

## Hydraulic Power Unit

The HLK-91000 hydraulic power unit is a low profile, compact unit, incorporating a direct acting pressure relief valve. It is driven by a pair of 150W, 48Vdc brushed DC motors coupled to a common drive shaft with a high-pressure shaft seal to a gear pump.

It is commonly used to power compact hydraulic manipulators on manipulator skids such as the Mini-Gauntlet skid used on the Falcon electric observation class ROV or can be used for other activities such as low pressure accumulator charging or as a low pressure, low flow hydraulic supply for dedicated functions on submersible systems.



## Features

- Compact and lightweight at only 2.4kgs (9.7lb) in water
- Constructed from corrosion resistant materials
- Manifold contains adjustable direct acting relief valve

## Technical Specifications

### General

Pump Type	Fixed Displacement Gear Pump
Motor Type	2x 150W, 48Vdc 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	1/8" NPTF (ANSI B1.20.3)
Dimensions	(L) 238mm x (W) 110mm x (H) 63mm (9.4" x 4.33" x 2.48")
Weight in Air	4.4kg (9.7lbs)
Weight in Water	2.4kg (5.29lbs)
Electrical Connector Type & Pin	Subconn LPBH3M 3 Pin

### Hydraulic Requirements

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 4406:20/19/16, NAS 1638:10, AS4059:11A/10C/10C

### Electrical Requirements

Supply Voltage	48Vdc
Power	150W (0.2hp) Maximum
Current Consumption	2.8A Maximum

### Environmental

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