

OPERATION EFFICIENCIES

Screw pump v Hydra-Cell.

Pump type	Q (l/min)	Pressure (Bar)	Absorbed power (KW)		Annual Euro saving using Hydra-Cell
Leading Screw pump	29	70	8.3	97% more energy than the Hydra-Cell	
Hydra-Cell G10	29	70	4.2		1,476 Euros
Leading screw pump	4	80	2.8	147% more energy than the Hydra-Cell	
Hydra- Cell G03	4	80	0.7		756 Euros
Leading screw pump	118	80	34.5	78% more energy than the Hydra-Cell	
Hydra-Cell G35	118	80	19.5		5,400 Euros

Multi-stage Centrifugal Pump v Hydra-Cell.

Pump type	Q (l/min)	Pressure (Bar)	Absorbed power (KW)		Annual Euro saving using Hydra-Cell
Leading centrifugal pump	29	40	5.62	122% more energy than the Hydra-Cell	
Hydra-Cell G10	29	40	2.53		1,112 Euros
Leading centrifugal pump	133	40	15.4	35% more energy than the Hydra-Cell	
Hydra-Cell G35	133	40	11.4		1,440 Euros

Notes:

- Efficiencies are from manufacturers published data sheets
- Efficiencies are stated for emulsions, kinematic viscosity of 1 mm²/s
- Annual cost savings are calculated using the following data
 - Average cost in Europe of electricity is 9 Euro cents per KW hour
 - Pump running for 4000 hours per year.