

Godwin CD225M Dri-Prime® Pump



The Godwin Dri-Prime CD225M pump is an extremely powerful yet compact pump with flow capabilities to 735 m³/hr and discharge heads to 49 metres.

The CD225M 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 CD225M 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 CD225M has proven itself a pump of choice for sewer bypass, general dewatering and many other applications.

Specifications

Suction connection	200 mm (8 in) flange
Delivery connection	200 mm (8 in) flange
Max capacity	735 m ³ /hr (3,235 USGPM) ¹
Max impeller diameter	290 mm (11.4 in)
Max solids handling	75 mm (3 in)
Max operating temperature	80°C (176°F) ²
Max pressure	5.0 bar (73 psi)
Max suction pressure	5.0 bar (73 psi)
Max casing pressure	7.5 bar (109 psi)
Max operating speed	2200 rpm

¹ Larger diameter pipes may be required for maximum flows.

² Please contact our sales and product support for applications in excess of 80°C (176°F).

Features and benefits

- Fully automatic priming from dry to 8.5 m (28 ft) 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.
- Available as Open Skidbase or Sound Attenuated Enclosure, both of which can be trailer mounted.
- Standard engines are compliant with regional emissions legislation.
- Other engine options are available.

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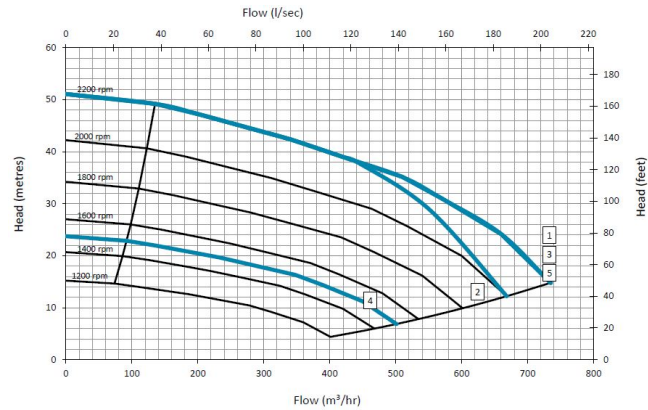
Suction lift table 1800 rpm

Performance data provided in tables is based on water tests at sea level and 20°C (68°F) ambient.

Total suction head (metre)	Total delivery head (metre)				
	6	11	18	22	25
	Output (m ³ /hr)				
3.0	585	540	432	-	-
4.6	540	473	383	315	-
6.1	315	315	315	270	-
7.6	225	225	225	180	72

Performance curve

Pump curve is based on 0 m (0 ft) dynamic suction lift.



Materials

Pump casing	Cast Iron BS EN 1561/EN-JL1030
Wearplates	High Chromium Cast Iron HC403:1977
Pump shaft	Carbon steel BS970:1991 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Mechanical seal faces	Silicon carbide Vs Silicon carbide

Driver options

Option	Driver	Power kW (hp)	Fuel / Energy Use 1800 rpm	Emissions Rating
1	Perkins 904J-E36TA	90 (121)	11 L/hr	EU Stage 5
2	Perkins 1104D-E44TA	83 (111)	11 L/hr	EU Stage 3A
3	CAT C4.4	96.5 (129)	11.5 L/hr	EU Stage 3A
4	37 kW, 4 p, 50 Hz, Electric Motor	37 (50)	57 A	IE 3
5	110 kW, 4 p, 50 Hz, Electric Motor (VFD)	110 (148)	151 A	IE 3

Open skidbase

(Image shows optional trailer)

Information provided is based on the Perkins 904J-E36TA .

Fuel capacity	318 L (84 US Gal)
Weight dry	1,995 kg (4,400 lb)
Weight wet	2,325 kg (5,125 lb)
Dimensions (L x W x H)	2,500 mm x 1,300 mm x 1,900 mm (98 in x 51 in x 75 in)

Sound attenuated enclosure

Information provided is based on the Perkins 904J-E36TA.

Noise @ 23 ft (7 m)	68 dBA
Fuel capacity	319 L (84 US Gal)
Weight dry	2,230 kg (4,920 lb)
Weight wet	2,500 kg (5,510 lb)
Dimensions (L x W x H)	2,960 mm x 1,380 mm x 2,150 mm (117 in x 54 in x 85 in)

