

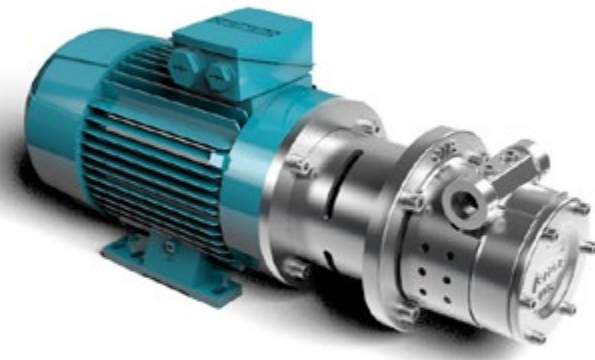


SERIES PBM

Properties: Peripheral pump in close-coupled design

Applications: Clean liquids, gas saturated liquids, undissolved gas contents

Technical data	
Flow rate	up to 12 m ³ /h 53 US gpm
Working pressure	up to 16 bar 232 psi
Temperature range	-20 up to +220 °C -4 up to +428 °F
Shaft sealing	Magnetic coupling



EDUR-Centrifugal Pumps – extremely versatile for smart energy systems of the future



Product information

MADE IN GERMANY
...SINCE 1927



Centrifugal Pumps for the energy revolution



SERIES LBM

Properties: Space saving, multistage, compact pump unit with three-phase motor

Applications: Clean liquids, gas saturated liquids, undissolved gas contents

Technical data	
Flow rate	up to 60 m ³ /h 264 US gpm
Working pressure	up to 40 bar 580 psi
Temperature range	-50 up to +220 °C -58 up to +428 °F
Shaft sealing	Magnetic coupling



SERIES LBU

Properties: Space saving, multistage, compact pump unit with three-phase motor

Applications: Feeding demineralized water, refrigeration circuits

Technical data	
Flow rate	up to 60 m ³ /h 264 US gpm
Working pressure	up to 40 bar 580 psi
Temperature range	-40 up to +140 °C -40 up to +284 °F
Shaft sealing	Single mechanical seal, double-acting mechanical seal



Integrated future:
Our experience and reliability are guarantees for your success!

EDUR-Centrifugal Pumps for energy storage systems:
Individual – as your requirements for modern energy storage technologies!

