



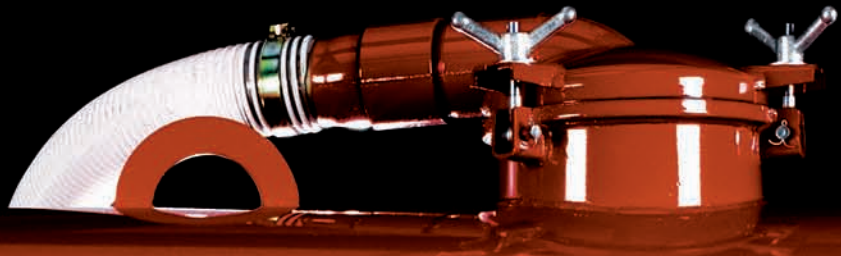
DITCH WITCH FX60, FX30

VACUUM EXCAVATORS



FEEL THE EARTH MOVE. **DITCH WITCH.**





Ditch Witch[®]

800 GAL



DITCH WITCH FX60, FX30 VACUUM EXCAVATION SYSTEMS

Simply put, these are the quietest, most productive, and most versatile vacuum excavation systems on the market. Each is equipped with your choice of three tank sizes, a lengthy list of standard features, and more than enough water pressure and suction to perform a myriad of cleanup and soft excavation tasks. Both the FX60 and FX30 make short work of spills and unwanted fluids in and around manholes, catch basins, meter boxes, storm drains, cellars, conduit and pipe, vehicle wash pits, and grease traps. Soft excavation capabilities include digging postholes, exposing and locating lines, cleaning utility boxes, and street repair.





FX60 KEY FEATURES

Quietest in its class at 82 dBA
Auxiliary hydraulic power source.
60-hp Cummins diesel engine.

FX30 KEY FEATURES

Quietest on the market at 73 dBA 26-hp.
Kubota diesel engine.
Direct-driven blower.



DETAILS

Compact footprint capable of large-volume production with choice of 300- to 1200-gallon-capacity tanks built in an overall, highly efficient package.

Full opening rear door with single-point latch for easy spoils removal.

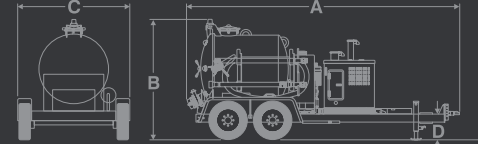
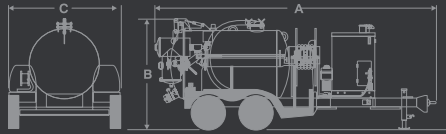
Water pressure can be adjusted from a curbside operator's station that allows one-person control of all unit functions.

Reusable, single-element vacuum filter and a blower relief valve air filter provide the industry's best filtration.

Autoclutching feature disengages the water pump when water is not in use, allowing full system power to the blower.

The 1200-gallon's saddle-style freshwater tanks enhance trailer balance with a lower center of gravity while a convenient hose reel saves time.

Fully enclosed, insulated and lockable power pack protects major components from weather and vandalism while leading the industry in noise reduction.



SPECIFICATIONS

FX60

FX30

DIMENSION

LENGTH

FX60 300 GAL (1136 L)/FX30 500 GAL (1893L)
800 GAL (3028 L)
1200 GAL (4542 L)

HEIGHT

FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL

WIDTH

FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL

DECK HEIGHT

FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL

DRY WEIGHT

FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL

WEIGHT, WITH FULL TANKS (WATER)

FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL

U.S.

201 IN
263 IN
245 IN

METRIC

5.1 M
6.9 M
6.2 M

91 IN
92 IN
99 IN

2.3 M
2.3 M
2.5 M

97.5 IN
100.5 IN
100.5 IN

2.5 M
2.6 M
2.6 M

19 IN
23 IN
N/A

483 MM
584 MM
N/A

7150 LB
8510 LB
11,230 LB

3243 KG
3860 KG
5094 KG

10,350 LB
16,850 LB
24,880 LB

4695 KG
7643 KG
11,285 KG

U.S.

