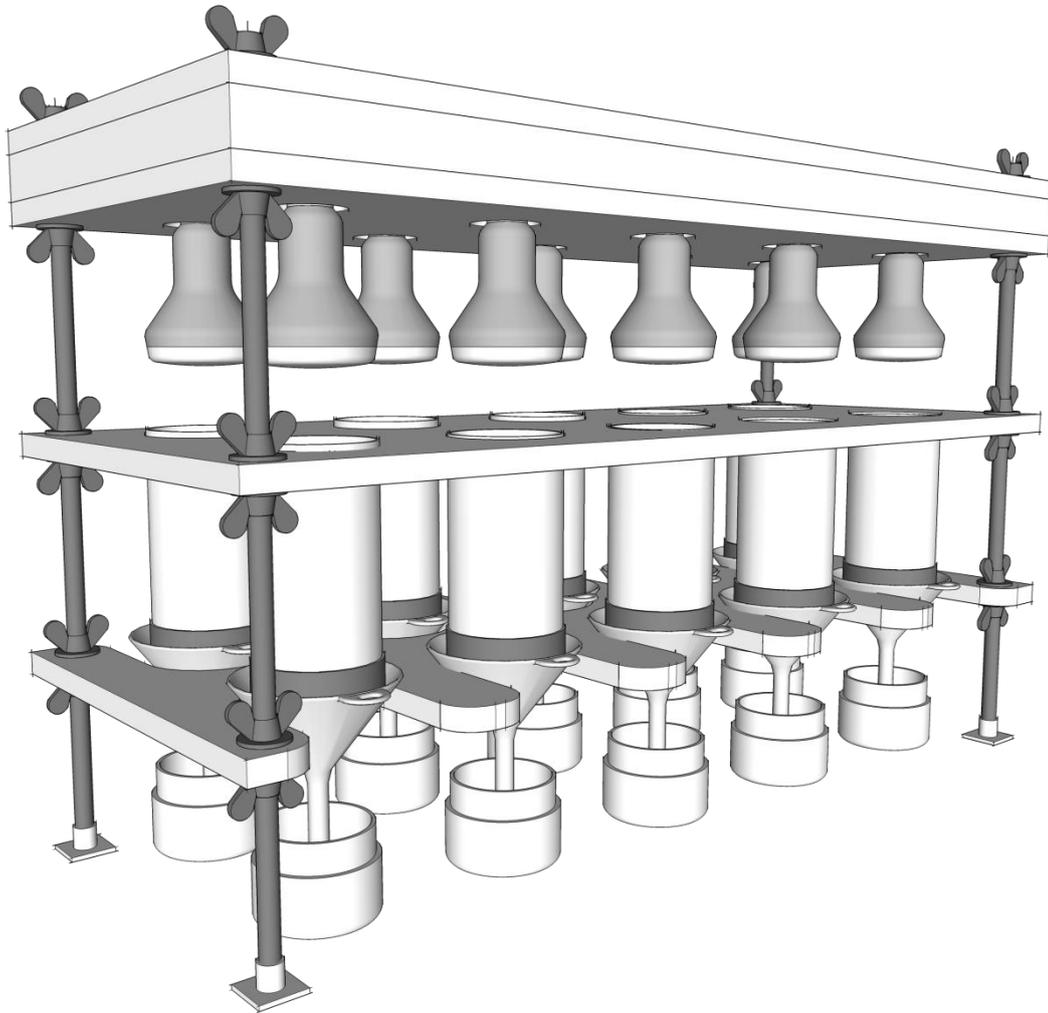


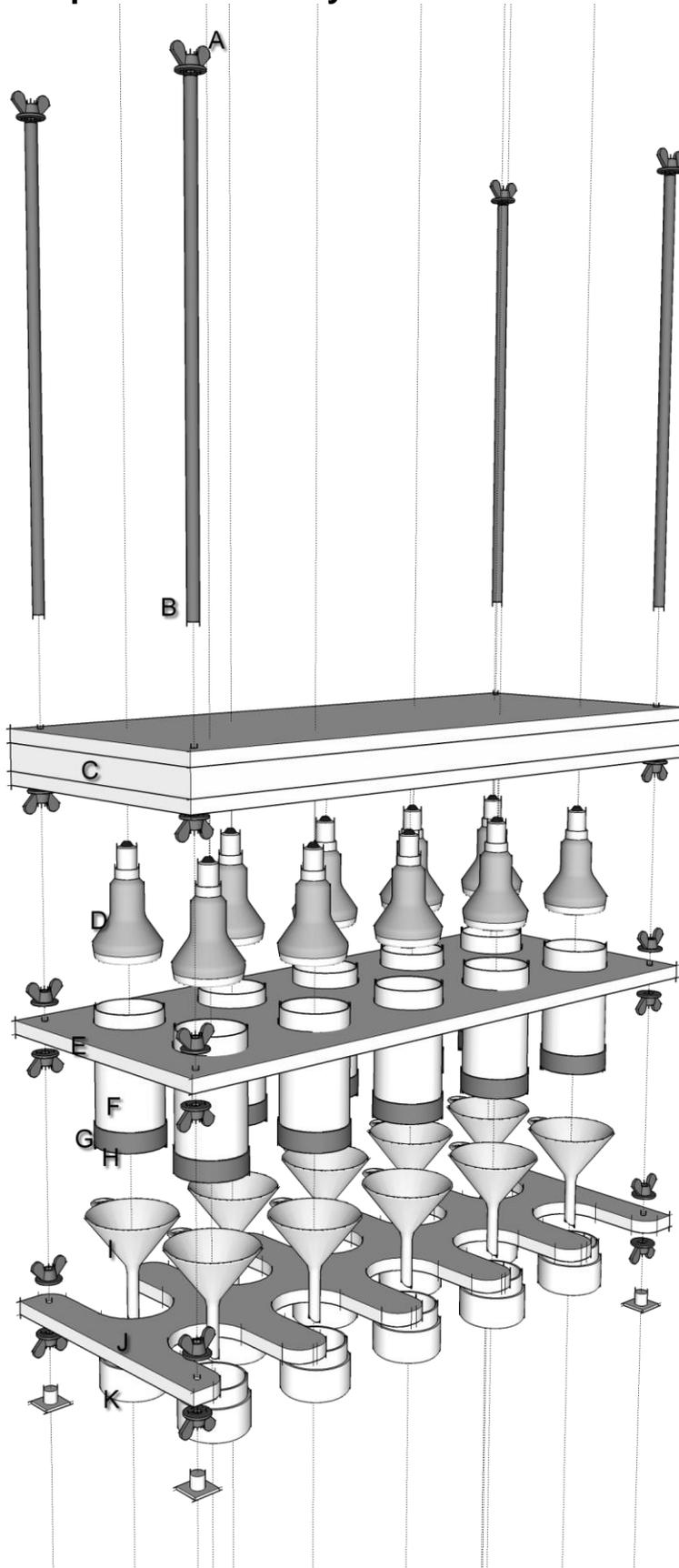
Berlese-Tullgren funnel apparatus

Installation, Operation and Maintenance Manual

V 1.0



Chapter 1: Assembly



The package includes:

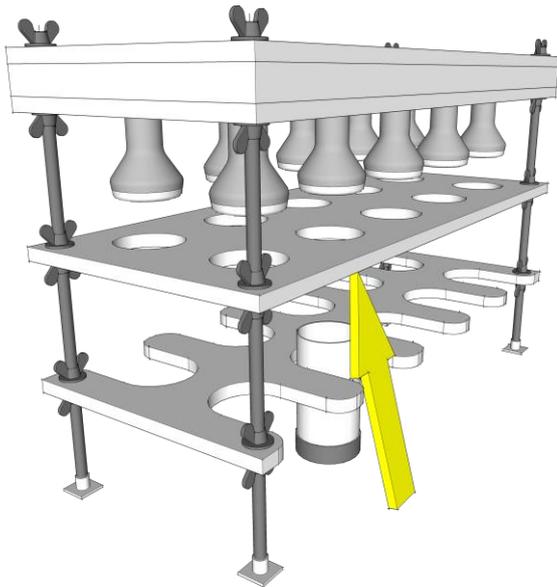
- A: Wingnuts (24 required, 30 included in the box)
- B: Threaded rods (4)
- C: Lamp bay (1)
- D: Halogen spot reflector lamps 28 W E27 cap frosted, e.g. Philips¹ or similar (10 required, not included)
- E: Tube bay
- F: \varnothing 50 PVC tubes (10)
- G: Rubber bands (10 included)
- H: Cheesecloth filters (1 1x1m sheet included)
- I: Funnels (10)
- J: Funnel bay
- K: 106 ml jars with caps (10)
- L: footings (4)

Bays: Start by adding the top wingnuts (A) to the threaded rods (B). The successively secure the lamp bay (C), the tube bay (E) and the funnel bay (J) using wingnuts on each side. Finally install footings (L) and adjust them to keep the bays level. After assembling the bays install the lamps and test power. To adjust exact bay heights first test operational fitting (next pages).

