

CD300M Dri-Prime® Pump

CD300M

The Godwin Dri-Prime® CD300M pump is an extremely powerful yet compact pump with flow capabilities to 1,360 m³/hr and discharge heads to 54 metres.

The CD300M 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 CD300M can handle solids up to 95 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful CD300M 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 95 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 engine Perkins 1106D-E66TA (129). Also available with Caterpillar C9

Specifications

Suction pipe	300 mm (12" BS10 table 'D')
Delivery pipe	300 mm (12" BS10 table 'D')
Max capacity	1360 m ³ /hr
Max Head	54 metres
Solids handling	95 mm
Impeller diameter	362 mm
Max operating temp	80 °C
Max working pressure	6.0 bar
Max suction pressure	4.0 bar
Max casing pressure	9.0 bar
Max operating speed	1800 rpm
Fuel tank capacity	850 litres
Fuel consumption (BEP) 85 kW @ 1500 rpm	24 litres/hour

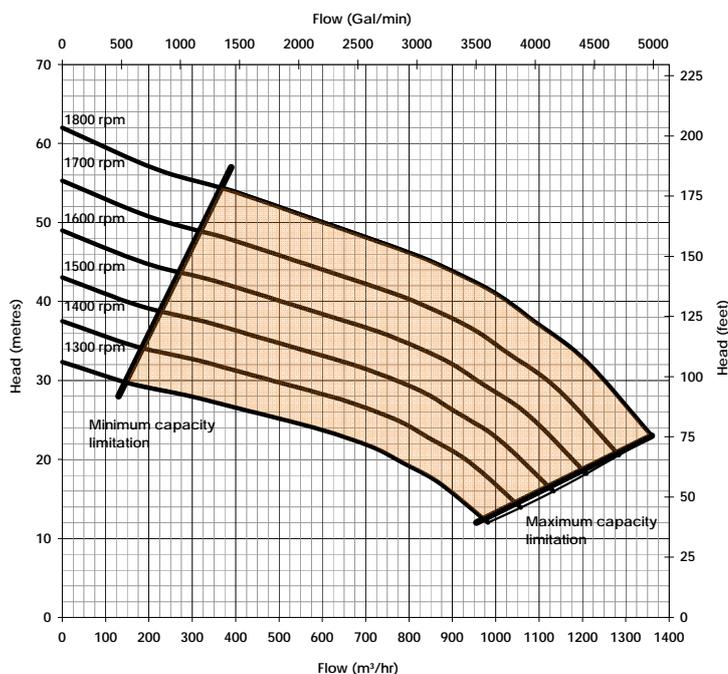


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Please contact Godwin Pumps Ltd for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve



Materials

Pump casing & suction cover	Cast iron BS1452:1990 Grade 220
Wearplates	High Chromium Cast Iron HC403:1977 Grade FR6252
Pump Shaft	Nickel Chrome Steel to BS970 Grade 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast Iron
Mechanical Seal Faces	Double Mech seal; inboard SiC v SiC, Outboard SiC v Carbon

Weight

CD300M with Perkins 1106D-E66TA (129) engine	Dry weight	4,100 kg
	Wet weight	4,808 kg
CD300M with Caterpillar C9 engine	Dry weight	4,800 kg
	Wet weight	5,531 kg

Engine option 1

Perkins, 1106D-E66TA (129), 94.5 kW @ 1500 rpm

Impeller diameter 362 mm

Engine option 2

Caterpillar, C9, 205.0 kW @ 1800 rpm

Impeller diameter 362 mm

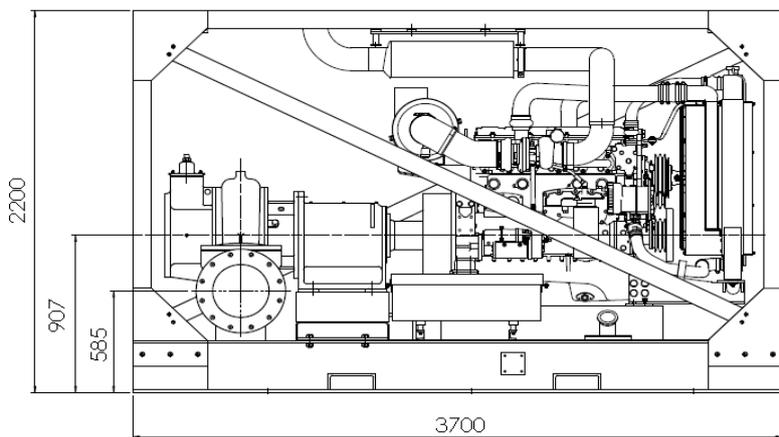
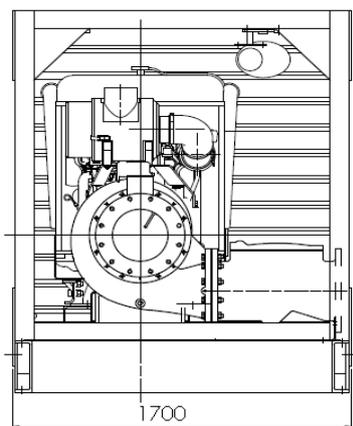
Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	12	20	27	29	32
3.0	1150	1000	780	670	490
4.6	1120	950	690	580	399
6.1	1000	900	550	400	200
7.6	800	750	500	400	-