201 IN
263 IN
245 IN

METRIC

5.1 M
6.9 M
6.2 M

91 IN
92 IN
99 IN

2.3 M
2.3 M
2.5 M

97.5 IN
100.5 IN
100.5 IN

2.5 M
2.6 M
2.6 M

19 IN
23 IN
N/A

483 MM
584 MM
N/A

5260 LB
8190 LB
9440 LB

2390 KG
3715 KG
4282 KG

9950 LB
18,000 LB
22,400 LB

4523 KG
8172 KG
10,179 KG

TANK

LENGTH

FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL

DIAMETER

FX60 300/800 GAL/FX30 500/800 GAL
1200 GAL

DRAIN VALVE SIZE

INLET VALVE SIZE

66 IN
98 IN
106 IN

1.7 M
2.5 M
2.7 M

50 IN
60 IN
6 IN
4 IN

1.3 M
1.5 M
152 MM
102 MM

66 IN
98 IN
106 IN

1.68 M
2.5 M
2.7 M

50 IN
60 IN
6 IN
4 IN

1.3 M
1.5 M
152 MM
102 MM

POWER

ENGINE

FUEL

COOLING MEDIUM

INJECTION

ASPIRATION

CYLINDERS

DISPLACEMENT

BORE

STROKE

MANUFACTURER'S GROSS POWER RATING (SAE J1995)

ESTIMATED NET POWER RATING (SAE J1349)

RATED SPEED

CUMMINS B3.3

DIESEL

LIQUID

DIRECT

NATURAL

4

199 IN³

3.74 IN

4.53 IN

60 HP

56 HP

2200 RPM

3.3 L

95 MM

115 MM

45 KW

42 KW

2200 RPM

KUBOTA D1105-ES

DIESEL

LIQUID

INDIRECT

NATURAL

3

68.6 IN³

3.07 IN

3.09 IN

26 HP

24.5 HP

3000 RPM

1.12 L

78 MM

78.5 MM

19.4 KW

18.3 KW

3000 RPM

HYDRAULIC SYSTEM

PRESSURE

AUXILIARY FLOW

DRIVE TYPE

TANK LIFT CYLINDER SIZE (1)

FX60 300/800 GAL/FX30 500/800 GAL
1200 GAL

MAXIMUM TILT ANGLE

FX60 300/800 GAL/FX30 500/800 GAL
1200 GAL

TIME TO TILT FULLY UP (EMPTY)

FX60 300/800 GAL/FX30 500/800 GAL
1200 GAL

TIME TO TILT FULLY DOWN (EMPTY)

FX60 300/800 GAL/FX30 500/800 GAL
1200 GAL

2500 PSI

7.5 GPM

GEAR

3 IN

4 IN

45°

50°

10 SEC

16 SEC

12 SEC

16 SEC

172 BAR

28 L/MIN

76 MM

102 MM

45°

50°

23 SEC

28 SEC

19 SEC

23 SEC

2500 PSI

N/A

12-VOLT DC POWER

3 IN

4 IN

45°

50°

23 SEC

28 SEC

19 SEC

23 SEC

172 BAR

N/A

76 MM

102 MM

45°

50°

BATTERY

GROUP

SAE RESERVE CAPACITY RATING

SAE COLD CRANK RATING @ 0° F (-18° C)

78U, 12 VOLT

110 MINUTES

800 AMPS

78U, 12 VOLT

110 MINUTES

800 AMPS

SPECIFICATIONS

FX60

FX30

VACUUM SYSTEM

DRIVE TYPE
DISPLACEMENT
MAXIMUM VACUUM
VACUUM TANK DOOR DIAMETER
FX60 300/800 GAL/FX30 500/800 GAL
1200 GAL
DRAIN VALVE SIZE
INLET VALVE SIZE
PRIMARY SHUTOFF VALVE SIZE
FILTER TYPE
FILTER AREA
FX60 300 GAL/FX30 500 GAL
800/1200 GAL
WATER TRAP CAPACITY
FX60 300 GAL/FX30 500 GAL
800/1200 GAL
SUCTION HOSE SIZE
SUCTION HOSE LENGTH
FX60 300 GAL/FX30 500 GAL
800 GAL
HOSE REEL CAPACITY, W/3-IN (76 MM)
HOSE (1200 GAL ONLY)
HOSE REEL CAPACITY, W/4-IN (102 MM)
HOSE (1200 GAL ONLY)

WATER PUMP SYSTEM

MAXIMUM PRESSURE
FLOW
HOSE REEL CAPACITY, W/WATER LANCE
ANTIFREEZE
CLUTCH TYPE

FLUID CAPACITIES

ENGINE OIL, WITH FILTER
FUEL TANK
VACUUM PUMP
HYDRAULIC RESERVOIR
WATER TANKS
FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL (2)

GENERAL

NUMBER OF AXLES
TYPE OF BRAKES
FX60 300 GAL/FX30 500 GAL
800/1200 GAL
ELECTRICAL SYSTEM

TIRE/PRESSURE

LT 215/85R16 E (300 GAL)
215/75R17.5 H (800 GAL)
LT 235/85R16 G (1200 GAL)

LOAD RATING*

TONGUE WEIGHT (EMPTY)
FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL
TONGUE WEIGHT (FULL WATER)
FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL
TONGUE LOAD, MAX.
FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL
GVWR (GROSS VEHICLE WEIGHT RATING)
FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL
GAWR (GROSS AXLE WEIGHT RATING)
FX60 300 GAL/FX30 500 GAL
800 GAL
1200 GAL

U.S.

