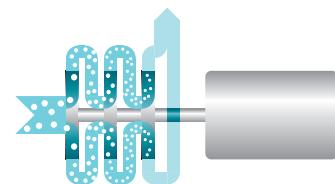


PBU

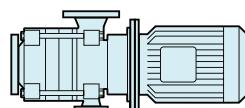


## Multiphase PBU LBU

Horizontal centrifugal pumps for the transport of liquid-gas mixtures and for the enrichment of liquids with gases. A dispersion with very fine bubbles is being achieved. Therefore the multiphase pumps are also acting as dynamic mixer with high shearing forces.

Some main applications are water and wastewater treatment, dissolved air floatation, neutralization, biofuel plants, bio-reactors, ozonation, crude oil water separation on oil fields and oil rigs as well as general process technology.

### Other types:



## LBU

## Advantages

### ■ High Energy-Efficiency

- optimal enrichment and mixing of liquids with gases
- high degree of dispersion
- low velocity of flow
- optimized impeller approach flow
- low internal friction losses

### ■ Technical Superiority

- open impellers without axial thrust
- compensation of radial forces by means of diffuser
- direct gas input acc. to VDMA 24430

### ■ Process Reliability

- gas contents up to 30 %
- stable creation of micro bubbles

### ■ Easy Installation

- modular construction for customized solutions
- bloc-design

### ■ Application

- operating pressure up to 40 bar
- temperature -40° C to +140° C
- viscosity up to 115 mm<sup>2</sup>/s





wastewater treatment  
**flotation**  
 dispersion  
**micro bubbles**  
 biological sewage works  
 ozonation



**Multiphase  
PBU LBU**

**Characteristics**

