



## Features

- Available with three DC input voltage options: 24Vdc, 48Vdc & 200-375Vdc
- Available with one AC input voltage option: 90-240Vac single phase (50/60Hz)
- Motor power is by a set of three 150W brushed DC motors providing a total of 450W input to the pump drive
- Various Subconn connector options (depending on voltage)
- Two pump sizes provide pressure & flow options: 0.8lpm @ 140bar or 0.4lpm @ 207bar

## Product Overview

The HLK-91100 series HPU's offer a diverse set of input power options to cater for the majority of ROV systems on the market today. They are particularly suited for small to medium sized ROV's and manned submersibles to provide the hydraulic functionality required to function hydraulic manipulators, pan & tilts or other types of tooling requiring a low flow and they can also be used on larger work class vehicles to provide a small source of hydraulic functionality

The pump manifold incorporates a direct acting pressure relief valve which can be infinitely adjusted between 0-207bar depending on the pump size. The pump is driven by a set of three 150W brushed DC motors through a reduction gear-box.

## Product Specifications

### General

Pump type	Fixed Displacement Gear
Motor Type	3x 150W Brushed DC Motors
Materials	6082 Aluminium
Seal Materials	Nitrile/NBR/Buna-N, PTFE
Product Finish	Hard Anodised
Work Ports	1/8" NPTF (ANSI B1.20.3)
Compensation Ports	7/16" SAE (SAE J1926-1)
Dimensions	(D) 100mm x (L) 323mm (3.9" x 12.7")
Weight in Air	5.5kg (12.1lb)
Weight in Water	2.9kg (6.4lb)
Electrical Connector Type & Pin	Various Subconn Depending on Voltage

### Hydraulic Performances

Max. Working Pressure	0.45cc @ 140bar (2000psi)
	0.24cc @ 207bar (3000psi)
Flow	0.45cc @ 0.8lpm (0.24gpm)
	0.24cc @ 0.4lpm (0.11gpm)
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 4406:20/18/15, NAS 1638:9, AS4059:10A/9B/9C

### Electrical Requirements

Supply Voltage	24Vdc, 48Vdc, 200-375dc, 90-240Vac
Electrical Power	300W Nominal
Current Consumption	24Vdc = 12.4A Maximum
	48Vdc = 6.2A Maximum
	200-375Vdc = 2.25-1.2A Maximum
	90-240Vac = 5-1.9A Maximum
Frequency	50/60HZ (AC Model)

### Environmental

Operational Depth	2000msw (6,560ft)
Operating Temperature	5-60°C (41-140°F)
Storage Temperature	0-70°C (32-158°F)
Humidity (%)	0% to 100% Condensing