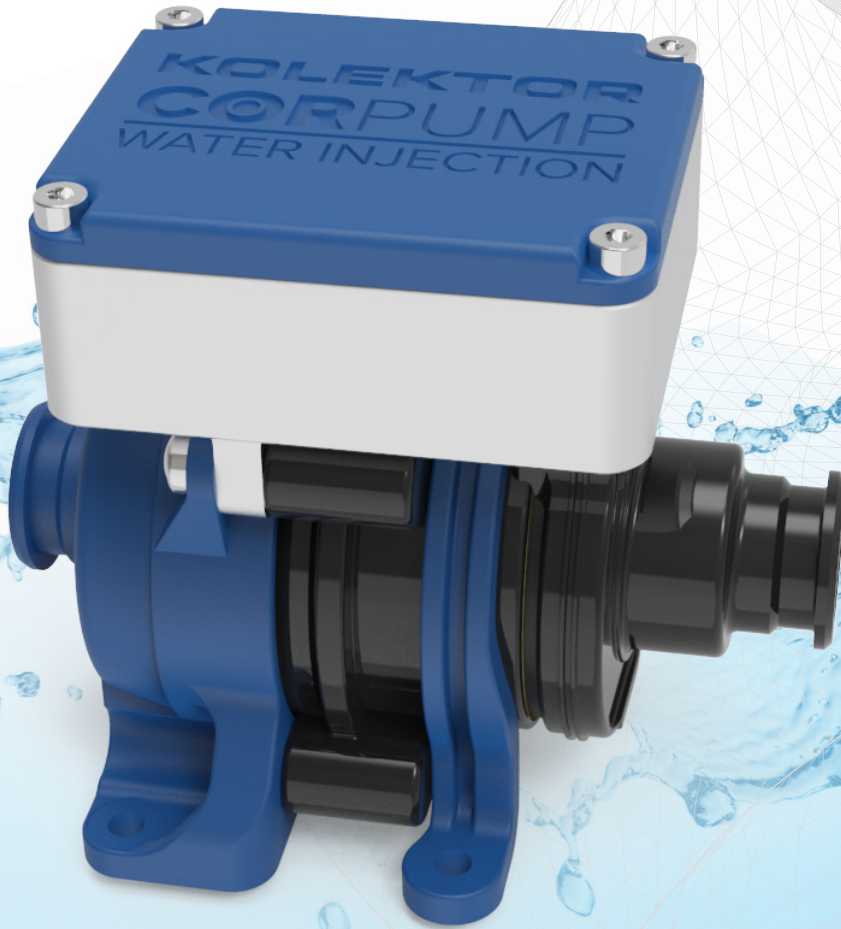


# KOLEKTOR CORPUMP



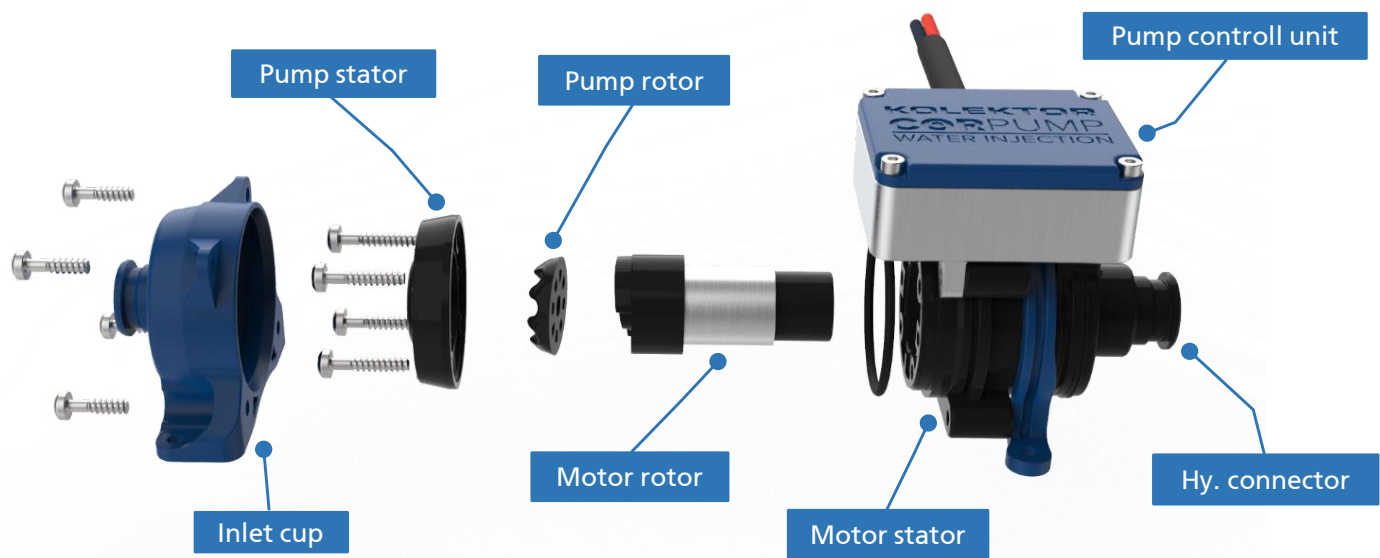
**Pressure Boost Pump for ICE Water Injection**  
**Stable flow over wide range of pressure**  
**High efficiency for higher pressures**

[www.kolektor.com](http://www.kolektor.com)



## Pump properties

- **ADVANTAGE** = HIGH Performance - SMALL size - LOW weight
- 4 Main Components (Motor Rotor/Stator | Pump rotor/stator)
- **THERMOSET** injection molding of dimensionally stable polymer material with high mechanical & thermal performance
- Simultaneous engagement of complete gearing for high volumetric efficiency in middle pressure range (up to 20 bar)
- Bi-directional operating mode (draining)
- Particle resistance by dynamic axial displacability of a motor rotor
- Corrosion resistance
- Compact dimensions
- Motor in contact with fluid (wet design) – cooling ability
- Self adaptive tightening during life-time (performance stability)
- Integrated BLDC Controller - LIN/CAN communication protocol



## Pump characteristics:

- Pump type: COR = Axial 3D Gear pump
- Speed range: 200 -1000 rpm (pump unit)
- Operating point: 200l/h @ 10 bar (5000 RPM)
- Volumetric efficiency: > 80%
- Overall efficiency: 25 - 40% (water @ 25°C)
- Lifetime: up to 15.000 h

## Electric motor characteristics:

- Voltage: 12 / 24V
- Speed range: 1000 - 8000 rpm
- Operating point: 145 mNm @ 5000 RPM
- Motor efficiency: 50 - 60%
- PCB communication: LIN or CAN

