

## Hydraulic Power Unit

The HLK-90150 hydraulic power unit is a lightweight power solution for submersibles or small electric ROVs to enable manipulator or light-duty tooling functions.

The HPU makes use of a fixed displacement gear pump driven by a 440Vac or 660Vac 3 phase motor and incorporates a direct acting pressure relief valve inside the pump manifold.



## Features

- Low cost hydraulic power unit for manipulator or light duty tooling applications
- Compact and lightweight at only 15.6kgs (34.4lb) in water
- Constructed from corrosion resistant materials
- Three phase voltages available in 440Vac or 660Vac
- Manifold contains adjustable direct acting pressure relief valve

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## Technical Specifications

### General

Pump type	Fixed Displacement Gear
Motor Type	3 Phase AC Induction
Materials	6082 Aluminium
Seal Materials	Nitrile/NBR/Buna-N, PTFE
Product Finish	Hard Anodised
Work Ports	P = 1/4" BSPP (ISO 1179) T = 3/8" BSPP (ISO 1179)
Compensation Ports	1/8" NPTF (ANSI B1.20.3)
Dimensions	(D) 177mm x (L) 422mm (7" x 16.6")
Weight in Air	24.4kg (53.7lb)
Weight in Water	15.6kg (34.4lb)
Electrical Connector Type & Pin	M2PL4M with 1.5mtr Whip

### Hydraulic Performance

Max. Working Pressure	140bar (2000psi)
Flow (lpm)	10.6lpm (2.8gpm) @ 50Hz, 12lpm (3.17gpm) @ 60Hz
Fluid Type	Mineral: DIN 51524, ISO 11158, ISO 6743-4 Synthetic: Panolin Atlantis, HLP-Synth
Viscosity	16cSt to 220cSt. VG 22-32 Recommended
Fluid Temperature	5-60°C (41-140°F)
Cleanliness Requirements	ISO 4406:17/15/12, NAS 1638:6, AS4059:7A/6B/6C

### Electrical Requirements

Supply Voltage	440/660Vac
Electrical Power	4.3kW
Current Consumption	6A @ 440Vac, 5A @ 660Vac
Frequency	50/60Hz

### Environmental

Operational Depth (msw)	3000msw (9,840ft)
Operating Temp (C)	5-60°C (41-140°F)
Storage Temp (C)	0-70°C (32-158°F)
Humidity (%)	0% to 100% Condensing