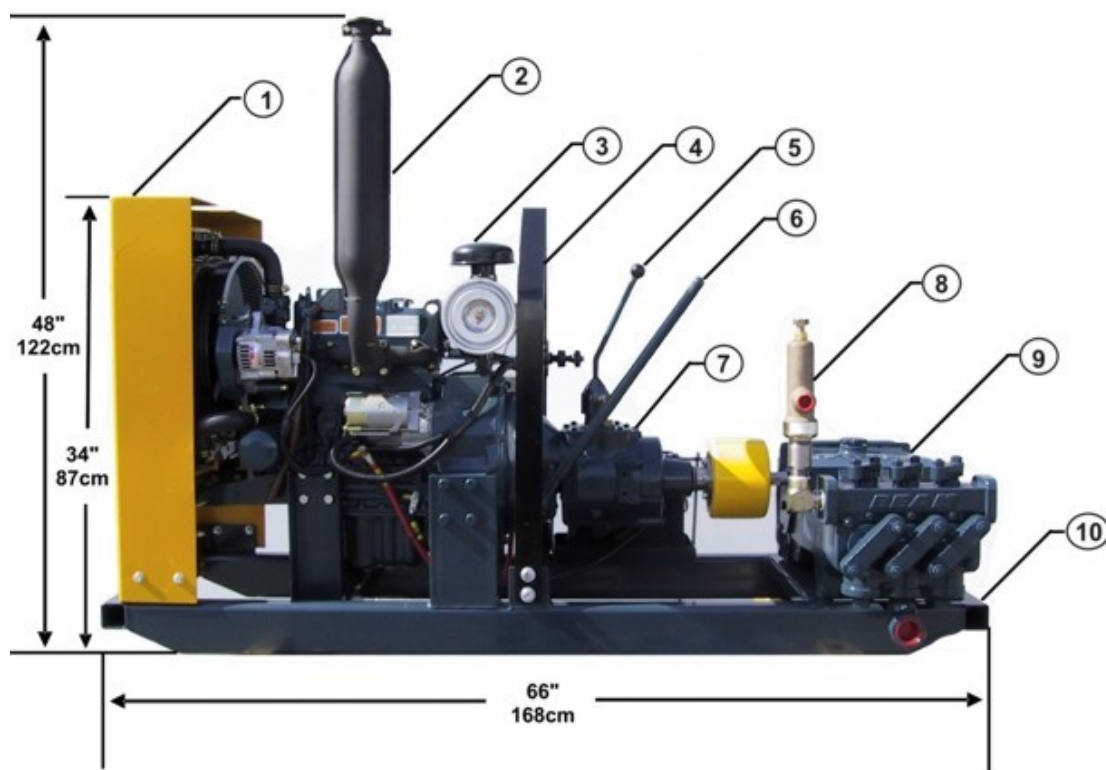


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Edmonton AB Canada 780-455-2260
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Mudmaster 420 DT Pump Unit

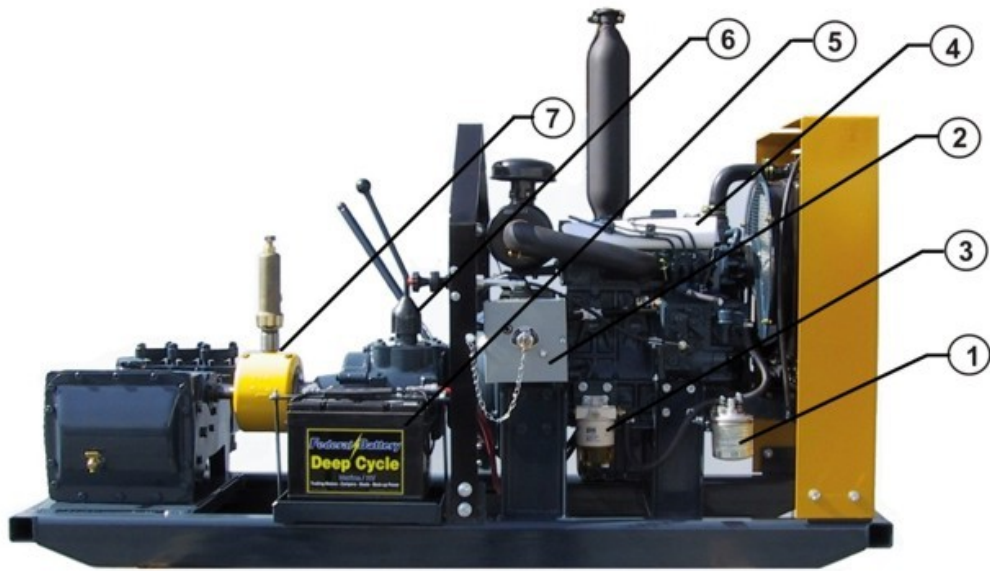
Left Hand Side (Viewed from pump end)



Above dimensions are approximate

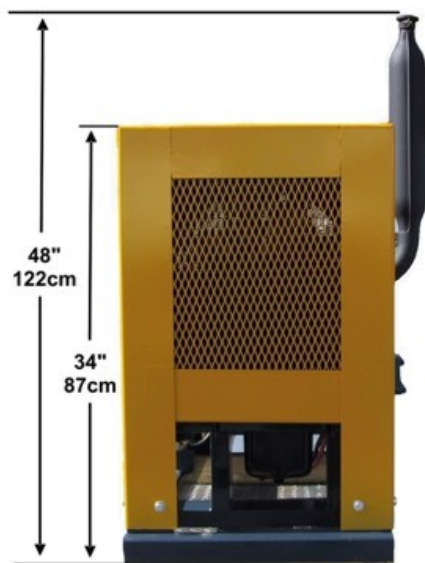
1. Heavy gauge removable radiator guard
2. Exhaust silencer shown in vertical position
3. Dry type air cleaner with replaceable element
4. Bolt-on single point lifting bail
5. Gear selector
6. Clutch actuator
7. Transmission assembly, four speeds
8. Adjustable pressure relief valve
9. FMC (Bean Royal) L0918B-CD (420) pump assembly
10. Welded structural tube skid base

Right Hand Side (Viewed from pump end)



1. Spin-on replaceable fuel filter
2. Primary fuel filter/water separator
3. Start/Stop water resistant panel
4. Kubota three cylinder diesel engine
5. 12V DC battery
6. Throttle control
7. Coupling with guard

Front View



Rear View



General Specifications – Model 420 DT

- Diesel powered high pressure pumping unit designed for continuous duty applications as a “mud pump” for diamond (core) drilling use.
- 463 kg / 1018 lb

Engine

- Kubota type D1005, three cylinder, liquid cooled diesel.
- Rated 23 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 speed to provide pump input speeds of 169, 244, 440 and 733 RPM at 2200 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 L0918B-CD
- *Rated 20 U.S.G.P.M. @ 700 P.S.I. (76 liters @ 48 BAR) with standard “core drill” style ball valves.
- Rated 28 U.S.G.P.M @ 700 P.S.I. (106 liters @ 48 BAR) with optional disk valves.
- Actual flow rates may vary with the site conditions:

Flow Per Minute			
First Gear	Second Gear	Third Gear	Fourth Gear
Up to 5.5 USG (21 L)	Up to 7.9 USG (30 L)	Up to 14.2 USG (54 L)	Up to 20 USG (77 L)

* 28 GPM (106.8 L) with optional disc valves.

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.

