

# CD400M Dri-Prime® Pump

The Godwin Dri-Prime CD400M pump is an extremely powerful yet compact pump with flow capabilities to 2,218 m<sup>3</sup>/hr and discharge heads to 42 metres.

The CD400M 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 CD400M can handle solids up to 125 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful CD400M has proven itself a pump of choice for mines, quarries and many other high capacity applications.



## Features and Benefits

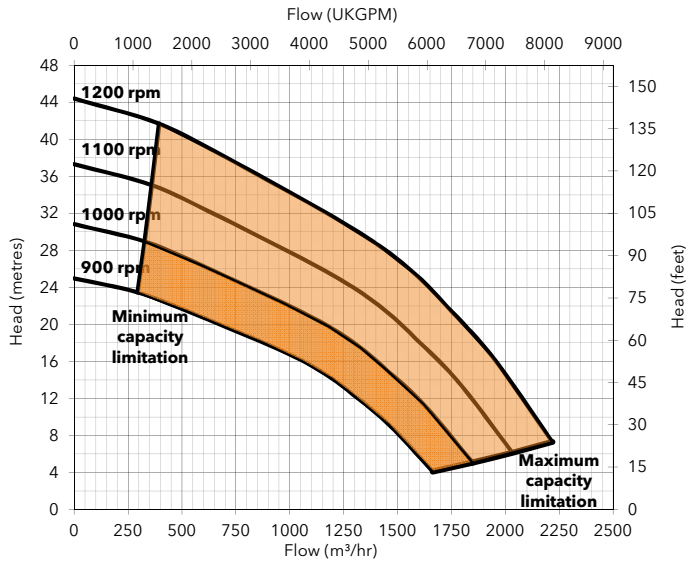
- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 125 mm in 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; Caterpillar C9, Perkins 1106D-E66TA (168), Volvo TAD951VE. Other engine options are available.

## Specifications

Suction connection	450 mm (18" BS10 table 'D')
Delivery connection	400 mm (16" BS10 table 'D')
Max capacity	2218 m <sup>3</sup> /hr
Max Head	42 metres
Max Solids handling	125 mm
Max Impeller diameter	500 mm
Max operating temp	80 °C
Max working pressure	4.4 bar
Max suction pressure	3.0 bar
Max casing pressure	6.5 bar
Max operating speed	1200 rpm

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## Performance Curve



### Engine option 1

Price list ref - CD400M-01-DBO-002

Caterpillar, C9, 205.0 kW @ 1800 rpm

Impeller diameter 500 mm

Pump Speed 1200 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	4	16	23	27	32
Output (m³/hr)					
3.0	2218	1860	1560	1260	960
4.6	2112	1788	1380	1080	780
6.1	1980	1620	1320	900	660
7.6	1140	1020	900	780	-

Fuel capacity (Full) 550 litres, (Usable) 446 litres

Fuel consumption @ 1800 rpm BEP 45 litres/hour

Weight: (Dry) 7,000 kg, (Wet) 7,750 kg

Dimensions: (L) 5,000 x (W) 2,205 x (H) 2,405 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	Double Mech seal; inboard SiC v SiC, Outboard SiC v Carbon

### Engine option 2

Price list ref - CD400M-01-DBO-001

Perkins, 1106D-E66TA (168), 147.6 kW @ 2000 rpm

Impeller diameter 500 mm

Pump Speed 1000 rpm

#### Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	2	10	15	18	21
Output (m³/hr)					
3.0	1848	1550	1300	1050	800
4.6	1760	1490	1150	900	650
6.1	1650	1350	1100	750	550
7.6	950	850	750	650	-

Fuel capacity (Full) 620 litres, (Usable) 535 litres

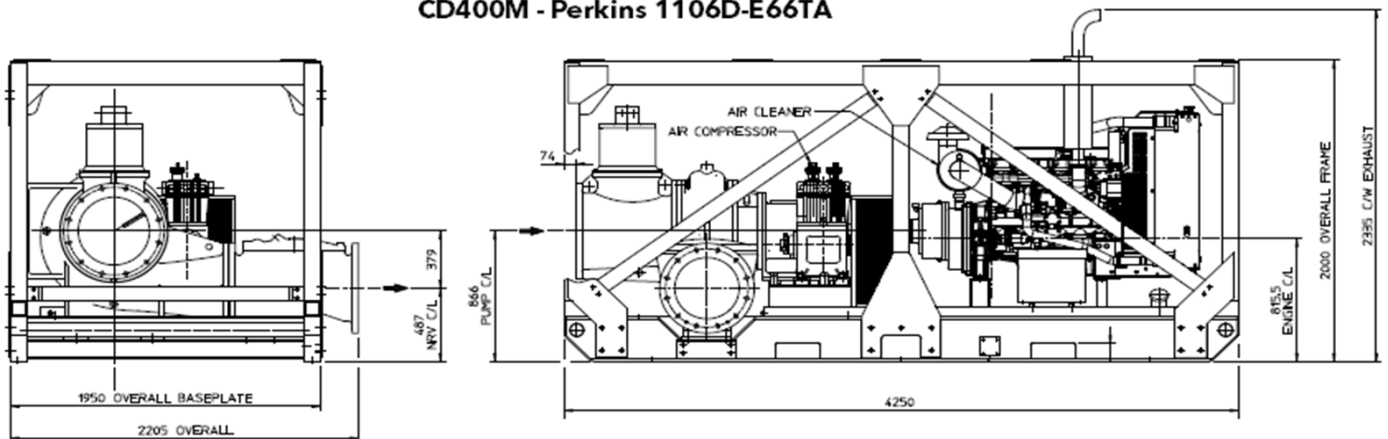
Fuel consumption @ 2000 rpm BEP 37 litres/hour

Weight: (Dry) 6,450 kg, (Wet) 7,050 kg

Dimensions: (L) 4,250 x (W) 2,205 x (H) 2,000 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.

### CD400M - Perkins 1106D-E66TA



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