

HL160M Dri-Prime® Pump

EU Stage 4 Engine Compliant

The Godwin Dri-Prime HL160M pump is an extremely powerful yet compact pump with flow capabilities to 486 m³/hr and discharge heads to 187 metres.

The HL160M features the unique Godwin liquid bath mechanical seal design. This allows for dry running for prolonged periods while automatically priming and repriming. Able to perform in the toughest conditions, the HL160M can handle solids up to 35 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful HL160M has proven itself a pump of choice for dewatering, local authority usage and many other applications.



Features and Benefits

- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 35 mm in diameter.
- Liquid bath mechanical seal with dry-running endurance and high abrasion resistant Silicon carbide faces.
- A Close-coupled centrifugal pump with Godwin Dri-Prime system mounted to a diesel engine or electric drive.
- All cast iron construction with cast steel impeller. Stainless steel construction option also available.
- Also available as Hush-Pac and highway trailer options.
- Other engines options are available, please check with our office.

Specifications

Suction connection	200 mm (8" BS10 Table'D')
Delivery connection	150 mm (6" BS EN 1092 PN25)
Max capacity	486 m ³ /hr
Max Solids handling	35 mm
Max Impeller diameter	508 mm
Max operating temperature	80 °C *
Max pressure	18.5 bar
Max suction pressure	6.0 bar
Max casing pressure	27.7 bar
Max operating speed	2000 rpm

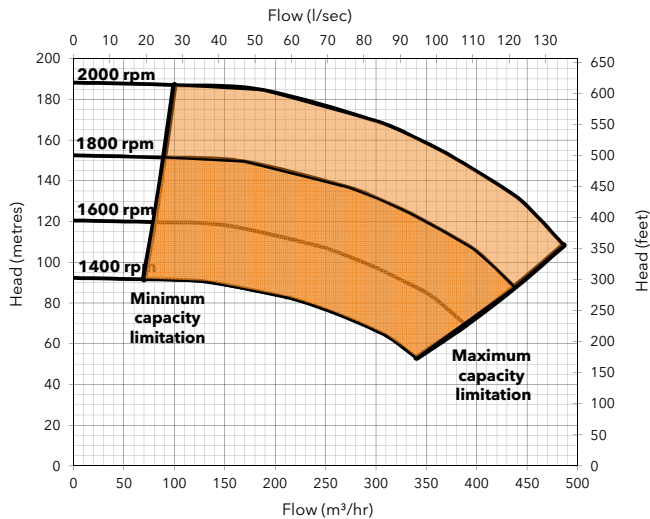
* Please contact our office for applications in excess of 80°C.

** To achieve maximum flow rates, larger pipe maybe required.

This pump is fitted with a latest emissions engine. This is a powerful, reliable and economical engine that complies with latest EU Stage IV (Europe) EPA Tier 4F (North America) emissions legislation. The after treatment system uses Diesel Exhaust Fluid (DEF) (Urea Solution) to reduce the exhaust emissions. DEF is required for the engine to operate, and the tank must be regularly monitored to maintain fluid levels and engine operation.

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Performance Curve



Engine option 1

Price list ref - HL160M-01-T4BO-002

Scania, DC13 384A [315.0 kW @ 2000 rpm]

Impeller diameter 508 mm

Pump Speed 2000 rpm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	110	140	160	180	180
Output (m³/hr)					
3.0	486	406	345	240	185
4.6	475	398	334	230	170
6.1	415	405	320	198	162
7.6	325	315	290	200	-

Emission Standards, EU Stage 4 / EPA Tier 4F

Fuel capacity (Full) 993 litres, (Usable) 1225 litres

BEP Fuel consumption @ 2000 rpm 67.4 litres/hr

Weight: (Dry) 5,332 kg, (Wet) 6,442 kg

Dimensions: (L) 4,000 x (W) 1,950 x (H) 2,350 mm

Performance data provided in tables is based on water tests at sea level and 20°C ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.

Diesel Exhaust Fluid capacity

Total Volume (litres)	75
Filling Volume (litres)	60

Diesel Exhaust Fluid Consumption

DEF consumption @ 2000 rpm BEP = 14 (g/kWh)

Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	High Chromium Cast Iron HC403:1977 Grade FR6252
Pump Shaft	Carbon steel BS EN 1561 - 1997
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast Iron BS EN 1561 - 1997
Mechanical Seal Faces	Silicon carbide vs silicon carbide viton

Engine option 2

Price list ref - HL160M-01-T4BO-003

Volvo, TAD 1170VE [217.0 kW @ 1800 rpm]

Impeller diameter 508 mm

Pump Speed 1800 rpm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	87	111	127	143	143
Output (m³/hr)					
3.0	437	365	311	216	167
4.6	428	358	301	207	153
6.1	374	365	288	178	146
7.6	293	284	261	180	-

Emission Standards, EU Stage 4 / EPA Tier 4F

Fuel capacity (Full) 850 litres, (Usable) 690 litres

BEP Fuel consumption @ 1800 rpm 48.0 litres/hr

Weight: (Dry) 5,500 kg, (Wet) 6,244 kg

Dimensions: (L) 3,700 x (W) 1,700 x (H) 2,200 mm

Performance data provided in tables is based on water tests at sea level and 20°C ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.

Diesel Exhaust Fluid capacity

Total Volume (litres)	70
Filling Volume (litres)	63

Diesel Exhaust Fluid consumption

DEF consumption @ 1800 rpm BEP = 17 (g/kWh)



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