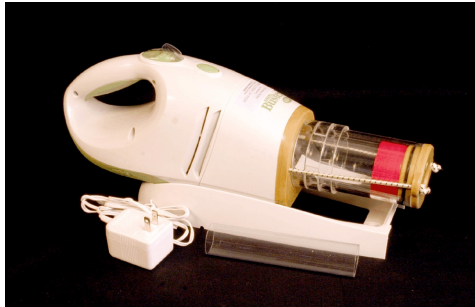


2820A/B Insect Vacuum

Description: The 2820 A/B Insect Vacuum comes in two models.

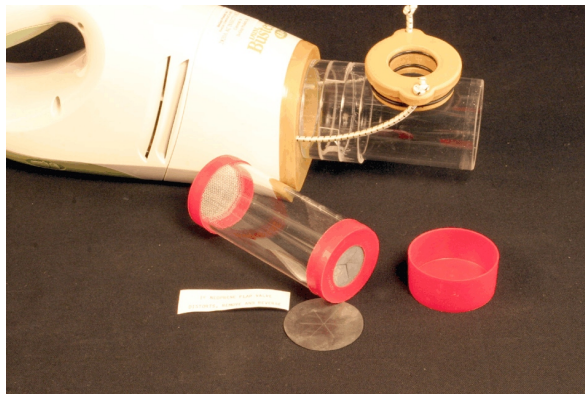


The 2820A is referred to as the AC model. The AC model comes with a holder/charger which charges and recharges the built in rechargeable battery located in the handle. On receipt, the unit should be plugged into a suitable 110 volt AC outlet and fully charged before use. This will take approx. 16 hours. After a full charge, the AC unit will operate as a hand held vacuum for approx. 5 to 8 minutes before requiring recharging. After 20 minutes of charging the unit will gain approx. 20% of full charge.



The 2820B is referred to as the DC model and requires an external 12V DC battery. Any 12VDC battery can be used. Bioquip offers a rechargeable Battery pack #2861 which is a 12VDC, 12 amp hour, gel cell battery that will operate the vacuum approx. 30-36 hours before needing to be recharged. This unit can also be plugged into most automobile cigarette lighters and operated off of

the automobile battery. (Check your owners manual to see if the ignition needs to be turned on or placed in auxiliary position) The 2820B DC Vacuum draws approx. .33amps during operation.



Contents: Each vacuum comes with the following:

- 1-modified Black and Decker auto vacuum
- 1-pick-up tube
- 1-collection chamber fitted with an end cap and screen and front cap and flap valve
- 1-extra flap valve
- 1-collection chamber solid plastic end cap

For the AC model you will also receive a vacuum charging station with AC wall transformer attached.

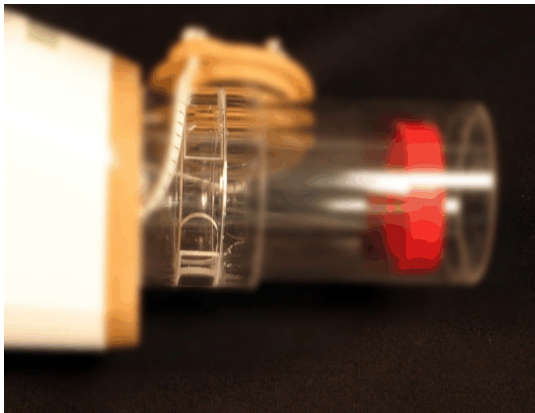
The DC model comes with a 16' cord fitted with a cigarette lighter type plug.

Note: Additional items will be needed to operate your DC unit that are not provided with this unit, such as; 12VDC battery and possibly a DC pigtail adapter. Both can be ordered from BioQuip.

General Assembly and Operation: When you receive your package, open the carton and take the unit out. You will find the collecting pick-up tube in the box and the collecting chamber in the nozzle. Pull on the end retainer (the item with the bungee cords attached) until it is free of the nozzle. Remove the collecting chamber. Remove the loose fitting solid cap from the end of the chamber and then remove the tight fitting cap with flap valve. Take out the extra flap valve and note and put aside for safe keeping and replacement if needed. Reassemble the flap valve and cap and place back on the collecting chamber. Reattach the end retainer. Push the pick-up tube into the hole in the end retainer until it just touches the flap valve. Your unit is now ready to operate.

When finished collecting your samples, pull the end retainer off and take out the collecting chamber and cap the flap valve end with the solid plastic cap to prevent the samples from escaping.

If you are collecting very fragile or small insects, an additional filter, such as a piece of nylon socking, can be placed over the collecting chamber back end, in front of the screen, to keep the sample from either being pulled through the screen or damaged by banging into the screen during vacuum operation.



Please note that towards the back of the nozzle there is a slider that allows you to adjust the amount of suction should you need to lessen the pull. Normally you would operate the unit with the vent completely covered..