



BOB-WHITE SYSTEMS

1 HP PORTABLE VACUUM PUMP



THIS VACUUM PUMP SYSTEM SHIPS VIA TRUCK FREIGHT. SINCE THERE IS MINIMAL ASSEMBLY REQUIRED, IT SHOULD BE READY TO PLUG INTO 110 VOLTS UPON ARRIVAL. IN MOST CASES THE UNIT IS SHIPPED WITH THE HANDLE DETACHED. TO ASSEMBLE HANDLE TO UNIT, TIGHTEN THE UNION ON BOTTOM OF HANDLE WITH A SMALL PIPE WRENCH

THIS UNIT HAS A VAPOR OIL VANE VACUUM PUMP. CHECK OIL LEVEL UPON ARRIVAL, AND BEFORE EACH USE. THE OIL LEVEL GAUGE IS THE SMALL PIECE OF CLEAR HOSE IN A U-SHAPE ON THE SIDE OF THE PUMP. OIL MUST ALWAYS BE VISIBLE IN THIS TUBE WHILE PUMP IS RUNNING. TO ADD OIL SIMPLY POP OUT THE BLACK PLASTIC PLUG ON TOP OF OIL TANK. REFILL WITH HIGH QUALITY 10W40 MOTOR OIL. PRESS THE PLUG BACK INTO PLACE ONCE OIL LEVEL IS FULL. DO NOT FILL ABOVE THE OIL WICK.

AS THE OIL RUNS THRU THE VACUUM PUMP, IT IS DISCHARGED INTO THE EXHAUST CHAMBER IN THE BACK PORTION OF THE TANK. THE OIL WILL SETTLE TO THE BOTTOM AND THE AIR WILL BE EXHAUSTED THRU THE 3/4" PIPE ELBOW TOWARD THE TOP OF CHAMBER. IF THE PUMP IS RUN FOR A LONG PERIOD OF TIME IN THE SAME POSITION, A SMALL AMOUNT OF OIL MAY ACCUMULATE ON THE FLOOR DIRECTLY BELOW THE ELBOW. THIS IS NORMAL AS IT IS THE VAPOR OF OIL. IF THIS CREATES A PROBLEM A SMALL PIECE OF CARDBOARD CAN BE PLACED UNDER THE ELBOW.

THE METAL TANK UNDER THE PUMP IS A MOISTURE TRAP AND VACUUM STORAGE TANK. MILK OR WATER THAT GETS DRAWN INTO THE TANK SHOULD DRAIN OUT THE DUCKBILL DRAIN IN THE BOTTOM OF THE TANK AFTER PUMP IS SHUT DOWN. IF TOO MUCH WATER OR MILK ENTERS THE TANK, THE PUMP WILL NEED TO BE FLUSHED.

FLUSHING THE PUMP AFTER FLUID HAS ENTERED THE TANK:

If too much water or milk gets into the tank, it will be drawn into the vacuum pump. If this occurs, it will need to be flushed out.

- 1) Locate the oil tube and remove at the oil reservoir.
- 2) Remove the plug on the bottom of exhaust chamber. This is to drain chamber after flushing process is complete.
- 3) Kerosene or fuel oil works best for the flushing process. **DO NOT** use gasoline or any other highly flammable liquid to flush the vacuum pump. Start the pump and insert the tube into the cleaning fluid. Allow the pump to draw the fluid in. Periodically let air enter the tube along with the fluid. You may need up to a gallon of fluid to fully clean the pump.
- 4) Once the cleaning fluid is gone, use the same method to draw about 5 ounces of 10w40 motor oil into the pump to complete the flushing process.
- 5) Put plug back in exhaust chamber and allow pump to run at normal vacuum level for 15 to 30 minute to flush out.