

**CPXP  
 Self-Priming  
 Pump**

**Surface Mounted Design**  
 Costing less to buy, install and maintain than submersible pumps, the CPXP self-priming pump is designed to draw from liquid sources below ground level or from sources with no positive pressure to naturally prime the pump. Its compact

design enables it to fit in tight clearance locations. It can be easily mounted on a trailer for movement to various pumping locations such as wastewater lagoon service.

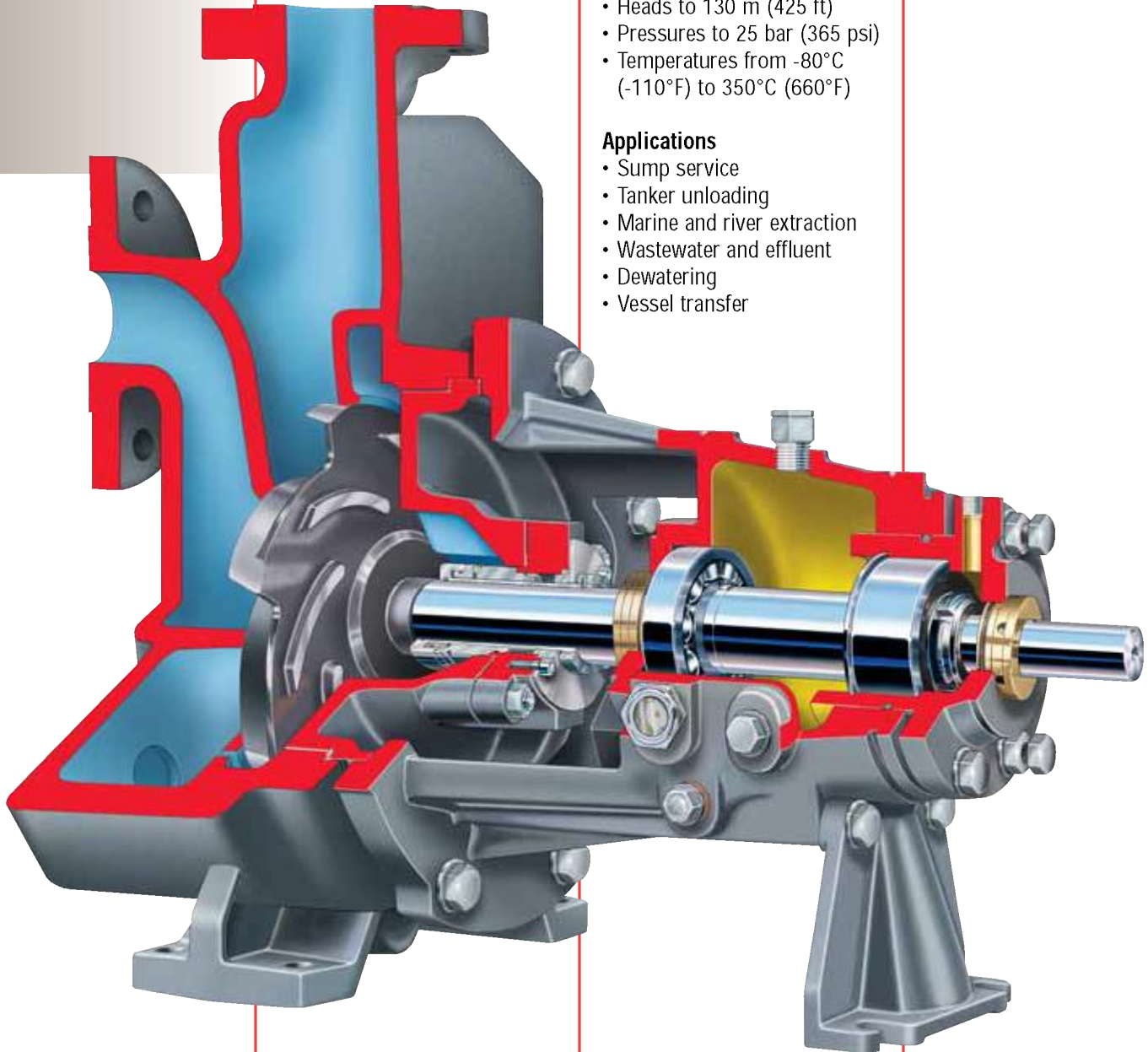
**Standards Compliance**  
 The CPXP is CE marked and compliant with applicable European directives, such as ATEX.