BELT
900 CFM
16 IN HG

52 IN
60 IN
6 IN
4 IN
12 IN
REUSABLE

130 FT²
130 FT²

10 GAL
10 GAL
3-4 IN

25 FT
30 FT (2 HOSES)

150 FT

100 FT

METRIC

25.5 M³/MIN
405 MM HG

1.3 M
1.5 M
152 MM
102 MM
305 MM

12 M²
12 M²

38 L
38 L
76-102 MM

7.6 M
9.1 M

46 M

30.5 M

U.S.

3500 PSI
5.2 GPM
50 FT
50/50 WATER/ANTIFREEZE MIX
ELECTRIC WITH AUTO DE-CLUTCH

METRIC

241 BAR
20 L/MIN
15.2 M
50/50 WATER/ANTIFREEZE MIX
ELECTRIC WITH AUTO DE-CLUTCH

U.S.

9 QT
19 GAL
1.5 QT
15 GAL

80 GAL
200 GAL
500 GAL

METRIC

8.5 L
72 L
1.4 L
57 L

303 L
757 L
1893 L

U.S.

2

ELECTRIC OR HYDRAULIC
ELECTRIC
12 VOLT DC

METRIC

2

ELECTRIC OR HYDRAULIC
ELECTRIC
12 VOLT DC

U.S.

80 PSI
125 PSI
110 PSI

METRIC

552 KPA
862 KPA
758 KPA

U.S.

1200 LB
2240 LB
2450 LB

1125 LB
2280 LB
3100 LB

1500 LB
2700 LB
3500 LB

9950 LB
18,000 LB
26,000 LB

9000 LB
16,000 LB
23,400 LB

METRIC

545 KG
1016 KG
1111 KG

510 KG
1034 KG
1406 KG

680 KG
1225 KG
1588 KG

4513 KG
8165 KG
11,793 KG

4082 KG
7257 KG
10,614 KG

U.S.

DIRECT
500 CFM
15 IN HG

52 IN
60 IN
6 IN
4 IN
12 IN
REUSABLE

100 FT²
130 FT²

8 GAL
10 GAL
3 IN

50 FT
30 FT (2 HOSES)

150 FT

100 FT

METRIC

14.1 M³/MIN
380 MM HG

1.3 M
1.5 M
152 MM
102 MM
305 MM

9.3 M²
12 M²

30.3 L
38 L
76 MM

15.2 M
9.1 M

46 M

30.5 M

U.S.

3000 PSI
4.2 GPM
50 FT
50/50 ANTIFREEZE/FRESH WATER
ELECTRIC WITH AUTO DE-CLUTCH

METRIC

207 BAR
16 L/MIN
15.2 M
50/50 ANTIFREEZE/FRESH WATER
ELECTRIC WITH AUTO DE-CLUTCH

U.S.

4.2 QT
15 GAL
22.8 OZ
2.5 GAL

80 GAL
200 GAL
500 GAL

METRIC

4 L
57 L
674 ML
9.5 L

308 L
757 L
1893 L

U.S.

2

ELECTRIC OR HYDRAULIC
ELECTRIC
12 VOLT DC

METRIC

2

ELECTRIC OR HYDRAULIC
ELECTRIC
12 VOLT DC

U.S.

80 PSI
125 PSI
110 PSI

METRIC

552 KPA
862 KPA
758 KPA

U.S.

1200 LB
1930 LB
1600 LB

1250 LB
1440 LB
2160 LB

1500 LB
2700 LB
3500 LB

9950 LB
18,000 LB
26,000 LB

9000 LB
16,000 LB
23,400 LB

METRIC

545 KG
875 KG
726 KG

568 KG
654 KG
980 KG

682 KG
1225 KG
1588 KG

4513 KG
8165 KG
11,793 KG

4082 KG
7257 KG
10,614 KG



THE CHARLES MACHINE WORKS, INC. DITCH WITCH WORLDWIDE HEADQUARTERS PERRY, OK 73077-0066 U.S.A.

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