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ASTRALPOOL

KIVU[®]

Filter pump

The market's most efficient plastic pump for large flows

- ▶ High hydraulic efficiency (up to 85%).
- ▶ Low noise level (up to 66dBA in the 7,5HP model).
- ▶ For large flow requirements, up to 280m³/h.
- ▶ High efficiency motors: IE2 and NEMA Premium efficiency (and IE3 ready).



How did AstralPool get to invent the KIVU® pump?

The KIVU® project arises from the need to have a pump for large flows with the following required features:

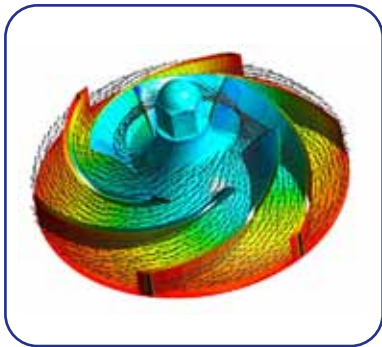
1. Plastic pump for large flows and multiple uses (Pool, Fish farming, Water parks. . .).
2. Maximum hydraulic efficiency.
3. Low noise level.
4. Use of standard market motor.
5. PCT Patent pending.

We have created a pump that suits the different requirements of the market and/or customer as:

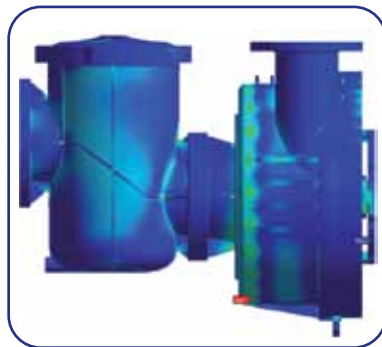
- One pump platform design for all versions.
- High efficiency motors compliant with the IEC and NEMA standards (IE2 and NEMA Premium efficiency).
- Standard motor shaft (compatibility with any motor manufacturer).
- Joints, bolts and fasteners according to the target market standards.
- Product with UL and GS marks.

Use of state of the art technology in finite elements analysis software (CFD and CAE) in its design, development and simulation with the aim of:

- Efficiency optimization: 85% pump efficiency achieved.
- Materials with high structural stability: according to pressure tests, NSF 50 standard compliant.



CFD



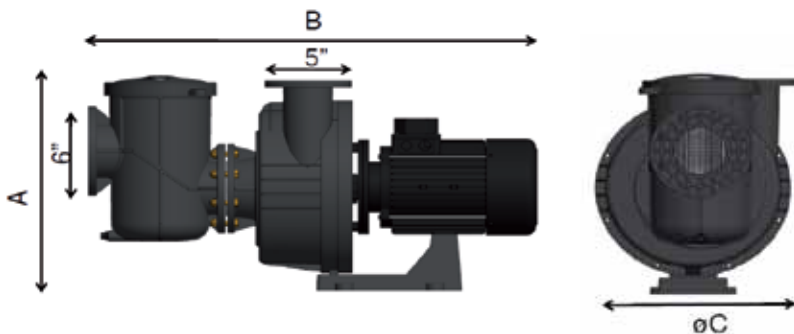
CAE

The final results in installations show the important cost saving of the KIVU® filter pump based on high energy efficiency.



Features

- High efficiency plastic pump.
- 1500rpm centrifugal pump.
- Low noise level: up to 66dBA.
- Power range 7.5 - 10 and 15HP.
- Hydraulic efficiency without pre-filter 85% (compliant with ISO 9906 standard).
- For large flow use, up to 280 m³/h.
- Standard 6" x 5" connections.
- Stand-alone pre-filter 6" x 6" (25 litres). The pump can be sold without a pre-filter.
- Standard IEC motor with B5 aluminium motor flange configuration.
- High efficiency motors compliant with IE2 and NEMA standards (IEC 60034-30 and NEMA Premium compliant). IE3 ready.
- Standard motor shaft (compatibility with any motor manufacturer).
- Plastic impeller (No metallic parts in contact with water)
- Product with UL and GS marks.
- Supply voltage: 230/400 or 400/690V.
- AISI-316 stainless bolts.
- Mechanical sealing of great performance and quality (AISI-316, EPDM,...) ready to be used on sea water.



