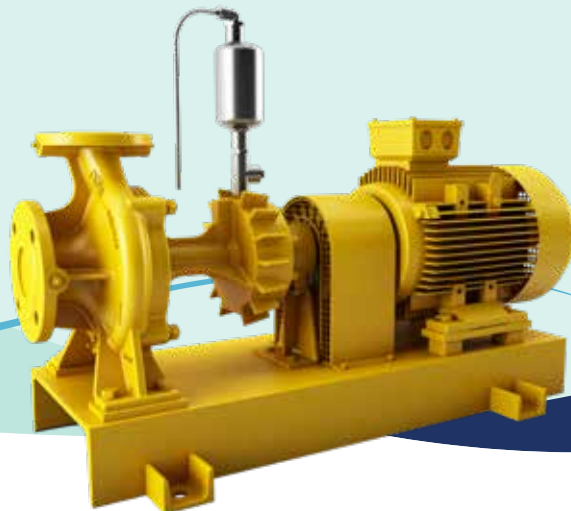


# ESLHT

## Horizontal End Suction Centrifugal Pump



DESMI ESLHT horizontal end suction centrifugal pump designed for high media temperatures for water applications up to 180°C.

ESLHT is a high-efficiency, compact-designed centrifugal pump developed for high-temperature liquid transportation and circulation, primarily in the marine and offshore markets. Typical applications include marine boiler water circulation, hot water supply, and other heat transfer processes.

The pump and its prime mover are mounted on a common base plate by the manufacturer prior to shipment, ensuring easy installation on site. The ESLHT pump has been approved by major marine classification societies through design review, casting sampling, and/or final product witness inspection. Various pump materials are available, offering flexible and customized solutions.

Normal Diameter (DN)	25 to 65
Flow rate - 50 Hz	Up to 100 m <sup>3</sup> /h (440 US gpm)
Flow rate - 60 Hz	Up to 120 m <sup>3</sup> /h (530 US gpm)
Head	Up to 65 m (220 ft)
Pressure	Up to 30 bar (435 psi)
Temperature	Up to 180°C (356°F)
Motor	Standard and Ex motor
VFD	Direct or Bulkhead/Wall-mounted
Applications: High-temperature water circulation, marine boiler water circulation, hot water supply, heat transfer systems.	

### Concept Features:

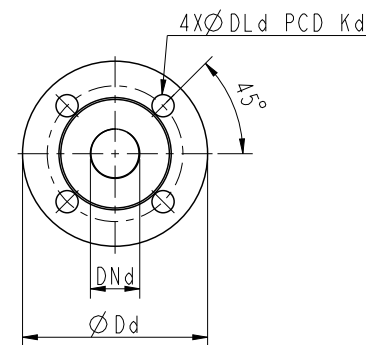
- Duplex stainless steel shaft.
- Closed impeller design ensures high efficiency, even in small-capacity pumps.
- Carbon sleeve bearing as the main bearing for optimal self-lubrication and heat resistance.
- Balanced mechanical shaft seal minimizes seal face wear and heat development, enhancing sealing reliability.
- Separate shaft seal chamber with integrated cooling fins, positioned away from the main pump casing to protect seals from heat transfer.
- Back pull-out design enables easy maintenance without disturbing the pump casing or external piping.
- Automatic air vent valve on top of the shaft seal chamber prevents dry running and seal overheating.
- Air fan on the flexible coupling for effective cooling of the bearing and shaft seal assembly.

