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Text of the abstract

The application provides an aquaponic system comprising a modular paired unit consisting of one fish unit and one grow bed arranged in pairs, and the modular paired unit can easily scale when necessary. The system further comprises a monitoring sensor in the fish unit for monitoring parameters in the water, and the grow bed uses gravel as a primary grow media and clay pebbles as a secondary grow media, a vertical frame as a trellis to support a vine-growing crop to grow on to provide shade for both the fish unit and the grow bed, thereby lowering temperature in the system and restricting algae growing.