

Submersible High Head Drainage Pumps: All Stainless Steel LH-14 & LH-W-14

In recent years, polluted water and runoff from mines and quarries have been cited as social problems in many countries, to the point that demand for pumps that can handle these fluids has been increasing every year. In fact, more than 40% of the runoff from mines is strongly acidic with a pH value of less than 4. To meet this application, Tsurumi has aggressively continued the development of fully stainless steel pumps that are made of 316 stainless steel casting.

LH-14 and LH-W-14 series pumps fall under this category of fully stainless steel corrosion-resistant pump designed for handling aggressive and corrosive liquids. All the parts that come into contact with liquid media are made of 316 stainless steel casting, which enable it to withstand demanding conditions of extremities of pH range.

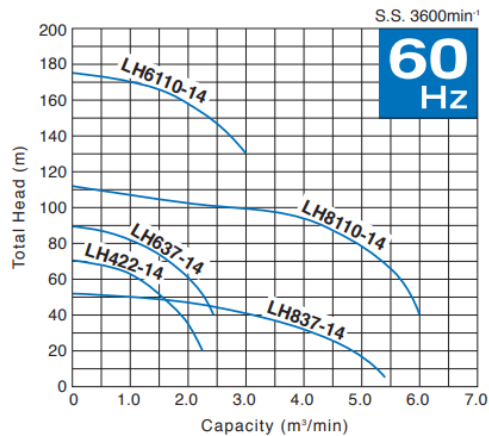
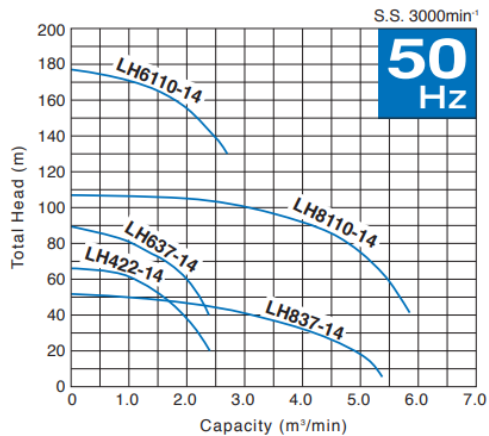
All the other features of standard LH series pumps, like center flange discharge, seal pressure relief port and top flow-through discharge for better cooling efficiency are also present in these fully stainless steel LH series pumps. Besides the metallic parts, all the rubber parts, like O-ring, oil seal and mechanical seal, have been upgraded to FPM (FKM) material for higher resistance to chemical.



Stainless steel casting has better resistant to corrosion, but it is not a good material for heat dissipation. Hence, the motor cooling is not efficient in fully stainless steel pumps. To address the problems that may arise due to motor heating, Tsurumi's stainless steel LH pumps have high temperature resistant bearing and heat resistant rubber parts.

Series		LH-14	LH-W-14	
Motor	Output, kW	22, 37, 110	11, 22	
	Frequency	50Hz/60Hz		
	Poles	2		
	Protection Device	Miniature Thermal Protector		
	Insulation Class	Class F		
	Material	Head cover	316 Stainless Steel Casting	
		Motor Frame	316 Stainless Steel Casting	
Shaft		316 Stainless Steel		
Power cable		Chloroprene Rubber		
Pump	Material	Outer cover	316 Stainless Steel Casting	
		Rubber Parts	FPM (FKM)	
		Upper pump casing	316 Stainless Steel Casting	
		Lower pump casing	316 Stainless Steel Casting	
		Impeller	316 Stainless Steel Casting	
Discharge Bore, mm		100,150, 200	80	
Lubricating Oil		Turbine Oil, ISO VG32		

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