

# PROP - Your Low Energy RO Power Pack

## YOUR PROBLEMS

- Variable feed conditions in seawater RO plants
- High VFD investment costs
- Can't adjust recovery when feed pressure is low

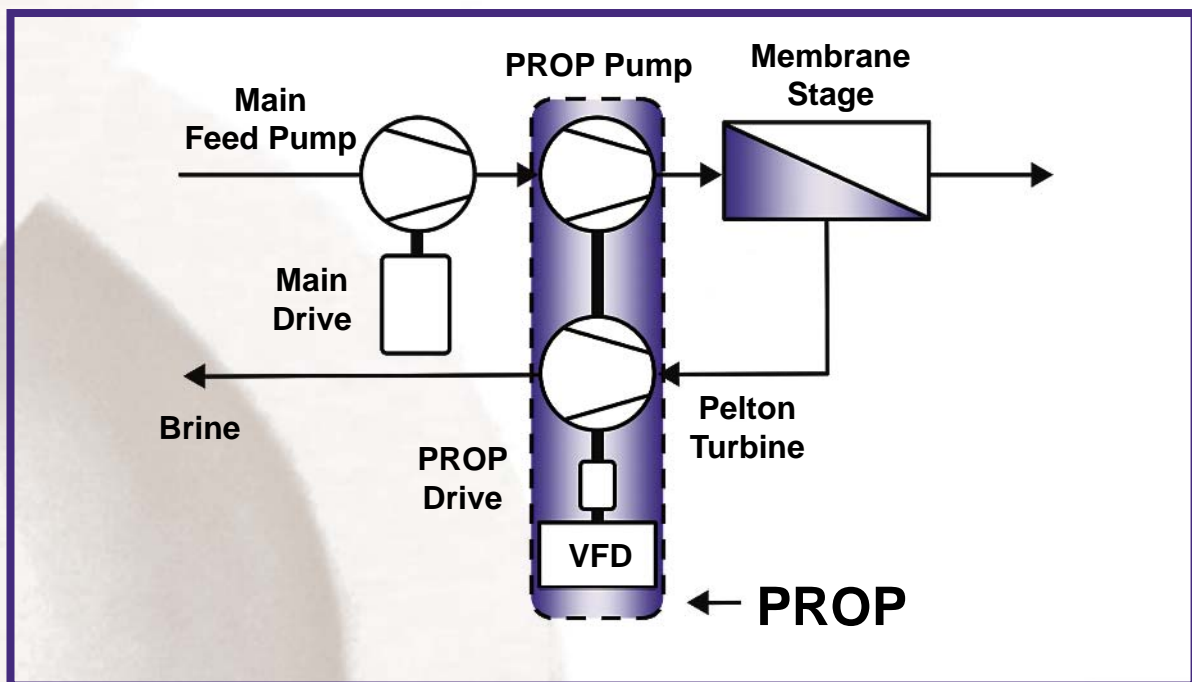
## OUR SOLUTION

# Split the Feed Pump in two: The PROP!

The *Pelton-driven RO Pump*,  
manufactured by Duechting Pumpen GmbH

(Patent pending)

## CONFIGURATION



## ADVANTAGES

- Minimum specific energy consumption
- Minimum capital and operational costs
- Maximum flexibility, maximum range of operating conditions
- Field-proven, high-efficiency standard components
- No unnecessary energy dissipation, no throttling losses, easy start-up
- Negligible VFD conversion losses
- Flexible dynamic control via very small VFD
- Main feed pump constantly operating at maximum efficiency

# STANDARD PACKAGES\*

Type	Feed Flow Range	RO Stage Recovery	Feed Pressure
PROP 250	200 - 280 m <sup>3</sup> /h	35 - 55 %	up to 100 bar
PROP 300	280 - 330 m <sup>3</sup> /h		
PROP 400	330 - 470 m <sup>3</sup> /h		
PROP 550	470 - 600 m <sup>3</sup> /h		
PROP 700	600 - 750 m <sup>3</sup> /h		
PROP 850	750 - 900 m <sup>3</sup> /h		
PROP 950	900 - 1,000 m <sup>3</sup> /h		

\* Package comprising

- Main feed pump and drive mounted on skid
- PROP pump, pelton turbine, and drive mounted on skid, PROP VFD

custom packages and tailor-made application engineering available upon request

## APPLICATIONS

- Single-stage seawater RO plants (new or retrofit)
- Dual-stage (brine conversion) seawater RO plants (new or retrofit)
- Expansion of existing RO plants (driven by combined brine streams)

## SAVINGS POTENTIAL

- Capital costs:
  - Significant reduction in VFD investment
  - Superior life-cycle cost through excellent uptime and minimum maintenance
- Operational costs:
  - Minimum specific energy consumption (no throttling, minimum conversion losses)
  - Variable recovery operation, taking full advantage of favourable feed conditions
  - Minimum downtime by using superior and reliability-proven material for all parts

## CONTACT INFORMATION



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