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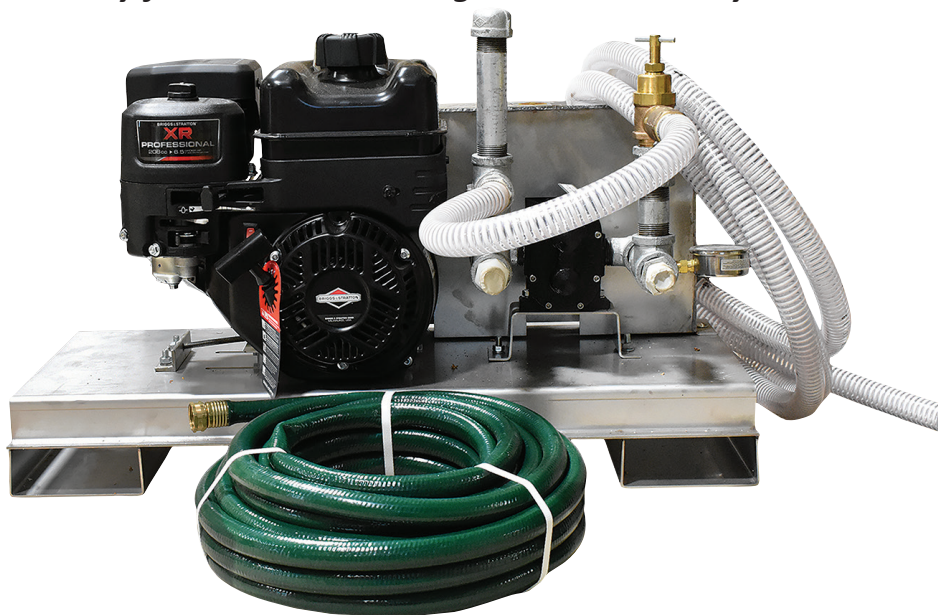
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M00517 DADANT FRUCTOSE PUMP

Take It To The Bee Yard

Pump directly from Fructose Storage Container into your Hive Feeders



Feeds 500 colonies a day

Also, many other uses — Water Transfer — etc.

Fill Division Board, Bucket Feeders, etc. in the Beeyard

One man can feed as fast as another can open and close hives

MONITORED BY:

Direct Reading Pressure Gauge

CONTROLLED BY:

1" brass pressure relief valve

POWERED BY:

Briggs & Stratton 8.5 gross torque engine

COMES COMPLETE WITH:

- A) 14' Crushproof Suction Hose**
- B) 14' Crushproof Bypass Hose**
- C) 50' 3/4" Supply Hose**

A COMPLETE LIQUID TRANSFER PUMPING SYSTEM
for THICK and THIN LIQUIDS

Fructose Pumping Unit

(FILL THE ENGINE WITH OIL PRIOR TO STARTING.)

This pumping unit comes complete with suction hose, pressure relief hose, discharge hose, discharge nozzle, connecting fittings, clamps, and hose-to-barrel attaching device.

Assembling the unit:

- 1) Uncrate the entire unit.
- 2) In the parts envelope, locate four round rubber pads with attaching hardware, one discharge nozzle with reducer bushing, one hose adapter, and two 2¼" hose clamps.
- 3) Attach the rubber feet to the unit using the same holes in the frame as attached to the shipping crate. Tighten nuts sufficiently to recess the bolt heads into the pads.
- 4) See diagram — Attach the discharge hose (50' garden hose) to the discharge fitting — be sure garden hose washer is used.
- 5) Thread the garden hose adapter into the nozzle (use pipe thread compound). Attach the nozzle to the garden hose.
- 6) See diagram — The remaining two hoses are slightly different lengths (see suggestion). Attach one hose to the pressure relief fitting and one to the suction fittings. Using the hose clamps provided, secure them tightly in place.

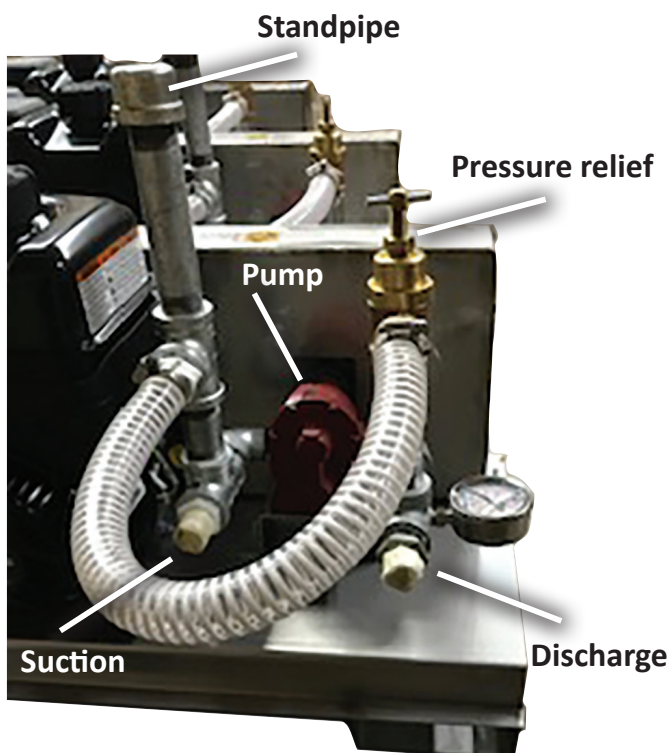
Suggestion: We find it helpful to extend these two hoses side-by-side their full length and starting at the unit, tape them together every two to three feet. (Note: the relief hose will be a little shorter than the suction hose.)

