

UPA S 200 / UPA S 250 – High-efficiency Submersible Borehole Pump



Applications:

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

More information:

www.ksb.com/products

UPA S 200 / UPA S 250 – High-efficiency Submersible Borehole Pump for Well Diameters from 200 mm

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 motor (up to 250 kW)
- Impeller diameters trimmed to match individual requirements

High level of operating reliability and long service life

- Components made of high-quality stainless steel AISI 316SS, optionally in AISI 904L
- 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

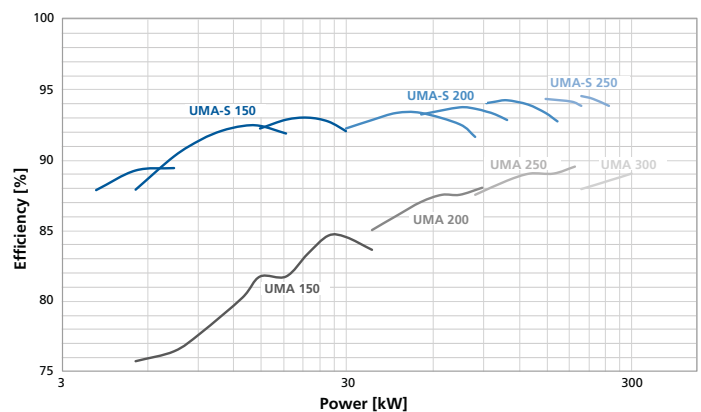
Optimised flow conditions at different heads

Approved for drinking water

Certified to ACS and compliant with UBA



Efficiency comparison of synchronous and asynchronous motors:*



To IEC 60034-30: Conventional asynchronous motor (here: UMA 150 to UMA 300) compared to high-efficiency synchronous motor (here: UMA S 150 to UMA S 250)

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

Technical data	UPA S 200	UPA S 250
Max. flow rate	240 m³/h 1,050 gpm (US)	370 m³/h 1,630 gpm (US)
Max. head	400 m	560 m
Max. speed	3,600 U/min	3,600 U/min
Max. fluid temperature	50 °C 122 °F	50 °C 122 °F



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