

# CD180M Dri-Prime® Pump

The Godwin Dri-Prime CD180M pump is an extremely powerful yet compact pump with flow capabilities to 476 m<sup>3</sup>/hr and discharge heads to 77 metres.

The CD180M 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 CD180M 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 CD180M has proven itself a pump of choice for mines, quarries and many other high capacity applications.



## Features and Benefits

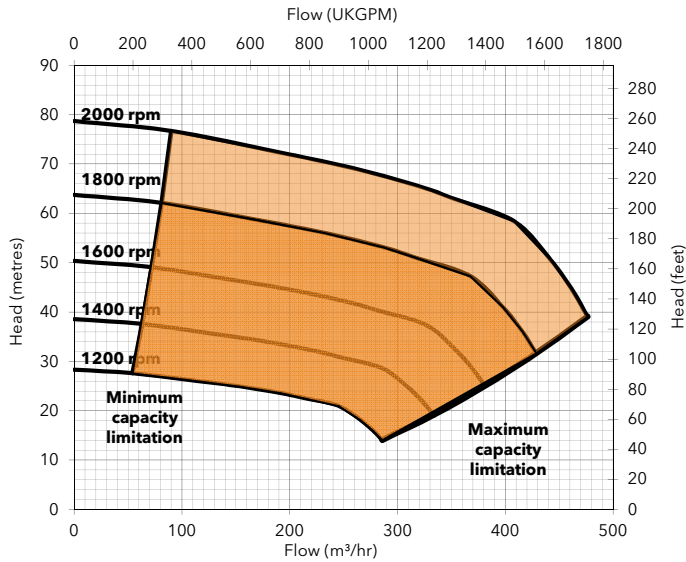
- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 75 mm in 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 1106D-E66TA (129), Perkins 1104D-E44TA. Other engine options are available.

## Specifications

Suction connection	200 mm (8" BS10 Table 'D')
Delivery connection	150 mm (6" BS10 Table 'D')
Max capacity	476 m <sup>3</sup> /hr
Max Head	77 metres
Max Solids handling	75 mm
Max Impeller diameter	356 mm
Max operating temp	80 °C
Max working pressure	7.7 bar
Max suction pressure	5.0 bar
Max casing pressure	11.6 bar
Max operating speed	2000 rpm

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## Performance Curve



### Engine option 1

Price list ref - CD180M-01-DBO-002

Perkins, 1106D-E66TA (129), 106.7 kW @ 2000 rpm

Impeller diameter 356 mm

Pump Speed 2000 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	40	50	57	65	70
	Output (m³/hr)				
3.0	460	430	375	280	160
4.6	440	420	375	240	100
6.1	425	400	350	200	80
7.6	400	375	325	150	-

Fuel capacity (Full) 475 litres, (Usable) 388 litres

Fuel consumption @ 2000 rpm BEP 28 litres/hour

Weight: (Dry) 2,350 kg, (Wet) 2,758 kg

Dimensions: (L) 2,950 x (W) 1,300 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 - CD180M-01-DBO-001

Perkins, 1104D-E44TA, 71.9 kW @ 1800 rpm

Impeller diameter 356 mm

Pump Speed 1800 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	30	38	44	50	54
	Output (m³/hr)				
3.0	414	387	338	252	144
4.6	396	378	338	216	90
6.1	383	360	315	180	72
7.6	360	338	293	135	-

Fuel capacity (Full) 390 litres, (Usable) 318 litres

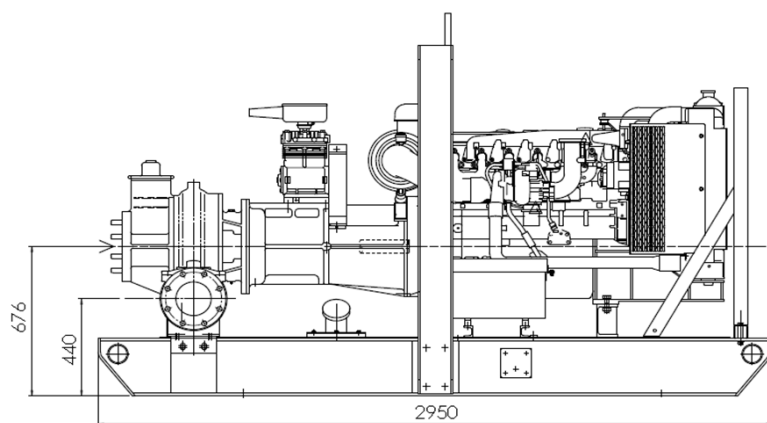
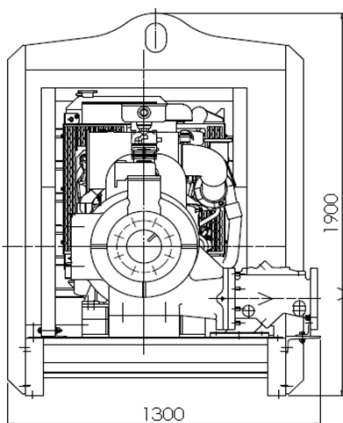
Fuel consumption @ 1800 rpm BEP 18 litres/hour

Weight: (Dry) 2,050 kg, (Wet) 2,383 kg

Dimensions: (L) 2,500 x (W) 1,300 x (H) 1,900 mm

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CD180M - Perkins 1106D-E66TA (129)



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