

HL80M Dri-Prime® Pump

HL80M

The Godwin Dri-Prime® HL80M pump is an extremely powerful yet compact pump with flow capabilities to 101 m³/hr and discharge heads to 94 metres.

The HL80M features the unique Godwin high pressure oil 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 sewage handling, dewatering, local authority usage and many other applications.



Features

- 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.
- Dry-running high pressure oil bath mechanical seal, with 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 (stainless steel construction option available) with cast steel impeller.
- Also available as hushpac or as a bareshaft pumpend.
- Standard build engines; Perkins 1104D-44T, Perkins 404D-22T, Perkins 404D-22. Other engine options are available.

Specifications

Suction connection	100 mm (4" BS10 table 'D')
Delivery connection	80 mm (BS EN 1092 PN16)
Max capacity	101 m ³ /hr
Max Head	94 metres
Max Solids handling	25 mm
Max Impeller diameter	325 mm
Max operating temp	80 °C
Max working pressure	10.0 bar
Max suction pressure	6.0 bar
Max casing pressure	15.0 bar
Max operating speed	2400 rpm

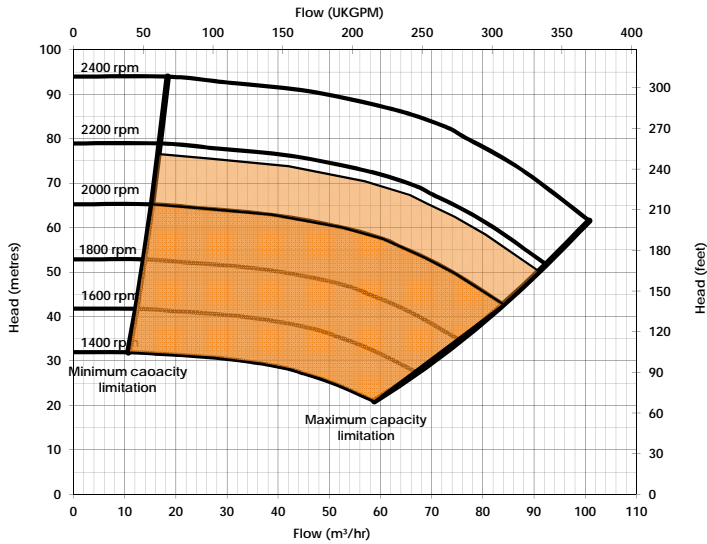
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Please contact the factory or office for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve



Materials

Pump casing & suction cover	Cast iron BS1452:1990 Grade 220
Wearplates	Cast Iron - Chrome 1.0/1.5% Nickle 2%
Pump Shaft	Carbon steel BS970 080M40
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast Iron
Mechanical Seal Faces	Silicon carbide vs silicon carbide

Engine option 1

Perkins, 1104D-44T, 54.6 kW @ 2100 rpm

Impeller diameter 325 mm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	40	52	59	66	68
Output (m³/hr)					
3.0	98	87	76	60	49
4.6	95	85	70	46	-
6.1	91	78	65	49	-
7.6	75	65	54	33	-

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

Fuel consumption @ 2100 rpm BEP 10 litres/hour

Weight: (Dry) 1,700 kg, (Wet) 2,030 kg

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

Engine option 2

Perkins, 404D-22T, 30.9 kW @ 2000 rpm

Impeller diameter 315 mm

Suction Lift Table

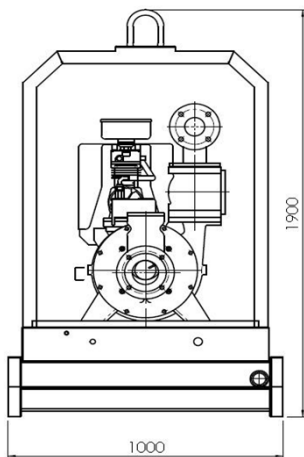
Total Suction Head (metres)	Total Delivery Head (metres)				
	34	44	50	56	58
Output (m³/hr)					
3.0	90	80	70	55	45
4.6	88	78	65	42	-
6.1	84	72	60	45	-
7.6	69	60	50	30	-

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

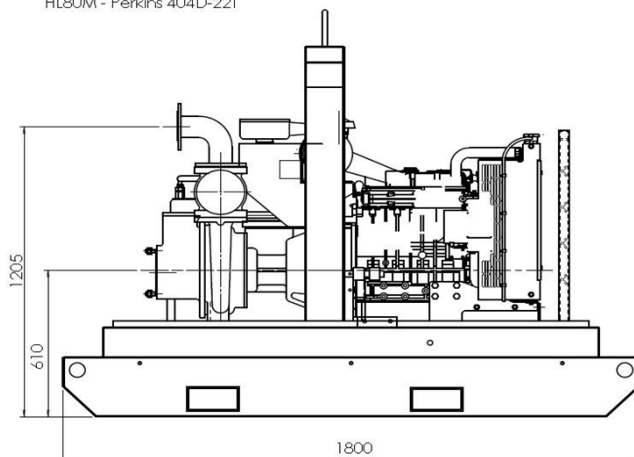
Fuel consumption @ 2000 rpm BEP 7 litres/hour

Weight: (Dry) 1,100 kg, (Wet) 1,245 kg

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



HL80M - Perkins 404D-22T



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Performance data provided in tables is based on water tests at sea level and 20°C ambient.

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