

# CD103M Dri-Prime® Pump

The Godwin Dri-Prime CD103M pump is an extremely powerful yet compact pump with flow capabilities to 232 m<sup>3</sup>/hr and discharge heads to 51 metres.

The CD103M 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 CD103M can handle solids up to 75 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful CD103M has proven itself a pump of choice for sewage handling, dewatering, local authority usage and many other applications.



## Features and Benefits

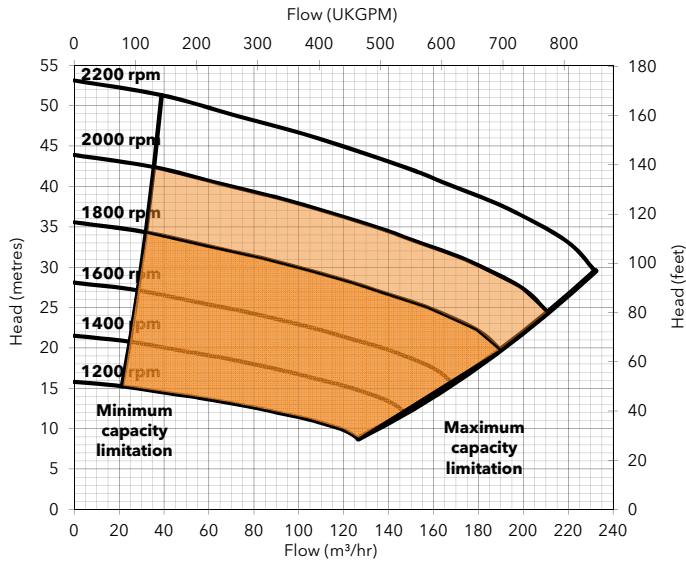
- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 75 mm in 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 Hush-Pac or as a bareshaft pumpend.
- Standard build engines; Perkins 404D-22T, Perkins 404D-22, Perkins 403D-15. Other engine options are available.

## Specifications

Suction connection	100 mm (4" BS10 Table 'D')
Delivery connection	100 mm (4" BS10 Table 'D')
Max capacity	232 m <sup>3</sup> /hr
Max Head	51 metres
Max Solids handling	75 mm
Max Impeller diameter	256 mm
Max operating temp	80 °C
Max working pressure	5.2 bar
Max suction pressure	4.0 bar
Max casing pressure	7.8 bar
Max operating speed	2200 rpm

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## Performance Curve



### Engine option 1

Price list ref - CD103M-01-DBO-003

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

Impeller diameter 256 mm

Pump Speed 2000 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	19	25	32	38	44
	Output (m³/hr)				
3.0	211	189	133	72	-
4.6	206	172	111	44	-
6.1	183	156	89	-	-
7.6	167	133	56	-	-

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

Fuel consumption @ 2000 rpm BEP 8 litres/hour

Weight: (Dry) 994 kg, (Wet) 1,139 kg

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

## Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	Cast iron BS EN 1561 - 1997
Pump Shaft	Carbon steel BS 970 - 1991 817M40T
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

### Engine option 2

Price list ref - CD103M-01-DBO-002

Perkins, 404D-22, 22.8 kW @ 1800 rpm

Impeller diameter 256 mm

Pump Speed 1800 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	15	20	25	30	35
	Output (m³/hr)				
3.0	190	170	120	65	-
4.6	185	155	100	40	-
6.1	165	140	80	-	-
7.6	150	120	50	-	-

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

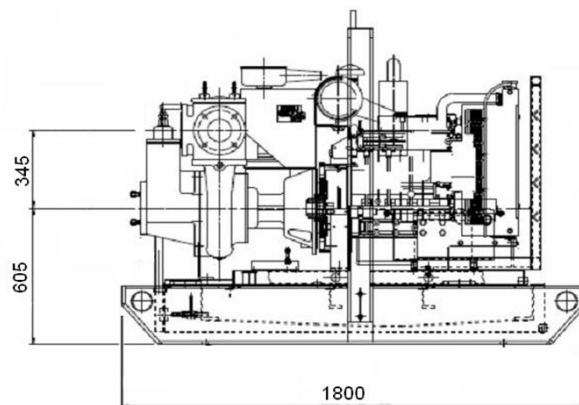
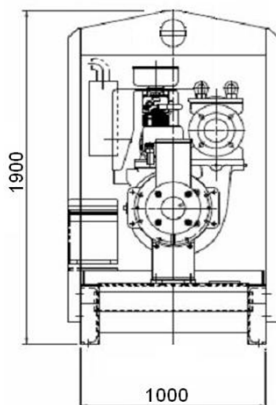
Fuel consumption @ 1800 rpm BEP 5 litres/hour

Weight: (Dry) 984 kg, (Wet) 1,129 kg

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

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CD103M Perkins 404D-22



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