**Operating Parameters**

- Flows to 250 m<sup>3</sup>/h (1100 US gpm)
- Heads to 130 m (425 ft)
- Pressures to 25 bar (365 psi)
- Temperatures from -80°C (-110°F) to 350°C (660°F)

**Applications**

- Sump service
- Tanker unloading
- Marine and river extraction
- Wastewater and effluent
- Dewatering
- Vessel transfer



**One-Piece Casing** has large priming chamber, air separator and volute in one integral component, keeping components to a minimum

**Semi-Open Impeller** delivers high efficiency performance, low NPSHR and good solids handling

**Reflux Priming Principle** eliminates the need for internal valves and external priming devices

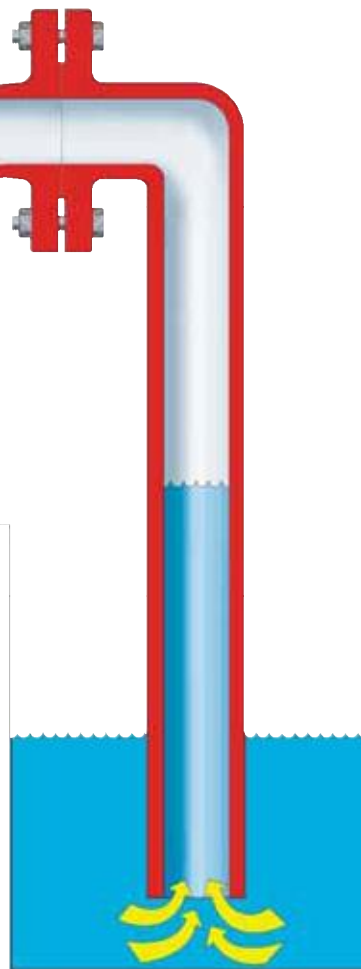
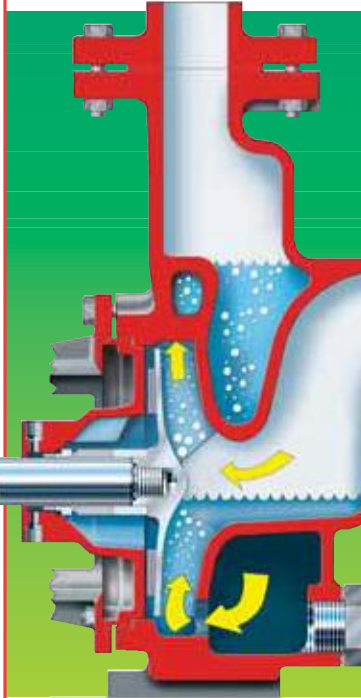
**Suction Run Dry Capability** allows for minimum supervision

**The Reflux Priming Principle**

The CPXP self-priming pump operates on the reflux principle, using liquid recirculation to prime the pump. The pressure differential between the aerated liquid at the impeller and the

non-aerated liquid in the priming chamber creates a vacuum that pulls liquid up the pipe.

This principle eliminates the need for both internal valves and external priming devices or foot-valves. As a result, CPXP is ideal for suction lift applications or where a process involves pumping a liquid with air or gas phases.



CPXP



**Semi-Open Impeller**

for high efficiency, low NPSHR and good solids handling.



**Advanced Technology  
45° Conical Seal Chamber**

with integral flow modifiers redirects solids and slurry away from seal and back into the flow path of the process liquid, extending seal life and improving pump reliability.

**Additional Configurations**

- **CPXPM**  
Close coupled, self-priming pump
- **CPXPS**  
Magnetically driven, self-priming pump
- **CPXPSM**  
Close coupled, magnetically driven, self-priming pump