Advantages at a glance

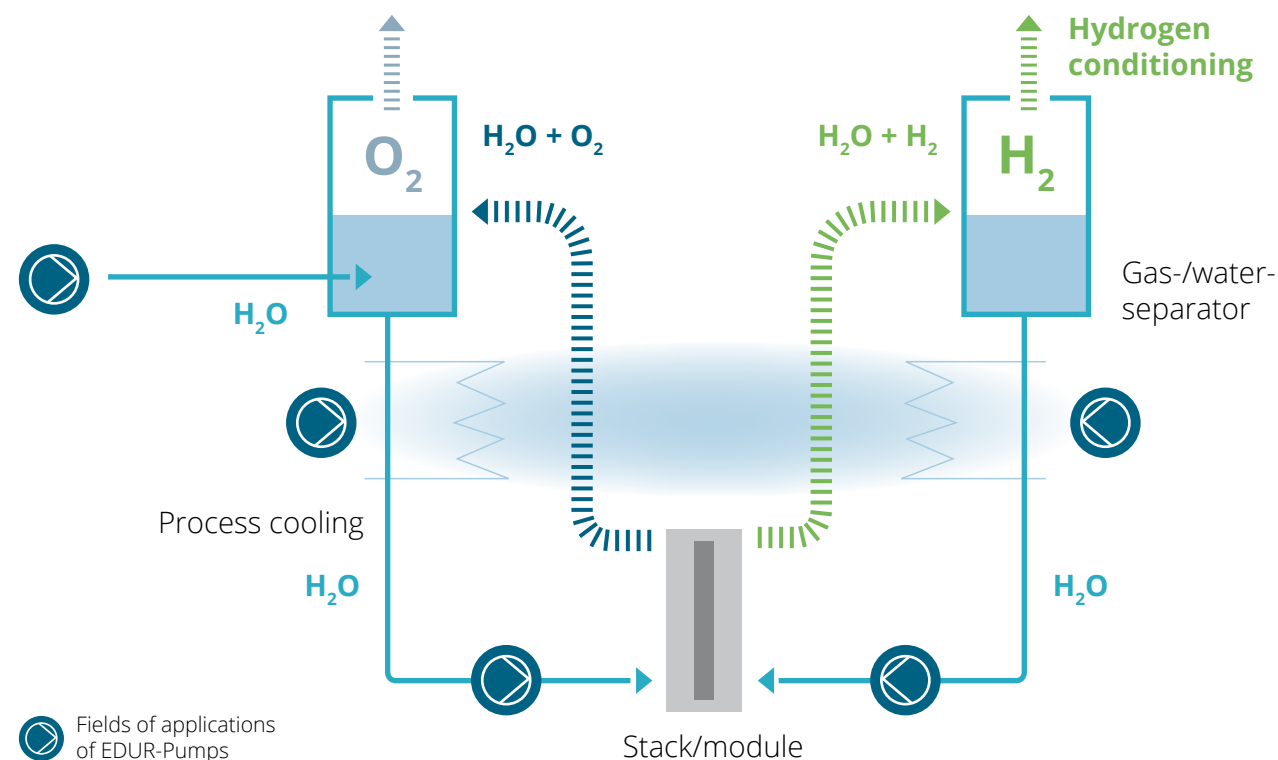
PROVEN SOLUTIONS FOR NEW TECHNOLOGIES

The rapid development of modern energy systems makes new demands for pumps being used. EDUR-Centrifugal Pumps do provide unique product benefits to planners, designers and operators of modern energy storage systems for a safe and efficient operation. The wide experiences of our application engineers gained in innovative pilot projects and related areas of expertise, such as energy production, liquefied gas production or cogeneration, make EDUR a perfect partner for the development of future energy storage systems.

