

# HL80M Dri-Prime® Pump

## EU Stage 4 Engine Compliant

The Godwin Dri-Prime HL80M pump is an extremely powerful yet compact pump with flow capabilities to 95 m<sup>3</sup>/hr and discharge heads to 84 metres.

The HL80M 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 HL80M can handle solids up to 25 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful HL80M 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 25 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

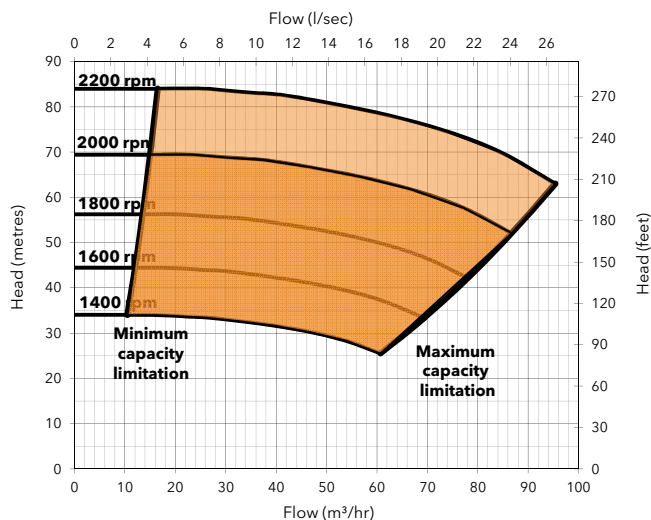
Suction connection	100 mm (4" BS10 table 'D')
Delivery connection	80 mm (3" BS EN 1092 PN16)
Max capacity	95 m <sup>3</sup> /hr
Max Solids handling	25 mm
Max Impeller diameter	325 mm
Max operating temperature	80 °C *
Max pressure	8.2 bar
Max suction pressure	6.0 bar
Max casing pressure	14.7 bar
Max operating speed	2200 rpm

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

\*\* To achieve maximum flow rates, larger pipe may be required.

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## Performance Curve



### Engine option 1

Price list ref - HL80M-01-T4BO-001

JCB, 444 TA4-55 [52.2 kW @ 2200 rpm]

Impeller diameter 325 mm

Pump Speed 2200 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	45	58	65	73	76
Output (m³/hr)					
3.0	102	91	79	62	51
4.6	100	89	74	48	-
6.1	91	82	68	51	-
7.6	66	62	57	34	-

Emission Standards, EU Stage 3B / EPA Tier 4i

Fuel capacity (Full) 390 litres, (Usable) 318 litres

BEP Fuel consumption @ 2200 rpm 9.9 litres/hr

Weight: (Dry) 1,850 kg, (Wet) 2,200 kg

Dimensions: (L) 2,500 x (W) 1,300 x (H) 1,900 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.

## Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	Cast Iron BS EN 1561 - 1997
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 - HL80M-01-FBO-005

Perkins, 404D-22T FC [34.8 kW @ 2000 rpm]

Impeller diameter 325 mm

Pump Speed 2000 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	36	47	53	60	62
Output (m³/hr)					
3.0	93	83	72	57	46
4.6	91	80	67	43	-
6.1	83	74	62	46	-
7.6	60	57	52	31	-

Emission Standards, EU Stage 3A / EPA Tier 3

Fuel capacity (Full) 170 litres, (Usable) 140 litres

BEP Fuel consumption @ 2000 rpm 8.0 litres/hr

Weight: (Dry) 1,125 kg, (Wet) 1,275 kg

Dimensions: (L) 1,800 x (W) 1,000 x (H) 1,900 mm

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Xylem Dewatering Solutions UK Ltd  
Quenington, Cirencester  
Gloucestershire GL7 5BX, England  
Tel: +44 (0)1285 750271 Fax: +44 (0)1285 750351



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