7. The reverse osmosis system of claim 5 wherein the passage is aligned with a first port and a second port of the tank.

8. The reverse osmosis system of claim 7 wherein the passage is aligned with a second port and a third port of the tank.

9. The reverse osmosis system of claim 1 wherein the movable partition has a first side having a first shape corresponding to a first tank end shape and the partition comprises a second side having a second shape corresponding to a second tank end shape.

10. A method comprising:

filling a tank having a first volume separated from a second volume by a movable partition separating a first end from a second end;

producing permeate with fluid in the second volume at a reverse osmosis membrane housing comprising a feed fluid input, a brine outlet and a permeate outlet; and

controlling a plurality of valves so that in a first mode, a charge pump is selectively coupled to the first volume while the brine outlet and the feed input are connected to the second volume, and in a second mode, to selectively couple the charge pump to the second volume while the brine outlet and the feed input are connected to the first volume,

wherein the first mode and second mode are configured for alternating operation.

11. The method of claim 10 wherein filling the tank comprises filling the first volume with feed fluid in response to producing permeate to cause a partition to move toward the second end until a concentration of fluid in the second volume exceeds a threshold.

12. The method of claim 11 further comprising, when the concentration of fluid in the second volume exceeds the threshold, producing permeate with the first volume, recirculating brine to the second volume.

13. The method of claim 12 further comprising moving the movable partition toward the first end in response to producing permeate with the first volume.

14. The method of claim 10 further comprising, when the partition is at the second end, opening a swinging plate in a passage through the movable partition so that piping associated