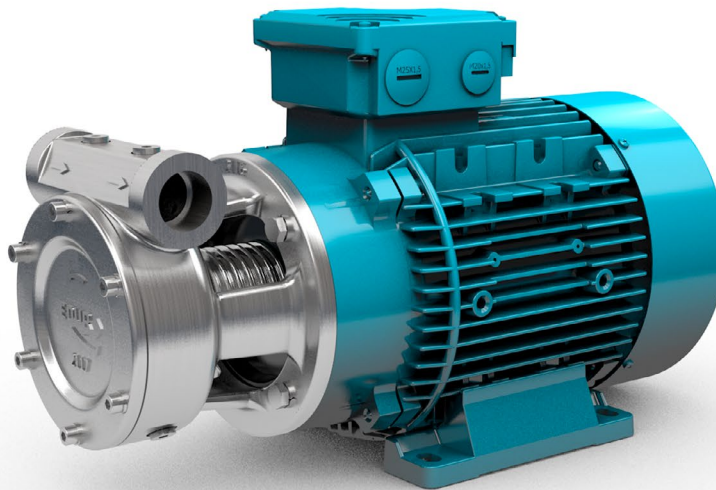


## Multiphase Pumps

# Series PBU, LBU

- Flotation Plants acc. to VDMA Specification 24430
- Ozonization
- Water Treatment
- Crude Oil Water Separation
- Fuel Production
- General Process Technology



### TECHNICAL DATA ▶ PBU

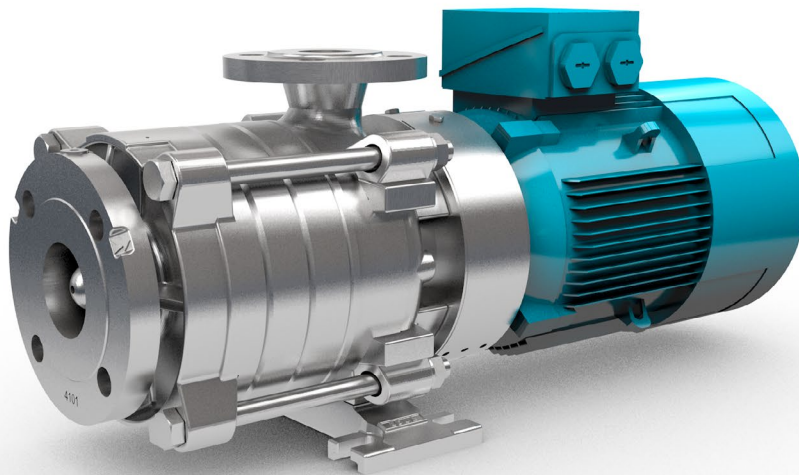
Flow rate	max. 14,5 m <sup>3</sup> /h
Head	max. 145 m
Operating pressure	max. 16 bar
Temperature	-40 °C to 140 °C
Gas contents	up to 15 %
Viscosity	up to 115 mm <sup>2</sup> /s

### GENERAL INFORMATION

Multiphase pumps are designed to convey liquid-gas mixtures and to enrich liquids with gases, such as air, oxygen or ozone. They enable the transport of gas contents of up to 30 percent. Additionally, the pumps ensure a dynamic mixing and an excellent gas saturation.

### ADVANTAGES

- Gas enrichment of liquids and conveyance of gas-loaded liquids e.g. with air or ozone
- Direct gas entry into the suction line
- Dynamic mixing
- Excellent gas saturation
- Perfect dispersion with bubble sizes between 30 and 50 µm after expansion
- Optimized size of pressure nozzle for low pipe friction losses and velocity head difference
- Significant reduction of plant components
- Cost- and energy-efficient operation in flotation plants
- Optional sensor-based operation monitoring
- Low noise emissions
- Easy maintenance



#### TECHNICAL DATA ▶ LBU

Flow rate	max. 60 m <sup>3</sup> /h
Head	max. 250 m
Operating pressure	max. 40 bar
Temperature	-50 °C to 140 °C
Gas contents	up to 30 %
Viscosity	up to 115 mm <sup>2</sup> /s

#### CHARACTERISTIC CURVES

