

HL130M Dri-Prime® Pump

HL130M

The Godwin Dri-Prime® HL130M pump is an extremely powerful yet compact pump with flow capabilities to 340 m³/hr and discharge heads to 191 metres.

The HL130M 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 HL130M can handle solids up to 22 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful HL130M 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 screened sewage, slurries and liquids with solids up to 22 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: Caterpillar C9, Volvo TAD950VE, Volvo TAD951VE. Other engine options are available.

Specifications

| | |
|-----------------------|----------------------------|
| Suction connection | 150 mm (6" BS10 Table 'E') |
| Delivery connection | 100 mm (BS EN 1092 PN25) |
| Max capacity | 340 m ³ /hr |
| Max Head | 191 metres |
| Max Solids handling | 22 mm |
| Max Impeller diameter | 514 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 | 2100 rpm |

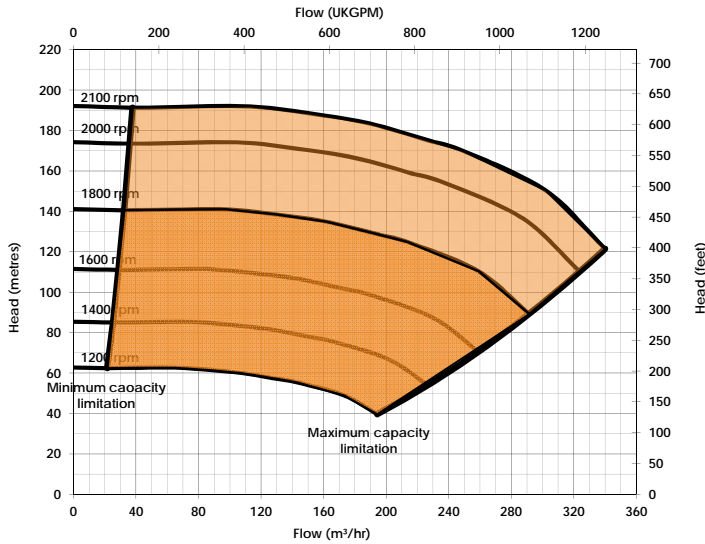
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Please contact the factory or office for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve



Materials

| | |
|-----------------------------|---|
| Pump casing & suction cover | Cast iron BS1452:1990 Grade 220 |
| Wearplates | High Chromium Cast Iron HC403:1977 Grade FR6252 |
| Pump Shaft | Nickel Chrome Steel to BS970-1:1991 Grade 817M40T |
| Impeller | Cast Steel BS3100 A5 Hardness to 200 HB Brinell |
| Non-return Valve body | Steel |
| Mechanical Seal Faces | Silicon carbide vs silicon carbide |

Engine option 1

Caterpillar, C9, 205.0 kW @ 2100 rpm

Impeller diameter 514 mm

Suction Lift Table

| Total Suction Head (metres) | Total Delivery Head (metres) | | | | |
|-----------------------------|------------------------------|-----|-----|-----|-----|
| | 110 | 149 | 160 | 171 | 182 |
| | Output (m³/hr) | | | | |
| 3.0 | 341 | 299 | 268 | 229 | 153 |
| 4.6 | 336 | 294 | 263 | 226 | 143 |
| 6.1 | 331 | 294 | 252 | 210 | 134 |
| 7.6 | 326 | 294 | 263 | 189 | 105 |

Fuel capacity (Full) 850 litres, (Usable) 690 litres

Fuel consumption @ 2100 rpm BEP 52 litres/hour

Weight: (Dry) 4,600 kg, (Wet) 5,331 kg

Dimensions: (L) 3,700 x (W) 1,700 x (H) 2,200 mm

Engine option 2

Volvo, TAD950VE, 181.0 kW @ 1800 rpm

Impeller diameter 514 mm

Suction Lift Table

| Total Suction Head (metres) | Total Delivery Head (metres) | | | | |
|-----------------------------|------------------------------|-----|-----|-----|-----|
| | 79 | 107 | 115 | 123 | 131 |
| | Output (m³/hr) | | | | |
| 3.0 | 293 | 257 | 230 | 196 | 131 |
| 4.6 | 288 | 252 | 225 | 194 | 122 |
| 6.1 | 284 | 252 | 216 | 180 | 115 |
| 7.6 | 279 | 252 | 225 | 162 | 90 |

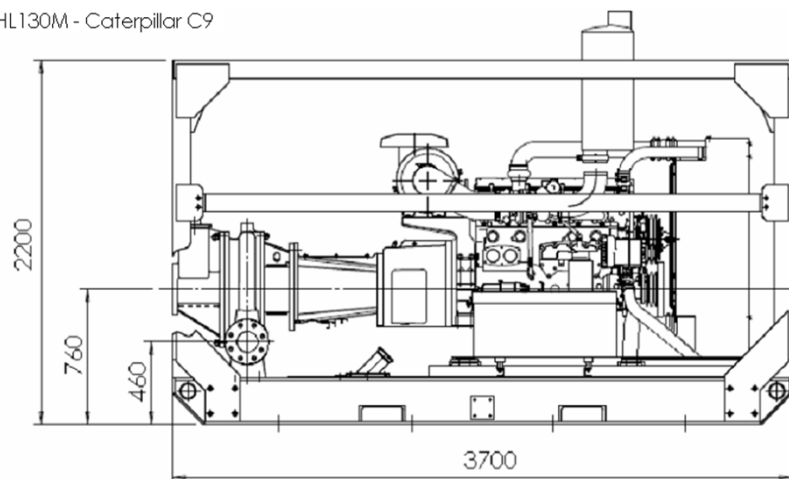
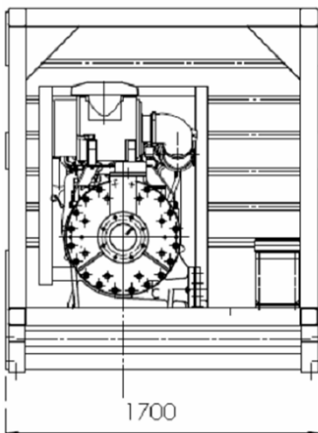
Fuel capacity (Full) 850 litres, (Usable) 690 litres

Fuel consumption @ 1800 rpm BEP 35 litres/hour

Weight: (Dry) 5,000 kg, (Wet) 5,744 kg

Dimensions: (L) 3,700 x (W) 1,700 x (H) 2,200 mm

HL130M - Caterpillar C9



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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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Xylem Dewatering Solutions

Quenington, Cirencester
Gloucestershire GL7 5BX, England
Tel: 01285 750271 Fax: 01285 750352
Website: www.godwinpumps.co.uk
E-mail: sales@godwinpumps.co.uk

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