



DITCH WITCH FM50, FM13, FM5, FT5

FLUID MANAGEMENT



IT'S MORE LIKE FLUID MICROMANAGEMENT. **DITCH WITCH.**





DITCH WITCH FM50 FLUID MIXING SYSTEM

When you're mixing it up with the big boys, the high-volume, high-efficiency FM50 has the ideal blend of features you need to complete your HDD job. Each of the FM50's two 1000-gallon (3785 L) mixing tanks has its own pump, making it easy to deliver drilling fluid to your HDD units. The FM50's quiet, enclosed diesel engine produces only 100 dbA, so you can work all you want in residential areas. But since it takes just minutes to mix a thousand gallons of 42-viscosity fluid, you won't have to stay long.





KEY FEATURES

Isolated gen set is quiet enough to work in noise-sensitive areas; engine can be located away from the mixing station, further reducing noise exposure to the operator.

Efficient mixing system yields up to 16 bags/2000 gal (7570 L) in less than eight minutes.

DETAILS

The tank's sloping bottom ensures that all drilling fluid flows through the pump and is thoroughly mixed.

Auxiliary power outlets that can run a battery charger, heaters, lights or other tools eliminate the need for a separate jobsite generator.

Tanks have separate mixing hoppers for dry and liquid additives.

Flexible set-up configurations can be mounted on a trailer, truck, or other means of transport with one or two mixing stands or tanks and with the power source at either end.

Supports HDD systems of all sizes.

DITCH WITCH FM13 FLUID MIXING SYSTEM

The FM13 fluid mixing system is designed to work a long time before requiring any of your attention. Its pump lubricates itself during mixing, and works so efficiently that it delivers 20 percent more fluid capacity than other models. To make your life easier, it even has a built-in bag-ripper. You are required, however, to choose between a 500- and 1000-gallon (1892 and 3785 L) tank. If you like the strong and independent type, you'll like the FM13.





KEY FEATURES

Flowmax centrifugal pump flows 200 gpm (757 L/min) of 42-viscosity drilling fluid.

One-piece mixing jet yields eight bags/1000 gallon (3785 L) in less than eight minutes.

DETAILS

The tank's sloping bottom ensures that all drilling fluid flows through the pump and is thoroughly mixed.

Built-in bag-ripper and steeper hopper sides help accelerate mixing cycles; system is designed to increase productivity through greater drilling fluid flow and faster yield times.

Supports HDD systems of all sizes.

Self-lubricating seal minimizes pump maintenance.

DITCH WITCH FM5 AND FT5 FLUID MIXING SYSTEMS

The compact FM5 and FT5 make short work of the mixing process. Simplicity of design and multiple configuration options accommodate a variety of setups and make transport easy. Designed to support smaller HDD systems, the FM5 and FT5 also support your need to get the job done right and right on time.





KEY FEATURES

Venturi wet hopper allows excellent mixing of fluids; the hopper's steeper sides help speed up mixing cycles.

Narrow tank can be positioned side-by-side with a drill unit on a trailer, making the equipment easy to transport to the jobsite.

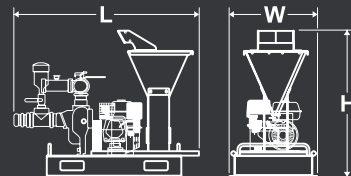
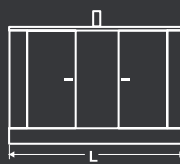
DETAILS

The FM5 tank's sloping bottom ensures that all drilling fluid flows through the pump and is thoroughly mixed.

The flexible pump mounting of the FM5 offers a variety of setup configurations; pump delivers 160 gpm (606 L/min) flow.

The cost-effective FT5 has a 200-gallon (757 L) capacity, allowing it to fit on very small truck or trailer configurations.

The Ditch Witch® organization supports all of its products with superior-quality parts, service and training, all available from a worldwide network of Ditch Witch dealers.



SPECIFICATIONS

DIMENSIONS—GENERATOR SET

LENGTH
HEIGHT
WIDTH
WEIGHT

DIMENSIONS—HOPPER

LENGTH
HEIGHT
WIDTH
WEIGHT

DIMENSIONS—DRILLING FLUID TANKS

500-GAL (1890 L) TANK

LENGTH
HEIGHT
WIDTH
WEIGHT

EMPTY

FULL OF WATER

1000-GAL (3780 L) TANK

LENGTH
HEIGHT, W/TANK FILL
WIDTH
WEIGHT

EMPTY

FULL OF WATER

POWER

ENGINE
FUEL
COOLING MEDIUM
INJECTION
ASPIRATION
NUMBER OF CYLINDERS
DISPLACEMENT
BORE
STROKE
MANUFACTURER'S GROSS POWER RATING
RATED SPEED

FLUID CAPACITIES

FUEL TANK
ENGINE OIL

FLUID MIXING SYSTEM

MAX. PUMP FLOW RATE, WATER
DRILLING FLUID/MIXING TANK CAPACITY
MIXING TIME FOR 50 LB (22.7 KG)
MIXING TIME FOR 100 LB (45 KG)
MAXIMUM FLOW RATE TO DRILLING UNIT*
MAXIMUM FLUID PRESSURE
MIXING HOPPER CAPACITY
LIQUID CHEMICAL HOPPER CAPACITY

