

HL150M Dri-Prime® Hushpac

HL150M

The Godwin Dri-Prime® HL150M pump is an extremely powerful yet compact pump with flow capabilities to 374 m³/hr and discharge heads to 149 metres.

The HL150M 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 HL150M 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 HL150M has proven itself a pump of choice for contractors, local authorities, industrial and environmental companies.



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 35 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 a openset or as a bareshaft pumpend.
- Standard engine Perkins 1106D-E66TA (168).

Specifications

Suction connection	150 mm (6" BS10 table 'D')
Delivery connection	150 mm (BS EN 1092 PN16)
Max capacity	374 m ³ /hr
Max Head	149 metres
Max Solids handling	35 mm
Max Impeller diameter	385 mm
Max operating temp	80 °C
Max working pressure	14.8 bar
Max suction pressure	6.0 bar
Max casing pressure	22.2 bar
Max operating speed	2400 rpm

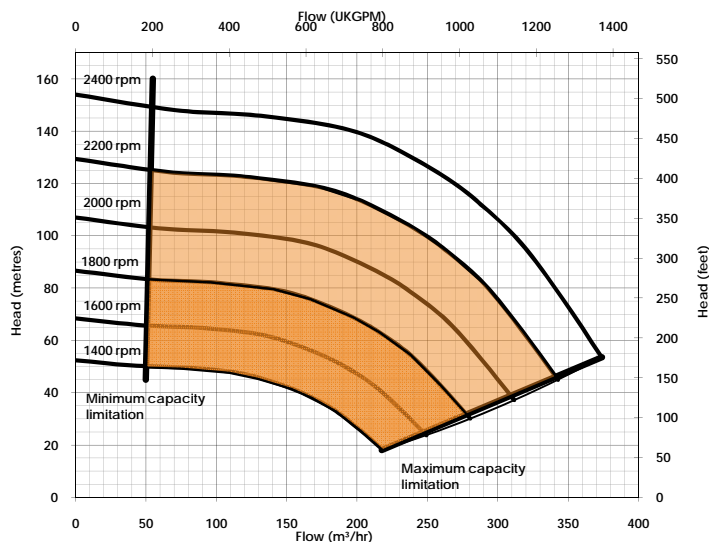
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Please contact the factory or office for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve



Materials

Pump casing & suction cover	Cast iron BS1452:1990 Grade 220
Wearplates	Cast iron hardened to 480 HB Brinell
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

Engine option 1

Perkins, 1106D-E66TA (168), 138.0 kW @ 2200 rpm

Impeller diameter 385 mm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	45	60	75	90	105
	Output (m³/hr)				
3.0	342	318	293	263	220
4.6	336	312	287	257	214
6.1	306	306	281	244	196
7.6	232	229	226	220	183

Fuel capacity (Full) 324 litres, (Usable) 262 litres

Fuel consumption @ 2200 rpm BEP = 36 litres/hour

Weight: (Dry) 3,050 kg, (Wet) 3,400 kg

Overall dimensions

Length	3350 mm
Width	1300 mm
Height	1887 mm

Acoustic information

Speed (rpm)	Average Sound Pressure rating dB(A)		
	1 m	3 m	7 m
1800	79	75	71
2000	82	78	72
2200	87	82	77

Engine option 2

Perkins, 1104D-E44TA, 71.9 kW @ 1800 rpm

Impeller diameter 385 mm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	30	40	50	60	70
	Output (m³/hr)				
3.0	280	260	240	215	180
4.6	275	255	235	210	175
6.1	250	250	230	200	160
7.6	190	187	185	180	150

Fuel capacity (Full) 340 litres, (Usable) 255 litres

Fuel consumption @ 1800 rpm BEP = 16 litres/hour

Weight: (Dry) 2,300 kg, (Wet) 2,600 kg

Overall dimensions

Length	2890 mm
Width	1300 mm
Height	1800 mm

Acoustic information

Speed (rpm)	Average Sound Pressure rating (dba)		
	1 m	3 m	7 m
1400	72	65	65
1800	76	69	66

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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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