

# Energy efficiency means

Halving electricity costs of a reverse osmosis with a variable-speed drive



## ENERGY EFFICIENCY IS OUR GOAL BECAUSE SUSTAINABILITY IS OUR MOTIVATION

The availability of energy resources is the future topic of humanity. At the moment, the dramatic rise in energy costs constitutes a burden on many companies. In view of the current geopolitical situation, energy prices are expected to remain on this high level in the foreseeable future.

Reverse osmosis (RO) units consume a significant amount of energy due to the high operational pressure. If the RO unit is equipped with a standard high-pressure pump, the operation mode cannot be adjusted, i.e. the unit always runs at "full speed".

However, in case of reverse osmosis units with variable-speed drive (VSD/FU), the drive is adjusted automatically to take into account current operating conditions - just as precisely as you would adjust the accelerator while driving. This reduces energy consumption in operation by 30 to 50 %.

By choosing a reverse osmosis unit with frequency-controlled pump (VSD pump), you can slash electricity costs, extend the lifespan of your RO unit due to the gentle operation, and treat water in a more sustainable way.



WOULD YOU DRIVE YOUR CAR AT FULL SPEED ALL THE TIME AND CONTROL VELOCITY BY BRAKING?  
**THEN WHY DO YOU DO THAT WITH A REVERSE OSMOSIS UNIT?**

## ELECTRICITY COSTS CUT IN HALF NOW COME AS STANDARD WITH OUR REVERSE OSMOSIS UNITS

Our reverse osmosis series with frequency-controlled pumps (VSD/FU pumps) offer you lots of benefits:

- Energy costs on average 30 to 50 % lower
- Payback period for cost of VSD just a few months
- Energy saving over the lifetime of the RO unit is a multiple of the total investment cost
- Permeate flow rate is maintained constant irrespective of operation pressure (optimal conditions for reverse osmosis membranes)
- Soft startup prevents damage to components and extends the lifespan of the unit
- Particularly quiet operation of the unit
- Energy saving contributes to climate action and future-proofs your production



UO-D 10000 AS/FU

Do you have a specific project and want to know more or would you like to learn about your benefits by means of an operating cost calculation?  
**Contact us on [hercowater.com](http://hercowater.com).**