

DP 08.12.20

A. **Sheldon HGC-52 Hydroponics Growing Center:**
52"W x 28"D x 78"H.

1. The self-contained Ebb and Flow Hydroponics Growing Center provides a way to learn how plants can grow without soil, and also helps teach the basic concepts for the plants needs, nutrition, food production, recycling, agriculture technology and soil-less growing environments.
2. The mobile center includes grow light, grow tray, water reservoir, plant containers, air pump, and water pump. The adjustable timers enable students to grow plants with the proper amount of water and sunlight.
3. Once seeds are germinated in a mini greenhouse tray under fluorescent light and the plants sprout, they are ready to transfer into the HGC-52 Hydroponics Lab. The starter plugs are buried into growing media where the highest level of the flood process will just touch the bottom of the rooting plug, leaving room at the top of the growing container to add growing medium later. As plant grows, growing medium is added to the top of the container to support the plant stem. After plants begin to flower, they are pollinated with a brush or swab.
4. Water reservoir contents should be changed every (2) weeks, and replaced with fresh water and nutrient. The PH is maintained by testing and adjusting PH up or down as necessary for the type of plant growing.
5. Assembly components include:
 - a. Wooden mobile cart with casters.
 - b. 150 watt grow light w/chains, J-hooks & cable mgmt. channel.
 - c. Plant grow tray - 8"H x 27-1/2"D x 42"W with bulkhead kit.
 - d. 25-gal. nutrient reservoir tank w/drain valve, and hose.
 - e. Ten (10) 6" net pots (plant containers).

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- f. Submersible water pump w/ tubing and 4" air stone.
 - g. Lockable storage cabinet w/power strip and (2) 24-hr timers.
 - h. Air pump w/ tubing stored in lockable cabinet.
 - i. Hydro Flow bulkhead kit for reservoir.
6. The mobile cart legs and top, middle, and bottom assemblies with bracing and cleats consist of solid hardwood. Legs are attached to top, bottom, and middle assembly with confirmats, joint connecting nuts, and brackets. Horizontal bracing members and cleats are attached with truss head screws. Storage cabinet is wood veneer. Unit is available in MAPLE only.
7. Items Not Included:
- a. Growing Medium.
 - b. Nutrients.
 - c. Plants.
 - d. PH Reader.

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