

UPA – Submersible Borehole Pumps From 200 mm (8 Inches)

UMA-S 150E / 200D: Operate UPA more efficiently than ever before with the 8" synchronous submersible motor



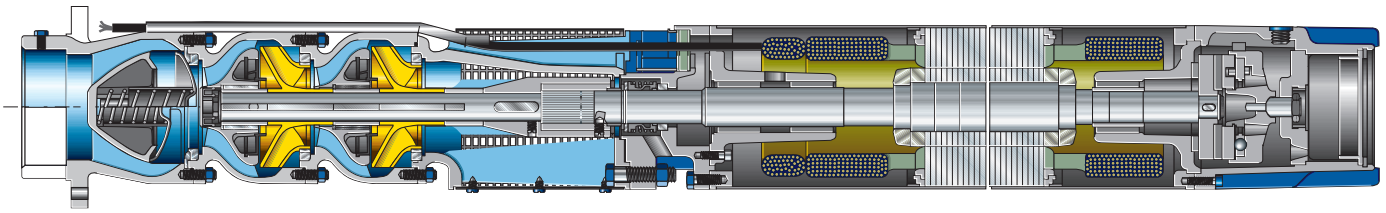
Applications:

- Handling clean or slightly contaminated water
- Water supply systems
- General irrigation and spray irrigation systems
- Industrial water supply
- Lowering and maintaining groundwater levels
- Mining
- Offshore and cavern applications
- Pressure boosting
- Fire-fighting systems, sprinkler installations

More information: www.ksb.com/products

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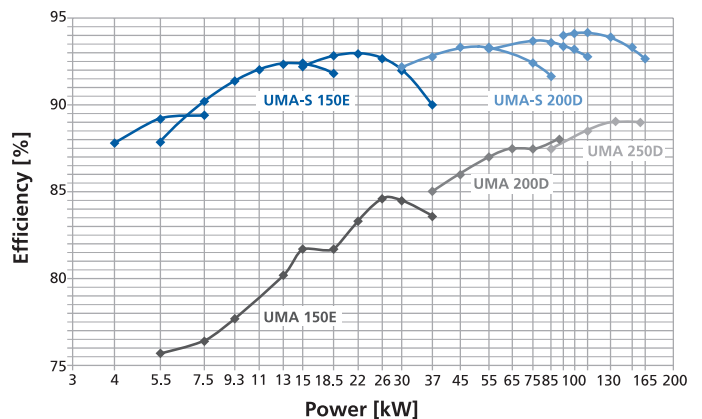


For heavy-duty applications: duplex variant now available as standard

- **High operating reliability and long service life**
 - Maintenance-free enclosed pump bearing protects shaft and bearings from abrasive wear
 - Non-return valve with anti-blockage valve disc closes quickly and reduces waterhammer
- **Trouble-free long-term operation**
 - Wear-resistant material 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
- **Flexibility**
 - Suitable for installation in narrow deep wells
 - For vertical, inclined or horizontal installation

- **Maximum efficiency and low operating costs**
 - Consistently high efficiencies through optimised hydraulic design
 - In comparison with common asynchronous motors, efficiency improvements of up to 12 % and energy savings of more than 40 % can be achieved with fully compatible high-efficiency UMA-S 150E / 200D motors (up to 150 kW)
- **Approved for drinking water**
 - ACS-certified

Efficiency classes to IEC 60034-30 in comparison*:



*Common asynchronous motor (here: UMA 150E/ 200D/ 250D) vs. high-efficiency synchronous motor (here: UMA-S 150E/ 200D)

Technical data	UPA 200 / 200B / 250C / 300 / 350	
	50 Hz	60 Hz
Max. flow rate	840 m³/h 3700 gpm (US)	1010 m³/h 4447 gpm (US)
Max. head	480 m 1575 ft	460 m 1509 ft
Max. speed	2900 rpm	3500 rpm
Max. fluid temperature	50 °C 122 °F	50 °C 122 °F

Materials	UPA 200 / 200B / 250C / 300 / 350
Pump	Grey cast iron / bronze / duplex
Impeller	Glass fibre reinforced Noryl / bronze / duplex
Motor	Grey cast iron / 304 / 316SS / 904L



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