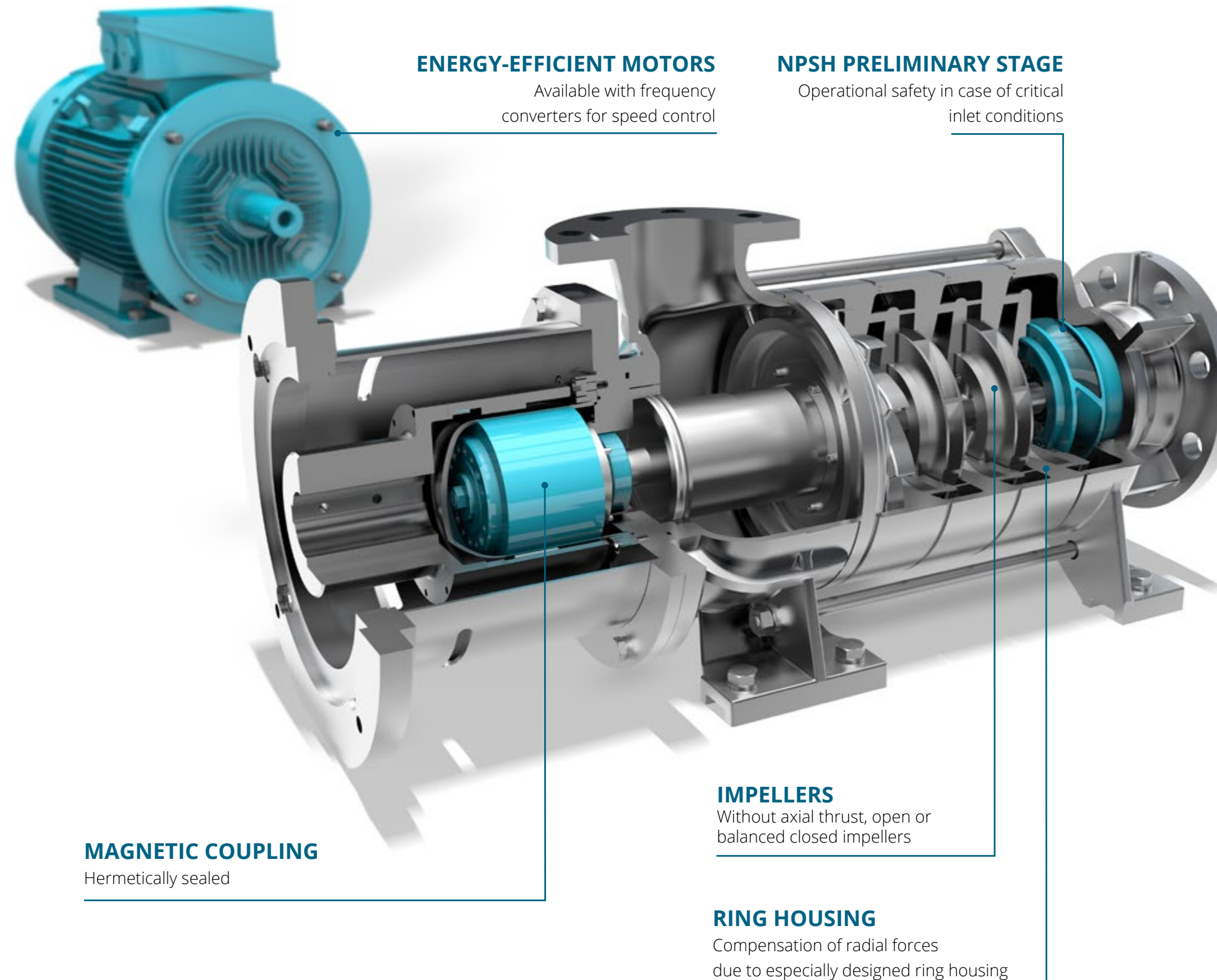
MULTIPHASE PUMPS FOR NETWORKED ENERGY SYSTEMS

Just like the sector coupling does remove borders in the energy industry between areas such as mobility, electricity and heat supply, EDUR-Multiphase Pumps do break the boundaries between liquids and gas supplies. In applications such as hydrogen electrolysis or methanation, the multiphase pumps do offer a particularly high level of operational safety and efficiency when pumping gas-saturated liquids.

EXAMPLE: INTEGRATION OF EDUR-PUMPS IN HYDROGEN PRODUCTION BY ELECTROLYSIS



Fields of applications of EDUR-Pumps



ENERGY-EFFICIENT MOTORS

Available with frequency converters for speed control

NPSH PRELIMINARY STAGE

Operational safety in case of critical inlet conditions

MAGNETIC COUPLING

Hermetically sealed

IMPELLERS

Without axial thrust, open or balanced closed impellers

RING HOUSING

Compensation of radial forces due to especially designed ring housing

LOW OPERATING COSTS

- Very high efficiencies
- High energy efficiency due to using “lossless” containment shells with magnetic couplings
- Maintenance-free mechanical seals

PROCESS SAFETY

- Hermetically sealed
- Low-wear
- Self-priming properties
- Maintenance-free
- Low NPSH (Net Positive Suction Head) values
- High operational safety
- Low noise emission

ASSEMBLY-FRIENDLY

- Module system for customized solutions
- Compact block and base plate aggregate
- Minimal space needed

TECHNICAL SUPERIORITY

- Large variety of materials
- High operating pressures

DESIGN

- Optimum pump specification by our specialised engineers

FIELDS OF APPLICATION AND TARGET GROUPS:

- Power to Gas
- Power to Liquid
- Power to Heat
- Alkaline electrolysis
- PEM electrolysis
- Methanisation
- Biodiesel / biogas

Your application is not listed? Please contact us!