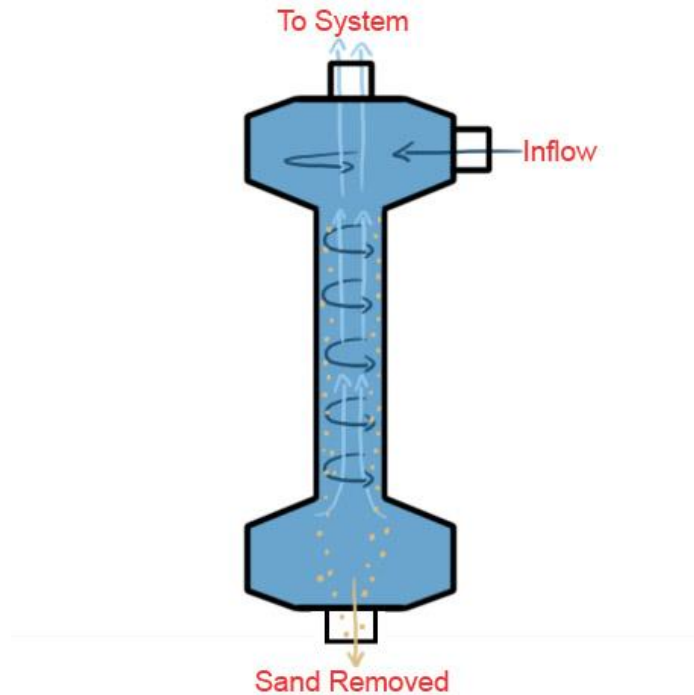


Greenhouse and Nursery Water Treatment Information System

School of Environmental Sciences, University of Guelph



Sand Separators



Approximate particle size filtered: >74 microns (<200 mesh)

Removes: Sand, organic and inorganic debris, other large/heavy particles

If the water source contains a large amount of sand, a sand separator (also called a centrifugal separator) can be used to effectively remove sand and other larger, heavy particles. Water flows into the separator where it is swirled around. As a result of the swirling, centrifugal action forces heavier particles to the wall of the separator, and they then fall into a collection chamber at the bottom (Banham and Ross, 2009). The collection chamber can be emptied as needed.

REFERENCES

Banham, B. and Ross, B. 2009. Filtration, Treatment, and Maintenance Considerations for Micro-Irrigation Systems. *Virginia State University*: Petersburg, VA.