

HL110M Dri-Prime® Hushpac

HL110M

The Godwin Dri-Prime® HL110M pump is an extremely powerful yet compact pump with flow capabilities to 114 m³/hr and discharge heads to 187 metres.

The HL110M 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 HL110M can handle solids up to 20 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful HL110M has proven itself a pump of choice for mines, quarries and many other high capacity 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 20 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 (129). Also available with Perkins 1104D-E44TA

Specifications

Suction connection	100 mm (4" BS10 Table 'D')
Delivery connection	80 mm (BS EN 1092 PN25)
Max capacity	114 m ³ /hr
Max Head	187 metres
Max Solids handling	20 mm
Max Impeller diameter	465 mm
Max operating temp	80 °C
Max working pressure	19.0 bar
Max suction pressure	6.0 bar
Max casing pressure	28.5 bar
Max operating speed	2200 rpm

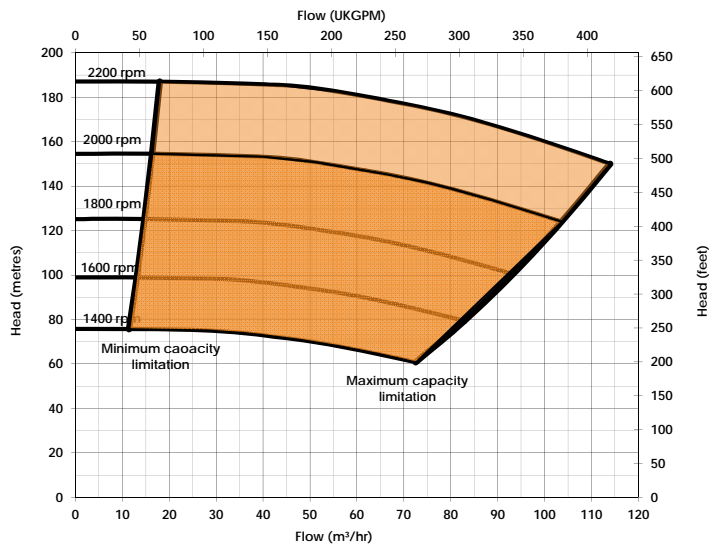
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Please contact the factory or office for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve



Materials

Pump casing & suction cover	Cast steel BS3100 A5
Wearplates	High Chrome Cast Iron Hardened to 625 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 Steel
Mechanical Seal Faces	Silicon carbide vs silicon carbide viton

Engine option 1

Perkins, 1106D-E66TA (129), 103.5 kW @ 2200 rpm

Impeller diameter 465 mm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	138	154	166	173	179
Output (m³/hr)					
3.0	121	105	88	72	55
4.6	119	99	83	66	39
6.1	116	94	77	61	33
7.6	110	88	66	44	-

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

Fuel consumption @ 2200 rpm BEP = 30 litres/hour

Weight: (Dry) 3,300 kg, (Wet) 3,600 kg

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

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
1400	73	66	67
2000	77	71	68
2200	79	78	76

Engine option 2

Perkins, 1104D-E44TA, 74.1 kW @ 2000 rpm

Impeller diameter 465 mm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	114	127	137	143	148
Output (m³/hr)					
3.0	110	95	80	65	50
4.6	108	90	75	60	35
6.1	105	85	70	55	30
7.6	100	80	60	40	-

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

Fuel consumption @ 2000 rpm BEP = 19 litres/hour

Weight: (Dry) 2,500 kg, (Wet) 2,800 kg

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

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
2400	81	80	78

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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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