# Material specification

## Delivery

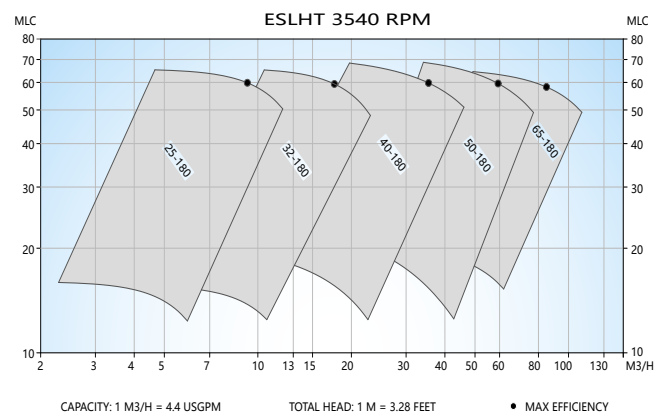
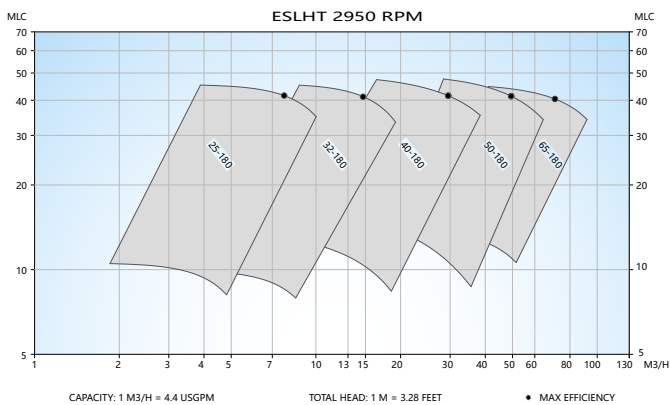
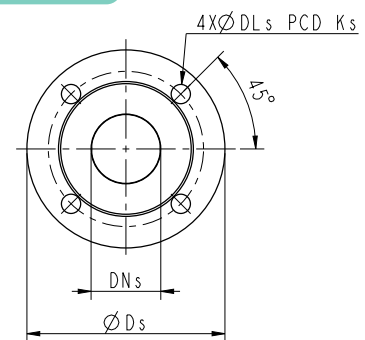
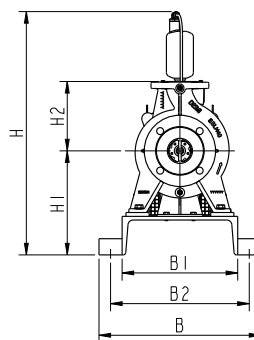
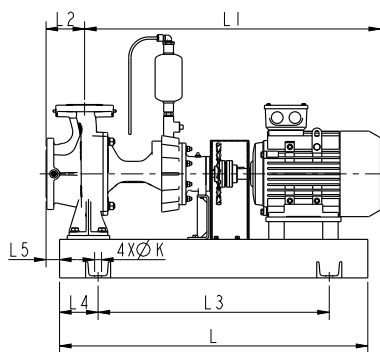
Code*	Casing	Shaft seal cover	Impeller	Shaft
A	EN-GIS-400-15 Ductile cast iron	EN-GIS-400-15 Ductile cast iron	1.4436 Stainless steel	1.4460 Stainless steel
S	1.4410 Stainless steel	1.4410 Stainless steel	1.4410 Stainless steel	1.4410 Stainless steel

The material can be customized according to individual applications or demands.



## Dimension drawing /table:

## Suction



ESLHT	Motor Size	L	L1*	L2	L3	L4	L5	B	B1	B1	H	H1	H2	K	Ds	DNs	DLs	Ks	Dd	DNd	DLd	Kd
ESLHT 25-180N/ A17 W180	112	720	763	80	520	100	21	420	300	360	579	242	160	150	40	110	115	25	14	85		
	100	700	738		500																	
	90L	700	693		500																	
	90S	650	663		450																	
	80	630	633		430																	
	71	600	578		400																	
ESLHT 40-180N /A17 W180	132	850	829	100	600		35			632	270	180	185	65	145	150	40	18	110			
	112	800	798		600																	
	100	780	773		580																	
	90L	750	728		550																	
	90S	750	698		550																	
	80	680	668		550																	

\*L1 might vary slightly from different motor manufacturers.