

CD250M Dri-Prime® Hushpac

CD250M

The Godwin Dri-Prime® CD250M pump is an extremely powerful yet compact pump with flow capabilities to 843 m³/hr and discharge heads to 51 metres.

The CD250M features the unique Godwin high pressure oil bath mechanical seal design. This allows for totally dry running for indefinite periods while automatically priming and repriming. Able to perform in the toughest conditions, the CD250M 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 CD250M 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 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 a openset or as a bareshaft pumpend.
- Standard engine Perkins 1104D-E44TA. Also available with Perkins 1106D-E66TA (129)

Specifications

Suction pipe	250 mm (10" BS10 Table 'D')
Delivery pipe	250 mm (10" BS10 Table 'D')
Max capacity	843 m ³ /hr
Max Head	51 metres
Solids handling	75 mm
Impeller diameter	290 mm
Max operating temp	80 °C
Max working pressure	5.5 bar
Max suction pressure	4.5 bar
Max casing pressure	8.5 bar
Max operating speed	2200 rpm
Fuel tank capacity	324 litres
Fuel consumption (BEP) 64.9 kW @ 2000 rpm	17 litres/hour

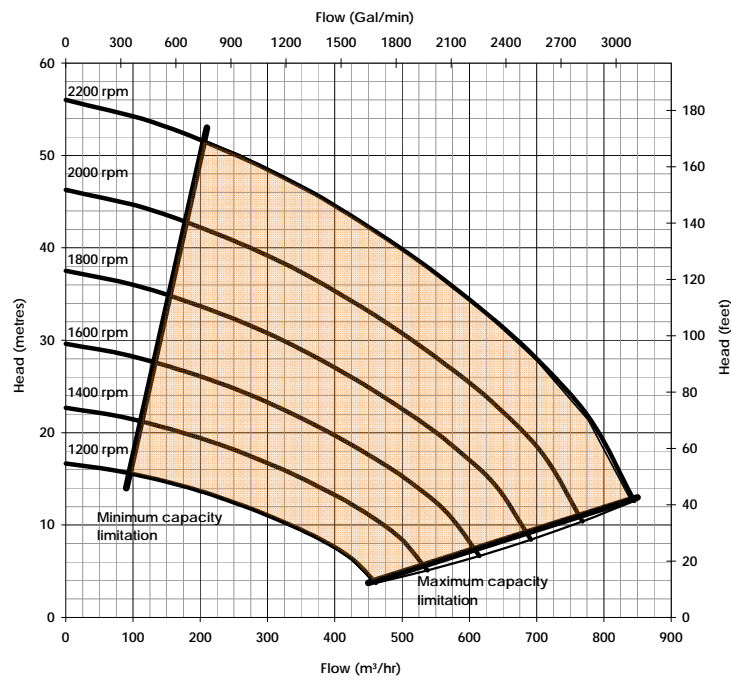


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Please contact Godwin Pumps Ltd for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve



Materials

Pump casing & suction cover	Cast iron BS1452:1990 Grade 220
Wearplates	Cast iron hardened to 480 HB Brinell
Pump Shaft	Nickel Chrome Steel to BS970 Grade 817M40T
Impeller	Cast Steel BS3100 1976GRBW 4 Hardness to 341 HB Brinell
Non-return Valve body	Cast Iron
Mechanical Seal Faces	Silicon carbide vs silicon carbide

Weight

CD250M with Perkins 1104D-E44TA engine	Dry weight	2,900 kg
	Wet weight	3,200 kg
CD250M with Perkins 1106D-E66TA (129) engine	Dry weight	3,050 kg
	Wet weight	3,350 kg

Engine option 1

Perkins, 1104D-E44TA, 74.1 kW @ 2000 rpm
 Impeller diameter 290 mm

Engine option 2

Perkins, 1106D-E66TA (129), 103.5 kW @ 2200 rpm
 Impeller diameter 290 mm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	5	15	26	36	40
3.0	775	700	535	300	180
4.6	760	680	510	255	120
6.1	700	650	470	210	115
7.6	650	600	475	160	-

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	8	25	35	45	48
3.0	850	700	535	300	180
4.6	840	675	510	255	120
6.1	750	650	470	210	115
7.6	650	600	430	160	-

Overall dimensions

CD250M with Perkins 1104D-E44TA Hushpac	Length	3350 mm
	Width	1300 mm
	Height	1887 mm
CD250M with Perkins 1106D-E66TA (129) Hushpac	Length	3350 mm
	Width	1300 mm
	Height	1887 mm

Acoustic information

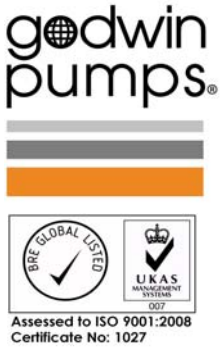
Engine	Speed (rpm)	Average Sound Pressure rating (dba)		
		1 m	3 m	7 m
Perkins 1104D-E44TA Hushpac	1400	72	65	65
	1500	76	69	66
	2000	79	78	76
Perkins 1106D-E66TA (129) Hushpac	1200	73	66	67
	1800	77	71	68
	2100	81	80	78

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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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