



General	HLK-91000	HLK-91100	HLK-90100	HLK-90130	HLK-90150
Pump type	Fixed Displacement Gear Pump	Fixed Displacement Gear	Fixed Displacement Gear	Fixed Displacement Gear	Fixed Displacement Gear
Motor Type	2x 150W Brushed DC Motors	3x 150W Brushed DC Motors	3 Phase AC Induction	3 Phase AC Induction	3 Phase AC Induction
Materials	6082 Aluminium	6082 Aluminium	6082 Aluminium	6082 Aluminium	6082 Aluminium
Seal Materials	Nitrile/NBR/Buna-N, PTFE	Nitrile/NBR/Buna-N, PTFE	Nitrile/NBR/Buna-N, PTFE	Nitrile/NBR/Buna-N, PTFE	Nitrile/NBR/Buna-N, PTFE
Product Finish	Hard Anodised	Hard Anodised	Hard Anodised	Hard Anodised	Hard Anodised
Work Ports	1/8" NPTF (ANSI B1.20.3)	1/8" NPTF (ANSI B1.20.3)	P = 1/4" BSPP, T = 3/8" BSPP (ISO 1179)	1/8" NPTF	P = 1/4" BSPP, T = 3/8" BSPP
Compensation Ports	1/8" NPTF (ANSI B1.20.3)	7/16" SAE (SAE J1926-1)	1/8" NPTF (ANSI B1.20.3), 7/16" SAE (SAE J1926-1)	1/8" NPTF, 7/16" SAE	1/8" NPTF, 7/16" SAE
Dimensions	(L) 238mm x (W) 110mm x (H) 63mm (9.4" x 4.33" x 2.48")	(D) 100mm x (L) 323mm (3.9" x 12.7")	(D) 145mm x (L) 380mm (5.7" x 13.7")	(D) 120mm x (L) 268mm (4.7" x 10.5")	(D) 177mm x (L) 422mm (7" x 16.6")
Weight in Air	4.4kg (9.7lbs)	5.5kg (12.1lb)	15.4kg (34lb)	7.2kg (15.8lbs)	24.4kg (53.68lb)
Weight in Water	2.4kg (5.29lbs)	2.9kg (6.4lb)	9.6kg (21.2lb)	4.2kg (9.26lbs)	15.6kg (34.4lb)
Electrical Connector Type & Pin	Subconn LPBH3M 3 Pin	Various Subconn Depending on Voltage Type	M2PL4M with 1.5mtr Whip	M2PL4M with 1.5mtr Whip	M2PL4M with 1.5mtr Whip
Hydraulic Performances					
Maximum Working Pressure	80bar (1160psi)	0.45cc @ 140bar (2000psi) 0.24cc @ 207bar (3000psi)	207bar (3000psi)	140bar (2000psi)	140bar (2000psi)
Flow	0.3lpm (0.08gpm)	0.45cc @ 0.8lpm (0.24gpm) 0.24cc @ 0.4lpm (0.11gpm)	2.68lpm (0.71gpm) @ 50Hz 3.21lpm (0.85gpm) @ 60Hz	0.9lpm (0.24gpm) @ 50Hz 1.3lpm (0.34gpm) @ 60Hz	10.5lpm (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 4406:20/19/16, NAS 1638:10, AS4059:11A/10C/10C				
Electrical Requirements					
Supply Voltage	48Vdc	24Vdc, 48Vdc, 200-375dc, 90-240Vac	415/660Vac	415/660Vac	415/660Vac
Electrical Power	150W (0.2hp) Maximum	300W (0.4hp) Maximum	2.55kW (3.42hp) @ 207bar	0.5kW (0.67hp)	4.3kW (5.77hp)
Current Consumption	2.8A Maximum	24Vdc = 12.4A Maximum 48Vdc = 6.2A Maximum 200-375Vdc = 2.25-1.2A Maximum 90-240Vac = 5-1.9A Maximum	2.7A @ 440Vac 2.2A @ 660Vac	0.6A @ 440Vac 0.5A @ 660Vac	6A @ 440Vac 5A @ 660Vac
Frequency	N/A	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Environmental					
Operational Depth	2000msw (6,560ft)	2000mtr (6,560ft)	6000mtr (9,840ft)	6000mtr (9,840ft)	6000mtr (9,840ft)
Operating Temperature	5-60°C (41-140°F)				
Storage Temperature	0-70°C (32-158°F)				
Humidity (%)	0% to 100% Condensing				