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Pumps • Valves • Service



## UPA S 200 – High-efficiency Submersible Borehole Pump of 200 mm



### Applications:

- Water supply
- General irrigation/spray irrigation
- Groundwater management
- Offshore applications
- Pressure boosting

### More information:

[www.ksb.com/products](http://www.ksb.com/products)

# UPA S 200 – High-efficiency Submersible Borehole Pump for Well Diameters of 200 mm and Above

## Efficiency

- Optimised hydraulic design for highest efficiencies and lowest energy demand
- Further increases in electric efficiency by up to 12 % can be achieved with a high-efficiency UMA-S 150E/200D motor (up to 150 kW)
- Adjusting impeller diameters to match individual requirements

## High level of operating reliability and long service life

- Components made of high-grade stainless steel 1.4408, optionally 1.4517
- Lift check valve with anti-blockage valve disc closes quickly and reduces waterhammer
- Wear-resistant variant for heavily sand-laden fluids

## Extended motor life

- Water-lubricated, maintenance-free plain bearing with self-aligning tilting pads for continuous operation
- Counter thrust bearing for reliably absorbing negative axial thrust
- Mechanical seal in carbon/ceramic or SiC/SiC material combination provides protection against wear
- Reliable pressure equalisation system for maximum immersion depths
- Motors designed for maximum pump input power to prevent overloading

## Patented intake chamber

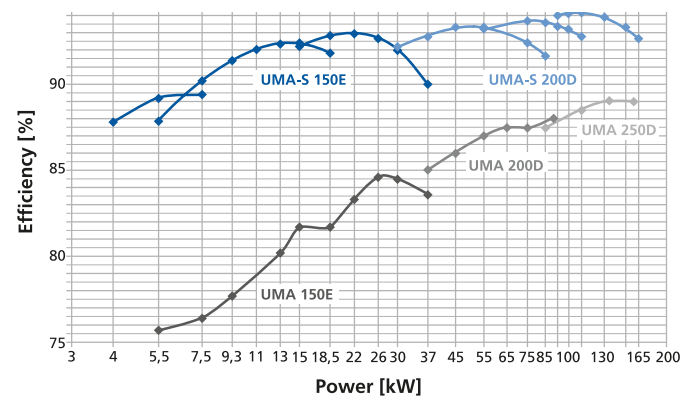
Optimised flow conditions at different heads

## Approved for drinking water

Certified to ACS and compliant with UBA



Comparison of high-efficiency synchronous motors\*



\*To IEC 60034-30: Conventional asynchronous motor (here: UMA 150E / 200D / 250D) versus high efficiency synchronous motor (here: UMA-S 150E / 200D)

Materials	
Stage casings / Impellers	1.4408 / 1.4517
Shaft	1.4462
Radial bearing EPDM / SiC	EPDM / SiC
Casing wear rings	EPDM / 1.4138
Motor Grey cast iron	Grauguss / 304 / 316SS / 904L

Technical data	50Hz	60Hz
Max. flow rate	200 m <sup>3</sup> /h 880 gpm (US)	240 m <sup>3</sup> /h 1050 gpm (US)
Max. head	400 m	400 m
Max. speed	3.000 U/min	3.600 U/min
Max. fluid temperature	50 °C 122 F	50 °C 122 F



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