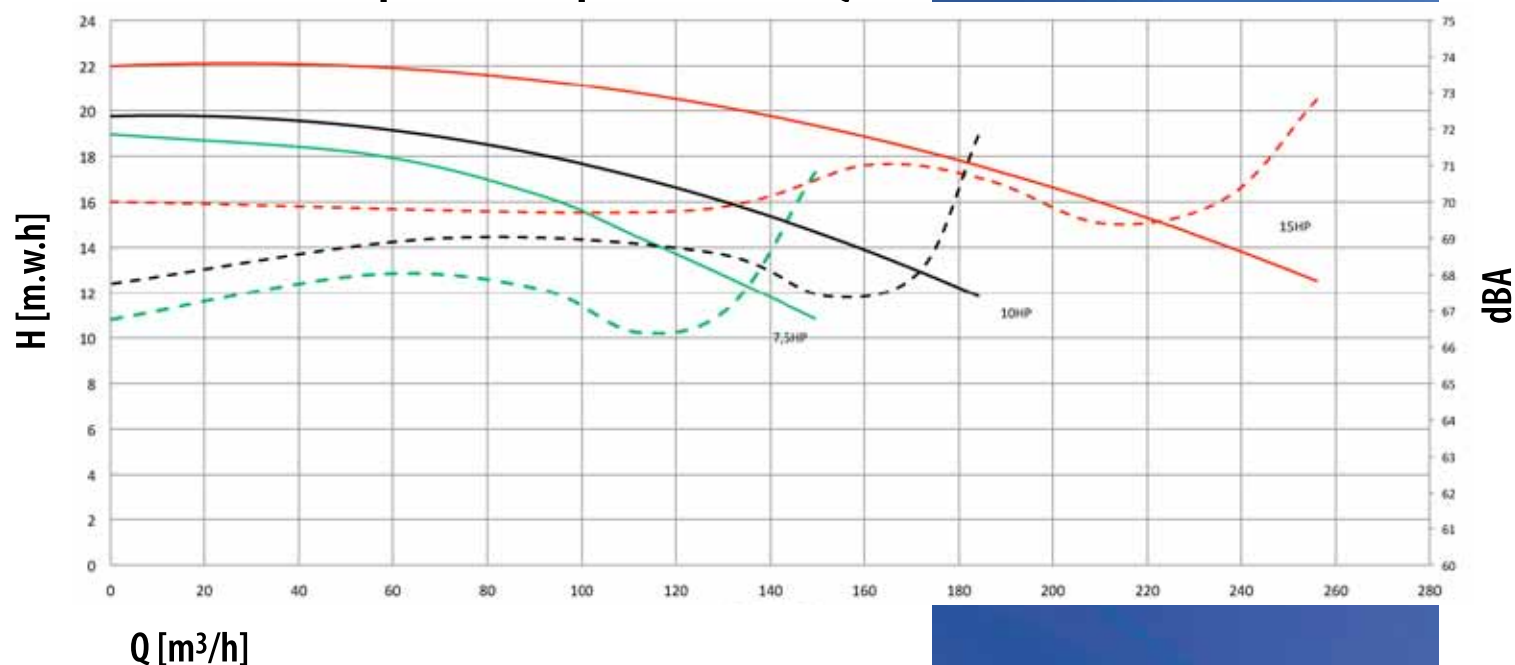
Dimensions (mm)	A	B	C
KIVU® 7,5HP 1500 rpm	688	1215	550
KIVU® 10HP 1500 rpm	688	1250	550
KIVU® 15HP 1500 rpm	688	1315	550



The KIVU® plastic pump for large flows has been designed to achieve the maximum working efficiency with the lowest noise. KIVU® is undoubtedly the highest efficiency pump in the market.

According to standard ISO 9906:2012

KIVU® Pump without pre-filter H / Q



According to standard ISO 9906:2012

KIVU® Pump without pre-filter Hydraulic Eff.(P3/P2) / Q

