

# BADU® Novastar

**Corrosion-resistant, efficient, variable.  
Innovative propeller pump for ponds and streams.**

## Field of application

Water treatment and circulation for ponds and streams as well as fish farming. High water volume at low head.

## Design

The BADU Novastar propeller pump is a single stage, non-self-priming elbow pump with an axial impeller.

The pump can be installed vertically and horizontally.

The bellows-type mechanical seal is mounted on a plastic shaft protector sleeve.

Motor/pump shaft has no contact with the water in the circuit, providing complete electrical separation.

## Technical data at 50/60 Hz

Flow rate .....	Q up to max. 100 m³/h
Dynamic head .....	H up to 5 m
Water temperature .....	t max. 40 °C
Maximum operating pressure .....	p 2.5 bar
Speed variables .....	n variable up to 2600 rpm
Inlet Sa/outlet Da .....	110/110
Rec. inlet/outlet pipe .....	140/140 PVC pipe

## Materials used

Pump casing .....	PP GF 30
Gland housing .....	PP GF 30
Flange with integrated lantern .....	PP GF 30
Impeller .....	PPE GF 30
Mechanical seal .....	carbon/ceramic/NBR
Pump shaft .....	stainless steel
Flange sleeve .....	PVC
Elastomers .....	NBR

## Motor

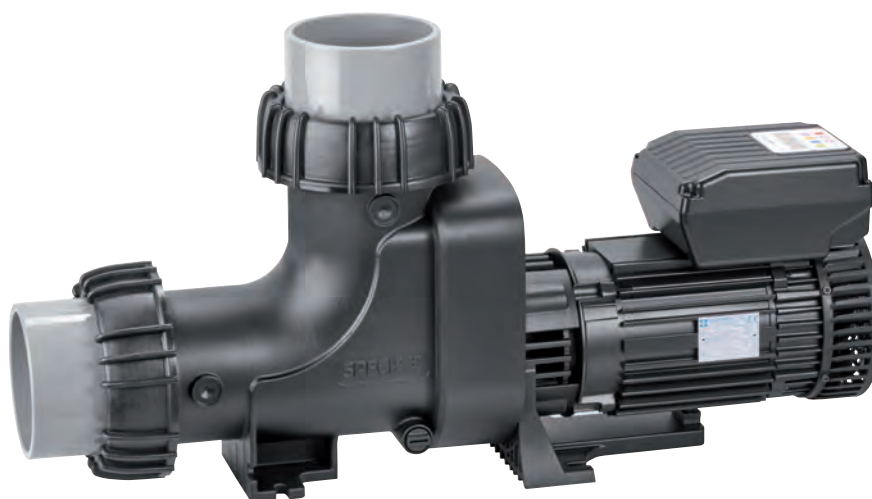
Directly mounted, low-noise operation, surface-cooled electric motor with permanently lubricated, sealed ball bearings.

Variable speed motor controllable externally via digital and analogue inputs.

Suitable for standard voltage according to DIN IEC 60038 and DIN EN 60034 (Euro voltage) i.e. suitable for continuous operation at:

Voltage .....	1~ 220-240 V
Power input $P_1^{1)}$ .....	0.09-1.80 kW (1~ 230 V)
Power output $P_2$ .....	0.05-1.40 kW (1~ 230 V)
Rated current .....	0.65-7.80 A (1~ 230 V)
Protection class .....	IP 55
Idle speed .....	2600 rpm
Frequency .....	50/60 Hz
Class of insulation .....	F
Cooling air temperature .....	max. 40 °C

For more detailed information regarding the motor protection please see page 34.



## Dimensions

Detailed dimensions available on request or at [speck-pumps.com](http://speck-pumps.com)