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	20	35	43	45	50
3.0	1350	1100	780	670	400
4.6	1350	1050	690	580	300
6.1	1200	1000	725	500	200
7.6	1100	950	600	450	175

CD300M - 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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All information is approximate and for general guidance only.
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CD300M Dri-Prime® Hushpac

CD300M

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- Extensive application flexibility. It will handle screened sewage, slurries and liquids with solids up to 95 mm in diameter.
- Dry-running high pressure oil bath mechanical seal, with high abrasion resistant silicon carbide faces.
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- Standard engine Perkins 1106D-E66TA (129). Also available with Caterpillar C9

Specifications

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Delivery pipe	300 mm (12" BS10 table 'D')
Max capacity	1360 m ³ /hr
Max Head	54 metres
Solids handling	95 mm
Impeller diameter	362 mm
Max operating temp	80 °C
Max working pressure	6.0 bar
Max suction pressure	4.0 bar
Max casing pressure	9.0 bar
Max operating speed	1800 rpm
Fuel tank capacity	550 litres
Fuel consumption (BEP) 93.3 kW @ 1500 rpm	26 litres/hour

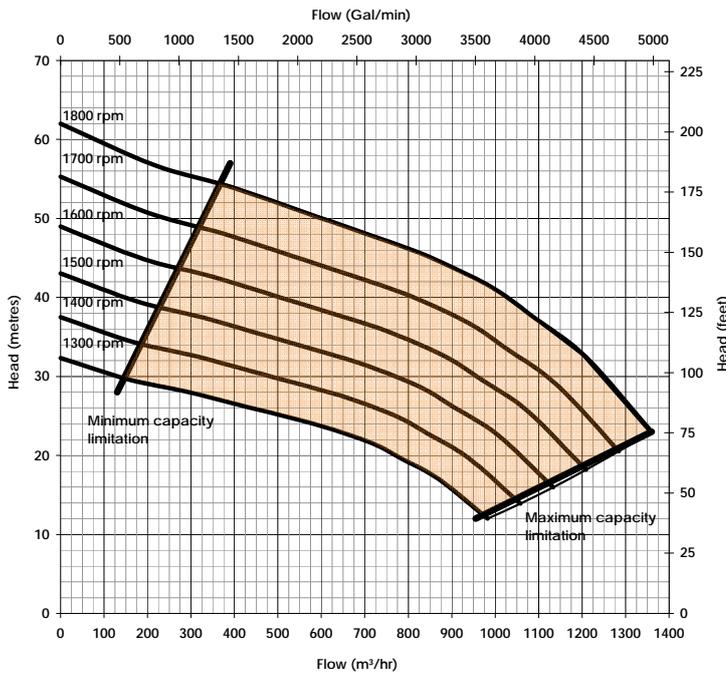


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Performance Curve



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 Grade 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast Iron
Mechanical Seal Faces	Double Mech seal; inboard SiC v SiC, Outboard SiC v Carbon

Weight

CD300M with Perkins 1106D-E66TA (129) engine	Dry weight	4,700 kg
	Wet weight	5,168 kg
CD300M with Caterpillar C9 engine	Dry weight	6,000 kg
	Wet weight	6,620 kg

Engine option 1

Perkins, 1106D-E66TA (129), 94.5 kW @ 1500 rpm

Impeller diameter 362 mm

Engine option 2

Caterpillar, C9, 205.0 kW @ 1800 rpm

Impeller diameter 362 mm

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	12	20	27	29	32
Output (m³/hr)					
3.0	1150	1000	780	670	490
4.6	1120	950	690	580	399
6.1	1000	900	550	400	200
7.6	800	750	500	400	-

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	20	35	43	45	50
Output (m³/hr)					
3.0	1350	1100	780	670	400
4.6	1350	1050	690	580	300
6.1	1200	1000	725	500	200
7.6	1100	950	600	450	175

Overall dimensions

CD300M with Perkins 1106D-E66TA (129) Hushpac	Length	4200 mm
	Width	1500 mm
	Height	1900 mm
CD300M with Caterpillar C9 Hushpac	Length	4580 mm
	Width	2065 mm
	Height	2545 mm

Acoustic information

Engine	Speed (rpm)	Average Sound Pressure rating (dbA)		
		1 m	3 m	7 m
Perkins 1106D-E66TA (129) Hushpac	1200	73	71	65
	1500	73	72	66
	1800	75	73	67
Caterpillar C9 Hushpac	1200	77	78	70
	1500	79	78	72
	1800	81	79	73

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