

wavera®

The natural flow motion

Wavera® ECO range

Highly efficient, polyvalent, disruptive technology



Design Features

Highly efficient, the undulating Wavera® membrane offers a totally different way of pumping a fluid. This worldwide patented technology is based on a simple principle, yet never applied until now: Be efficient, Act like nature.

Mimicking a fish, the Wavera® membrane provides a continuous flowrate at an excellent energy efficiency. Its undulation is respectful of the fluid, which slips on the waves of the membrane, and is not mixed by a propeller or crushed by a roller. Materials of the membrane are available in various standard & long lifetime elastomers, designed to endure aggressive fluids & particles.

Specially dedicated to this technology, the integrated linear motor supplies the best needed motion to the membrane at high level performance, driven by a smart embedded electronic.

Advantages

- 20% power saving
- Leak proof
- Self-priming
- Continuous flowrate & pressure

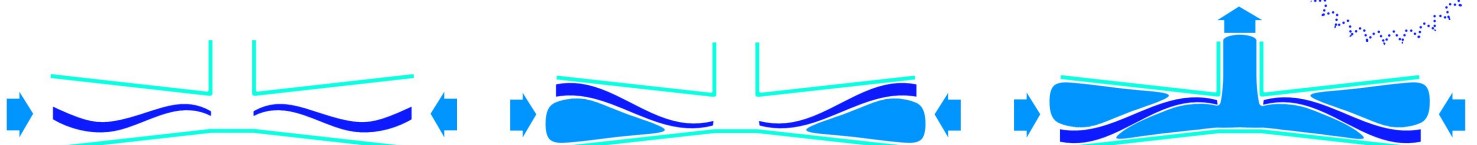
- If needed, pulsed flowrate & pressure by software (12ms reactivity)
- Very low shear forces (see our licensee at www.CorWave.com)
- Long lifetime components & low maintenance cost

Applications

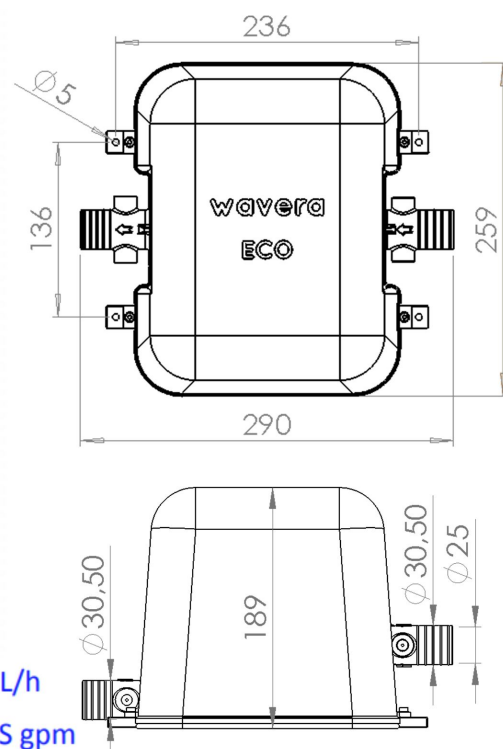
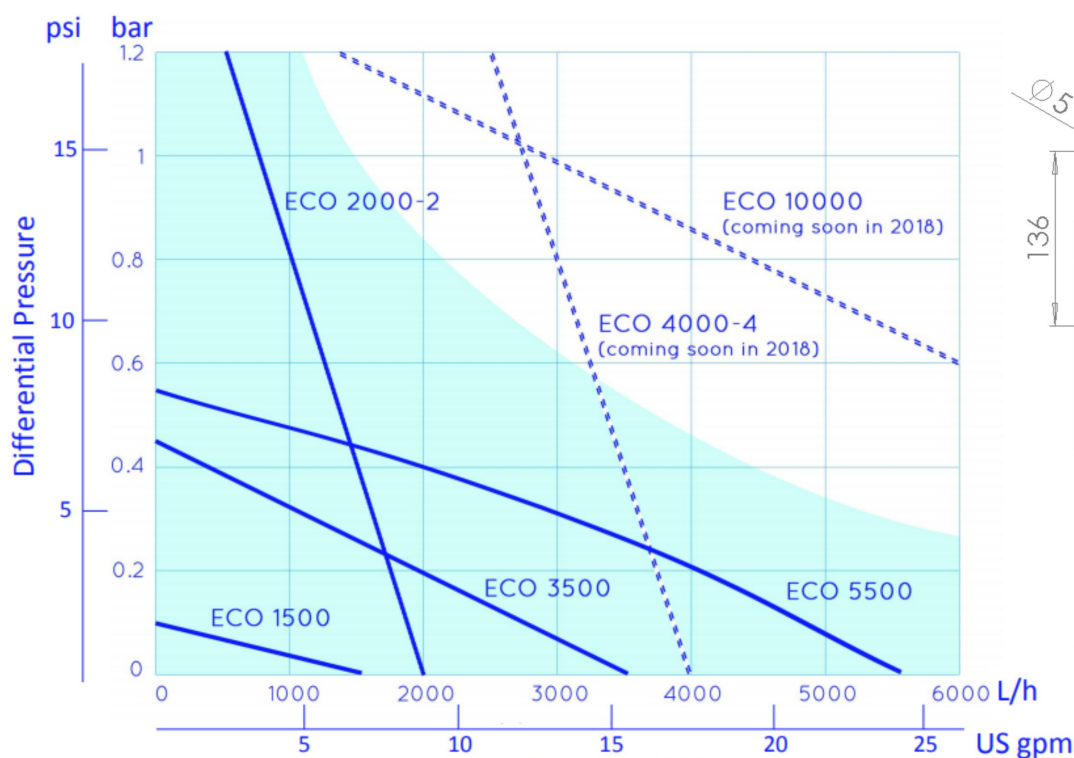
- Fragile fluids
- Fluids with particles
- Abrasive fluids
- Dirty water
- Foams
- Powders
- ...



How the undulating Wavera® membrane works



Pump Model	Flowrate		Differential Pressure		Self-priming	Max. particles size	Nominal consumption
	Nominal	Max	Nominal	Max			
ECO 2000-2	600 L/h 10 L/min 2.6 U.S gpm	2000 L/h 33.3 L/min 8.8 U.S gpm	1 bar 14.5 p.s.i	2 bars 29 p.s.i	Up to 4 meters	0.5 mm	95 W
ECO 1500	900 L/h 15 L/min 3.9 U.S gpm	1500 L/h 25 L/min 6.6 U.S gpm	0.06 bar 0.9 p.s.i	0.11 bar 1.6 p.s.i	Contact us if needed	0.5 mm	8 W
ECO 3500	2000 L/h 33.3 L/min 8.8 U.S gpm	3500 L/h 58.3 L/min 15.8 U.S gpm	0.22 bar 3.2 p.s.i	0.45 bar 6.5 p.s.i	Contact us if needed	0.75 mm	50 W
ECO 5500	3000 L/h 50 L/min 13.2 U.S gpm	5500 L/h 91.7 L/min 24.2 U.S gpm	0.3 bar 4.4 p.s.i	0.55 bar 8 p.s.i	Contact us if needed	1 mm	100 W



Measures in mm

Weight: 6 kg (13,2 lbs)

Power supply: 88-266Vac, 45-66Hz

For operating conditions inside the colored area, the pump can be configured.

For higher performances, a special development is still possible thanks to the flexibility & scalability of this new technology.

Please contact us for more details.



wavera®

www.wavera.tech
info@wavera.tech
Paris (France)