7) Using the hose to barrel attaching device: The C-clamp provides a positive means of attaching the hoses to a barrel. Determine the length that the suction hose must extend beyond the clamp rod and secure both hoses to the rod using the 2¼" hose clamps provided.

(NOTE: The suction hose must not be allowed to attach itself to the side or the bottom of the drum during operation — suggestion: cut the end of the suction hose on an angle to prevent this.)

Operation:

- 1) FILL THE ENGINE WITH OIL PRIOR TO STARTING.
 - 2) Refer to engine owner's manual for gasoline requirements.
 - 3) With the suction hose and pressure relief hose submerged in liquid, start the engine. Let the air out of the system at the discharge nozzle.
 - 4) Set the pressure relief valve to approximately 40 psi by loosening the lock nut turning the T-handle. A pressure of 40 psi delivers approximately one gallon of 65°F fructose every 15 seconds. Operation varies with temperature of material and speed of engine. Some experimentation is necessary.
- NOTE: The higher the pressure, the more difficult the discharge nozzle is to squeeze. Forty PSI should provide satisfactory results under most conditions.
- 5) See diagram — Under normal circumstances, the pump is self priming; however, a means of priming has been provided with the standpipe. If priming is necessary, remove the pipe cap, fill standpipe with liquid and replace cap.
 - 6) NOTE: For proper operation, **no air leaks** may be permitted.
 - 7) Pump needs to be cleaned with water after use or fructose can crystalize and damage pump seals. After rinsing with water run vegetable oil through pump for storage.



Replacement Parts for M00517 Fructose Pump

Part Number	Description	Part Number	Description
03-50360	1" Pump	03-5-50359	1" Pressure Relief Valve
03-50109	9" x 5/8" Pulley	03-50701	1" x 6" Galv Pipe Nipple
03-50645	40" Belt	03-50366	1" x 3" Galv Pipe Nipple
04-78009	Engine	03-50528	1" Galv Pipe Coupling
03-51713	Clutch	03-50368	1" x 3/4" Galv Reducer Bushing
03-50364	1" Galv. Pipe Cap	03-50376	3/4 " NPTMxNHM Brass Hose Nipple
03-50365	1" Galv. Pipe Tee	03-50577	3/4" x Close Galv Pipe Nipple
03-50700	1" Galv. Street Elbow	03-50377	Garden Hose
03-50579	1 x Close Galv Pipe Nipple	03-50358	0-100# Oil-filled Pressure Gauge
03-50477	1" MIP x 1" Barb Nylon Hose Fitting	03-50378	3/4" MPT x 3/4" Female Brass Hose Fitting
04-51806A1	14" Suction Hose	03-50379	Delivery Nozzle
03-51705A	18" Bypass Hose	04-51807	Barrel Attachment Assembly
03-50478	3/4" Brass Ball Check Valve		

Replacement Parts for M00518 Fructose Pump (old style)

Part Number	Description	Part Number	Description
04-51806A1	14" Suction Hose	03-50331	3/4" Flex Coupling Half
04-51806B	14" Overflow Hose	03-50332	Rubber Cross
04-51807	Barrel Attachment Clamp	03-50358	0-100-# Pressure Gauge
04-78009	Briggs & Stratton Engine	03-50359	0-150-# Pressure Relief Valve 1"
03-50088	3/4" Pillow Block Bearing	03-50360	1" Gear Pump
03-50108	9" Pulley	03-50377	50 ft. 3/4" Garden Hose
03-50330	5/8" Flex Coupling Half	03-50379	Delivery Nozzle

1" Gear Pump Replacement Parts (2 models of pumps have been used over the years — "packing" style and "lip seal" style):

Packing Model Pumps:

03-503601	Gasket (11 bolt holes)
03-503603	Packing Set

Lip Seal Model Pumps:

03-503602	Lip Seal
03-503604	Gasket (12 bolt holes)
03-503605	Lip Seal Retaining Ring