



### 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 <sup>3</sup> /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



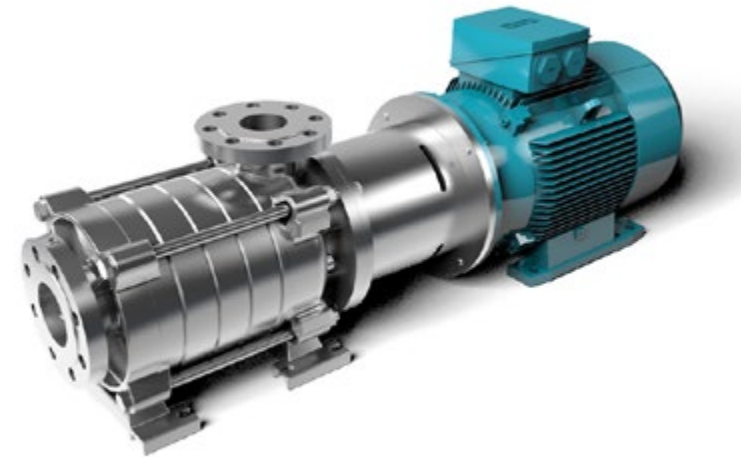
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### SERIES LBM

**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 <sup>3</sup> /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

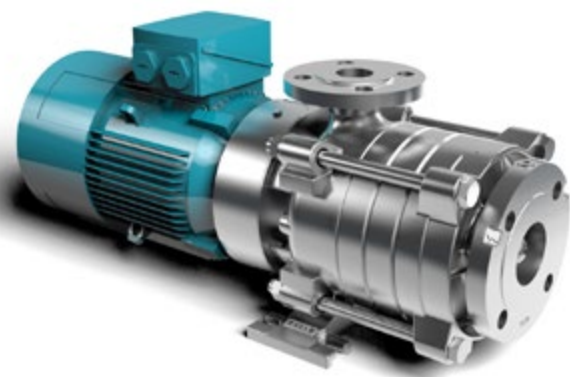


### SERIES LBU

**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 <sup>3</sup> /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

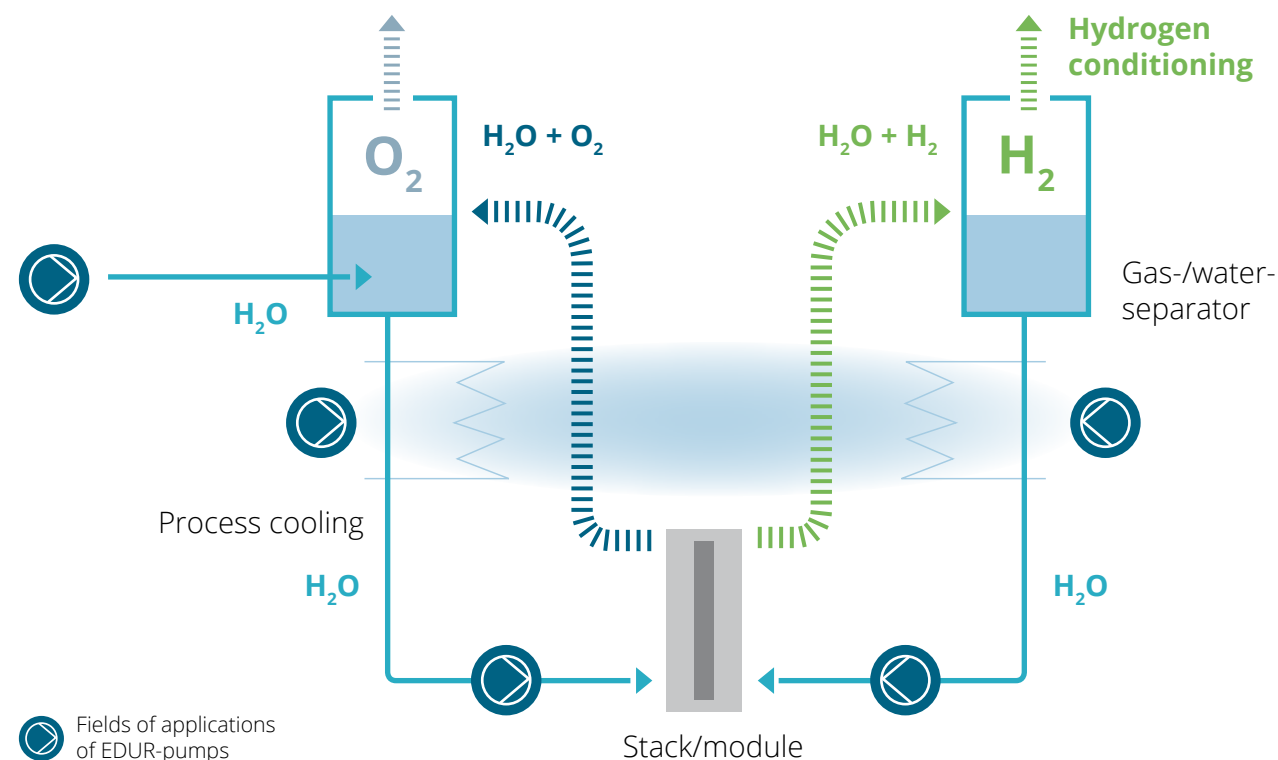
### PROVEN SOLUTIONS FOR NEW TECHNOLOGIES