ACCESSORY OUTLETS

FM50

U.S.	METRIC
72 IN	1.83 M
47 IN	1.19 M
36 IN	914 MM
2000 LB	907 KG

58 IN	1.47 M
40 IN	1.02 M
26 IN	660 MM
500 LB	227 KG

N/A	N/A
N/A	N/A
N/A	N/A

N/A	N/A
N/A	N/A

125 IN	3.18 M
80 IN	2.03 M
42 IN	1.07 M

1000 LB	454 KG
9350 LB	4241 KG

KUBOTA V3300 EBG-2	
DIESEL	
LIQUID	
INDIRECT	
NATURAL	
4	
201 IN ³	3.3 L
3.9 IN	98 MM
4.3 IN	110 MM
53 HP	39.5 KW
1800 RPM	1800 RPM

15 GAL	57 L
14 QT	13.2 L

300 GPM	1135 L/MIN
1000 GAL	3785 L
30 SEC	30 SEC
1 MIN	1 MIN
235 GPM	890 L/MIN
50 PSI	3.4 BAR
1.0 FT ³	28 L
1.0 QT	0.9 L

NORTH AMERICA 139V AC @ 60 HZ (2 DUPLEX OUTLETS) 240V AC @ 60 HZ (1 TWIST-LOCK OUTLET)	EUROPE 200V AC @ 50 HZ (2 IEC 16A OUTLETS)
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FM13

U.S.	METRIC
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

60 IN	1.52 M
43 IN	1.09 M
26 IN	660 MM
390 LB	177 KG

83 IN	2.11 M
79 IN	2.01 M
32 IN	810 MM

450 LB	200 KG
4630 LB	2100 KG

125 IN	3.18 M
80 IN	2.03 M
42 IN	1.07 M

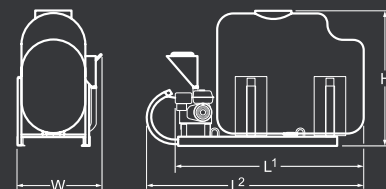
1350 LB	610 KG
9700 LB	4400 KG

HONDA GX390	
GASOLINE	
AIR	
N/A	
NATURAL	
1	
23.7 IN ³	389 CM ³
3.5 IN	90 MM
2.5 IN	64 MM
13 HP	9.7 KW
3600 RPM	3600 RPM

1.7 GAL	6.4 L
2.3 PT	1.1 L

300 GPM	1135 L/MIN
500/1000 GAL	1895 L/3785 L
60 SEC	60 SEC
2 MIN	2 MIN
200 GPM	760 L/MIN
50 PSI	3.4 BAR
1.0 FT ³	28 L
1.0 QT	0.9 L

NORTH AMERICA N/A	EUROPE N/A
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SPECIFICATIONS

DIMENSIONS

LENGTH
LENGTH, W/HOSE AND VALVE
HEIGHT
WIDTH
WEIGHT, EMPTY
FULL OF WATER

POWER

ENGINE
FUEL
COOLING MEDIUM
NUMBER OF CYLINDERS
DISPLACEMENT
BORE
STROKE
GROSS POWER @ 3600 RPM

FLUID CAPACITIES

FUEL TANK
ENGINE OIL

FLUID MIXING SYSTEM

MAX. PUMP FLOW RATE, WATER
DRILLING FLUID/MIXING TANK CAPACITY
MIXING TIME FOR 50 LB (22.7 KG)
MIXING TIME FOR 100 LB (45 KG)
MAXIMUM FLOW RATE TO DRILLING UNIT
MAXIMUM FLUID PRESSURE
MIXING HOPPER CAPACITY

FM5

U.S.	METRIC
123 IN	3.13 M
N/A	N/A
53 IN	1.35 M
25.6 IN	650 MM
660 LB	299 KG
3164 LB	1435 KG

HONDA GX160	
GASOLINE	
AIR	
1	
9.9 IN ³	162 CM ³
2.7 IN	69 MM
1.8 IN	46 MM
5.5 HP	4.1 KW

1 GAL	3.6 L
0.6 QT	0.6 L

160 GPM	606 L/MIN
300 GAL	1136 L
1 MIN	1 MIN
2 MIN	2 MIN
N/A	N/A
40 PSI	2.8 BAR
1.0 FT ³	28 L

FT5

U.S.	METRIC
73 IN	1.85 M
84 IN	2.13 M
53.5 IN	1.36 M
32 IN	813 MM
402 LB	182 KG
2071 LB	939 KG

HONDA GX160	
GASOLINE	
AIR	
1	
9.9 IN ³	162 CM ³
2.7 IN	69 MM
1.8 IN	46 MM
5.5 HP	4.1 KW

1 GAL	3.6 L
0.6 QT	0.6 L

N/A	N/A
200 GAL	760 L
N/A	N/A
N/A	N/A
18 GPM	68 LPM
N/A	N/A
N/A	N/A

SPECIFICATIONS ARE GENERAL AND SUBJECT TO CHANGE WITHOUT NOTICE. IF EXACT MEASUREMENTS ARE REQUIRED, EQUIPMENT SHOULD BE WEIGHED AND MEASURED. DUE TO SELECTED OPTIONS, DELIVERED EQUIPMENT MAY NOT NECESSARILY MATCH THAT SHOWN. *42-SECOND VISCOSITY FLUID DELIVERED AT 30 PSI (2.1 BAR) THROUGH 3 IN X 50 FT (76 MM X 15 M) HOSE. NOTE: DELIVERED (CHARGE) PRESSURE IS 30-50 PSI (2.1-3.4 BAR) DEPENDING ON PUMP SPEED, SELECTION AND FLOW RATES.



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