

# AQUABOT

Why going on holiday with the worry that your beautiful flowers might die out of water? Go on holiday and let the robot take care of your flowers!

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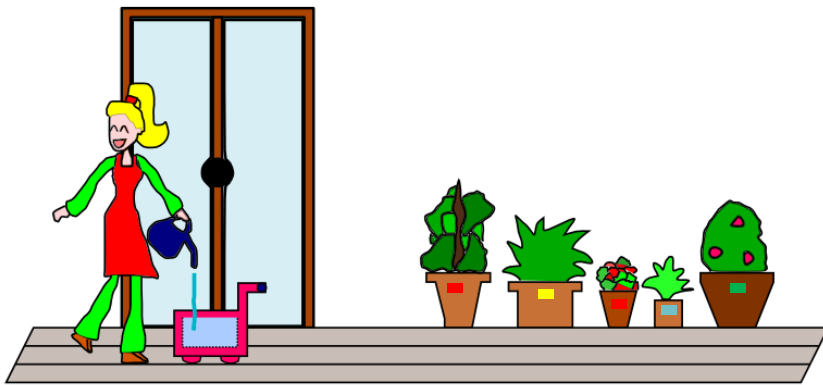
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# How it works

Happy housewife fills the water tank



At pre-programmed time, Aquabot visits all the plants/ flowers and water them



The amount of water can be customized for each plant.



(~ 2 l a day)



(~ 1 l a day)



(~ 0.5 l a day)

Instructions:

Attach one small pad on each vase, according to the water needs.

# Equipment

- Mobile robot
  - Can carry up to 10 litres
  - Sensors:
    - pressure and level sensors (for water)
    - proximity sensor (path execution)
    - RFID sensor (to find plants and have extra information – e.g. precise amount of water for each plant )
  - Actuators:
    - DC motors for navigation
    - 1 motor for emptying
- Intelligence
  - Build map first time, memorize the plants and re-use the map each time (optimal path)
- More!
  - Solar energy charge!
  - Soil humidity sensor
  - Automatic water refill from a proper reservoir
- Estimated cost: 199 euros