

# HL160M Dri-Prime® Hush-Pac

The Godwin Dri-Prime HL160M pump is an extremely powerful yet compact pump with flow capabilities to 486 m<sup>3</sup>/hr and discharge heads to 187 metres.

The HL160M features a 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 HL160M 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 HL160M has proven itself a pump of choice for mines, quarries and many other high capacity 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 35 mm in diameter.
- Dry-running high pressure liquid 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 build engines; Caterpillar C15, Volvo TAD951VE. Other engine options are available.

## Specifications

Suction connection	200 mm (8" BS10 Table'D')
Delivery connection	150 mm (6" BS EN 1092 PN25)
Max capacity	486 m <sup>3</sup> /hr
Max Solids handling	35 mm
Max Impeller diameter	508 mm
Max operating temperature	80 °C *
Max pressure	18.5 bar
Max suction pressure	6.0 bar
Max casing pressure	27.7 bar
Max operating speed	2000 rpm

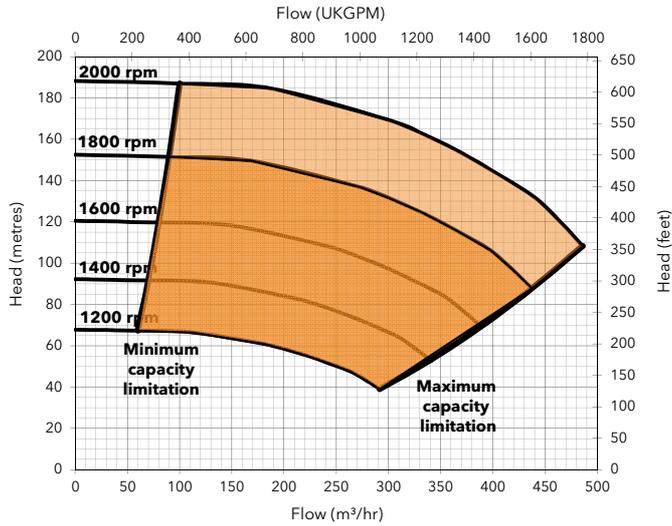
\* Please contact our office for applications in excess of 80°C.

godwin   
a xylem brand

Reference number : 95-1117-1099  
Date of issue : 05 March 2014  
Issue : 10

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



## Engine option 1

Price list ref - HL160M-01-DBH-001

Caterpillar, C15, 315.0 kW @ 2000 rpm

Impeller diameter 508 mm

Pump Speed 2000 rpm

### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	110	140	160	180	180
	Output (m³/hr)				
3.0	486	406	345	240	185
4.6	475	398	334	230	170
6.1	415	405	320	198	162
7.6	325	315	290	200	-

Fuel capacity (Full) 1198 litres, (Usable) 970 litres

Fuel consumption @ 1800 rpm 78.3 litres/hour

Weight: (Dry) 8,500 kg, (Wet) 9,500 kg

Dimensions: (L) 5,250 x (W) 2,100 x (H) 3,055 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.

Av Sound Pressure Rating (dba)			
Running Speed (rpm)	Distance		
	1m	3m	7m
1200	71	66	63
1800	74	69	64
2000	76	70	65

# Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	High Chromium Cast Iron HC403:1977 Grade FR6252
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 viton

## Engine option 2

Price list ref - HL160M-01-DBH-003

Volvo, TAD951VE, 203.0 kW @ 1800 rpm

Impeller diameter 508 mm

Pump Speed 1800 rpm

### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	87	111	127	143	143
	Output (m³/hr)				
3.0	437	365	311	216	167
4.6	428	358	301	207	153
6.1	374	365	288	178	146
7.6	293	284	261	180	-

Fuel capacity (Full) 772 litres, (Usable) 625 litres

Fuel consumption @ 1800 rpm 50.8 litres/hour

Weight: (Dry) 6,600 kg, (Wet) 7,300 kg

Dimensions: (L) 4,580 x (W) 2,065 x (H) 2,545 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.

Av Sound Pressure Rating (dba)			
Running Speed (rpm)	Distance		
	1m	3m	7m
1200	71	66	63
1800	74	69	64



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



Assessed to ISO 9001:2008  
 Certificate N° 1027

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