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.

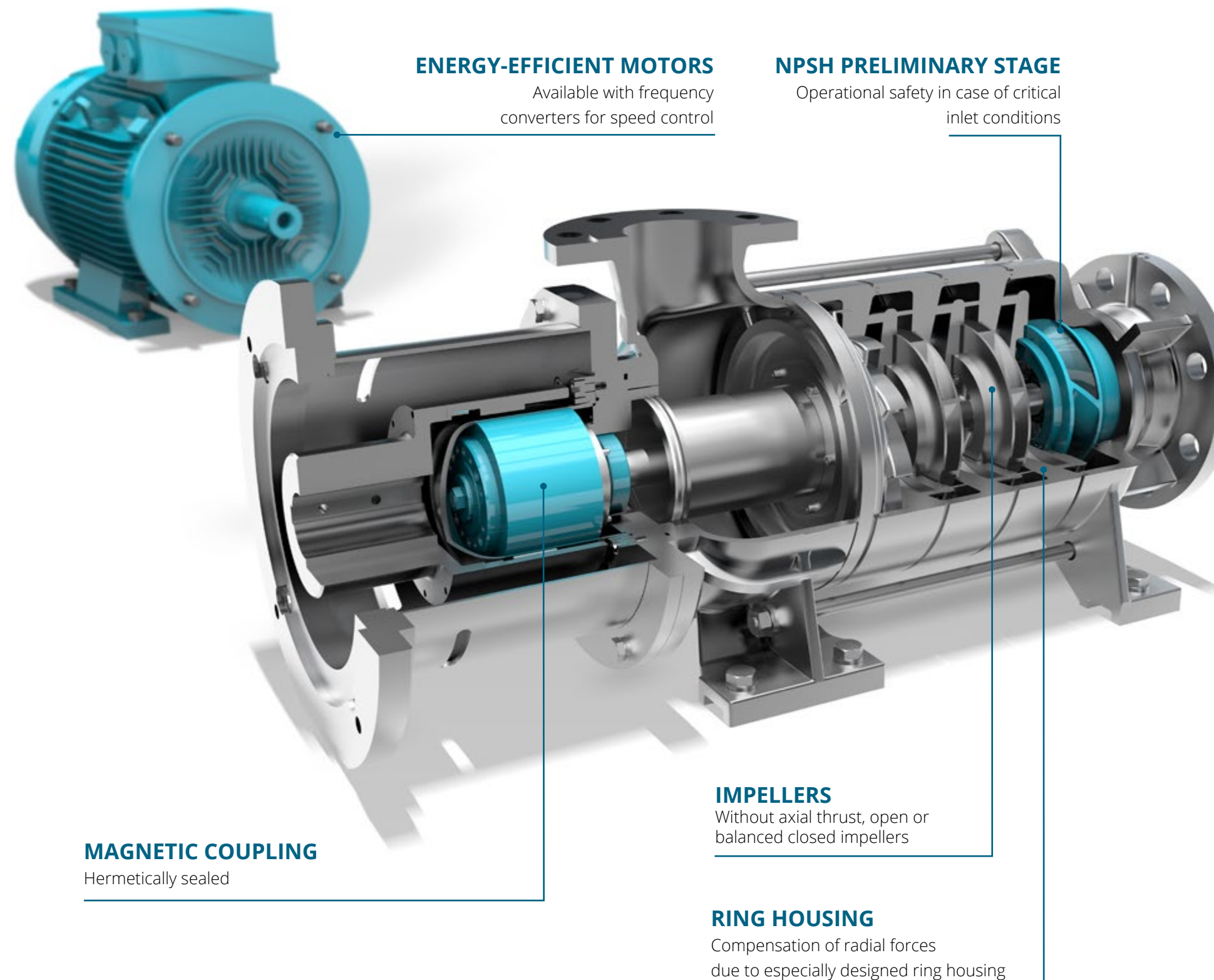
### MULTIPHASE PUMPS FOR NETWORKED ENERGY SYSTEMS

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



### 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!