

## Questions and answers about E-pumps

### How is a Grundfos E-pump (variable speed pump) different from a fixed-speed pump?

Grundfos E-pumps use a sensor to electronically vary motor output according to demand. They operate at maximum efficiency at all times, saving energy costs and system wear and tear. Unlike E-pumps, fixed-speed pumps may be operating at maximum performance and efficiency only a small part of the day.

### Is a Grundfos CRE more costly than a similar sized fixed-speed pump?

A CRE's initial investment costs are offset by the pump's superior efficiency, which often makes it possible to utilize a smaller motor to power the pump. Over the long term, a CRE can yield an energy savings of up to 50% over a fixed-speed pump.

### Is a Grundfos CRE pump the right choice for pressure boosting?

A Grundfos CRE with a factory installed pressure sensor and a small diaphragm tank\* can make up a complete pressure boosting system.

#### Pressure boosting for buildings

- apartment buildings
- churches
- convention centers
- retail centers, stores
- factories
- institutional buildings
- hospitals
- hotels, motels
- large homes
- schools

- Pressure boosting for water supply
- distribution from water works
  - pressure boosting in mains
  - pressure boosting in any building
  - water treatment systems
  - irrigation systems
  - other water supply applications

#### Pressure boosting for industry

- water supply
- process water systems
- washing/cleaning
- cooling in air conditioning systems
- machine tools
- other industrial applications

### Grundfos CRE is available with or without a factory installed sensor—what is the difference?

CRE pumps **with** a factory installed pressure sensor enable constant pressure control and are often used as booster pumps in systems with variable flow demands.

CRE pumps **without** a factory-installed pressure sensor can be connected to a field-installed sensor (requires a Grundfos R100 remote control). Installing the appropriate sensor enables control of these and other variables as demands change:

- constant pressure
- differential pressure
- temperature
- differential temperature
- flow
- fluid level
- pH level



The R100 controls the motor via infrared communication.



*Industries often demand exact flows and pressures for a wide range of media. For food industry and other applications, a CRE pump can handle many processes.*