

HL100M Dri-Prime Pump

HL100M

The Godwin Dri-Prime HL100M pump offers flow rates to 925 USGPM and discharge heads to 378' (115 m). Also it has the capability of handling solids up to 1" (35mm) in diameter.

The HL100M is able to prime to 28' (8.5 m) of suction lift from dry.

Indefinite dry-running is no problem due to the unique Godwin oil bath mechanical seal design. Solids handling, dry-running and portability make the HL100M the perfect choice for dewatering and bypass applications. The standard model is mounted on a highway trailer, with a skid mounted option.



Features

- Simple maintenance normally limited to checking fluid levels.
- Close coupled centrifugal pump with vacuum priming compressor mounted to a diesel engine. Also available in electric drive or as a bare shaft pumpend.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 1" in diameter.
- Continuously operated Godwin venturi air ejector priming device requiring no form of periodic adjustment or control.
- Dry-running heavy duty mechanical seal with abrasion resistant interfaces.
- Also available as a Critically Silenced unit which drastically reduces noise levels of the pump.
- Standard engine John Deere 4045TF285. Also available with Caterpillar C4.4M-T.
- The volute & suction cover are made from cast iron bs1452:1990 grade 220 and the impeller is made from cast steel bs3100 a5 hardness to 200 hb brinell.

Specifications

Suction connection	4" 125# ANSI B16.1
Delivery connection	4" 125# ANSI B16.1
Max capacity	925 USGPM
Max head	378' (115 m)
Max solids handling	1" (35mm)
Max Impeller diameter	15" (370mm)
Max operating temp	176°F (80°C)
Max working pressure	207.4 psi (14.3 bar)
Max suction pressure	87.0 psi (6.0 bar)
Max casing pressure	311.8 psi (21.5 bar)
Max operating speed	2200 rpm

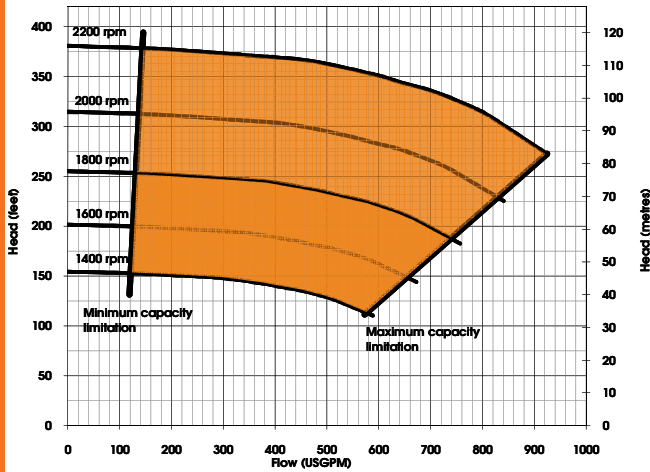
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Please contact Godwin Pumps for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve

Flow (m³/hr)



Materials

Pump casing & suction cover	Cast iron BS1452:1990 Grade 220
Wearplates	Cast iron hardened to 480 HB Hrinell
Pump Shaft	Nickel Chrome Steel to BS970 Grade 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return valve body	Cast Iron
Mechanical seal faces	Silicon carbide vs silicon carbide

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Engine option 1

John Deere, 4045TF285, 99.2 HP @ 2200 rpm

Impeller diameter 15" (370mm)

Suction Lift Table

Total Suction Head (')	Total Delivery Head (')				
	260	300	320	340	351
	Output (USGPM)				
9.8	925	804	736	630	484
15.1	896	799	702	591	436
20.0	848	751	654	557	315
24.9	799	726	581	484	170

Fuel capacity (Full) 24 US Gal, (Usable) 23 US Gal

Fuel consumption @ 2200 rpm BEP 5 US Gal/hr

Weight: (Dry) 4,116 lbs, (Wet) 4,345 lbs

Dimensions: (L) 155" x (W) 76" x (H) 79"

Engine option 2

Caterpillar, C4.4M-T, 69.4 HP @ 1800 rpm

Impeller diameter 15" (370mm)

Suction Lift Table

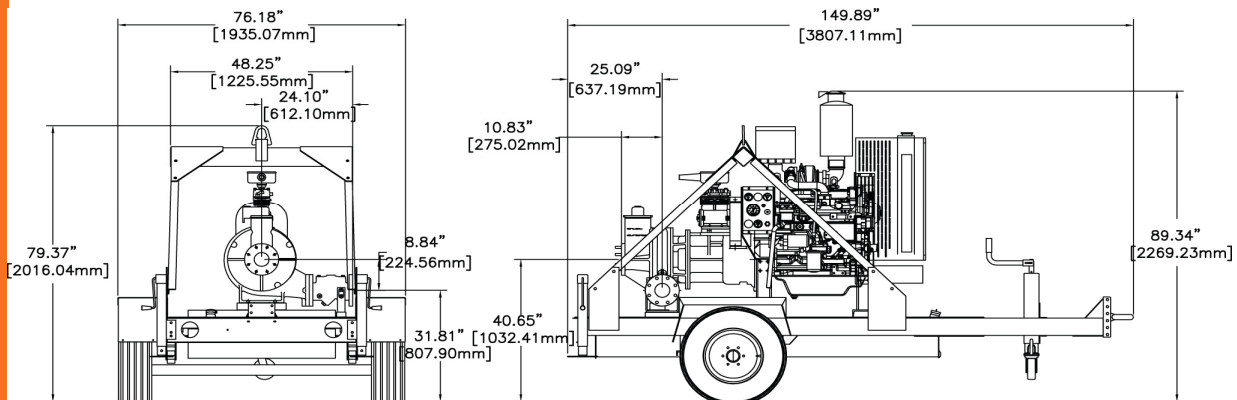
Total Suction Head (')	Total Delivery Head (')				
	165	191	205	218	226
	Output (USGPM)				
9.8	757	658	602	515	396
15.1	733	654	575	483	357
20.0	693	614	535	456	258
24.9	654	594	476	396	139

Fuel capacity (Full) 24 US Gal, (Usable) 23 US Gal

Fuel consumption @ 1800 rpm BEP 3 US Gal/hr

Weight: (Dry) 3,812 lbs, (Wet) 4,024 lbs

Dimensions: (L) 155" x (W) 76" x (H) 79"



Performance data provided in tables is based on water tests at sea level and 68°F ambient.

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