

# HL250M Dri-Prime® Pump

## EU Stage 4 Engine Compliant

The Godwin Dri-Prime HL250M pump is an extremely powerful yet compact pump with flow capabilities to 1,224 m<sup>3</sup>/hr and discharge heads to 118 metres.

The HL250M 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 HL250M can handle solids up to 65 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful HL250M 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 65 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	300 mm (12" BS10 Table 'D')
Delivery connection	250 mm (10" BS EN 1092 PN16)
Max capacity	1224 m <sup>3</sup> /hr
Max Solids handling	65 mm
Max Impeller diameter	440 mm
Max operating temperature	80 °C *
Max pressure	12.1 bar
Max suction pressure	6.0 bar
Max casing pressure	18.1 bar
Max operating speed	2000 rpm

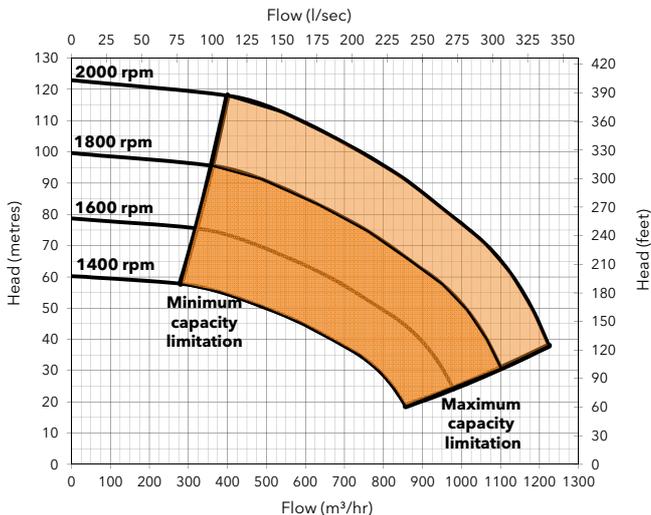
\* Please contact our office for applications in excess of 80°C.

\*\* 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 - HL250M-01-T4BO-002

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

Impeller diameter 440 mm

Pump Speed 2000 rpm

### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	38	53	76	96	114
	Output (m³/hr)				
3.0	1215	1150	975	760	450
4.6	1200	1142	950	750	375
6.1	1000	1000	952	720	330
7.6	683	683	683	683	-

Emission Standards, EU Stage 4 / EPA Tier 4F

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

BEP Fuel consumption @ 2000 rpm 76.7 litres/hr

Weight: (Dry) 5,232 kg, (Wet) 6,392 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	Cast Iron Chrome 1.0/1.5% Nickel 2%
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

## Engine option 2

Price list ref - HL250M-01-T4BO-003

Volvo, TAD 1371VE [265.0 kW @ 1800 rpm]

Impeller diameter 440 mm

Pump Speed 1800 rpm

### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	28	41	59	75	90
	Output (m³/hr)				
3.0	1094	1035	878	684	405
4.6	1080	1028	855	675	338
6.1	900	900	857	648	297
7.6	615	615	615	615	-

Emission Standards, EU Stage 4 / EPA Tier 4F

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

BEP Fuel consumption @ 1800 rpm 54.4 litres/hr

Weight: (Dry) 8,222 kg, (Wet) 9,072 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)	70
Filling Volume (litres)	63

### Diesel Exhaust Fluid consumption

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



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