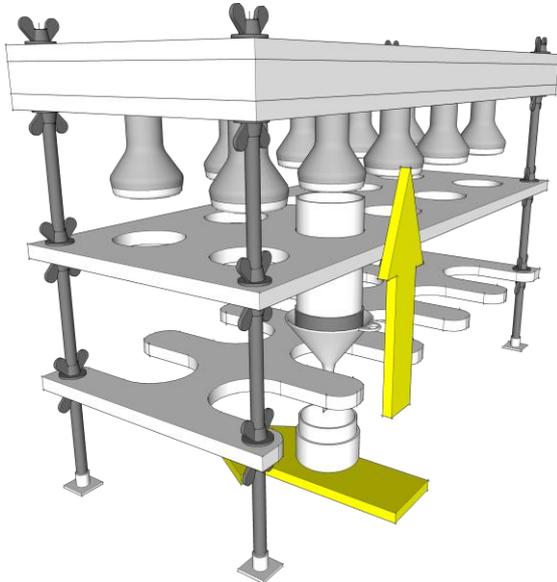
Tubes: Cheesecloth filters need to be cut out as required and secured using the elastic bands. Before final operation test with soil and use a double filter layer if required. Different mesh sizes can be used depending on target species and medium (e.g. soil) particle size.

¹ http://download.p4c.philips.com/files/8/872790082048500/872790082048500_pss_.pdf

Chapter 2: Operation

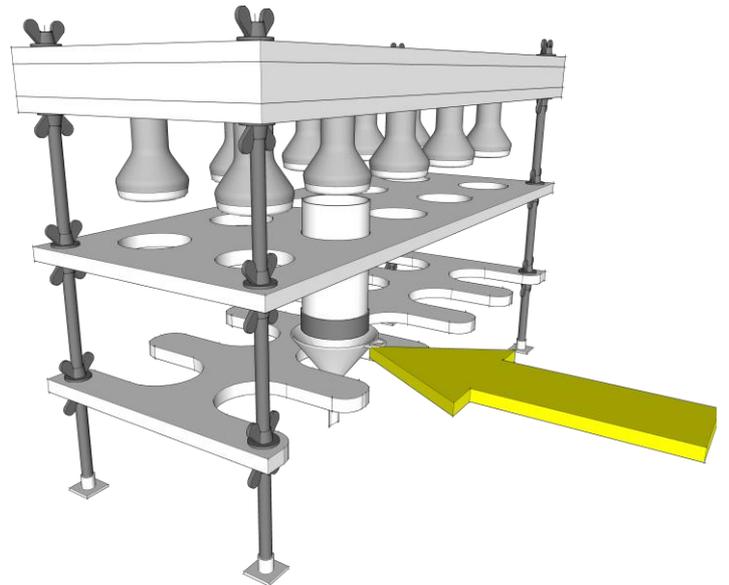


2. Funnel should sit on the funnel bay directly under the tube. Allow the tube to drop in the funnel. The space between the tube bay (E) and the funnel bay (J) should be small enough to keep the funnel in place. If not, adjust the funnel bay height using the wingnuts.



4. Allow the tube-funnel system to drop in the jar. Jar should be filled with preservative liquid at least to the height of the funnel's bottom edge. The bottom tip of the funnel should touch the liquid to ensure animals do not escape. Polypropylene glycol has been tested and is easily available.

1. First adjust the funnel bay to be about 2cm from the lamps. Use the wingnuts to adjust the distance and keep the surface level. Fit a tube from the funnel bay (J) all the way through the tube bay (E). Push tube towards the lamp in order to make additional space to fit the funnel under it.



3. Raise the tube-funnel system to fit a jar under it. Depending on the distance of the tube from the lamps the jar may need to be slightly tilted to fit through.

