



# HOW IT WORKS

INMED has designed a simple ebb-and-flow that eliminates the need for expensive and complex filters and oxygenation systems. Composed of fish tanks, grow beds and pumps, the entire system is built on the project site using common, locally accessible building materials.

Units are designed to fit space available and production objectives—from individual family-sized units to commercial systems of various sizes. Water from the fish tanks is pumped to the grow beds through a PVC pipe to filter the fish nutrients through the gravel before exiting through troughs or pipes to return as filtered water to the fish tanks.

The units include a back-up battery system to protect against power outages. In some locations, INMED utilizes solar power to further reduce energy consumption.

Benefits of INMED's ebb-and-flow system include:

- Low capital investment
- Simplicity in design, construction and implementation
- Simple maintenance and construction
- No added fertilizers or chemicals (reduced fixed costs)
- Low energy inputs
- Ecological footprint smaller than many systems
- Resilient against extreme weather conditions



Learn more about INMED's aquaponics program in Jamaica at <https://inmedcaribbean.org> or <https://inmed.org/aquaponics>

